ORDINANCE NO. 3406

AN ORDINANCE OF THE CITY OF CORONA, CALIFORNIA AMENDING CHAPTER 16.21 TO UPDATE THE WESTERN RIVERSIDE COUNTY TRANSPORTATION UNIFORM MITIGATION FEE (TUMF) PROGRAM.

WHEREAS, the City of Corona ("City") is a member agency of the Western Riverside Council of Governments ("WRCOG"), a joint powers agency comprised of the County of Riverside and seventeen cities located in Western Riverside County; and

WHEREAS, the member agencies of WRCOG, recognizing that there is insufficient funding to address the impacts of new development on the regional system of highways and arterials in Western Riverside County ("Regional System"), developed a plan whereby the shortfall in funds needed to enlarge the capacity of the Regional System could be made up, in part, by the imposition of a development impact fee on future residential, commercial, and industrial development. A map depicting the boundaries of Western Riverside County and the Regional System is attached as Exhibit "A" and incorporated herein by reference; and

WHEREAS, on November 5, 2002, the voters in Riverside County approved Measure "A" which extended the half-cent sales tax for thirty years to provide funding for various transportation improvements throughout Riverside County, including the acquisition, construction, operation, and maintenance of streets, roads, and highways; and

WHEREAS, Section 5 of the Expenditure Plan for Measure "A" requires that the City participate in the WRCOG Transportation Uniform Mitigation Fee ("TUMF") program in order to receive its fair share of the transportation funds generated by Measure "A"; and

WHEREAS, the TUMF program requires each member entity of WRCOG, including the City, to adopt an ordinance imposing a development impact fee on new construction within that entity's jurisdiction for purposes of funding the TUMF program; and

WHEREAS, on March 5, 2003, the City Council adopted Ordinance No. 2629 adding Chapter 16.21 to the Corona Municipal Code to authorize the City's participation in the WRCOG TUMF program and authorizing imposition of a development impact fee to fund the TUMF program, the amount of which is to be established by resolution; and

WHEREAS, on April 19, 2006, the City Council adopted Ordinance No. 2815 amending Chapter 16.21 of the Corona Municipal Code for the purpose of updating the previously adopted TUMF fees; and

WHEREAS, on December 2, 2009, the City Council adopted Ordinance No. 3020 amending Chapter 16.21 of the Corona Municipal Code for the purpose of updating the previously adopted TUMF fees; and



WHEREAS, on September 6, 2017, the City Council adopted Ordinance No. 3264 amending Chapter 16.21 of the Corona Municipal Code for the purpose of updating the TUMF regulations and the previously adopted TUMF fees; and

WHEREAS, on December 19, 2018, the City Council adopted Ordinance No. 3290 amending Chapter 16.21 of the Corona Municipal Code to permit WRCOG to calculate and collect TUMF fees on behalf of the City under the TUMF program; and

WHEREAS, WRCOG has identified a funding shortfall in the TUMF program and commissioned a new nexus study in compliance with the Mitigation Fee Act (California Government Code Section 66000 *et seq.*) for the purpose of again updating the previously adopted TUMF fees. The nexus study, entitled "Transportation Uniform Mitigation Fee Nexus Study: 2024 Update," is attached as Exhibit "B" and incorporated herein by reference; and

WHEREAS, the City Council desires to amend Chapter 16.21 to update the TUMF program regulations and to update the previously adopted TUMF fees in accordance with WRCOG's most recent nexus study; and

WHEREAS, this Ordinance is intended to satisfy the City's ongoing obligations for participation in the TUMF program and for receipt of funds under Measure "A."

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CORONA DOES ORDAIN AS FOLLOWS:

SECTION 1. Chapter 16.21. Chapter 16.21 (Transportation Uniform Mitigation Fee Program) is hereby amended in its entirety to read as follows:

"CHAPTER 16.21 TRANSPORTATION UNIFORM MITIGATION FEE PROGRAM

| Sections | |
|------------------|-----------------------------------------|
| <u>16.21.010</u> | Title. |
| <u>16.21.020</u> | Findings. |
| <u>16.21.030</u> | Definitions. |
| <u>16.21.040</u> | Establishment of Transportation Uniform |
| | Mitigation Fee (TUMF). |
| <u>16.21.050</u> | Reimbursements. |
| <u>16.21.060</u> | Procedures for Levy, Collection and |
| | Disposition of Fees. |
| 16.21.070 | Appointment of TUMF Administrator. |
| | |

16.21.010 Title.

This chapter shall be known as the "Western Riverside County Transportation Uniform Mitigation Fee Program Chapter."

16.21.020 Findings.

- The City is a member agency of the Western Riverside A. Council of Governments ("WRCOG"), a joint powers agency comprised of the County of Riverside and 18 cities located in Western Riverside County. Acting in concert, the WRCOG Member Agencies developed a plan whereby the shortfall in funds needed to enlarge the capacity of the Regional System of Highways and Arterials in Western Riverside County (the "Regional System") could be made up in part by a Transportation Uniform Mitigation Fee ("TUMF") on future residential, commercial and industrial development. A map depicting the boundaries of Western Riverside County and the Regional System is attached as Exhibit "A" to the Ordinance enacting this chapter and is incorporated herein. As a Member Agency of WRCOG and as a TUMF Participating Jurisdiction, the City participated in the preparation of a certain "Western Riverside County Transportation Uniform Fee Nexus Study," dated October 18, 2002 (the "2002 Nexus Study") prepared in compliance with the Mitigation Fee Act (Gov. Code §§ 66000 et seq.) and adopted by the WRCOG Executive Committee. Based on the 2002 Nexus Study, the City adopted and implemented an ordinance authorizing the City's participation in a TUMF Program.
- B. WRCOG, with the assistance of TUMF Participating Jurisdictions, has prepared an updated nexus study entitled "Transportation Uniform Mitigation Fee Nexus 2024Update" ("2024 Nexus Study") pursuant to California Government Code sections 66000 et seq. (the Mitigation Fee Act), for the purpose of updating the fees. On September 9, 2024, the WRCOG Executive Committee reviewed the 2024 Nexus Study and TUMF Program and recommended TUMF **Participating** Jurisdictions amend their applicable TUMF ordinances to reflect changes in the TUMF network and the cost of construction in order to update the TUMF Program.
- C. Consistent with its previous findings made in the adoption of the Ordinances enacting this chapter, the City Council has been informed and advised, and hereby finds, that if the capacity of the Regional System is not enlarged and unless development contributes

to the cost of improving the Regional System, the result will be substantial traffic congestion in all parts of Western Riverside County, with unacceptable Levels of Service. Furthermore, the failure to mitigate growing traffic impacts on the Regional System will substantially impair the ability of public safety services (police and fire) to respond and, thus, adversely affect the public health, safety and welfare. Therefore, continuation of a TUMF Program is essential.

- D. The City Council finds and determines that there is a reasonable and rational relationship between the use of the TUMF and the type of development projects on which the fees are imposed because the fees will be used to construct the transportation improvements that are necessary for the safety, health and welfare of the residential and non-residential users of the development in which the TUMF will be levied.
- E. The City Council finds and determines that there is a reasonable and rational relationship between the need for the improvements to the Regional System and the type of development projects on which the TUMF is imposed because it will be necessary for the residential and non-residential users of such projects to have access to the Regional system. Such development will benefit from the Regional System improvements and the burden of such developments will be mitigated in part by payment of the TUMF.
- F. The City Council finds and determines that the cost estimates set forth in the new 2024 Nexus Study are reasonable cost estimates for constructing the Regional System improvements and the facilities that compromise the Regional System, and that the amount of the TUMF expected to be generated by new development will not exceed the total fair share cost to such development.
- G. The fees collected pursuant to this Ordinance shall be used to help pay for the design, planning, construction of and real acquisition for the Regional System improvements and its facilities as identified in the 2024 Nexus Study. The need for the improvements and facilities is related to new development because such development results in additional traffic and creates the demand for the improvements.
- H. By notice duly given and published, the City Council set the time and place for a public hearing on the 2024 Nexus Study and the fees proposed thereunder and at least ten (10) days prior to this

hearing, the City Council made the 2024 Nexus Study available to the public.

- I. At the time and place set for the hearing, the City Council duly considered data and information provided by the public relative to the cost of the improvements and facilities for which the fees are proposed and all other comments, whether written or oral, submitted prior to the conclusion of the hearing.
- J. The City Council finds that the 2024 Nexus Study proposes a fair and equitable method for distributing a portion of the unfunded costs of improvements and facilities to the Regional system.
- K. The City Council hereby adopts the 2024 Nexus Study and its findings. The 2024 Nexus Study is attached and incorporated herein as Exhibit "B."
- L. The City Council hereby adopts this Ordinance to amend and supersede the provisions of Ordinance No. 3264.
- **16.21.030 Definitions.** For the purpose of this chapter, the following words, terms and phrases shall have the following meanings:
- "Class 'A' Office" means an office building that is typically A. characterized by high quality design, use of high end building materials, state of the art technology for voice and data, on site support services/maintenance, and often includes full service ancillary uses such as, but not limited to a bank, restaurant/office coffee shop, health club, printing shop, and reserved parking. The minimum requirements of an office building classified as Class 'A" Office shall be as follows: (i) minimum of three stories (exception will be made for March JPA, where height requirements exist); (ii) minimum of 10,000 square feet per floor; (iii) steel frame construction; (iv) central, interior lobby; and (v) access to suites shall be from inside the building unless the building is located in a central business district with major foot traffic, in which case the first floor may be accessed from the street to provide entrances/ exits for commercial uses within the building.
- B. "Class 'B' Office" means an office building that is typically characterized by high quality design, use of high end building materials, state of the art technology for voice and data, on site support services/maintenance, and often includes full service ancillary uses such as, but not limited to a bank, restaurant/office

coffee shop, health club, printing shop, and reserved parking. The minimum requirements of an office building classified as Class 'B' Office shall be as follows: (i) minimum of two stories; (ii) minimum of 15,000 square feet per floor; (iii) steel frame, concrete or masonry shell construction; (iv) central, interior lobby; and (v) access to suites shall be from inside the building unless the building is located in a central business district with major foot traffic, in which case the first floor may be accessed from the street to provide entrances/exits for commercial uses within the building.

- C. "**Development Project**" or "**Project**" means any project undertaken for the purposes of development, including the issuance of a permit for construction.
- D. "**Disabled Veteran**" means any veteran who is retired or is in process of medical retirement from military service who is or was severely injured in a theatre of combat operations and has or received a letter of eligibility for the Veterans Administration Specially Adapted Housing (SAH) Grant Program.
- E. "Government/public buildings, public schools, and public facilities" means any owned and operated facilities by a government entity in accordance with Section 16.21.040(G)(2). A new development that is subject to a long-term lease with a government agency for government/public buildings, public schools, and public facilities shall apply only if all of the following conditions are met:
- (1) The new development being constructed is subject to a long-term lease with a government agency.
- (2) The project shall have a deed restriction placed on the property that limits the use to government/public facility for the term of the lease, including all extension options, for a period of not less than 20 years. Any change in the use of the facility from government shall trigger the payment of the TUMF in effect at the time the change is made.
- (3) No less than ninety percent of the total square footage of the building is leased to the government agency during the term of deed restriction the long term and any extensions thereof.
- (4) The new development is constructed at prevailing wage rates.
- (5) A copy of the lease is provided to the applicable jurisdiction and to WRCOG.

- (6) Based on the facts and circumstances WRCOG determines that the intent of the lease is to provide for a long-term government use, and not to evade payment of TUMF.
- F. "Gross Acreage" means the total property area as shown on a land division of a map of record, or described through a recorded legal description of the property. This area shall be bounded by road rights of way and property lines.
- G. "Guest Dwellings" and "Detached Second Units" according to the State of California legal definition as following: 1) complies with the State of California Department of Housing and Community Development *Accessory Dwelling Unit* Handbook; and 2) are ministerially approved by the city's local codes.
- H. "Habitable Structure" means any structure or part thereof where persons reside, congregate or work and which is legally occupied in whole or part in accordance with applicable building codes, and state and local laws.
- I. "Industrial Project" means any development project that proposes any industrial or manufacturing use allowed in the following zoning classifications, as identified in Title 17 or an applicable specific plan: BL1, BL1-O, BL2, BL3, GB, GB1, I, ICDD, IP, LCI, LI, M1, M2, M2/0, M3, M3/MR, M4, MI, MSI, MU-II, or SCI.
- J. "Long-Term Lease" as used in the TUMF Program, a "long-term lease" shall mean a lease with a term of no less than twenty years.
- K. "Low Income Residential Housing" means "Residential Affordable Units": (A) for rental housing, the units shall be made available, rented and restricted to "lower income households" (as defined in Health and Safety Code Section 50079.5) at an "affordable rent" (as defined in Health and Safety Code Section 50053). Affordable units that are rental housing shall be made available, rented, and restricted to lower income households at an affordable rent for a period of at least fifty-five (55) years after the issuance of a certificate of occupancy for new residential development. and (B) for for-sale housing, the units shall be sold to "persons or families of low or moderate income" (as defined in Health and Safety Code Section 50093) at a purchase price that will not cause the purchaser's monthly housing cost to exceed "affordable housing cost (as defined in Health and Safety Code

Section 50052.5) Affordable units that are for-sale housing units shall be restricted to ownership by persons and families of low or moderate income for at least forty-five (45) years after the issuance of a certificate of occupancy for the new residential development.

- L. "Mixed-Use Development" as used in the TUMF Program, means Developments with the following criteria: (1) three or more significant revenue-producing uses, and (2) significant physical and functional integration of project components.
- M. "Multi-Family Residential Unit" means a structure with two or more legal independent residential dwelling units intended for human habitation.
- N. "Non-profit Organization" means an organization operated exclusively for exempt purposes set forth in section 501(c)(3) of the Internal Revenue Code, and none of its earnings may inure to any private shareholder or individual. In addition, it may not be an action organization, i.e., it may not attempt to influence legislation as a substantial port of its activities and it may not participate in any campaign activity for or against political candidates. For the purposes of the TUMF Program, the non-profit may be a 501(c) (3) charitable organization as defined by the Internal Revenue Service.
- O. "Non-Residential Unit" means retail commercial, service commercial and industrial development which is designed primarily for non-dwelling use, but shall include hotels and motels.
- P. "Recognized Financing District" means a Financing District as defined in the TUMF Administrative Plan as may be amended from time to time.
- Q. "Residential Dwelling Unit" means a building or portion thereof used by one (1) family and containing but one (1) kitchen, which is designed primarily for residential occupancy including single-family and multi-family dwellings. "Residential Dwelling Unit" shall not include hotels or motels.
- R. "**Retail Commercial Project**" means any development project that proposes any retail commercial activity use not defined as a service commercial project allowed in the following zoning classifications, as identified in Title 17 or an applicable specific plan: ACDD, BLK1, BLK2, BLK3, BLK4, BLK5, BLK6, BP, C, C2, C3, CG, CO/BP, CP, CR, CS, D, EC, GC, LCI, MU, MU-1, NC, NCD, OP, QP, SC, SCF, SCI, SRSC, TC, or TR, which can include

any eating/dining facility residing on the retail commercial development premises.

- S. "Service Commercial Project" means any development project that is predominately dedicated to business activities associated with professional or administrative services, and typically consists of corporate offices, financial institutions, legal, and medical offices, eating/dining facilities, and other uses related to personal or professional services.
- T. "Single Family Residential Unit" means each residential dwelling unit development which is situated on one lot which shares no common wall, foundation, or other interconnection with another dwelling unit.
- U. "TUMF Administrative Plan" means that the TUMF Administration Plan adopted by the WRCOG Execution Committee May 5, 2003, as amended, setting forth detailed administration procedures and requirements for the TUMF program.
- V. "TUMF Participating Jurisdiction" means a jurisdiction in Western Riverside County which has adopted and implemented an ordinance authorizing participation in the TUMF Program and complies with all regulations established in the TUMF Administrative Plan, as adopted and amended from time to time by the WRCOG.

16.21.040 Establishment of the Transportation Uniform Mitigation Fee.

- A. <u>Adoption of TUMF Schedule.</u> The City Council shall adopt an applicable TUMF schedule through a separate resolution, which may be amended from time to time.
- B. <u>Fee Calculation.</u> The fees shall be calculated according to the calculation methodology fee set forth in the WRCOG TUMF Fee Calculation Handbook adopted July 14, 2003, as amended from time to time. In addition to data in the Fee Calculation Handbook, WRCOG Staff and the local agency may consider the following items when establishing the appropriate fee calculation methodology:
- Underlying zoning of the site
- Land-use classifications in the latest Nexus Study
- Project specific traffic studies

- Latest Standardized reference manuals such as the Institute of Traffic Engineers Trip Generation Manual
- Previous TUMF calculations for similar uses
- WRCOG staff shall approve final draft credit / reimbursement agreement prior to execution

WRCOG shall have final determination regarding the appropriate methodology to calculate the fee based on the information provided. In case of a conflict between the applicant, WRCOG, and/or the local agency regarding the fee calculation methodology, the dispute resolution process in the TUMF Administrative Plan will apply.

- C. <u>Fee Adjustment.</u> The fee schedule may be periodically reviewed and the amounts adjusted by the WRCOG Executive Committee. By amendment to the resolution, the fees may be increased or decreased to reflect the changes in actual and estimated costs of the Regional System including, but not limited to, debt service, lease payments and construction costs. The adjustment of the fees may also reflect changes in the facilities required to be constructed, in estimated revenues received pursuant to this chapter, as well as the availability or lack thereof of other funds with which to construct the Regional System. WRCOG shall review the TUMF Program no less than every four (4) years after the effective date of this chapter.-
- D. <u>Purpose.</u> The purpose of the TUMF is to fund those certain improvements to the Regional System as depicted in Exhibit "A" to the ordinance enacting this chapter and identified in the 2024 Nexus Study attached as Exhibit "B" to the ordinance enacting this chapter.
- E. <u>Applicability.</u> The TUMF shall apply to all new development within the City, unless otherwise exempt hereunder.
- F. <u>Exemptions.</u> The following types of new development shall be exempt from the provisions of this chapter and the TUMF Administrative Plan:
- (1) Low income residential housing as described in Section 16.21.030(K) and in the TUMF Administrative Plan.
- (2) Government/public buildings, public schools, and public facilities as described in Section 16.21.030(E) and in the TUMF Administrative Plan. Airports that are public use airports and are appropriately permitted by Caltrans or other state agency.

- (3) Development Projects which are the subject of a Public Facilities Development Agreement entered into pursuant to Government Code section 65864 *et seq*, prior to the effective date of this chapter wherein the imposition of new fees are expressly prohibited, provided that if the term of such a Development Agreement is extended by amendment or by any other manner after the effective date of this chapter, the TUMF shall be imposed.
- (4) The rehabilitation and/or reconstruction of any habitable structure in use on or after January 1, 2000, provided that the same or fewer traffic trips are generated as a result thereof.
- (5) Guest Dwellings and Detached Second Units as described in Section 16.21.030(G) and in the Administrative Plan.
- (6) Kennels and Catteries established in connection with an existing single family residential unit.
- (7) Any sanctuary, or other activity under the same roof of a church or other house of worship that is not revenue generating and is eligible for a property tax exemption (excluding concert venues, coffee/snack shops, book stores, for-profit pre-school day-cares, etc., which would be assessed TUMF).
- (8) Any nonprofit corporation or nonprofit organization offering and conducting full-time day school at the elementary, middle school or high school level for students between the ages of five and eighteen years.
- (9) New single-family homes, constructed by non-profit organizations, specially adapted and designed for maximum freedom of movement and independent living for qualified Disabled Veterans."
- (10) Other uses may be exempt as determined by the WRCOG Executive Committee as further defined in the TUMF Administrative Plan.
- G. <u>Credit.</u> Regional System improvements may be credited toward the TUMF in accordance with the TUMF Administrative Plan and the following:

(1) **Regional Tier**

- (a) Arterial Credits: If a developer constructs arterial improvements identified on the Regional System, the developer shall receive credit for all costs associated with the arterial component based on the approved Nexus Study for the Regional System effective at the time the credit agreement is entered into. WRCOG staff must pre-approve any credit agreements that deviate from the standard WRCOG approved format.
- (b) Other Credits: In special circumstances, when a developer constructs off-site improvements such as an interchange, bridge, or railroad grade separation, credits shall be determined by WRCOG and the City in consultation with the developer. All such credits must have prior written approval from WRCOG.
- (c) The amount of the development fee credit shall not exceed the maximum amount determined by the Nexus Study for the Regional System at the time the credit agreement is entered into or actual costs, whichever is less.

(2) Local Tier

- (a) The local jurisdictions shall compare facilities in local fee programs against the Regional System and eliminate any overlap in its local fee program except where a Recognized Financing District has been established.
- (b) If there is a Recognized Financing District established, the local agency may credit that portion of the facility identified in both programs against the TUMF in accordance with the TUMF Administrative Plan.

16.21.050 Reimbursements.

Should the developer construct Regional System improvements in excess of the TUMF fee obligation, the developer may be reimbursed based on actual costs or the approved Nexus Study effective at the time the agreement was entered into, whichever is less. Reimbursements shall be enacted through an agreement between the developer and the City, contingent on funds being available and approved by WRCOG. In all cases, however, reimbursements under such special agreements must coincide with construction of the transportation improvements as scheduled in the five-year Zone Transportation Improvements Program adopted annually by WRCOG.

16.21.060 Procedures for the Levy, Collection and Disposition of Fees.

- (A) Authority of the Public Works Department. The Director of Public Works, or his/her designee, is hereby authorized to levy and collect the TUMF fees and make all determinations required by this chapter in a manner consistent with the TUMF Administrative Plan.
- (B) **Payment of the TUMF**. Payment of the fees shall be as follows:
- (1) All fees collected hereunder shall be collected by WRCOG for deposit, investment, accounting and expenditure in accordance with the provisions of this chapter, TUMF Administrative Plan, and the Mitigation Fee Act.
- (2) The fees shall be paid at the time a certificate of occupancy is issued for the Development Project or upon final inspection, whichever comes first (the "Payment Date"). However this section should not be construed to prevent payment of the fees prior to issuance of an occupancy permit or final inspection. Fees may be paid at the issuance of a building permit, and the fee payment shall be calculated based on the fee in effect at that time, provided the developer tenders the full amount of his/her TUMF obligation. If the developer makes only a partial payment prior to the Payment Date, the amount of the fee due shall be based on the TUMF fee schedule in place on the Payment Date. The fees shall be calculated according to fee schedule set forth in the resolution adopted pursuant to Section 16.21.040(A) and the calculation methodology set forth in the Fee Calculation Handbook adopted July 14, 2003, as amended from time to time.
- (3) The fees required to be paid shall be the fee amounts in effect at the time of payment is due under this chapter, not the date the chapter is initially adopted. The City shall not enter into a development agreement which freezes future adjustments of the TUMF.
- (4) If all or part of any development project is sold prior to payment of the fee, the property shall continue to be subject to the requirement for payment of the fee. The obligation to pay the fee shall run with the land and be binding on all the successors in interest to the property.

- (5) Fees shall not be waived.
- (C) **Issuance of Certificate of Occupancy.** The City shall not issue a certificate of occupancy for any Development Project until WRCOG has provided written evidence that it has collected the fee.
- (D) **Appeals**. Appeals shall be filed with WRCOG in accordance with the provisions of the TUMF Administrative Plan. Appealable issues shall be the application of the fee, application of credits, application of reimbursement, application of the legal action stay and application of exemption.
- (E) **Reports to WRCOG**. The Director of Public Works, or his/her designee, shall prepare and deliver to the Executive Director of WRCOG, periodic reports as will be established under Section 16.21.070.

16.21.070 Appointment of the TUMF Administrator.

WRCOG is hereby appointed as the Administrator of the Transportation Uniform Mitigation Fee Program. WRCOG is hereby authorized to receive all fees generated from the TUMF within the City, and to invest, account for and expend such fees in accordance with the provisions of this chapter and the Mitigation Fee Act. The detailed administrative procedures concerning the implementation of this chapter shall be contained in the TUMF Administrative Plan. Furthermore, the TUMF Administrator shall use the Fee Calculation Handbook adopted July 14, 2003, as amended from time to time, for the purpose of calculating a developer's TUMF obligation. In addition to detailing the methodology for calculating all TUMF obligations of different categories of new development, the purpose of the Fee Calculation Handbook is to clarify for the TUMF Administrator, where necessary, the definition and calculation methodology for uses not clearly defined in the respective TUMF ordinances.

WRCOG shall expend only that amount of the funds generated from the TUMF for staff support, audit, administrative expenses, and contract services that are necessary and reasonable to carry out its responsibilities and in no case shall the funds expended for salaries and benefits exceed two percent (2%) of the revenue raised by the TUMF Program. The TUMF Administrative Plan further outlines the fiscal responsibilities and limitations of the Administrator."

SECTION 2. Effect. No provisions of this Ordinance shall entitle any person who has already paid the TUMF to receive a refund, credit or reimbursement of such payment. This Ordinance does not create any new TUMF.

SECTION 3. Severability. If any one or more of the terms, provisions or sections of this Ordinance shall to any extent be judged invalid, unenforceable and/or voidable for any reason whatsoever by a court of competent jurisdiction, then each and all of the remaining terms, provisions and sections of this Ordinance shall not be affected thereby and shall be valid and enforceable.

SECTION 4. No Procedural Defenses. TUMF member agencies are prohibited from raising procedural defenses, including without limitation a statute of limitations, laches, the California Government Tort Claims Act, and necessary parties, in a dispute with WRCOG regarding the matters set forth herein.

SECTION 5. Judicial Review. In accordance with State law, any judicial action or proceeding to attack, review, set aside, void or annul this Ordinance shall be commenced within 90 days of the date of adoption of this Ordinance.

SECTION 6. CEQA Findings. The City Council finds that this Ordinance is exempt pursuant to Section 15061(b)(3) of the Guidelines for the California Environmental Quality Act (CEQA), which states that a project is exempt from CEQA if the activity is covered by the general rule that CEQA applies only to projects that have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. This Ordinance simply updates the Transportation Uniform Mitigation Fee program, which merely provides funding for improvements to the regional system of highways and arterials in Western Riverside County and there is no possibility that adopting this Ordinance will have a significant effect on the environment. Therefore, no further environmental analysis is required.

SECTION 7. Effective Date. The Mayor shall sign this Ordinance and the City Clerk shall attest thereto and shall, within fifteen (15) days of its adoption cause it, or a summary of it, to be published in a newspaper of general circulation within the City. This Ordinance shall take effect on April 1, 2025.

PASSED, APPROVED AND ADOPTED this 18th day of December, 2024.

| | Mayor of the City of Corona, California |
|----------------------------------------------|-----------------------------------------|
| ATTEST: | |
| City Clerk of the City of Corona, California | _ |

CERTIFICATION

I, Sylvia Edwards, City Clerk of the City of Corona, California, do hereby certify that the foregoing Ordinance was regularly introduced at a regular meeting of the City Council of the City of Corona, California, duly held the 4th day of December, 2024, and thereafter at an adjourned meeting thereof held on the 18th day of December, 2024, it was duly passed and adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of Corona, California, this 18th day of December, 2024.

City Clerk of the City of Corona, California

[SEAL]

EXHIBIT "A" MAP OF REGIONAL SYSTEM

[SEE ATTACHED PAGE]

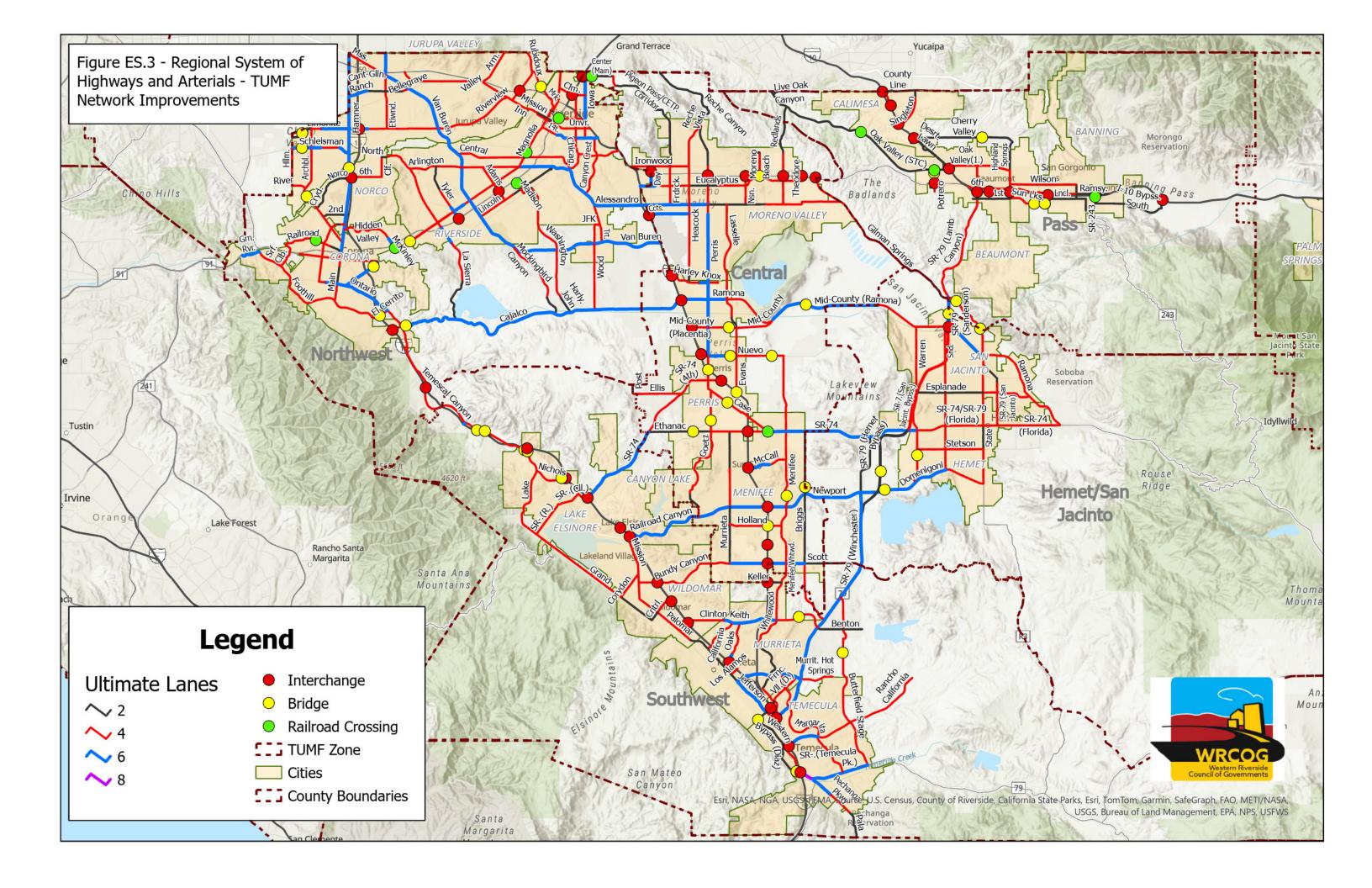


EXHIBIT "B" NEXUS STUDY

[SEE ATTACHED 392 PAGES]



TRANSPORTATION UNIFORM MITIGATION FEE NEXUS STUDY 2024 UPDATE

FINAL REPORT

Prepared for the Western Riverside Council of Governments

In Cooperation with

The City of Banning

The City of Beaumont

The City of Calimesa

The City of Canyon Lake

The City of Corona

The City of Eastvale

The City of Hemet

The City of Jurupa Valley

The City of Lake Elsinore

The City of Menifee

The City of Moreno Valley

The City of Murrieta

The City of Norco

The City of Perris

The City of Riverside

The City of San Jacinto

The City of Temecula

The City of Wildomar

The County of Riverside

Eastern Municipal Water District

March Joint Powers Authority

Riverside County Superintendent of Schools

Riverside Transit Agency

Western Water

Prepared by GHD

As adopted by the WRCOG Executive Committee, September 9, 2024





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ES.O EXECUTIVE SUMMARY

ES.1 Introduction and Purpose of the Nexus Study

Western Riverside County includes 18 incorporated cities and the unincorporated county covering an area of approximately 2,100 square miles. Through the mid 2000's, this portion of Riverside County was growing at a pace exceeding the capacity of existing financial resources to meet increasing demand for transportation infrastructure. Although the economic recession of the late 2000's, and the associated crises in the mortgage and housing industries, slowed this rate of growth, the regional economy has recovered and the projected rate of development in Western Riverside County remains high. Similarly, the impact of the COVID-19 pandemic on travel demand in the region has also passed, with travel demands, especially for the highway network, surpassing pre-pandemic levels. Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements.

In February 1999, the cities of Temecula, Murrieta and Lake Elsinore, the Western Riverside Council of Governments (WRCOG), the Riverside County Transportation Commission (RCTC) and the Building Industry Association (BIA) met to discuss the concept of a Transportation Uniform Mitigation Fee (TUMF) for southwest Riverside County. In August 2000, the concept was expanded to include the entire WRCOG subregion.

Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements. While the TUMF cannot fund all necessary transportation system improvements, it is intended to address a current transportation funding shortfall by establishing a new revenue source that ensures future new development will contribute toward addressing its indirect cumulative traffic impacts on regional transportation infrastructure. Funding accumulated through the TUMF Program will be used to construct transportation improvements such as new arterial highway lanes, reconfigured freeway interchanges, railroad grade separations and new regional express bus services that will be needed to accommodate future travel demand in Western Riverside County. By levying a fee on new developments in the region, local agencies will be establishing a mechanism by which developers and in turn new county residents and employees will effectively contribute their "fair share" toward sustaining the regional transportation system.

This TUMF Draft Nexus Study is intended to satisfy the requirements of California Government Code Chapter 5 Section 66000-66008 Fees for Development Projects (also known as California Assembly Bill 1600 (AB 1600) or the Mitigation Fee Act) which governs imposing development impact fees in California. The initial WRCOG TUMF Nexus Study was completed in October 2002 and adopted by the WRCOG Executive Committee in November 2002. The results of the first review of the Program were documented in the TUMF Nexus Study 2005 Update adopted by the WRCOG Executive Committee on February 6, 2006. A second comprehensive review of the TUMF Program was adopted by the WRCOG Executive Committee on October 5, 2009. A third comprehensive review of the TUMF Program was conducted following the adoption of the Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS) on April 7, 2016. The WRCOG TUMF Nexus Study 2016 Update Report was adopted by the WRCOG Executive Committee on July 10, 2017.

On September 3, 2020, SCAG adopted Connect SoCal; The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments (2020 RTP/SCS). The adoption of the 2020 RTP/SCS confirmed new growth forecasts for the region that provide a foundational element for updating the TUMF program and the associated nexus determination prompting WRCOG to initiate the current program update. These forecasts are also integrated into the Riverside County Transportation Analysis Model (RivCoM) used to forecast the cumulative regional traffic impacts of new development on the arterial highway network in Western Riverside County.

The overall process for establishing the TUMF nexus is illustrated in Figure ES.1. Each technical step is denoted with a number on the flow chart with the numbers correlating to the detailed description of each step provided in Section 1.3 of the Nexus Study Report. The flow chart also incorporates color coding of the steps to indicate those steps that involved the application of RivCoM, steps that utilized other input data, steps that are computations of various inputs, and steps that required specific actions of the various WRCOG committees to confirm major variables. Where appropriate, the flow chart also includes specific cross references to the sections or tables included in the Nexus Study document that correlate to the particular step.

This version of the WRCOG TUMF Nexus Study Report documents the results of the fourth comprehensive review of the TUMF Program. This version of the document also incorporates revisions in response to comments received during the formal review of the earlier Draft TUMF Nexus Study 2024 Update. The findings of this report were ultimately adopted by the WRCOG Executive Committee on September 9, 2024.

Figure ES.1 - Flowchart of Key Steps in the TUMF Nexus Study Process TUMF Transit Component TUMF Road Project List TUMF Road Project Cost Estimates SCAG Data on SCAG Forecast TUMF Design Updated TUMF 2018 Housing & RTA Transit Project List for 2045 Housing Unit Costs for ROW Standards by RivCoM 2021 Employment & Employment & Construction RTA Transit Ridership TUMF Transit Jpdated Transit Project List (Table 4.3) Run Model Run 2023 Actual Average Weekday Daily Ridership CAG 2020 RTP/SCS Model TUMF LOS 2045 Forecast Average Weekday Daily Ridership Cost per Mile by Cost Estimate for Transit Improvements Existing Capacity Deficiencies Future Capacity TUMF Selection TUMF Project Type (Table 4.1) Capacity Deficiencies Attributable to New Development % Attributed to New Project List Development 13 Estimated Costs Transit Costs of TUMF Projects Attributable to New Development Road Project Costs Attributable to New Development Project Costs to from Other (non-TUMF) Sources be Covered by New Development RivCoM 5 Trip Purposes Non-Residential Fee Calculation WBO, OBO (% of VMT HBW, HBS, HBO ITE Trip-Gen Rates by (Table 6.2 & Appendix L) (% of VMT Residential Fee Calculation Individual Land Use Code (11th edition) (Table 6.1 & Appendix K) Riverside & SB (1990) SCAG Study (2001) Average Trip-Gen Rates by Sector SCAG Forecast ITE Percent Pass-By Trips Growth in SFD, MFD (Table 2.3) OCTA Study (2001) Trip-Gen Rates Riverside County General Plan (2015) (11th Edition) (Table L-4) (Table L-4) Growth in Trips for SFD & MFD SCAG Forecast Adjusted Average Assumed Ratio of Growth in Employees Trip-Gen Rates by Employees/TSF (Table L-1) by Sector (Tables 2.3 & L-2) Sector (Table L-3) Share of Project Costs Attributable to Retail Service, Share of Project Costs Attributable Growth in TSF for Retail, Service, Industria & Public Sectors to SFD & MFD Industrial, & Public Sectors Growth in Trips for Retail, Service, Industrial, Fee per DU Fee per SF & Public Sectors TUMF Nexus Study and Schedule of Fees KEY

Adjustments per Fee Calculation Handbook (Applicable to some project types)

Adjusted Fee

XX Reference to Description in Text

Other Inputs

RivCoM

Computations

Items for

Adoption

ES.2 Future Growth

In preparation for the 2020 RTP/SCS, SCAG undertook robust stakeholder engagement, including participation by WRCOG, Riverside County and the various cities in Western Riverside County, to develop regional demographic forecasts. Using input from regional stakeholders regarding anticipated patterns and rates of development, SCAG compiled and disseminated the forecasts that were ultimately adopted in 2020. The SCAG forecasts adopted for the 2020 RTP/SCS were subsequently used as the basis for RivCoM and are used as the basis for this TUMF Nexus Study Update.

A major distinction between data used for the TUMF Nexus Study 2016 Update and the SCAG 2020 RTP/SCS data used for this 2024 Update is the change in the base year from 2012 to 2018, as well as the change in the horizon year from 2040 to 2045. This shift in the base year and horizon year demographic assumptions of the program carries through all aspects of the nexus analysis, including the travel demand forecasting, network review and fee calculation.

The population of Western Riverside County is projected to increase by 33% in the period between 2018 and 2045. During the same period, employment in Western Riverside County is anticipated to grow by 48%. **Figure ES.2** illustrates the forecast growth in population, household and employment for Western Riverside County.

ES.3 Need for the TUMF

The WRCOG TUMF study area was extracted from the greater RivCoM model network for the purpose of calculating measures for Western Riverside County only. Peak period performance measures for the TUMF study area included total vehicle miles of travel (VMT), total vehicle hours of travel (VHT), total combined vehicle hours of delay (VHD), and total VMT experiencing unacceptable level of service (LOS E).

As a result of the new development and associated growth in population and employment in Western Riverside County, additional pressure will be placed on the transportation infrastructure, particularly the arterial roadways, with the peak period VMT on the TUMF Network estimated to increase by 38% between 2018 and 2045. By 2045, 37% of the total VMT on the TUMF Network is forecast to be traveling on facilities experiencing peak period LOS E or worse. Without improvements to the arterial highway system, the total vehicle hours of delay (VHD) experienced by area motorists on the TUMF Network will increase over 5.0% per year. The need to improve these roadways and relieve future congestion is therefore directly linked to the future development which generates the travel demand.

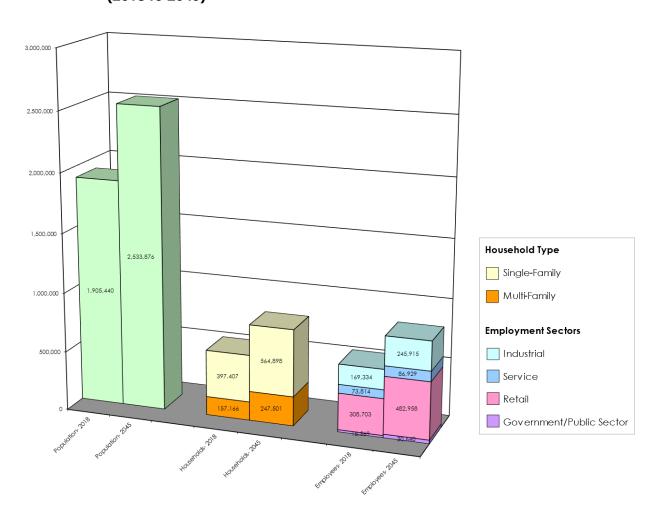


Figure ES.2 - Population, Households and Employment in Western Riverside County (2018 to 2045)

As population and employment in Western Riverside County grows because of new development, demand for regional transit services in the region is also expected to grow. Weekday system ridership for RTA bus transit services is approximately 16,575 riders per day in Western Riverside County in 2023. By 2045, bus transit services are forecast to serve approximately 57,282 riders per weekday. This represents an average increase of 1,850 weekday riders each year. Based on this rate of ridership growth, weekday ridership is estimated to increase by 40,707 riders per weekday between 2018 and 2045.

The idea behind a uniform mitigation fee is to have new development throughout the region contribute equally to paying the cost of improving the transportation facilities that serve these longer-distance trips between communities. Thus, the fee should be used to improve transportation facilities that serve trips between communities within the region (primarily arterial roadways) as well as the infrastructure for public transportation. The fee should be assessed proportionately on new residential and non-residential development based on the relative impact of each use on the transportation system.

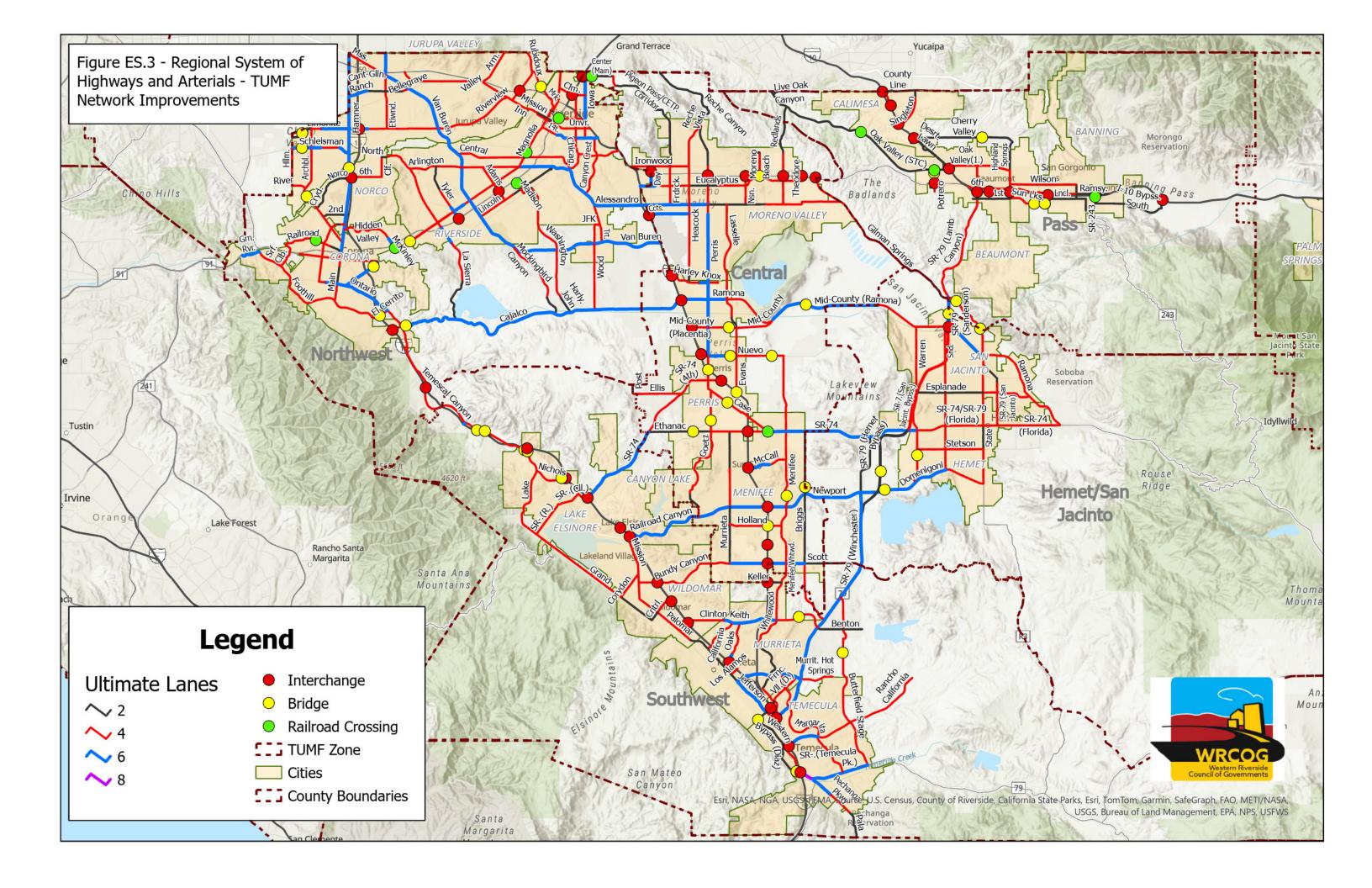
ES.4 The TUMF Network

The Regional System of Highways and Arterials (also referred to as the TUMF Network) is the system of roadways that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. Transportation facilities in Western Riverside County that generally satisfied these guidelines were initially identified, and a skeletal regional transportation framework evolved from facilities where several guidelines were observed. Representatives of all WRCOG constituent jurisdictions reviewed this framework in the context of current local transportation plans to define the TUMF Network, which was subsequently endorsed by the WRCOG Public Works Committee, WRCOG Technical Advisory Committee, TUMF Policy Committee and the WRCOG Executive Committee.

The TUMF Network was reviewed as part of the 2024 Nexus Update to ensure facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process resulted in the removal of various facilities from the TUMF Network, as well as various changes in the scope and magnitude of specific improvements to the TUMF Network.

Figure ES.3 illustrates the TUMF improvements to the Regional System of Highways and Arterials.

The total cost of improving the TUMF system is \$5.28 billion. Accounting for obligated funds and unfunded existing needs, the estimated maximum eligible value of the TUMF Program is \$4.24 billion. The maximum eligible value of the TUMF Program includes approximately \$3.87 billion in eligible arterial highway and street related improvements and \$154.8 million in eligible transit related improvements. An additional \$53.9 million is also eligible as part of the TUMF Program to mitigate the impact of eligible TUMF related arterial highway and street projects on critical native species and wildlife habitat, while \$161.2 million is provided to cover the costs incurred by WRCOG to administer the TUMF Program.



ES.5 TUMF Nexus Analysis

There is a reasonable relationship between the future growth and the need for improvements to the TUMF system. These factors include:

- Western Riverside County is expected to continue growing as a result of future new development.
- Continuing new growth will result in increasing congestion on arterial roadways.
- The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County.
- Capacity improvements to the transportation system will be needed to mitigate the cumulative regional impacts of new development.
- Roads on the TUMF network are the facilities that merit improvement through this fee program.
- ➤ Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

The split of fee revenues between the backbone and secondary highway networks is related to the proportion of highway vehicle travel that is relatively local (between adjacent communities) and longer distance (between more distant communities but still within Western Riverside County). To estimate a rational fee split between the respective networks, the future travel forecast estimates were aggregated to a matrix of peak period trips between zones. The overall result is that 51.1% of the regional travel is attributable to the backbone network and 48.9% is assigned to the secondary network.

In order to establish the approximate proportionality of the future traffic impacts associated with new residential development and new non-residential development, peak period growth in VMT between 2018 and 2045 was derived from RivCoM and aggregated by trip purpose. It was concluded that home-based person trips represent 77.7% of the total future person trips, and the non-home-based person trips represent 22.3% of the total future person trips.

ES.6 Fair-Share Fee Calculation

The balance of the unfunded TUMF system improvement needs is \$4.24 billion which is the maximum value attributable to the mitigation of the cumulative regional transportation impacts of future new development in the WRCOG region and will be captured through the TUMF Program. By levying the uniform fee directly on future new developments (and indirectly on new residents and new employees to Western Riverside County), these transportation system users are assigned their "fair share" of the

costs to address the cumulative impacts of additional traffic they will generate on the regional transportation system.

Of the \$4.24 billion in unfunded future improvement needs, 77.7% (\$3.30 billion) will be assigned to future new residential development and 22.3% (\$946.5 million) will be assigned to future new non-residential development.

ES.7 Conclusions

Based on the results of the Nexus Study evaluation, it can be demonstrated that there is reasonable relationship between the cumulative regional transportation impacts of new land development projects in Western Riverside County and the need to mitigate these transportation impacts using funds levied through the proposed TUMF Program. Factors that reflect this reasonable relationship include:

- > Western Riverside County is expected to continue growing as a result of future new development.
- Continuing new growth will result in increasing congestion on arterial roadways;
- The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County;
- > Capacity improvements to the transportation system will be needed to mitigate the cumulative impacts of new development;
- Roads on the TUMF network are the facilities that merit improvement through this fee program;
- > Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automotive travel.

The Nexus Study evaluation has established a proportional "fair share" of the improvement cost attributable to new development based on the impacts of existing development and the availability of obligated funding through traditional sources. The fair share fee allocable to future new residential and non-residential development in Western Riverside County is summarized for differing use types in **Table ES.1**.

| Table ES.1 - Transportation Uniform Mitigation Fee for Western Riverside County | | | | | | |
|---------------------------------------------------------------------------------|-----------|-----------------------|--------------|-------------------------------|--|--|
| Land Use Type | Units | Development Change | Fee Per Unit | Total Revenue (\$ million) | | |
| Single-Family Residential | DU | 167,491 | \$15,476 | \$2,592.0 | | |
| Multi-Family Residential | DU | 90,335 | \$7,816 | \$706.1 | | |
| Industrial | SF GFA | 61,489,565 | \$2.33 | \$143.1 | | |
| Retail | SF GFA | 6,557,500 | \$11.21 | \$73.5 | | |
| Service | SF GFA | 66,735,957 | \$9.76 | \$651.1 | | |
| Government/Public | SF GFA | 3,420,665 | \$23.07 | \$78.9 | | |
| MAXIMUM TUMF VALUE | \$2,961.0 | | | | | |

1.0 INTRODUCTION AND PURPOSE OF THE NEXUS STUDY

1.1 Background

Western Riverside County includes 18 incorporated cities and the unincorporated county covering an area of approximately 2,100 square miles. Through the mid 2000's, this portion of Riverside County was growing at a pace exceeding the capacity of existing financial resources to meet increasing demand for transportation infrastructure. Although the economic recession of the late 2000's, and the associated crises in the mortgage and housing industries, slowed this rate of growth, the regional economy has recovered and the projected rate of development in Western Riverside County remains high. Similarly, the impact of the COVID-19 pandemic on travel demand in the region has also passed, with travel demands, especially for the highway network, surpassing pre-pandemic levels.

Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements. Development exactions only provide improvements near the development site, and the broad-based county-level funding sources (i.e., Riverside County's half-cent sales tax known as Measure A) designate only a small portion of their revenues for arterial roadway improvements.

In anticipation of the continued future growth projected in Riverside County, several county-wide planning processes were initiated in 1999. These planning processes include the Riverside County General Plan Update, the Community Environmental Transportation Acceptability Process (CETAP) and the Multi-Species Habitat Conservation Plan (MSHCP). Related to these planning processes is the need to fund the mitigation of the cumulative regional transportation impacts of future new development.

Regional arterial highways in Western Riverside County are forecast to carry significant traffic volumes by 2045. While some localized fee programs exist to mitigate the local impacts of new development on the transportation system in specific areas, and while these programs are effective locally, they are insufficient in their ability to meet the regional demand for transportation infrastructure. Former Riverside County Supervisor Buster recognized the need to establish a comprehensive funding source to mitigate the cumulative regional transportation impacts of new development on regional arterial highways. The need to establish a comprehensive funding source for arterial highway improvements has evolved into the development of the Transportation Uniform Mitigation Fee (TUMF) for Western Riverside County.

In February 1999, the cities of Temecula, Murrieta and Lake Elsinore, the Western Riverside Council of Governments (WRCOG), the Riverside County Transportation Commission (RCTC) and the Building Industry Association (BIA) met to discuss the

1

concept of a TUMF. The intent of this effort was to have the southwest area of Western Riverside County act as a demonstration for the development of policies and a process for a regional TUMF Program before applying the concept countywide. From February 1999 to September 2000, the Southwest Area Transportation Infrastructure System Funding Year 2020 (SATISFY 2020) Program progressed with policy development, the identification of transportation improvements, traffic modeling, cost estimates, fee scenarios and a draft Implementation Agreement.

In May 2000, Riverside County Supervisor Tavaglione initiated discussions in the northwest area of Western Riverside County to determine the level of interest in developing a TUMF for that area of the county. Interest in the development of a northwest area fee program was high. In August 2000, the WRCOG Executive Committee took action to build upon the work completed in the southwest area for the SATISFY 2020 program and to develop a single consolidated mitigation fee program for all of Western Riverside County. This action was predicated on the desire to establish a single uniform mitigation fee program to mitigate the cumulative regional impacts of new development on the regional arterial highway system, rather than multiple discrete and disparate fee programs with varying policies, fees and improvement projects. A TUMF Policy Committee comprising regional elected officials was formed to recommend and set policies for staff to develop the TUMF Program and provide overall guidance to all other staff committees.

While the TUMF cannot fund all necessary transportation system improvements, it is intended to address a current transportation funding shortfall by establishing a new revenue source that ensures future new development will contribute toward addressing its indirect cumulative traffic impacts on regional transportation infrastructure. Funding accumulated through the TUMF Program will be used to construct transportation improvements such as new arterial highway lanes, reconfigured freeway interchanges, railroad grade separations and new regional express bus services that will be needed to accommodate future travel demand in Western Riverside County. By levying a fee on new developments in the region, local agencies will be establishing a mechanism by which developers and in turn new county residents and employees will effectively contribute their "fair share" toward sustaining the regional transportation system.

This TUMF Nexus Study is intended to satisfy the requirements of California Government Code Chapter 5 Section 66000-66008 Fees for Development Projects (also known as California Assembly Bill 1600 (AB 1600) or the Mitigation Fee Act), which governs imposing development impact fees in California. The Mitigation Fee Act requires that all local agencies in California, including cities, counties, and special districts follow two basic rules when instituting impact fees. These rules are as follows:

- 1) Establish a nexus or reasonable relationship between the development impact fee's use and the type of project for which the fee is required.
- 2) The fee must not exceed the project's proportional "fair share" of the proposed improvement and cannot be used to correct current problems or to make improvements for existing development.

1.2 TUMF Nexus Study History

The TUMF Program is implemented through the auspices of WRCOG. As the council of governments for Western Riverside County, WRCOG provides a forum for representatives from 18 cities, the Riverside County Board of Supervisors, the Eastern Municipal Water District, Western Water, the Riverside County Superintendent of Schools, the March Joint Powers Authority and the Riverside Transit Agency to collaborate on issues that affect the entire subregion, such as air quality, solid waste, transportation and the environment. WRCOG strives to "respect local control, provide regional perspective, and make a difference" to elevate the quality of life throughout the subregion. A current list of the standing WRCOG committees and committee membership that oversee the TUMF program is included in **Appendix A**.

The initial WRCOG TUMF Nexus Study was completed in October 2002 and adopted by the WRCOG Executive Committee in November 2002. Its purpose was to establish the nexus or reasonable relationship between new land development projects in Western Riverside County and the proposed development impact fee that would be used to improve regional transportation facilities. It also identified the proportional "fair share" of the improvement cost attributable to new development.

Consistent with the provisions of the Mitigation Fee Act, the WRCOG Executive Committee has established that the TUMF Nexus Study will be subject of a comprehensive review of the underlying program assumptions at least every five years to confirm the Nexus. Acknowledging the unprecedented and unique nature of the TUMF Program, the Executive Committee determined that the first comprehensive review of the Program should be initiated within two years of initial adoption of the Program primarily to validate the findings and recommendations of the study and to correct any program oversights. The results of the first review of the Program were documented in the TUMF Nexus Study 2005 Update adopted by the WRCOG Executive Committee on February 6, 2006. A second comprehensive review of the TUMF Program was conducted in 2008 and 2009 in part to address the impacts of the economic recession on the rate of development within the region and on transportation project costs. The findings of the 2009 review of the program were adopted by the WRCOG Executive Committee on October 5, 2009.

A third comprehensive review of the TUMF Program was conducted in 2014 and 2015 leading to a Draft Nexus Study document being distributed for review in August 2015. The WRCOG Executive Committee subsequently considered comments related to the Draft Nexus Study 2015 Update at the meeting held on September 14, 2015, where it was resolved to "delay finalizing the Nexus Study for the TUMF Program Update until the 2016 Southern California Association of Governments' 2016 Regional Transportation Plan / Sustainable Communities Strategy growth forecast is available for inclusion in the Nexus Study". The Southern California Association of Governments (SCAG) adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS) on April 7, 2016, enabling WRCOG staff to proceed with finalizing the update of the TUMF Nexus Study. The WRCOG TUMF Nexus Study 2016 Update Report was ultimately adopted by the WRCOG Executive Committee on July 10, 2017.

On September 3, 2020, SCAG adopted <u>Connect SoCal</u>; The <u>2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments</u> (2020 RTP/SCS). As stated in the plan document "Connect SoCal embodies a collective vision for the region's future, through the horizon year of 2045. It is developed with input from a wide range of constituents and stakeholders within the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura, including public agencies, community organizations, elected officials, tribal governments, the business community and the public. Connect SoCal is an important planning document for the region, allowing public agencies who implement transportation projects to do so in a coordinated manner, while qualifying for federal and state funding."

The adoption of the 2020 RTP/SCS confirmed new growth forecasts for the region that were used as the basis to develop the Connect SoCal plan. These forecasts also provide a foundational element for updating the TUMF program and the associated nexus determination prompting WRCOG to initiate the current program update. The 2020 RTP/SCS growth forecasts are used directly in the fee calculation as the basis for determining the anticipated growth in households and employment in the region through the program horizon year of 2045. These forecasts are also integrated into the Riverside County Transportation Analysis Model (RivCoM) used to forecast the cumulative regional traffic impacts of new development on the arterial highway network in Western Riverside County.

Completed in 2021 to succeed the Riverside County Traffic Analysis Model (RIVTAM), RivCoM provides a valuable tool for supporting a variety of transportation planning activities in Riverside County, including the update of the TUMF Nexus Study. RivCoM was developed under the leadership of WRCOG in conjunction with regional partners with the intent to provide jurisdictions in Riverside County with a traffic forecasting tool that, while consistent with the SCAG regional travel demand model, provides a more appropriate level of detail to support transportation planning at the County or City level.

RivCoM is a critical tool for quantifying the cumulative regional traffic impacts of new development as part of the TUMF Nexus Study Update. Utilizing the 2020 RTP/SCS growth forecasts, RivCoM is used to quantify changes in travel demand and traffic conditions on the regional highway network, with a specific focus on the TUMF Network. RivCoM outputs are used to analyze project eligibility and quantify the fair share of traffic growth that is attributable to new development as inputs to determining the fee. The adoption of the Connect SoCal plan and the availability of RivCoM to serve as a critical tool for quantifying network impacts for the TUMF Nexus Study Update were key factors driving the schedule for this update of the fee.

To ensure new development continues to contribute a fair share of the cost to mitigate its cumulative regional transportation impacts in the period between the comprehensive review of program assumptions completed at least every five years, the WRCOG Executive Committee has also established that the TUMF Schedule of Fees will be reviewed annually, and adjusted, as needed, on July 1st to reflect current costs. The revised schedule of fees will typically be recalculated in February of each year based

on the percentage increase or decrease in the Engineering News Record (ENR) Construction Cost Index (CCI) for the twelve (12) month period from January of the prior year to January of the current year, and the percentage increase or decrease in the National Association of Realtors (NAR) Median Sales Price of Existing Single Family Homes in the Riverside/San Bernardino Metropolitan Statistical Area for the twelve (12) month period from the 3rd Quarter of the second year prior to the 3rd Quarter of the prior year (to coincide with the publication of the most recently updated index). If approved by the Executive Committee, the resultant percentage change for each of the indices will be applied to the unit cost assumptions for roadway and bus transit costs, and land acquisition costs, respectively, to reflect the combined effects of changes in eligible project costs on the resultant per unit fee for each defined land use category. The most recent annual cost adjustment to the TUMF Schedule of Fees was adopted by the WRCOG Executive Committee on July 12, 2021.

1.3 TUMF Nexus Study Process

In coordination with WRCOG, city and county representatives and other interested parties have reviewed the underlying assumptions of the Nexus Study as part of this comprehensive program review. In particular, the most recent socioeconomic forecasts developed by SCAG as the basis for the 2020 RTP/SCS were incorporated. This use of the most recent SCAG forecasts resulted in a shift of the program base year from 2012 to 2018, as well as a shift in the program horizon year from 2040 to 2045. Furthermore, the TUMF Network was re-examined in detail based on travel demand forecasts derived from the most recent version of the Riverside County Model (RivCoM) to more accurately reflect future project needs to address the cumulative regional impacts of new development in Western Riverside County as well as eliminating those projects having been completed prior to the commencement of the Nexus review in 2021.

The subsequent chapters of this Nexus Study document describe the various assumptions, data inputs and analysis leading to the determination of each major variable in the TUMF calculation, and ultimately leading to the determination of the TUMF Schedule of Fees that indicates the maximum "fair share" fee for each of the various use types defined in the TUMF program. The overall process for establishing the TUMF nexus is summarized in this section, including the flow chart in **Figure 1.1** that illustrates the various technical steps in this fee calculation process. Each technical step that was followed to determine the TUMF Schedule of Fees and establish the program nexus is summarized below, with the numbers denoted on the flow chart correlating to the steps described. The flow chart also incorporates color coding of the steps to indicate those steps that involved the application of RivCoM, steps that utilized other input data, steps that are computations of various inputs, and steps that required specific actions of the various WRCOG committees to confirm major variables. Where appropriate, the flow chart also includes specific cross references to the sections or tables included in this Nexus Study document that correlate to the particular step.

Figure 1.1 - Flowchart of Key Steps in the TUMF Nexus Study Process TUMF Road Project List SCAG Data on SCAG Forecast 2018 Housing & for 2045 Housing RivCoM 2021 Employment & Employment Run Model Run

to SFD & MFD

Fee per DU

Industrial, & Public Sectors

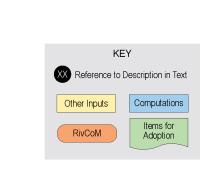
Fee per SF

TUMF Nexus Study and Schedule of Fees

Adjustments per Fee Calculation Handbook (Applicable to some project types)

Adjusted Fee

TUMF Transit Component TUMF Road Project Cost Estimates Updated TUMF Unit Costs for ROW TUMF Design RTA Transit Project List Standards by & Construction RTA Transit Ridership TUMF Transit Jpdated Transit Project List (Table 4.3) 2023 Actual Average Weekday Daily Ridership CAG 2020 RTP/SCS Model TUMF LOS 2045 Forecast Average Weekday Daily Ridership Cost per Mile by Cost Estimate for Transit Improvements Existing Capacity Deficiencies Future Capacity TUMF Selection TUMF Project Type (Table 4.1) Capacity Deficiencies Attributable to New Development % Attributed to New Project List Development 13 Estimated Costs Transit Costs of TUMF Projects Attributable to New Development Road Project Costs Attributable to New Development Project Costs to from Other (non-TUMF) Sources be Covered by New Development RivCoM 5 Trip Purposes Non-Residential Fee Calculation WBO, OBO (% of VMT HBW, HBS, HBO ITE Trip-Gen Rates by (Table 6.2 & Appendix L) (% of VMT Residential Fee Calculation Individual Land Use Code (11th edition) (Table 6.1 & Appendix K) Riverside & SB (1990) SCAG Study (2001) Average Trip-Gen Rates by Sector SCAG Forecast ITE Percent Pass-By Trips Growth in SFD, MFD (Table 2.3) OCTA Study (2001) Trip-Gen Rates Riverside County General Plan (2015) (11th Edition) (Table L-4) (Table L-4) Growth in Trips for SFD & MFD SCAG Forecast Adjusted Average Assumed Ratio of Growth in Employees Trip-Gen Rates by Employees/TSF (Table L-1) by Sector (Tables 2.3 & L-2) Sector (Table L-3) Share of Project Costs Attributable to Retail Service, Share of Project Costs Attributable



Growth in TSF for Retail, Service, Industria & Public Sectors

Growth in Trips for Retail, Service, Industrial,

& Public Sectors

2.3.1. Establish the TUMF Network Project List

The roadway network in Western Riverside County must be evaluated to determine how new development activity will impact the performance of the network, and how the resultant traffic impacts can be mitigated by completing various roadway improvements. The following steps integrate the latest SCAG socio-economic forecasts into RivCoM as the basis for determining future roadway deficiencies and identifying the list of eligible improvements to address these future deficiencies. The rational and methodology for accomplishing these steps is further explained in **Chapters 2 and 3** of this report, with the resultant TUMF Network described in **Chapter 4**.

- 1) The SCAG 2020 RTP/SCS was developed using housing and employment data for 2018 as its base year. This adopted dataset was integrated into RivCoM providing a critical analytic tool to support the Nexus Study Update.
- 2) The RivCoM model¹ has datasets available that represent the capacity of the different facilities in the road network for several different study years. For this nexus update, the RivCoM 2018 base network that was developed following the adoption of the SCAG 2020 RTP was selected as the one most closely resembling current conditions. This network was subsequently reviewed and updated, including a detailed review by WRCOG staff and participating jurisdictions, to identify projects that were completed on the arterial network in the period between 2016 and December 2021. The arterial network was then recoded to reflect the changes to the TUMF Network to create a 2021 Existing Network as the base network for analysis. A second version of the base network was also developed adding only those facilities that had been identified on the 2016 TUMF network that did not currently exist and therefore were not represented by a link(s) in RivCoM. The Supplemental 2021 Existing Network was utilized as the basis for assessing only those projects that did not currently exist on the TUMF Network.
- 3) RivCoM was run using the 2018 socio-economic data (SED) and the 2021 Existing Networks to produce the baseline volumes on the roads in the TUMF Network.
- 4) The baseline volume-to-capacity (V/C) ratio was then determined. The target LOS for TUMF facilities is "D", meaning that facilities with LOS "E" or "F", i.e. those with a V/C ratio of 0.9 or higher, are deemed to have inadequate capacity. The result of this step is a list of roads that have existing capacity deficiencies.

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¹ The macro-level traffic forecasting was conducted using the Riverside County Transportation Analysis Model (RivCoM). RivCoM is consistent of SCAG's six-county model with additional detail (traffic analysis zones and local roads) added within Riverside County. It was developed for use in traffic studies in Riverside County as a replacement for the Riverside County Transportation and Analysis Model (RivTAM) integrating an updated modeling platform to improve run time and reliability, as well as a more focused model area, more detailed network and zone structure, and prost processors to satisfy more recent legislative requirements. RivCoM has both the geographic scope needed to analyze all TUMF facilities and conformity with regional planning assumptions. There is a memorandum of understanding among the jurisdictions of Riverside County that encourages the use of the RivCoM model for use in regional traffic studies.

- 5) The SCAG 2020 RTP/SCS was developed using housing and employment data for 2045 as its forecast horizon year. This adopted dataset was also used as the future base year for the TUMF update calculation.
- 6) RivCoM was run using the 2021 Existing Networks with the land use assumptions for 2045. These "Future No-Build" scenarios was used to determine where deficiencies would occur in the roadway system if development occurred as expected but no roadway improvements were implemented.
- 7) Comparing the existing capacity deficiencies with the future deficiencies showed where new deficiencies would occur that are entirely attributable to growth in households and employment. Comparing the existing and future traffic volume to capacity ratio on the roads that are currently deficient shows the portion of the future deficiency that is attributable to growth.
- 8) It is generally acknowledged that the TUMF program cannot and should not attempt to fund every roadway improvement needed in Western Riverside County. WRCOG has adopted a set of selection criteria that was used to choose which roadway improvements would be eligible for TUMF funding.
- P) The selection criteria were applied to the forecast deficiencies to identify projects for the TUMF Project List. The project list was subsequently reviewed to confirm the eligibility of proposed projects, including projects previously included in the TUMF program, as well as additional projects requested for inclusion as part of the current update. The project list was then subsequently updated to reflect those projects considered eligible for TUMF funding as part of the 2024 Nexus Study Update.

2.3.2. Determine the TUMF Network Project Costs

The estimated costs of proposed improvements on the TUMF Network are calculated based on the prices of construction materials, labor and land values for the various eligible project types included as part of the TUMF program. The approach and outcomes of the following steps is described in **Chapter 4** of this report.

- 10) The TUMF program has design standards covering the road project components that are eligible for TUMF funding. This ensures that projects in jurisdictions with different design standards are treated equally².
- 11) Current cost values for labor and materials such as cement, asphalt, reinforcing steel, etc., as derived from Caltrans cost database, RCTC and other sources, were tabulated and updated to December 2023. Additionally, the ROW cost components per square foot for various land use types were also updated based on current property valuations in Riverside County as researched by Overland, Pacific and Cutler.

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² A jurisdiction may choose to design to a higher standard, but if it does so, TUMF will only fund up to the equivalent of what costs would have been had the TUMF design standards been followed.

- 12) The cost values for the contributing labor, materials and land components were applied to estimated quantities of these components for the various roadway project types that are eligible under TUMF to generate aggregate unit cost values for each project type (road costs per lane-mile, typical costs per arterial-freeway interchange, bridge costs per linear foot, etc.).
- 13) The unit costs from the previous step were then applied to the project list to estimate the costs of the improvements on the TUMF project list.
- 14) The percentage of each project that was attributable to new development was then applied to the costs of TUMF road projects to find the total road project cost that is attributable to new development.

2.3.3. Determine the TUMF Transit Component

A portion of the TUMF funding is made available for transit services that provide an alternative to car travel for medium-to-long distance intra-regional trips. The eligible transit projects and their associated costs are determined using the following steps, with additional explanation provided in **Chapter 4** of this report.

- 15) Actual average weekday daily ridership for Riverside Transit Agency (RTA) transit bus services was tabulated for 2023.
- 16) Forecast average weekday daily ridership for RTA bus transit services was retrieved from the SCAG 2020 RTP/SCS Model for horizon year 2045.
- 17) The growth in ridership between 2023 and 2045 was compared to determine the portion of 2045 average weekday daily ridership that is attributable to existing passengers and the portion attributable to new growth.
- 18) A proposed transit project list was provided by RTA staff and was reviewed to confirm the validity of the project list to establish a final recommended transit project list to be included as part of the program. The result was the TUMF Transit Project List.
- 19) RTA provided information on current costs for the listed transit infrastructure.
- 20) The cost information was then used to determine the cost of the items on the TUMF Transit Project List.
- 21) The percent attribution from Step 17 was applied to the project cost estimates from the previous step to determine the cost of transit improvements that are attributable to new development.
- 22) The costs for road and transit projects that are attributable to new development are then combined along with information on other (non-TUMF) funds to determine the total cost for TUMF projects that is to be cover by new development through the imposition of the fees. The available alternate funding sources were reviewed as part of the Nexus update, specifically including the completion of a detailed review of available federal, state and local funding sources administered by RCTC.

2.3.4. Computing the Fee for Residential Developments

Having determined the total project costs to be covered by new development under the TUMF program, it is necessary to divide these costs among different types of developments roughly in proportion to their expected traffic impacts. The following steps describes the process for determining the proportion attributable to new residential development. The approach for accomplishing these steps along with the findings of this analysis are described in detail in **Chapter 5** and **Chapter 6** of this report.

- 23) California legislation encourages the use of vehicle miles of travel (VMT) as the primary indicator of traffic impacts because it combines the number of vehicle trips and the average length of those trips to reflect the proportional impact to the roadway network. As a result, the methodology for determining the relative distribution of traffic impacts between residential and non-residential uses for the purposes of TUMF utilizes a VMT based approach. The RivCoM 2021 Existing Network and 2045 No-Build model runs were examined to determine the VMT of various trip types that would take place in Western Riverside County (excluding through trips). The results were compared to determine the growth in VMT for each trip type. Per WRCOG policy (based on National Cooperative Highway Research Program (NCHRP) recommended practice) trips originating in or destined for a home are attributed to residential development while trips where neither the origin nor the destination are a home are attributed to non-residential development.
- 24) The SCAG 2020 RTP/SCS socio-economic forecasts were used to estimate the number of single-family and multi-family dwelling units that will be developed during the 2018 to 2045 period.
- 25) The Institute of Transportation Engineers' (ITE's) trip generation rates, which come from surveys of existing sites for various development types, were then used to estimate the daily number of trips that will be generated by future single- and multi-family developments that will occur in the region from 2018 to 2045.
- 26) The cost to be covered by residential development was divided into the portion attributable to new single-family dwellings and portion attributable to new multifamily development to calculate the cost share for each use.
- 27) The cost share for single-family dwellings and multi-family dwellings was divided by the number of dwellings of each type to determine the fee level required from each new dwelling unit to cover their fair share of the cost to mitigate the impacts of new developments.

2.3.5. Computing the Fee for Non-Residential Developments

A process similar to that used for residential units was used to determine the fee level for non-residential development. However, the determination of fees for non-residential development involves additional steps due to the additional complexity of accounting for a greater variety of development types within each use category. **Chapter 5** and **Chapter 6** of this report provide additional explanation regarding the methodology for accomplishing these steps along with the results of this analysis.

- 28) Like many impact fee programs, TUMF groups similar development projects together into general use categories to simplify the administration of the program. TUMF groups the various land use categories found in ITE's <u>Trip Generation Manual</u> into four non-residential categories (industrial, retail, service, and government/public sector) based on the North American Industry Classification System (NAICS), which is also used by the U.S. Census Bureau and SCAG for demographic classifications and is the basis for such classifications in the SCAG Regional Travel Demand Model as well as and the RivCoM model. The ITE trip generation rates for all uses were reviewed for accuracy updated to reflect the most current ITE published rates. The median value for the tripgeneration rates for all uses within each category was used in the nexus study to represent the trip-generation characteristics for the category.
- 29) The trip-generation rates of retail and service uses were adjusted to take into account the share of pass-by trips these uses generate. Pass by trip rates for various retail and service uses were derived from the ITE Trip Generation Manual to determine the median value of all uses as the basis for the adjustment. The ITE pass by trip rates for all uses were reviewed for accuracy and updated to reflect the most current ITE published rates.
- 30) The SCAG 2020 RTP/SCS socio economic forecasts included non-residential employment for 2018 and 2045. These forecasts were used to estimate the growth in employment in each of the four non-residential uses.
- 31) The SCAG employment forecasts are denominated in jobs while development applications are typically denominated in square feet of floorspace. The ratio of floorspace per employee was determined as a median value derived from four studies, including a comprehensive study San Bernardino and Riverside Counties conducted in 1990, an OCTA study conducted in 2001, a SCAG study (including a specific focus on Riverside County) conducted in 2001, and the <u>Riverside County General Plan</u> adopted in 2015.
- 32) The forecast growth in employees was multiplied by the floorspace per employee to produce a forecast of the floorspace that will be developed for each of the four non-residential use types.
- 33) The trip-generation rate for each of the four uses was multiplied by the forecast of new floorspace to estimate the number of trips generated by each use.
- 34) The amount of project costs to be covered by non-residential development was split between the four non-residential uses to determine the TUMF cost share for each.
- 35) The TUMF cost share for each of the four non-residential uses was divided by the forecast growth in floorspace to determine the fee level required from each new square foot of non-residential development to cover their fair share of the cost to mitigate the impacts of new developments.
- 36) WRCOG has adopted a TUMF Fee Calculation Handbook that allows for fee adjustments to be made to account for unusual circumstances for certain types of residential and non-residential development (fuel filling stations, golf courses, high-cube warehouses, wineries, electric charging stations, etc.) These

adjustments are intended to calculate a fairer proportional fee based on the unique trip generation characteristics of these development types.

The outcome of this process is a schedule of fees for the various use categories identified as part of the TUMF program. The study conclusions including the Schedule of Fees is presented in **Chapter 7** of this report. The schedule of fees represents the **maximum** fee permissible under California law for the purposes of the TUMF program. The WRCOG Executive Committee has the option to adopt lower fees, however, in doing so each use category subject to a lower fee would not be contributing a fair share of the cost of their impacts. This would in turn create a funding gap for the program that would necessitate identifying additional project funding from some other source to ensure the cumulative regional impacts of new development are being mitigated fully in accordance with the program.

2.0 FUTURE GROWTH

2.1 Recent Historical Trend

Western Riverside County experienced robust growth in the period from the late 1990's to the mid 2000's. The results of Census 2000 indicate that in the year 2000, Western Riverside County had a population of 1.187 million representing a 30% increase (or 2.7% average annual increase) from the 1990 population of 912,000. Total employment in Western Riverside County in 2000 was estimated by the SCAG to be 381,000 representing a 46% increase (or 3.9% average annual increase) over the 1990 employment of 261,000.

Despite the impacts of the Great Recession and the associated residential mortgage and foreclosure crisis, and more recently with the shifting of population during and following the COVID-19 pandemic, Western Riverside County has continued to grow due to the availability of relatively affordable residential and commercial property, and a generally well-educated workforce. By 2010, the population of the region had grown to 1.742 million, a further 47% growth in population from 2000. Similarly, total employment in the region had also grown from 2000 to 2010 with 434,000 employees estimated to be working in Western Riverside County. This represents a 12% increase from the 381,000 employees working in the region in 2000.

2.2 Available Demographic Data

A variety of alternate demographic information that quantifies future population, household and employment growth is available for Western Riverside County. For earlier versions of the TUMF Nexus Study, the primary available source of consolidated demographic information for Western Riverside County was provided by SCAG. SCAG is the largest of nearly 700 Councils of Government (COG) in the United States and functions as the Metropolitan Planning Organization (MPO) for six counties in Southern California including Los Angeles, Orange, San Bernardino, Riverside, Ventura and Imperial. SCAG is mandated by the federal government to research and plan for issues of regional significance including transportation and growth management. As part of these responsibilities, SCAG maintains a comprehensive database of regional socioeconomic data and develops demographic projections and travel demand forecasts for Southern California.

In preparation for the 2020 RTP/SCS, SCAG undertook robust stakeholder engagement, including participation by WRCOG, Riverside County and the various cities in Western Riverside County, to develop regional demographic forecasts. Using input from regional stakeholders regarding anticipated patterns and rates of development, SCAG compiled and disseminated the forecasts that were ultimately adopted in 2020, including those specific to Western Riverside County. The SCAG forecasts adopted for the 2020 RTP/SCS were subsequently used as the basis for RivCoM and are used as the basis for this TUMF Nexus Study Update.

2.3 Demographic Assumptions Used for the Nexus Study Analysis

A major distinction between data used for the TUMF Nexus Study 2016 Update and the SCAG 2020 RTP/SCS data used for this 2024 Update is the change in the base year from 2012 to 2018, as well as the change in the horizon year from 2040 to 2045. This shift in the base year and horizon year demographic assumptions of the program carries through all aspects of the nexus analysis, including the travel demand forecasting, network review and fee calculation.

The SCAG 2020 RTP/SCS data were compared to the 2016 RTP/SCS data used in the TUMF Nexus Study 2016 Update. As can be seen in **Table 2.1** and **Figure 2.1**, the 2018 data reflects an increase in population and single-family households, and a very slight decline in multi-family households. Employment grew substantially overall, with significant growth in industrial employment, largely attributable to the rapid expansion of warehousing and logistics facilities in Western Riverside County. In contrast, there was a notable decline in government and public sector employment in the region from 2012 to 2018

Table 2.1 - Base Year Socioeconomic Estimates for Western Riverside County

| Table 2.1 - Base Teal Socioeconomic Esimilates for Western Riverside Coomy | | | | | | |
|----------------------------------------------------------------------------|-----------------------|-----------------------|---------|---------|--|--|
| SED Type | 2016 Update (2012) | 2024 Update (2018) | Change | Percent | | |
| Total Population | 1,773,935 | 1,905,440 | 131,505 | 7% | | |
| Total Households | 525,149 | 554,573 | 29,424 | 6% | | |
| Single-Family | 366,588 | 397,407 | 30,819 | 8% | | |
| Multi-Family | 158,561 | 157,166 | -1,395 | -1% | | |
| Total Employment | 460,787 | 570,420 | 109,633 | 24% | | |
| Industrial | 120,736 | 169,334 | 48,598 | 40% | | |
| Retail | 65,888 | 73,814 | 7,926 | 12% | | |
| Service | 253,372 | 308,703 | 55,331 | 22% | | |
| Government/Public Sector | 20,791 | 18,569 | -2,222 | -11% | | |

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

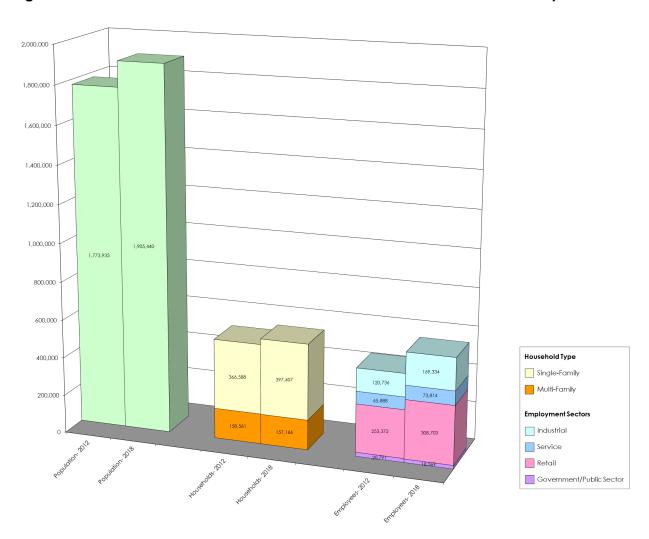


Figure 2.1 – Base Year Socioeconomic Estimates for Western Riverside County

Table 2.2 and **Figure 2.2** compare the socioeconomic forecasts for the program horizon year of 2045 used in the TUMF Nexus Study 2016 Update and 2045 for this study. The most recent forecasts reflect an increase in the horizon year population and households, and a decrease in overall employment in Western Riverside County. The change in employment was not, however, consistent across sectors. The retail employment forecast has decreased approximately 15% from 2040 to 2045, while the industrial employment forecast has increased over 20%. This shift is consistent with the emergence of e-commerce as an alternative to traditional "brick and mortar" retail.

Table 2.2 - Horizon Year Socioeconomic Estimates for Western Riverside County

| SED Type | 2016 Update (2040) | 2024 Update (2045) | Change | Percent |
|-------------------------------|-----------------------|-----------------------|---------|---------|
| Total Population | 2,429,633 | 2,533,876 | 104,243 | 4% |
| Total Households | 775,231 | 812,399 | 37,168 | 5% |
| Single-Family | 539,631 | 564,898 | 25,267 | 5% |
| Multi-Family | 235,600 | 247,501 | 11,901 | 5% |
| Total Employment | 861,455 | 846,442 | -15,013 | -2% |
| TUMF Industrial | 201,328 | 245,915 | 44,587 | 22% |
| TUMF Retail | 101,729 | 86,929 | -14,800 | -15% |
| TUMF Service | 528,092 | 482,958 | -45,134 | -9% |
| TUMF Government/Public Sector | 30,306 | 30,640 | 334 | 1% |

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

Figure 2.2 - Horizon Year Socioeconomic Estimates for Western Riverside County

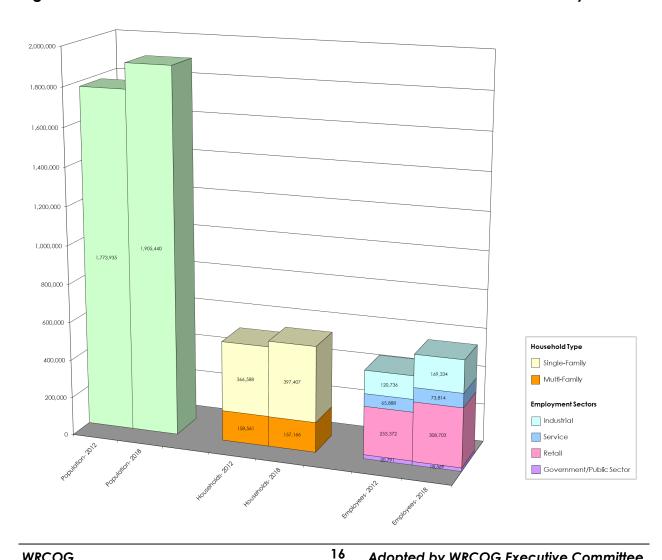


Table 2.3 and Figure 2.3 summarize the socioeconomic data obtained from SCAG and used as the basis for completing this Nexus Study analysis. The SCAG employment data for 2018 and 2045 was provided for thirteen employment sectors consistent with the California Employment Development Department (EDD) Major Groups including: Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing and Utilities; Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service; and Government. For the purposes of the Nexus Study, the EDD Major Groups were aggregated to Industrial (Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Transportation, Warehousing and Utilities), Retail (Retail Trade), Service (Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service) and Government/Public Sector (Government). These four aggregated sector types were used as the basis for calculating the fee as described in **Section 6.2**. Appendix B provides a table detailing the EDD Major Groups and corresponding North American Industry Classification System (NAICS) Categories that are included in each nonresidential sector type.

Table 2.3 - Population, Households and Employment in Western Riverside County (2018 to 2045)

| SED Type | 2018 | 2045 | Change | Percent |
|-------------------------------|-----------|-----------|---------|---------|
| Total Population | 1,905,440 | 2,533,876 | 628,436 | 33% |
| Total Households | 554,573 | 812,399 | 257,826 | 46% |
| Single-Family | 397,407 | 564,898 | 167,491 | 42% |
| Multi-Family | 157,166 | 247,501 | 90,335 | 57% |
| Total Employment | 570,420 | 846,442 | 276,022 | 48% |
| TUMF Industrial | 169,334 | 245,915 | 76,581 | 45% |
| TUMF Retail | 73,814 | 86,929 | 13,115 | 18% |
| TUMF Service | 308,703 | 482,958 | 174,255 | 56% |
| TUMF Government/Public Sector | 18,569 | 30,640 | 12,071 | 65% |

Source: SCAG 2020 RTP/SCS

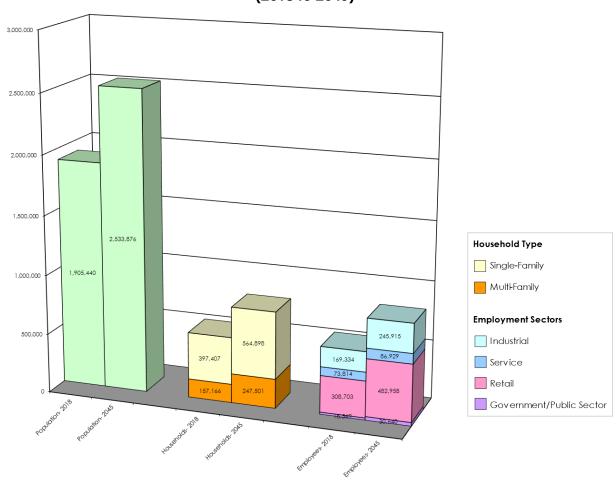


Figure 2.3 - Population, Households and Employment in Western Riverside County (2018 to 2045)

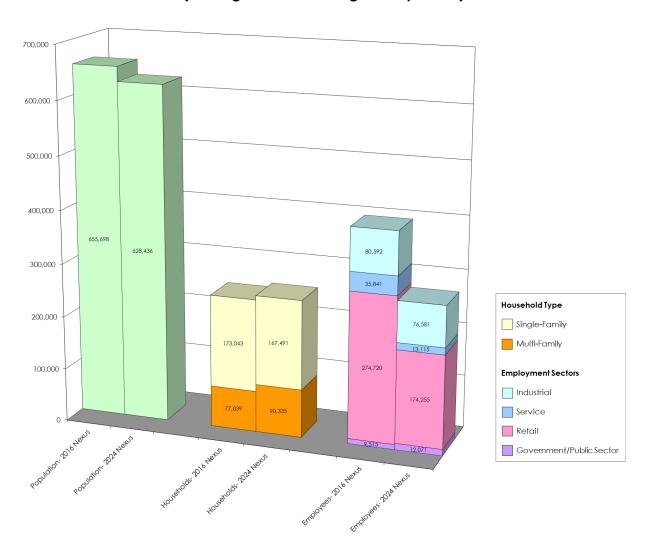
The combined effects of the changes in the base year and horizon year socioeconomic data are modest reductions in the total growth in population and single-family households, but a notable increase in multi-family households. The change in total employment is reduced by 31%, with the most significant reduction in employment growth in the retail sector (-63%), while the industrial sector saw only a slight reduction in total employment growth compared to the 2016 Nexus Update (5%). The Government/public sector employment growth has increased by 27% from the 2016 Nexus Study to the 2024 Nexus Study, although the total number of jobs increased is relatively small as a share of the total employment. Table 2.4 and Figure 2.4 provide a comparison of the changes in population, households and employment between the 2016 Nexus Update and the 2024 Nexus Update. The table and figure clearly illustrate the reduction in the rate of growth in Western Riverside County largely attributable to the effects of the economic recession. This reduced rate of growth in the region will serve as the basis for reevaluating the level of impact of new development on the transportation system in the next section, as well as providing the basis for the determination of the fair share fee for each land use type.

Table 2.4 - Population, Households and Employment in Western Riverside County (Existing to Future Change Comparison)

| SED Type | 2016 Update (2012-2040) | 2024 Update (2018-2045) | Difference | Percent |
|-------------------------------|----------------------------|----------------------------|------------|---------|
| Total Population | 655,698 | 628,436 | -27,262 | -4% |
| Total Households | 250,082 | 257,826 | 7,744 | 3% |
| Single-Family | 173,043 | 167,491 | -5,552 | -3% |
| Multi-Family | 77,039 | 90,335 | 13,296 | 17% |
| Total Employment | 400,668 | 276,022 | -124,646 | -31% |
| TUMF Industrial | 80,592 | 76,581 | -4,011 | -5% |
| TUMF Retail | 35,841 | 13,115 | -22,726 | -63% |
| TUMF Service | 274,720 | 174,255 | -100,465 | -37% |
| TUMF Government/Public Sector | 9,515 | 12,071 | 2,556 | 27% |

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

Figure 2.4 - Population, Households and Employment in Western Riverside County (Existing to Future Change Comparison)



3.0 NEED FOR THE TUMF

All new developments have some effect on the transportation infrastructure in a community, city or county due to an increase in travel demand. Increasing usage of the transportation facilities leads to more traffic, progressively increasing VMT, traffic congestion and decreasing the level of service (LOS)³. To meet the increased travel demand and keep traffic flowing, improvements to transportation facilities become necessary to sustain pre-development traffic conditions.

The projected growth in Western Riverside County (33% growth in population and 48% growth in employment in 27 years) and the related growth in VMT can be expected to increase congestion and degrade mobility if substantial investments are not made in the transportation infrastructure. This challenge is especially critical for arterial highways and roadways that carry a significant number of the trips between cities, since traditional sources of transportation improvement funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the improvements needed to serve new development. Development exactions generally provide only a fraction of the improvements with those being confined to the area immediately adjacent to the respective development, and the broad-based county-level funding sources (i.e., Riverside County's half-cent sales tax known as Measure A) designate only a small portion of their revenues for arterial roadway improvements.

This section documents the existing and future congestion levels that demonstrate the need for future improvements to the transportation system to specifically mitigate the cumulative regional transportation impacts of new development. It then describes the TUMF concept that has been developed to fund future new developments' fair share of needed improvements.

The forecast of future congestion levels is derived from Year 2045 No-Build travel demand forecasts for Western Riverside County developed using RivCoM. The Year 2045 No-Build scenario evaluates the effects of 2045 population, employment and resultant traffic generation on the 2021 existing arterial highway network.

3.1 Future Highway Congestion Levels

To support the evaluation of the cumulative regional impacts of new development on the existing arterial highway system in Western Riverside County, existing (2018) and future (2045) SED were modeled on the existing (2021) arterial highway network using RivCoM. To quantify traffic growth impacts, various traffic measures of effectiveness were calculated for the AM and PM peak periods for each of the two scenarios. The

³ The <u>Highway Capacity Manual 6th Edition – A Guide for Multimodal Mobility Analysis</u> (Transportation Research Board, National Academy of Sciences, Washington, D.C., 2016, Volume 1 – Concepts, pp 5-3) describes LOS as a "quantitative stratification of performance measure or measures representing quality of service....HCM defines six levels of service, ranging from A to F, for each service measure or combination of measures. LOS A represents the best operating conditions from the traveler's perspective and LOS F the worst."

WRCOG TUMF study area was extracted from the greater regional model network for the purpose of calculating measures for Western Riverside County only. Peak period performance measures for the Western Riverside County TUMF study area included total VMT, total vehicle hours of travel (VHT), total combined vehicle hours of delay (VHD), and total VMT experiencing unacceptable level of service (LOS E). These results were tabulated in **Table 3.1**. Plots of the Network Extents are attached in **Appendix C**.

Total Arterial VMT, VHD and LOS E Threshold VMT were calculated to include all principal arterials, minor arterials and major connectors, respectively. Regional values for each threshold were calculated for a total of all facilities including arterials, freeways, freeway ramps and High-Occupancy Vehicle (HOV) lanes.

Table 3.1 - Regional Highway System Measures of Performance (2018 Existing to 2045 No-Build)

| | Peak Periods (Total) | | | |
|-------------------------------------------|----------------------|---------------|----------|----------|
| Measure of Performance* | 2018 Existing | 2045 No-Build | % Change | % Annual |
| VMT - Total ALL FACILITIES | 23,284,724 | 29,897,254 | 28% | 0.9% |
| VMT - FREEWAYS | 13,514,522 | 15,490,284 | 15% | 0.5% |
| VMT - ALL ARTERIALS | 9,770,202 | 14,406,970 | 47% | 1.4% |
| TOTAL - TUMF ARTERIAL VMT | 6,216,985 | 8,597,200 | 38% | 1.2% |
| VHT - TOTAL ALL FACILITIES | 541,350 | 915,439 | 69% | 2.0% |
| VHT - FREEWAYS | 263,792 | 399,128 | 51% | 1.5% |
| VHT - ALL ARTERIALS | 277,558 | 516,311 | 86% | 2.3% |
| TOTAL TUMF ARTERIAL VHT | 174,455 | 320,869 | 84% | 2.3% |
| VHD - TOTAL ALL FACILITIES | 108,900 | 338,056 | 210% | 4.3% |
| VHD - FREEWAYS | 66,156 | 170,649 | 158% | 3.6% |
| VHD - ALL ARTERIALS | 42,745 | 167,407 | 292% | 5.2% |
| TOTAL TUMF ARTERIAL VHD | 33,249 | 124,863 | 276% | 5.0% |
| VMT LOS E - TOTAL ALL FACILITIES | 5,605,070 | 13,369,483 | 139% | 3.3% |
| VMT LOS E - FREEWAYS | 4,725,471 | 9,316,891 | 97% | 2.5% |
| VMT LOS E & F - ALL ARTERIALS | 879,599 | 4,052,592 | 361% | 5.8% |
| TOTAL TUMF ARTERIAL VMT w/ LOS E or worse | 765,782 | 3,184,133 | 316% | 5.4% |
| % of TUMF ARTERIAL VMT w/ LOS E or worse | 12% | 37% | | |

^{*} Based on RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

The following formulas were used to calculate the respective values:

```
VMT = Link Distance * Total Daily Volume
VHT = Average Loaded (Congested) Link Travel Time * Total Daily Volume
VHD = VHT - (Free-flow (Uncongested) Link Travel Time * Total Daily Volume)
VMT LOS E or F = VMT (on links where Daily V/C exceeded 0.90)
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Note: Volume to capacity (v/c) ratio thresholds for LOS E are based on the Transportation Research Board 2010 Edition of the <u>Highway Capacity Manual</u> (HCM 2010) LOS Maximum V/C Criteria for Multilane Highways with 45 mph Free Flow Speed (Exhibit 14-5, Chapter 14, Page 14-5).

The calculated values were compared to assess the total change between 2018 Existing and 2045 No-Build scenarios, and the average annual change between 2018 Existing and 2044 No-Build. As can be seen from the RivCoM outputs summarized in Table 3.1, the additional traffic generated by new development will cause peak period VMT on the arterial highway network to increase by approximately 47% by the year 2045 (approximately 1.4% per year). In the absence of additional improvements to the transportation network in Western Riverside County, the growth in VMT will cause congestion on the highway system to increase almost exponentially, with the most significant increase in congestion observed on the arterial highway system that includes the TUMF Network. Many facilities will experience a significant increase in vehicle delay and deterioration in LOS to unacceptable levels because of new development and the associated growth in traffic. According to the Highway Capacity Manual 6th Edition – A Guide for Multimodal Mobility Analysis (Transportation Research Board, National Academy of Sciences, Washington, D.C., 2016), "LOS E describes operation at or near capacity. Operations...at this level are highly volatile because there are virtually no usable gaps within the traffic stream, leaving little room to maneuver within the traffic stream. Any disruption to the traffic stream, such as vehicles entering...or a vehicle changing lanes, can establish a disruption wave that propagates throughout the upstream traffic stream....the physical and psychological comfort afforded drivers is poor."

The <u>Congestion Management Program for Riverside County</u> (CMP) published by the Riverside County Transportation Commission (RCTC) in 2011 designates LOS E as the "traffic standards must be set no lower than LOS E for any segment or intersection along the CMP System of Highways and Roadways" in Riverside County. "The intent of the CMP is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related impacts, and improve air quality." ⁴ The CMP provides a mechanism for monitoring congestion on the highway system and, where congestion is observed, establishes procedures for developing a deficiency plan to address improvement needs. The reactive nature of the CMP to identify and remediate existing congestion differs from the proactive nature of the TUMF program to anticipate and provide for future traffic needs. For this reason, the TUMF

⁴ Congestion Management Program for Riverside County – Executive Summary (Riverside County Transportation Commission, 2011) Page ES-3, ES-1

program follows the guidance of the <u>Highway Capacity Manual</u> in establishing LOS E as the threshold for unacceptable level of service, and subsequently as the basis for measuring system performance and accounting for existing needs. This approach ensures a more conservative accounting of existing system needs as part of the determination of the "fair share" of mitigating the cumulative regional impacts of future new development on the transportation system.

The continuing need for a mitigation fee on new development is shown by the adverse impact that new development will have on Western Riverside County's transportation infrastructure, and particularly the arterial highway network. As a result of the new development and associated growth in population and employment in Western Riverside County, additional pressure will be placed on the transportation infrastructure with the total peak period VMT on the Western Riverside County Regional System of Highways and Arterials (RSHA; also referred to as the TUMF Network) estimated to increase by approximately 38% or 1.2% compounded annually.

As shown in **Table 3.1**, the peak period VMT on arterial facilities within the TUMF Network experiencing LOS E or worse will increase by approximately 316% or 5.4% compounded annually in Western Riverside County in the period between 2018 and 2045. By 2045, 37% of the total VMT on the TUMF arterial highway system is forecast to be traveling on facilities experiencing daily LOS E or worse. Without improvements to the TUMF arterial highway system, the total vehicle hours of delay (VHD) experienced by area motorists on TUMF arterial highways during the peak periods will increase by approximately 5.0% per year. The combined influences of increased travel demand and worsened LOS that manifest themselves in severe congestion and delay highlighting the continuing need to complete substantial capacity expansion on the TUMF arterial highway system to mitigate the cumulative regional impact of increased travel demand resulting from new development.

The RivCoM outputs summarized in **Table 3.1** clearly demonstrate that the travel demands generated by future new development in the region will lead to increasing levels of traffic congestion, especially on the arterial roadways. The need to improve these roadways to accommodate the anticipated growth in VMT and relieve future congestion is therefore directly linked to the future development which generates the additional travel demand.

3.2 Future Transit Utilization Levels

In addition to the roadway network, public transportation will play a role in serving future travel demand in the region. Transit represents a critical component of the transportation system by providing an alternative mode choice for those not wanting to use an automobile, and particularly for those who do not readily have access to an automobile. As population and employment in Western Riverside County grows because of new development, demand for regional transit services in the region is also expected to grow.

While some future transit trips will be accommodated by inter-regional transit services such as Metrolink, a substantial number of the trips within Western Riverside County will be served by bus transit services and for this reason the provision of regional bus transit service is considered integral to addressing the cumulative regional transportation impacts of new developments. Regional bus transit services within Western Riverside County are primarily provided by RTA.

In 2023, RTA reported average weekday daily ridership of 16,575 on their network of buses⁵. The SCAG 2020 RTP/SCS forecasts for RTA average weekday daily ridership in 2045 is 57,282. These values were used to represent the existing and future transit trips consistent with the analysis of highway trips described in **Section 3.1**. The existing and future transit ridership were compared to assess the impact of new development on transit demand. Average weekday daily ridership would be expected to grow by 40,707 between 2023 and 2045, or an average increase of 1,850 weekday daily riders each year. Average weekday daily system ridership is summarized in **Appendix D**.

The future growth in demand for public transit services is reflective of the cumulative regional impacts of new development, and the associated increase in demand for all types of transportation infrastructure and services to accommodate this growth. Furthermore, bus transit ridership is expected to grow as the improved services being planned and implemented by RTA attract new riders and encourages existing riders to use transit more often as an alternative to driving. Attracting additional riders to bus transit services contributes to the mitigation of the cumulative regional transportation impacts of new development by reducing the number of trips that need to be served on the highway system. The need to provide additional bus transit services within Western Riverside County to satisfy this future demand is therefore directly linked to the future development that generates the demand.

3.3 The TUMF Concept

A sizable percentage of trip-making for any given local community extends beyond the bounds of the individual community as residents pursue employment, education, shopping and entertainment opportunities elsewhere. As new development occurs within a particular local community, this dispersal of trips of all purposes by new residents and the new business that serve them generates additional travel demand and contributes to the need for transportation improvements within their community and in the other communities of Western Riverside County. The idea behind a uniform mitigation fee is to have new development throughout the region contribute uniformly to paying the fair share cost of improving the transportation facilities that serve these trips between communities. Thus, the fee is intended to be used primarily to improve

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⁵ RTA, like most public transportation agencies, have seen significant short-term declines in transit ridership resulting from changes in travel demands, mode choice and trip distribution following the COVID-19 pandemic. RTA's 2016 actual average weekday daily ridership was 30,700. Post COVID-19, the RTA actual average weekday daily ridership in 2023 was 16,575, a decline of almost 50% of pre-pandemic ridership levels. These levels would be expected to continue to recover toward pre-pandemic levels as potential riders resume more regular work schedules, and apprehension toward the use of transit services for public health reasons wane.

transportation facilities that serve trips between communities within the region (in particular, arterial roadways and regional bus transit services).

Some roadways serve trips between adjacent communities, while some also serve trips between more distant communities within the region. The differing roadway functions led to the concept of using a portion of the fee revenues for a backbone system of arterial roadways that serve the longer-distance trips (i.e. using TUMF revenues from the entire region), while using a second portion of the fee revenues for a secondary system of arterials that serve inter-community trips within a specific subregion or zone (i.e. using TUMF revenues from the communities most directly served by these roads – to some extent, a return-to-source of that portion of the funds). Reflecting the importance of public transit to provide an alternative to highway travel as part of a balanced regional transportation strategy, a third portion of fee revenues was reserved for improvements to regional bus transit services (i.e. using TUMF revenues from the entire region).

Much, but not all, of the new trip-making in each area is generated by residential development (i.e. when people move into new homes, they create new trips on the transportation system as they travel to work, school, shopping or entertainment). Some of the new trips are generated simply by activities associated with new businesses (i.e. new businesses will create new trips through the delivery of goods and services, etc.). Apart from commute trips by residents coming to and from work, and the trips of residents coming to and from new businesses to get goods and services, the travel demands of new businesses are not considered to be directly attributable to residential development. The consideration of different sources of new travel demand is therefore reflected in the concept of assessing both residential and non-residential development for their related transportation impacts.

In summary, the TUMF concept includes the following:

- A uniform fee that is levied on new development throughout Western Riverside County.
- > The fee is assessed roughly proportionately on new residential and non-residential development based on the relative impact of each new use on the transportation system.
- A portion of the fee is used to fund capacity improvements on a backbone system of arterial roadways that serve longer-distance trips within the region; a portion of the fee is returned to the subregion or zone in which it was generated to fund capacity improvements on a secondary system of arterial roadways that link the communities in that area; and a portion of the fee is used to fund improvements to regional bus transit services that serve trips between the communities within the region.

4.0 THE TUMF NETWORK

4.1 Identification of the TUMF Roadway Network

An integral element of the initial Nexus Study was the designation of the Western Riverside County Regional System of Highways and Arterials. This network of regionally significant highways represents those arterial and collector highway and roadway facilities that primarily support inter-community trips in Western Riverside County and supplement the regional freeway system. As a result, this system also represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements. The TUMF Network does *not* include the freeways of Western Riverside County as these facilities primarily serve longer distance inter-regional trips and a significant number of pass-through trips that have no origin or destination in Western Riverside County⁶.

The TUMF Network is the system of roadways that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. The RSHA for Western Riverside County was identified based on several transportation network and performance guidelines as follows:

- 1. Arterial highway facilities proposed to have a minimum of four lanes at ultimate build-out (not including freeways).
- 2. Facilities that serve multiple jurisdictions and/or provide connectivity between communities both within and adjoining Western Riverside County.
- 3. Facilities with forecast traffic volumes exceeding 20,000 vehicles per day in the future horizon year.
- 4. Facilities with forecast volume to capacity ratio of 0.90 (LOS E) or greater in the future horizon year.
- 5. Facilities that accommodate regional fixed route transit services.
- 6. Facilities that provide direct access to major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

Appendix E includes exhibits illustrating the various performance measures assessed during the definition of the RSHA.

Transportation facilities in Western Riverside County that generally satisfied these guidelines were initially identified, and a skeletal regional transportation framework evolved from facilities where several guidelines were observed. Representatives of all WRCOG constituent jurisdictions reviewed this framework in the context of current local transportation plans to define the TUMF Network, which was subsequently endorsed by

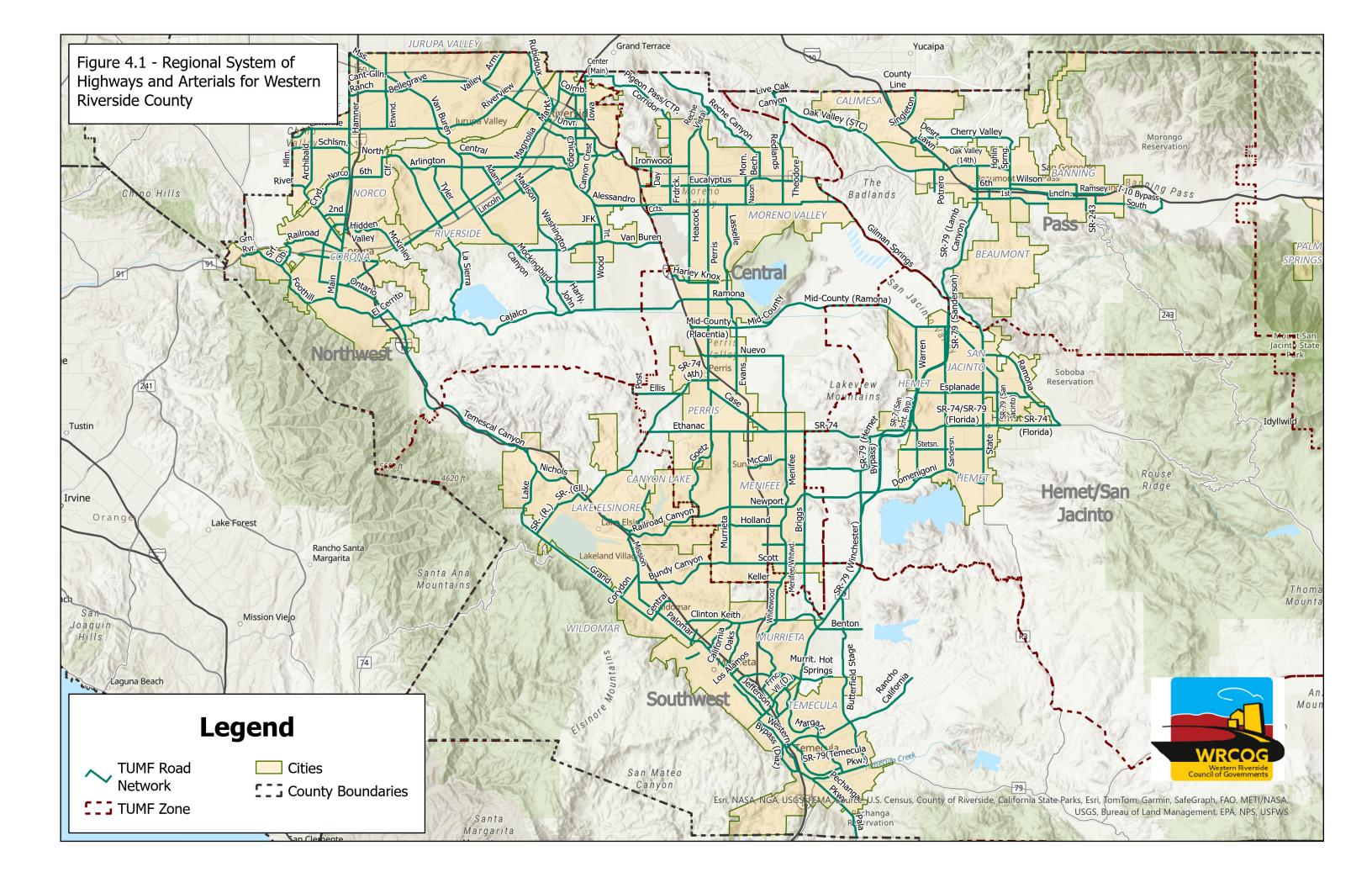
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⁶ Since pass-through trips have no origin or destination in Western Riverside County, new development within Western Riverside County cannot be considered responsible for mitigating the impacts of pass-through trips. The impact of pass-through trips and the associated cost to mitigate the impact of pass-through trips (and other inter-regional freeway trips) is addressed in the Riverside County Transportation Commission (RCTC) Western Riverside County Freeway Strategic Plan, Phase II – Detailed Evaluation and Impact Fee Nexus Determination, Final Report dated May 31, 2008.

the WRCOG Public Works Committee, WRCOG Technical Advisory Committee, TUMF Policy Committee and the WRCOG Executive Committee.

The RSHA is illustrated in **Figure 4.1**. As stated previously, the RSHA represents those regional significant highway facilities that primarily serve inter-community trips in Western Riverside County and therefore also represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements.

The TUMF Network was reviewed as part of the 2024 Nexus Update to ensure facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process resulted in the removal of various facilities from the TUMF Network, as well as various changes in the scope and magnitude of specific improvements to the TUMF Network. The resulting TUMF Network used as the basis for this Nexus Update is discussed in **Section 4.3** of this report.



4.2 Backbone Network and Secondary Network

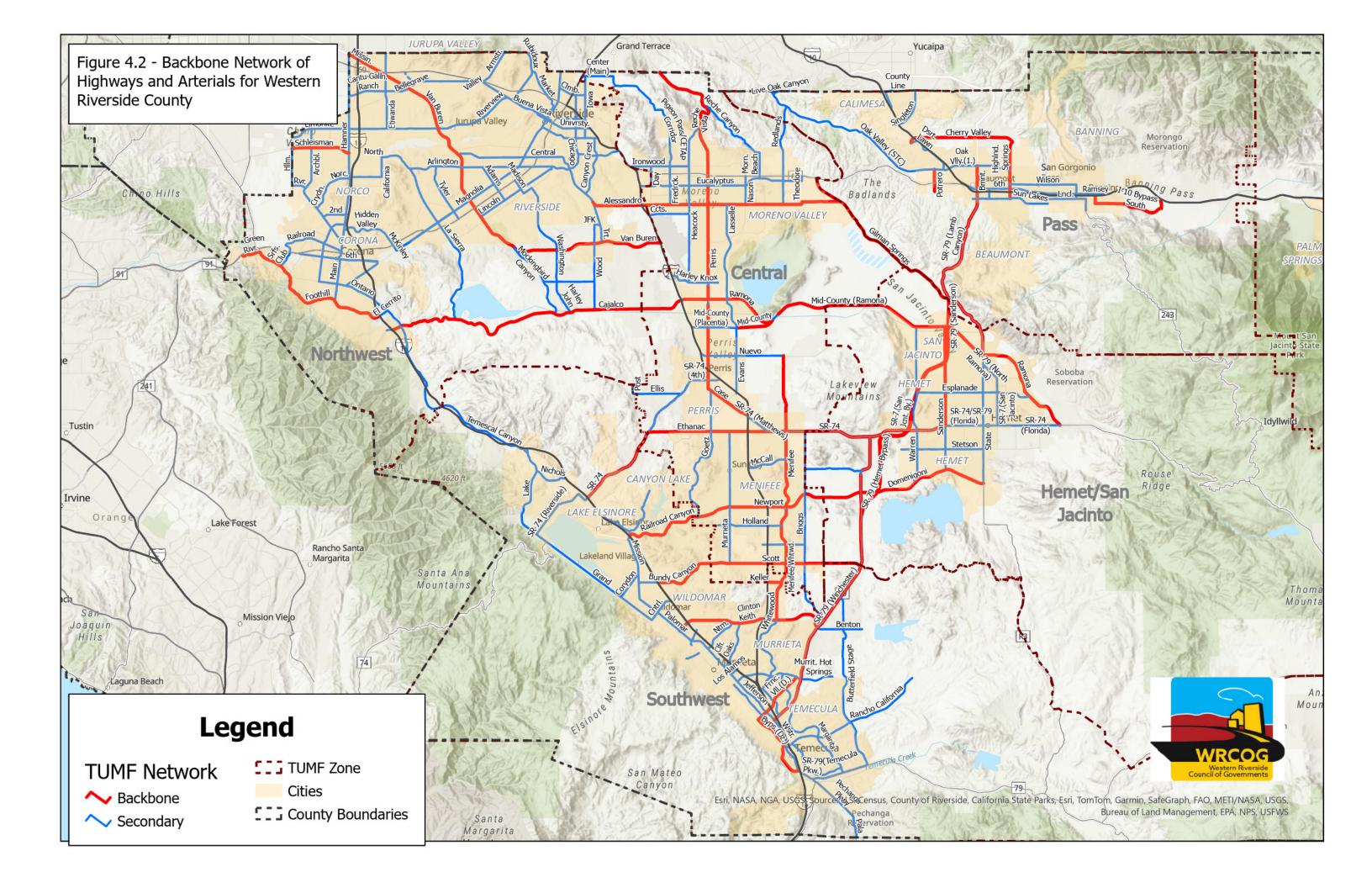
As indicated previously, the TUMF roadway network was refined to distinguish between facilities of "Regional Significance" and facilities of "Zonal Significance." Facilities of Regional Significance were identified as those that typically are proposed to have a minimum of six lanes at general plan build-out⁷, extend across and/or between multiple Area Planning Districts⁸, and are forecast to carry at least 25,000 vehicles per day in 2045. The Facilities of Regional Significance have been identified as the "backbone" highway network for Western Riverside County. A portion of the TUMF fee is specifically designated for improvement projects on the backbone system. The backbone network is illustrated in **Figure 4.2**.

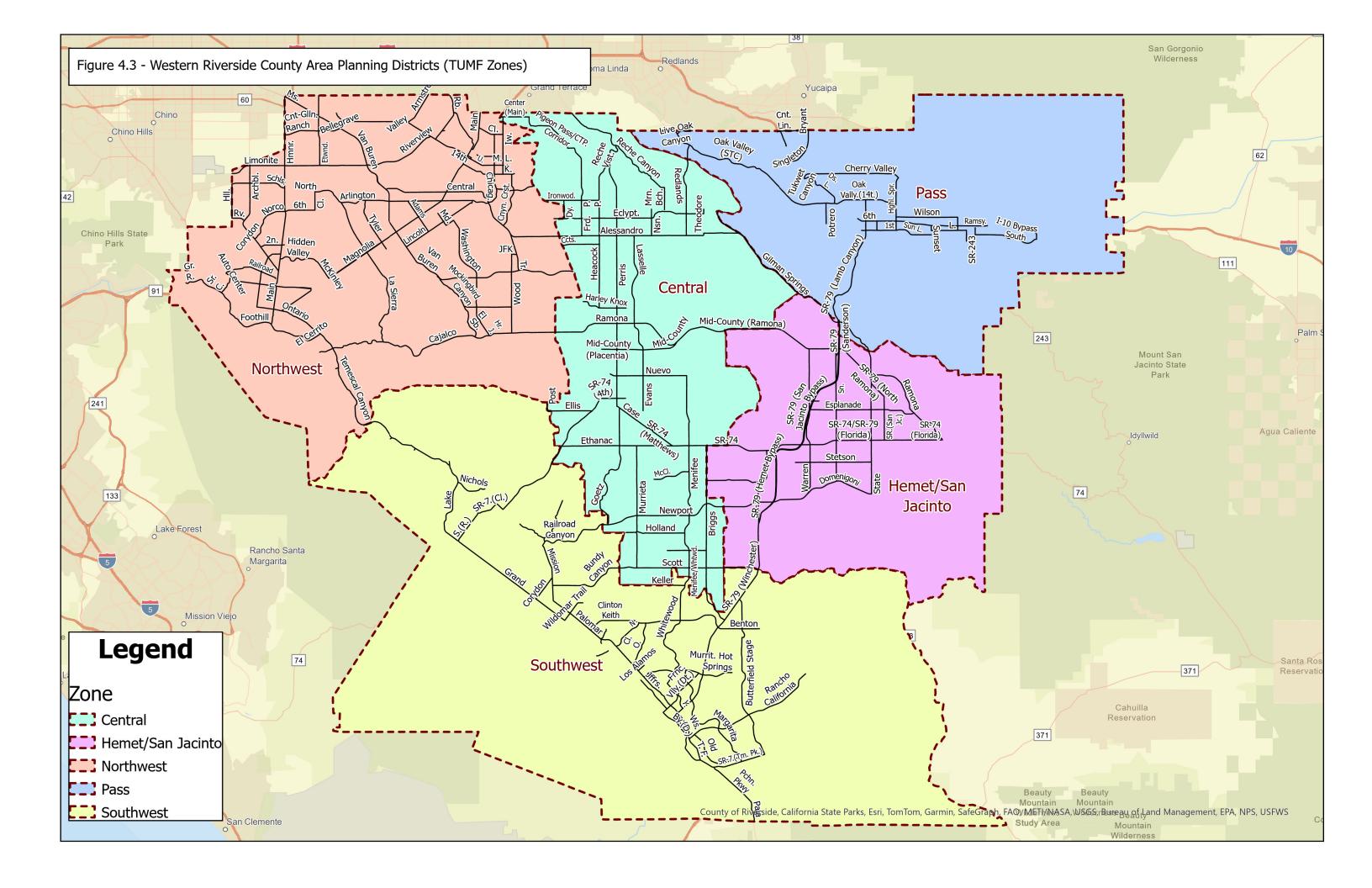
Facilities of Zonal Significance (the "secondary" network) represent the balance of the RSHA for Western Riverside County. These facilities are typically within one zone and carry comparatively lesser traffic volumes than the backbone highway network, although they are considered significant for circulation within the respective zone. A portion of the TUMF is specifically designated for improvement projects on the secondary network within the zone in which it is collected. The WRCOG APD or zones are illustrated in **Figure 4.3**.

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⁷ Although facilities were identified based on the minimum number of lanes anticipated at general plan buildout, in some cases it was determined that there was not sufficient demand for all additional lanes on some facilities until beyond the current timeframe of the TUMF Program (2045). As a result, only a portion of the additional lanes on these facilities have currently been identified for funding with TUMF revenues, reflecting the cumulative impact of new development through the current duration of the TUMF Program.

⁸ Area Planning Districts (APD) are the five aggregations of communities used for regional planning functions within the WRCOG area. Area Planning Districts are interchangeably referred to as TUMF Zones.





4.3 Future Roadway Transportation Needs

To calculate a "fair share" fee for new development, it is necessary to estimate the cost of improvements on the TUMF system that will be needed to mitigate the cumulative regional impacts of future transportation demands created by new development. Estimates of the cost to improve the network to mitigate the cumulative impacts of new development were originally developed based on unit costs prepared for the Coachella Valley Association of Governments (CVAG) Regional Arterial Cost Estimate (RACE), and the WRCOG Southwest District SATISFY 2020 Summary of Cost Estimates (TKC/WRCOG 2000). The RACE cost estimates were developed based on a summary of actual construction costs for projects constructed in Riverside County in 1998.

The initial unit cost estimates for the TUMF (based on inflated RACE cost estimates) were reviewed in the context of the SATISFY 2020 Draft Cost Estimates and were consolidated to provide typical improvement costs for each eligible improvement type. The refinement of unit costs was completed to simplify the process of estimating the cost to improve the entire TUMF network. Based on RACE and SATISFY 2020, consolidated cost estimates included typical per mile or lump sum costs for each of the improvement types eligible under the TUMF Program. The resultant revised unit cost estimates were used as the basis for estimating the cost to complete the necessary improvements to the TUMF network to mitigate the cumulative regional transportation impacts of new development.

Variations in the consolidated cost estimates for specific improvement types were provided to reflect differences in topography and land use across the region. Unit costs for roadway construction were originally varied to account for variations in construction cost (in particular, roadway excavation and embankment cost) associated with construction on level (code 1) rolling (code 2) and mountainous (code 3) terrain, respectively. Right-of-way acquisition costs which originally included consideration for land acquisition, documentation and legal fees, relocation and demolition costs, condemnation compensation requirements, utility relocation, and environmental mitigation costs were also varied to account for variations in right-of-way costs associated with urban (developed commercial/residential mixed uses – code 1), suburban (developed residential uses – code 2) and rural (undeveloped uses – code 3) land uses, respectively. Lump sum costs for interchange improvements were originally varied to account for variations in cost associated with new complex, new standard (or fully reconstructed), or major (or partially reconstructed) or minor (individual ramp improvements) interchange improvements.

As part of the 2024 TUMF Nexus Update, the original unit cost categories were revised to generate entirely new unit cost values based on the most recent available construction cost, labor cost and land acquisition cost values for comparable projects within Riverside County. The recalculation of the TUMF unit cost components was completed

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⁹ Parsons Brinckerhoff/Coachella Valley Association of Governments, 1999, <u>Regional Arterial Cost Estimate</u> (RACE)

¹⁰ TKC/Western Riverside Council of Governments, 2000, SATISFY 2020 Summary of Cost Estimates

as part of the 2024 Nexus Update to reflect the effects of significant changes in materials, labor and land acquisition costs including the influences of supply chain disruptions during and following the COVID-19 pandemic, and the elevated rates of inflation prevailing in the past few years. **Appendix F** provides a detailed outline of the assumptions and methodology leading to the revised TUMF unit cost assumptions developed as part of the 2024 Nexus Update. A new category was also added to the cost assumptions to facilitate the use of intelligent transportation systems (ITS) to enhance traffic flows in arterial corridors that require mitigation but cannot accommodate construction of addition lane capacity.

Section 8.5.1 of the Riverside County Integrated Project (RCIP) Multiple Species Habitat Conservation Plan (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003, states that "each new transportation project will contribute to Plan Historically, these projects have budgeted 3% - 5% of their implementation. construction costs to mitigate environmental impacts." This expectation is reiterated in the Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update (Economic & Planning Systems, Inc., October 2020) Section 6 which indicates that "about 44% of the revenue for the program" is expected to be derived from non-fee sources, including "the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF)." Consistent with the MSHCP Nexus Report, an amount equal to 5% of the construction cost for new TUMF network lanes, bridges and railroad grade separations will be specifically included as part of TUMF Program with revenues to be provided to the Western Riverside County Regional Conservation Authority (RCA) for the acquisition of land identified in the MSHCP. The relevant sections of the MSHCP document and the most recent MSHCP Nexus Report are included in **Appendix F**.

Table 4.1 summarizes the unit cost estimate assumptions used to develop the TUMF network cost estimate as part of the current Nexus Update. **Table 4.1** also includes a comparison of the original TUMF unit cost assumptions and the 2016 Nexus Study unit cost assumptions that demonstrates the significant increases in unit costs observed during recent years. In most cases the unit cost assumptions have more than doubled from those used for the 2016 Nexus Study. Cost estimates are provided in current year values as indicated.

To estimate the cost of improving the regional network to provide for traffic growth from new development, the network characteristics and performance guidelines (outlined in **Section 4.1**) were initially used as a basis for determining the needed improvements. The initial list of improvements was then compared with local General Plan Circulation Elements to ensure that the TUMF network included planned arterial roadways of regional significance. A consolidated list of proposed improvements and the unit cost assumptions were then used to establish an initial estimate of the cost to improve the network to mitigate for future traffic growth associated with new development. This initial list of proposed improvements has since been revised and updated as part of each subsequent Nexus Update to reflect the completion of projects, changing levels of development and associated changes in travel demand and transportation system impacts to be mitigated as part of the TUMF program.

Table 4.1 - Unit Costs for Arterial Highway and Street Construction

| Component Type | Original Cost Assumptions as published October 18, 2002 | Cost Assumptions per 2016 Nexus Study July 10, 2017 | Cost Assumptions per 2024 Nexus Update | Description |
|-------------------|------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Terrain 1 | \$550,000 | \$692,000 | \$1,132,000 | Construction cost per lane mile - level terrain |
| Terrain 2 | \$850,000 | \$878,000 | \$1,740,000 | Construction cost per lane mile - rolling terrain |
| Terrain 3 | \$1,150,000 | \$1,064,000 | \$2,350,000 | Construction cost per lane mile - mountainous terrain |
| Landuse 1 | \$900,000 | \$2,509,000 | \$7,830,000 | ROW cost factor per lane mile - urban areas |
| Landuse 2 | \$420,000 | \$2,263,000 | \$5,440,000 | ROW cost factor per lane mile - suburban areas |
| Landuse 3 | \$240,000 | \$287,000 | \$490,000 | ROW cost factor per lane mile - rural areas |
| Interchange 1 | n/a | \$50,032,000 | \$84,190,000 | Complex new interchange/interchange/interchange/modification cost |
| Interchange 2 | \$20,000,000 | \$25,558,000 | \$43,490,000 | New interchange/interchange modification total cost |
| Interchange 3 | \$10,000,000 | \$12,343,000 | \$22,550,000 | Major interchange improvement total cost |
| Bridge 1 | \$2,000 | \$3,180 | \$4,800 | Bridge total cost per lane per linear foot |
| RRXing 1 | \$4,500,000 | \$6,376,000 | \$18,200,000 | New Rail Grade Crossing per lane |
| RRXing 2 | \$2,250,000 | \$2,733,000 | \$6,900,000 | Existing Rail Grade Crossing per lane |
| ITS 1 | | | \$686,400 | Infrastructure for ITS of roadway segments per route mile |
| Planning | 10% | 10% | 10% | Planning, preliminary engineering and environmental assessment costs based on construction cost only |
| Engineering | 25% | 25% | 25% | Project study report, design, permitting and construction oversight costs based on construction cost only |
| Contingency | 10% | 10% | 10% | Contingency costs based on total segment cost |
| Administration | | 4% | 4% | TUMF program administration based on total TUMF eligible network cost |
| MSHCP | | 5% | 5% | TUMF component of MSHCP based on total TUMF eligible construction cost |

As indicated in **Table 2.4** and **Figure 2.4**, the anticipated rate of forecasted growth in Western Riverside County has been reduced by 4% for population, 3% for single-family residential and 31% for employment. This reduced rate of forecasted socioeconomic growth has a commensurate impact on the forecasted daily traffic in the region as demonstrated by the 2016 Nexus Study VMT compared to the 2024 Nexus Update VMT in **Table 4.2**. As shown in the table, the forecast peak period VMT on the TUMF arterial network in the year 2045 as the basis for the 2024 Nexus Update is more than 5% less than the comparable peak period VMT for 2040 used for the 2016 Nexus Study.

Table 4.2 – Forecasted Daily Traffic in Western Riverside County

| | 2024 Nex | us Update | 2016 Nexus Study | | |
|----------------------------|-------------------------------------------|------------|------------------|---------------|--|
| Measure of Performance | Peak Period 2018 Existing 2045 No-Build 2 | | Peak Period | | |
| | | | 2012 Existing | 2040 No-Build | |
| VMT - Total ALL FACILITIES | 23,284,724 | 29,897,254 | 19,532,437 | 29,277,587 | |
| VMT - FREEWAYS | 13,514,522 | 15,490,284 | 11,019,155 | 14,487,570 | |
| VMT - ALL ARTERIALS | 9,770,202 | 14,406,970 | 8,513,282 | 14,790,016 | |
| TOTAL - TUMF ARTERIAL VMT | 6,216,985 | 8,597,200 | 5,585,202 | 9,089,495 | |

Source: RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021; RivTAM 2012 network and SCAG 2016 RTP/SCS SED with updated 2015 arterial network completed by WSP, September 2016

As a result of the reduced forecast traffic growth in the region, it is anticipated that the cumulative regional impacts of new development on the arterial highway and transit systems in the region is also reduced necessitating a reduction in the projects identified on the TUMF Network to mitigate the impacts of new development. As part of the 2024 Nexus Update, the list of proposed improvements included in the initial Nexus Study and validated during the subsequent Nexus updates was reviewed for accuracy and, where necessary, amended to remove or modify projects that have changed in need to mitigate impacts based on changes in the patterns of growth and travel demand within the region. Projects completed since the adoption of the 2016 Nexus Update were also removed from the network to reflect the fact that mitigation at these locations is no longer required. The specific network changes were screened by the WRCOG Public Works Committee for consistency with TUMF network guidelines including travel demand and traffic performance.

Based on the findings of the network screening, elements of specific projects were revised to reflect necessary network corrections and modifications to project assumptions. A matrix summarizing the disposition of the requests received as part of the 2024 TUMF Nexus Update was developed and is included in **Appendix G**.

Eligible arterial highway and street improvement types to mitigate the cumulative regional transportation impacts of new development on Network facilities include:

- 1. Construction of additional Network roadway lanes
- 2. Construction of new Network roadway segments
- 3. Expansion of existing Network bridge structures
- 4. Construction of new Network bridge structures
- 5. Expansion of existing Network interchanges with freeways
- 6. Construction of new Network interchanges with freeways
- 7. Grade separation of existing Network at-grade railroad crossings
- 8. Installation of ITS along Network roadway segments

All eligible improvement types, except for ITS, provide additional capacity to Network facilities to accommodate future traffic growth generated by new development in Western Riverside County. ITS provides the ability to improve traffic flows along corridors

where capacity expansion is not possible. Following the comprehensive update of the TUMF Program, the estimated total cost to improve the RSHA for Western Riverside County is \$4.84 billion with this cost including all arterial highway and street planning, engineering, design, right-of-way acquisition and capital construction costs, but not including transit, MSHCP or program administration costs that will be subsequently described. It should be noted that the full cost to improve the TUMF Network cannot be entirely attributed to new development and must be adjusted to account for the previous obligation of other funds to complete necessary improvements and unfunded existing needs. **Sections 4.5** and **4.6** describe the adjustments to the total TUMF Network improvement need to account for existing needs and obligated funds.

In addition to the arterial highway and street improvement costs indicated above, the TUMF Nexus Update included specific consideration for the TUMF Program obligation to the MSHCP program to mitigate the impact of TUMF network improvements on species and habitat within Western Riverside County. The TUMF obligation to MSHCP was calculated at a rate of 5% of the total construction (capital) cost of new lane segments, bridges and railroad grade separations on the TUMF Network. The total obligation to the MSHCP as indicated in the TUMF Network cost fee table is approximately \$64.6 million, although the total obligation specific to the TUMF program is reduced to account for MSHCP obligations associated with improvements addressing existing needs and therefore excluded from TUMF.

The TUMF 2024 Nexus Update similarly includes specific consideration of the costs associated with WRCOG administration of the TUMF Program. The average cost for WRCOG to administer the TUMF Program was calculated at a rate of 4% of the total eligible cost of new lane segments (including interchanges, bridges and railroad grade separations) on the TUMF Network and new transit services. Administration costs incurred by WRCOG include direct salary, fringe benefit and overhead costs for WRCOG staff assigned to administer the program and support participating jurisdictions, and costs for consultant, legal and auditing services to support the implementation of the TUMF program. The total cost for WRCOG administration of the TUMF Program as indicated in the TUMF Network cost fee table is approximately \$161.2 million.

The detailed TUMF network cost calculations are provided in **Section 4.7**, including each of the individual segments and cost components considered as part of the TUMF Program, and the maximum eligible TUMF share for each segment following adjustments for obligated funding and unfunded existing needs as described in subsequent sections.

4.4 Public Transportation Component of the TUMF System

In addition to the roadway network, public transportation plays a key role in serving future travel demand in the region. Public transportation serving inter-community trips is generally provided in the form of public bus transit services and in particular express bus or other high frequency services between strategically located community transit centers. In Western Riverside County, these bus transit services are typically provided by

RTA. Transit needs to serve future regional travel in Western Riverside County via bus transit include vehicle acquisitions, transit centers, express bus stop upgrades, maintenance facilities and other associated capital improvements to develop express bus or other high frequency inter-community transit bus services within the region. Metrolink commuter rail service improvements were not included in the TUMF Program as they typically serve longer inter-regional commute trips equivalent to freeway trips on the inter-regional highway system.

The network of regionally significant bus transit services represents those express bus and other high frequency transit bus services that primarily support inter-community trips in Western Riverside County and supplement the regional highway system and interregional commuter rail services. As a result, this portion of the bus transit system also represents the extents of the network of bus services that would be eligible for TUMF funded improvements.

The TUMF Bus Transit Network is the system of bus services that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. The Bus Transit Network for Western Riverside County was identified based on several transit network and performance guidelines as follows:

- 1. Bus transit routes (or corridors comprised of multiple overlapping routes) proposed to have a frequency of greater than three buses per direction during peak hours at ultimate build out.
- Routes or corridors that serve multiple jurisdictions and/or provide connectivity between communities, both within and adjoining western Riverside County.
- 3. Routes or corridors with forecast weekday bus ridership in excess of 1,000 person trips per day by 2040.
- 4. Routes or corridors that are proposed to provide timed interconnections with at least four other routes or corridors at ultimate build out.
- 5. Routes or corridors that utilize the majority of travel along the TUMF RSHA.
- 6. Routes or corridors that provide direct access to areas of forecast population and employment growth, major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

Express bus routes and other high-frequency bus transit routes and corridors in Western Riverside County that generally satisfied the respective guidelines were identified by RTA. Updated cost estimates for improving the infrastructure serving public transportation, including construction of transit centers and transfer facilities, express bus stop upgrades, and capital improvements needed to develop express bus and other high frequency bus transit service within the region were also provided by RTA. The updated transit unit cost data provided by RTA are shown in **Table 4.3**.

Table 4.3 - Unit Costs for Transit Capital Expenditures

| Component Type* | Original Cost Assumptions as published October 18, 2002 | Cost Assumptions per 2016 Nexus Study July 10, 2017 | Cost Assumptions per 2024 Nexus Update | Description |
|---------------------|------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Transit Center 1 | | \$6,000,000 | \$7,465,000 | Relocation/expansion of existing Regional Transit Center with up to 14 bus bays and park and ride |
| Transit Center 2 | \$6,000,000 | \$9,000,000 | \$11,195,000 | New Regional Transit Center with up to 14 bus bays and park and ride |
| Transfer Facility | | \$1,000,000 | \$1,245,000 | Multiple route transfer hub |
| O & M Facility | | \$50,000,000 | \$62,186,000 | Regional Operations and Maintenance Facility |
| Green Technology | | | \$100,000 | ZEB technology enhancements |
| Bus Stop | \$10,000 | \$40,000 | \$50,000 | Bus Stop Amenities Upgrade on TUMF Network |
| BRT Service Capital | \$540,000 | \$60,000 | \$75,000 | BRT/Limited Stop Service Capital (per stop**) |
| Vehicle Fleet 1*** | | | \$160,000 | Small Sized Bus/Van Contract Operated |
| Vehicle Fleet 2 | | \$155,000 | \$300,000 | Medium Sized Bus Contract Operated |
| Vehicle Fleet 3 | \$325,125 | \$585,000 | \$1,271,000 | Large Sized Bus Directly Operated |
| COA Study | | \$950,000 | \$1,150,000 | Comprehensive Operational Analysis Study component of Nexus Study Update |

^{*} Transit Cost Component Types were restructured as part of the 2016 Nexus Update in accordance with the RTA Comprehensive Operational Analysis (January 2015)

The estimated total cost for future RTA bus transit services to accommodate forecast transit demand is approximately \$217.9 million with this cost including all planning, engineering, design and capital improvement costs. Detailed transit component cost estimates are included in **Section 4.7**. The full cost to improve RTA bus transit services cannot be entirely attributed to new development and must be adjusted to account for existing needs. **Section 4.6** describes the adjustments to the total transit cost to account for existing needs.

^{**} BRT Service Capital Cost Assumption was based on a per mile unit prior to the 2016 Nexus Update. 2016 Nexus Update uses a per stop unit cost for BRT Service Capital

^{***} Vehicle Fleet component was restructured as part of the 2024 Nexus Update with the inclusion of Small Sized

Bus/Van Contract Operated as Vehicle Fleet 1 and subsequent renumbering of Vehicle Fleet 2 and 3, respectively

4.5 Existing Obligated Funding

For some of the facilities identified in the TUMF network, existing obligated funding has previously been secured through traditional funding sources to complete necessary improvements. Since funding has been obligated to provide for the completion of needed improvements to the TUMF system, the funded cost of these improvements will not be recaptured from future developments through the TUMF Program. As a result, the TUMF network cost was adjusted accordingly to reflect the availability of obligated funds.

To determine the availability of obligated funds, WRCOG staff, in conjunction with RCTC staff, completed a review of the current Federal Transportation improvement Program (FTIP) to identify TUMF eligible projects that were also programmed to receive funding from alternate sources. A table summarizing the obligated funds for segments of the TUMF network is included in **Appendix H**. A total of \$382.9 million in obligated funding was identified for improvements to the TUMF system. The estimated total TUMF network project cost was subsequently reduced by this amount.

4.6 Unfunded Existing Improvement Needs

A review of the existing traffic conditions on the TUMF network (as presented in **Table 3.1**) indicates that some segments of the roadways on the TUMF system currently experience congestion and operate at unacceptable levels of service. In addition, demand for inter-community transit service already exists and future utilization of proposed inter-community transit services will partially satisfy this existing demand. The need to improve these portions of the system is generated, at least in part, by existing demand, rather than solely the cumulative regional impacts of future new development, so future new development cannot be assessed for the equivalent cost share of improvements providing for this existing need.

To account for existing need in the TUMF Network, the cost for facilities identified as currently experiencing LOS E or F was adjusted. This was done by identifying the portion of any segment of the TUMF Network with a volume to capacity (v/c) ratio of greater than 0.9 (the threshold for LOS E) in the RivCoM 2018 Existing scenario and extracting the share of the overall facility cost to improve that portion. This cost adjustment provides for the mitigation of incremental traffic growth on those TUMF segments with an existing high level of congestion. The following approach was applied to account for incremental traffic growth associated with new development as part of the existing need methodology:

1. Facilities with an existing need were identified by reviewing the RivCoM 2018 Existing scenario assigned traffic on the 2021 existing network and delineating

those facilities included on the TUMF Cost Fee Summary Table that have an average directional v/c exceeding 0.9011.

- a. Weighted directional v/c values were used to determine existing need for network segments, which was calculated by:
 - Determining the length for the portion of each segment (model link), and calculating the ratio of link length to the overall segment length
 - ii. Generating the average directional v/c for each link, for both directions in AM and PM periods, and multiplying by link/segment length ratio
 - iii. Determining the maximum peak-period peak-direction v/c for each link, representing the highest directional v/c in either AM or PM
 - iv. Calculating weighted average v/c for each TUMF segment, based on the sum of all weighted max v/c values of each link within a segment
- b. A similar method was used to determine existing need for spot improvements including interchanges, railroad crossings and bridges. However, no weighting was used in the calculation of existing need for spot improvements. For these facilities, the peak-period peak-direction v/c values (highest directional v/c in either AM or PM) were utilized in the existing need calculation. This was based on the individual link within a network segment where a bridge or railroad crossing is located, or on-and off-ramps in the case of interchanges.
- 2. Initial costs of addressing the existing need were calculated by estimating the share of a particular roadway segments "new lane" cost, or individual spot improvement cost (including all associated ROW and soft costs).
- 3. Incremental growth in v/c was determined by comparing the average directional exisiting year v/c for the TUMF facilities (delineated under step one) with the horizon year v/c for the corresponding segments and spot improvements calculated based on the RivCoM 2045 No-Build scenario assigned traffic on the 2021 existing network using the same methodology as the existing year v/c.

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¹¹ The RivCoM 2021 Existing Network used for the TUMF Nexus Study analyses reflects the RivCoM 2018 base year network augmented to include highways facilities on the TUMF Network as they existed in December 2021. A second version of the base network was also developed adding only those facilities that had been identified on the 2016 TUMF Nexus study 2040 Build scenario that did not currently exist in December 2021 and therefore were not represented by a link(s) in the RivCoM base network. The Supplemental 2021 Existing Network was utilized as the basis for determining existing and future v/c for only those projects that did not currently exist on the 2021 TUMF Network.

- 4. The proportion of the incremental growth attributable to new development was determined by dividing the result of step three with the total 2045 No-Build scenario v/c exceeding LOS E.
- 5. For those segments experiencing a net increase in v/c over the base year, TUMF will 'discount' the cost of existing need improvements by the proportion of the incremental v/c growth through 2045 No-Build compared to the 2018 Baseline v/c (up to a maximum of 100%).

The unfunded cost of existing highway improvement needs (including the related MSHCP obligation) totals \$582.6 million. **Appendix H** includes a detailed breakdown of the existing highway improvement needs on the TUMF network, including the associated unfunded improvement cost estimate for each segment and spot improvement experiencing unacceptable LOS.

For transit service improvements, the cost to provide for existing demand was determined by multiplying the total transit component cost by the share of future transit trips representing existing demand. The cost of existing transit service improvement needs is \$63.0 million representing 28.9% of the TUMF transit component. **Appendix H** includes tables reflecting the calculation of the existing transit need share and the existing transit need cost.

4.7 Maximum TUMF Eligible Cost

A total of \$382.9 million in obligated funding was identified for improvements to the TUMF system. Since these improvements are already funded with other available revenue sources, the funded portion of these projects cannot also be funded with TUMF revenues. Furthermore, the total cost of the unfunded existing improvement need is \$646.9 million. These improvements are needed to mitigate existing transportation deficiencies and therefore their costs cannot be assigned to new development through TUMF.

Based on the estimated costs described in **Sections 4.3** and **4.4**, the total value to complete the identified TUMF network and transit improvements, and administer the program is \$5.28 billion. Having accounted for obligated funds and unfunded existing needs as described in **Sections 4.5** and **4.6**, respectively, the estimated maximum eligible value of the TUMF Program is \$4.24 billion. The maximum eligible value of the TUMF Program includes approximately \$3.87 billion in eligible arterial highway and street related improvements and \$154.8 million in eligible transit related improvements. An additional \$53.9 million is eligible as part of the TUMF Program to mitigate the impact of eligible TUMF related arterial highway and street projects on critical native species and wildlife habitat, while \$161.2 million is provided to cover the costs incurred by WRCOG to administer the TUMF Program.

Figure 4.4 illustrates the various improvements to the RSHA included as part of the TUMF network cost calculation. **Table 4.4** summarizes the TUMF network cost calculations for each of the individual segments. This table also identifies the maximum eligible TUMF share for each segment having accounted for obligated funding and unfunded

existing need. A detailed breakdown of the individual cost components and values for the various TUMF Network segments is included in **Appendix H**. **Table 4.5** outlines the detailed transit component cost estimates. It should be noted that the detailed cost tables (and fee levels) are subject to regular review and updating by WRCOG and therefore WRCOG should be contacted directly to obtain the most recently adopted version of these tables (and to confirm the corresponding fee level).

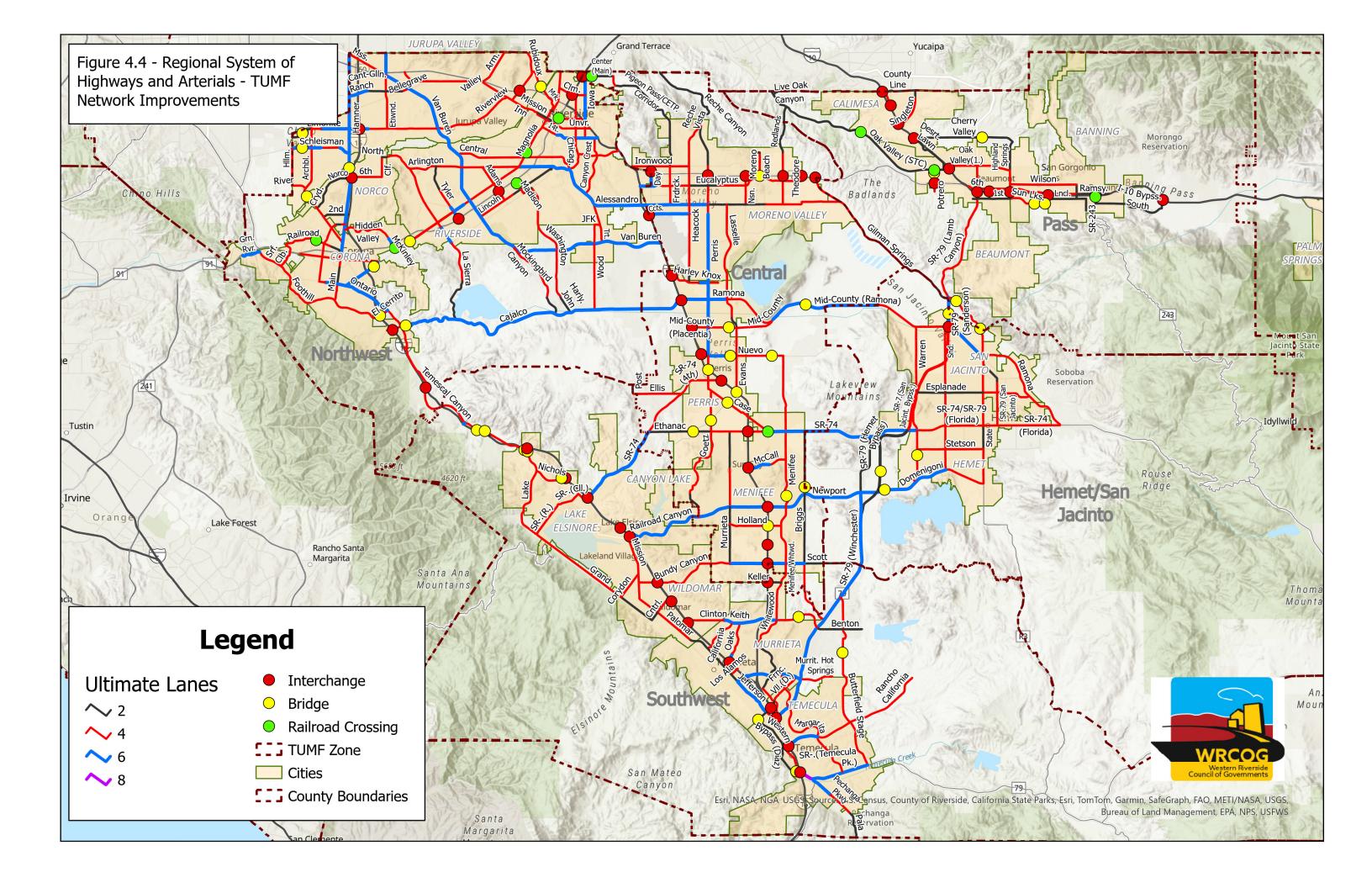


Table 4.4 - TUMF Network Cost Estimates

| AREA PLAN DIS | | STREETNAME | SEGMENTFROM | SEGMENTTO | | MUM TUMF SHAR |
|-------------------------------------|----------------------|------------------------|------------------------------|----------------------------------|--------------------------|------------------------|
| Central | Menifee | Ethanac | Goetz | Murrieta | \$0 | \$(|
| Central | Menifee | Ethanac | Murrieta | I-215 | \$0 | \$(|
| Central | Menifee | Ethanac | I-215 | interchange | \$32,698,000 | \$32,698,000 |
| Central | Menifee | Ethanac | Sherman | Matthews | \$2,674,000 | \$2,674,00 |
| Central | Menifee | Ethanac | BNSF San Jacinto Branch | railroad crossing | \$105,560,000 | \$105,560,000 |
| Central | Menifee | Menifee | SR-74 (Pinacate) | Simpson | \$1,307,000 | \$1,307,00 |
| Central | Menifee | Menifee | Salt Creek | bridge | \$4,384,000 | \$4,384,00 |
| Central | Menifee | Menifee | Simpson | Aldergate | \$0 | \$ |
| Central | Menifee | Menifee | Aldergate | Newport | \$0 | \$ |
| Central | Menifee | Menifee | Newport | Holland | \$0 | \$ |
| Central | Menifee | Menifee | Holland | Garbani | \$0 | \$0 |
| Central | Menifee | Menifee | Garbani | Scott | \$4,353,000 | \$4,353,00 |
| Central | Menifee | Menifee/Whitewood | Scott | Murrieta City Limit | \$0 | \$ |
| Central | Menifee | Newport | Goetz | Murrieta | \$0 | \$(|
| Central | Menifee | Newport | Murrieta | I-215 | \$1,130,000 | \$1,130,00 |
| Central | Menifee | Newport | I-215 | Menifee | \$0 | \$1,100,00 |
| Central | Menifee | Newport | Menifee | Lindenberger | \$0 | \$ |
| | | | | | | |
| Central | Menifee | Newport | Lindenberger | SR-79 (Winchester) | \$0 | \$ |
| Central | Menifee | Scott | I-215 | Briggs | \$8,635,000 | \$8,635,00 |
| Central | Menifee | Scott | I-215 | interchange | \$0 | . \$ |
| Central | Menifee | Scott | Sunset | Murrieta | \$4,388,000 | \$4,388,00 |
| Central | Menifee | Scott | Murrieta | I-215 | \$16,949,000 | \$12,949,00 |
| Central | Menifee | SR-74 | Matthews | Briggs | \$8,254,000 | \$8,254,00 |
| Central | Moreno Valley | Alessandro | I-215 | Perris | \$13,420,000 | \$13,420,00 |
| Central | Moreno Valley | Alessandro | Perris | Nason | \$0 | \$(|
| Central | Moreno Valley | Alessandro | Nason | Moreno Beach | \$0 | \$ |
| Central | Moreno Valley | Alessandro | Moreno Beach | Gilman Springs | \$18,019,000 | \$18,019,00 |
| | | | | | | |
| Central | Moreno Valley | Gilman Springs | SR-60 | Alessandro | \$7,291,000 | \$7,291,00 |
| Central | Moreno Valley | Gilman Springs | SR-60 | interchange | \$0 | \$ |
| Central | Moreno Valley | Perris | Reche Vista | Ironwood | \$0 | \$ |
| Central | Moreno Valley | Perris | Ironwood | Sunnymead | \$0 | \$ |
| Central | Moreno Valley | Perris | SR-60 | interchange | \$32,698,000 | \$11,192,00 |
| Central | Moreno Valley | Perris | Sunnymead | Cactus | \$0 | \$ |
| Central | Moreno Valley | Perris | Cactus | Harley Knox | \$0 | \$ |
| Central | Moreno Valley | Reche Vista | Country | Heacock | \$7,486,000 | \$3,799,00 |
| Central | Perris | 11th/Case | Perris | Goetz | \$4,582,000 | \$4,582,00 |
| | | Case | | | \$20,876,000 | |
| Central | Perris | | Goetz | I-215 | | \$20,876,00 |
| Central | Perris | Case | San Jacinto River | bridge | \$1,740,000 | \$1,235,00 |
| Central | Perris | Ethanac | Keystone | Goetz | \$6,056,000 | \$6,056,00 |
| Central | Perris | Ethanac | San Jacinto River | bridge | \$5,568,000 | \$5,568,00 |
| Central | Perris | Ethanac | I-215 | Sherman | \$5,316,000 | \$5,316,00 |
| Central | Perris | Goetz | Case | Ethanac | \$1,507,000 | \$999,00 |
| Central | Perris | Goetz | San Jacinto River | bridge | \$5,568,000 | \$3,398,00 |
| Central | Perris | Mid-County (Placentia) | I-215 | Perris | \$15,655,000 | \$15,655,000 |
| Central | Perris | Mid-County (Placentia) | I-215 | interchange | \$0 | \$10,000,00 |
| Central | Perris | | Perris | | \$22,985,000 | \$22,985,00 |
| | | Mid-County (Placentia) | | Evans | | |
| Central | Perris | Mid-County (Placentia) | Perris Valley Storm Channel | bridge | \$8,352,000 | \$8,352,00 |
| Central | Perris | Perris | Harley Knox | Ramona | \$0 | . \$ |
| Central | Perris | Perris | Ramona | Citrus | \$7,063,000 | \$7,063,00 |
| Central | Perris | Perris | Citrus | Nuevo | \$0 | \$ |
| Central | Perris | Perris | Nuevo | 11th | \$6,927,000 | \$6,927,000 |
| Central | Perris | Perris | I-215 overcrossing | bridge | \$0 | \$0 |
| Central | Perris | Ramona | I-215 | Perris | \$5,039,000 | \$5,039,00 |
| Central | Perris | Ramona | I-215 | interchange | \$32,698,000 | \$7,725,000 |
| Central | Perris | Ramona | Perris | Evans | \$02,878,000 | \$7,723,000 |
| | | | | | | |
| Central | Perris | Ramona | Evans | Mid-County (2,800 ft E of Rider) | \$0 | \$(|
| Central | Perris | SR-74 (4th) | Ellis | I-215 | \$0 | \$(|
| Central | Unincorporated | | SR-74 | Keystone | \$4,666,000 | \$4,666,00 |
| Central | Unincorporated | | Alessandro | Bridge Road | \$30,601,000 | \$30,601,00 |
| Central | Unincorporated | Menifee | Nuevo | SR-74 (Pinacate) | \$16,684,000 | \$16,684,00 |
| Central | Unincorporated | Mid-County | Evans | Ramona (2,800 ft E of Rider) | \$12,156,000 | \$12,156,00 |
| Central | | Mid-County (Ramona) | Ramona (2,800 ft E of Rider) | Pico Avenue | \$0 | \$ |
| Central | | Mid-County (Ramona) | Pico Avenue | Bridge Road | \$47,769,000 | \$47,769,00 |
| Central | | | San Jacinto River | | \$36,192,000 | \$36,192,00 |
| | | Mid-County (Ramona) | | bridge Peche Vista | | |
| Central | Unincorporated | | San Bernardino County | Reche Vista | \$0 | \$ |
| Central | Unincorporated | | Reche Canyon | Country | \$0 | \$ |
| Central | Unincorporated | | Briggs | SR-79 (Winchester) | \$0 | \$ |
| Central | Unincorporated | SR-74 | Ethanac | Ellis | \$0 | \$ |
| Vorthwest | Corona | Cajalco | I-15 | Temescal Canyon | \$0 | \$ |
| lorthwest | Corona | Cajalco | I-15 | interchange | \$0 | \$ |
| lorthwest | Corona | Foothill | Paseo Grande | Lincoln | \$0 | \$ |
| Vorthwest | Corona | Foothill | Wardlow Wash | bridge | \$0 \$0 | \$ |
| lorthwest | Corona | Foothill | Lincoln | California | \$0 \$0 | \$ |
| | | | | | | |
| lorthwest | Corona | Foothill | California | I-15 | \$0 | 9 |
| Iorthwest | Corona | Green River | SR-91 | Dominguez Ranch | \$0 | \$ |
| lorthwest | Corona | Green River | Dominguez Ranch | Palisades | \$0 | \$ |
| lorthwest | Corona | Green River | Palisades | Paseo Grande | \$0 | 9 |
| lorthwest | Eastvale | Schleisman | San Bernardino County | 600' e/o Cucamonga Creek | \$648,000 | \$648,00 |
| lorthwest | Eastvale | Schleisman | Cucamonga Creek | bridge | \$0 | \$ |
| lorthwest | | | | | | |
| | Eastvale | Schleisman | 600' e/o Cucamonga Creek | Harrison | \$866,000 | \$866,00 |
| | | Schleisman | Harrison | Sumner | \$488,000 | \$488,00 |
| Northwest | Eastvale | | | | | |
| Northwest | Eastvale Eastvale | Schleisman | Sumner | Scholar | \$7,625,000 | |
| Northwest Northwest Northwest | | | | Scholar A Street | \$7,625,000 \$119,000 | \$7,625,00 \$119,00 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DIST | | STREETNAME | SEGMENTFROM | SEGMENTTO | | MAXIMUM TUMF SHARE |
|----------------|----------------|-----------------------------------------|---------------------------------|------------------------------|------------------------------|-----------------------------|
| | Jurupa Valley | Van Buren | SR-60 | Bellegrave | \$23,928,000 | \$10,461,000 |
| | Jurupa Valley | Van Buren | Bellegrave | Santa Ana River | \$60,900,000 | \$0 |
| | Riverside | Alessandro | Arlington | Trautwein | \$2,410,000 | \$2,410,000 |
| | Riverside | Arlington | La Sierra | Magnolia | \$0 | \$0 |
| | Riverside | Arlington | Magnolia | Alessandro | \$46,465,000 | \$46,465,000 |
| | Riverside | Van Buren | Santa Ana River | SR-91 | \$5,230,000 | \$4,392,000 |
| Northwest | Riverside | Van Buren | SR-91 | Mockingbird Canyon | \$39,493,000 | \$21,292,000 |
| Vorthwest | Riverside | Van Buren | Wood | Trautwein | \$0 | \$C |
| Vorthwest | Riverside | Van Buren | Trautwein | Orange Terrace | \$7,574,000 | \$7,574,000 |
| Vorthwest | Unincorporated | Alessandro | Trautwein | Vista Grande | \$0 | \$0 |
| Northwest | Unincorporated | Alessandro | Vista Grande | I-215 | \$0 | \$0 |
| Northwest | Unincorporated | Cajalco | El Sobrante | Harley John | \$10,580,000 | \$9,817,000 |
| | Unincorporated | | Harley John | Harvil | \$166,492,000 | \$166,492,000 |
| | Unincorporated | | Harvil | I-215 | \$1,238,000 | \$1,238,000 |
| | Unincorporated | | Temescal Canyon | La Sierra | \$49,596,000 | \$35,953,000 |
| | Unincorporated | | Temescal Wash | bridge | \$4,872,000 | \$1,907,000 |
| | Unincorporated | | La Sierra | El Sobrante | \$96,453,000 | \$96,453,000 |
| | Unincorporated | | Mockingbird Canyon | Wood | \$67,429,000 | \$67,429,000 |
| | Unincorporated | | Orange Terrace | I-215 | \$67,427,000 | \$67,427,000 |
| | Banning | Highland Springs | Wilson (8th) | Sun Lakes | \$0 | \$C |
| | | | | | | |
| | Banning | Highland Springs | I-10 | interchange | \$63,061,000 | \$32,516,000 |
| | Banning | Highland Springs | Oak Valley (14th) | Wilson (8th) | \$0 | \$0 |
| | Banning | Highland Springs | Cherry Valley | Oak Valley (14th) | \$0 | \$0 |
| | Banning | I-10 Bypass South | I-10 | Morongo Trail (Apache Trail) | \$50,110,000 | \$50,110,000 |
| | Banning | I-10 Bypass South | I-10 | interchange | \$63,061,000 | \$63,061,000 |
| | Banning | I-10 Bypass South | San Gorgonio | bridge | \$4,176,000 | \$4,176,000 |
| Pass | Banning | I-10 Bypass South | UP/Hargrave | railroad crossing | \$52,780,000 | \$52,780,000 |
| Pass | Beaumont | Beaumont | Oak Valley (14th) | I-10 | \$0 | \$0 |
| Pass | Beaumont | Potrero | Oak Valley (San Timoteo Canyon) | SR-60 | \$1,100,000 | \$1,100,000 |
| Pass | Beaumont | Potrero | SR-60 | interchange | \$63,061,000 | \$29,561,000 |
| Pass | Beaumont | Potrero | UP | railroad crossing | \$40,020,000 | \$40,020,000 |
| Pass | Beaumont | Potrero | Noble Creek | bridge | \$0 | \$C |
| Pass | Beaumont | Potrero | SR-60 | 4th | \$0 | \$0 |
| | Beaumont | SR-79 (Beaumont) | I-10 | California | \$0 | \$0 |
| Pass | Beaumont | SR-79 (Beaumont) | I-10 | interchange | \$63,061,000 | \$7,408,000 |
| | Calimesa | Cherry Valley | I-10 | interchange | \$63,061,000 | \$59,773,000 |
| | Calimesa | Cherry Valley | Roberts St | Roberts Rd | \$3,053,000 | \$3,053,000 |
| | Unincorporated | | Bellflower | Noble | \$6,411,000 | \$6,411,000 |
| | Unincorporated | | Highland Springs | Bellflower | \$0,411,000 | \$0,411,000 |
| | Unincorporated | | Noble | Roberts St | \$0 | \$0 |
| | Unincorporated | | San Timoteo Wash | bridge | \$0 | \$0 |
| | | SR-79 (Lamb Canyon) | California | | \$0 \$0 | \$C |
| | Hemet | | | Gilman Springs | | |
| | | Domenigoni | Warren | Sanderson | \$7,726,000 | \$7,726,000 |
| | Hemet | Domenigoni | Sanderson | State | \$0 | \$05,000,000 |
| | Hemet | SR-74 | Winchester | Warren | \$35,208,000 | \$35,208,000 |
| | San Jacinto | Mid-County (Ramona) | Warren | Sanderson | \$0 | \$0 |
| | San Jacinto | Mid-County (Ramona) | Sanderson/SR-79 (Hemet Bypass) | interchange | \$0 | \$0 |
| | San Jacinto | Ramona | Sanderson | State | \$0 | \$0 |
| San Jacinto | San Jacinto | Ramona | State | Main | \$0 | \$0 |
| San Jacinto | San Jacinto | Ramona | Main | Cedar | \$31,518,000 | \$26,928,000 |
| San Jacinto | San Jacinto | Ramona | Cedar | SR-74 | \$0 | \$0 |
| San Jacinto | Unincorporated | Domenigoni | SR-79 (Winchester) | Warren | \$13,508,000 | \$13,508,000 |
| San Jacinto | Unincorporated | Domenigoni | San Diego Aqueduct | bridge | \$4,176,000 | \$4,176,000 |
| San Jacinto | Unincorporated | Gilman Springs | Bridge | Sanderson | \$0 | \$0 |
| | | Mid-County (Ramona) | Bridge | Warren | \$9,221,000 | \$9,221,000 |
| | Unincorporated | | Briggs | SR-79 (Winchester) | \$15,417,000 | \$15,417,000 |
| | | SR-79 (Hemet Bypass) | SR-74 (Florida) | Domenigoni | \$13,901,000 | \$13,901,000 |
| | | SR-79 (Hemet Bypass) | San Diego Aqueduct | bridge | \$4,176,000 | \$4,176,000 |
| | | | | | | |
| | | SR-79 (Hemet Bypass) | Domenigoni | Winchester | \$6,542,000 | \$6,542,000 |
| | | SR-79 (San Jacinto Bypass) | Mid-County (Ramona) | SR-74 (Florida) | \$56,690,000 | \$56,690,000 |
| | unincorporated | SR-79 (Sanderson) | Gilman Springs | Ramona | \$6,899,000 | \$2,555,000 |
| | | | | | | |
| San Jacinto | Unincorporated | SR-79 (Sanderson) SR-79 (Winchester) | San Jacinto River Domenigoni | bridge Keller | \$19,488,000 \$65,022,000 | \$7,651,000 \$65,022,000 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN D | IST CITY | STREETNAME SEG | SMENTFROM | SEGMENTTO | TOTAL COST | MAXIMUM TUMF SHARE |
|-------------|----------------|---------------------------------|----------------------|----------------------|-----------------|--------------------|
| Southwest | Canyon Lake | Goetz | Railroad Canyon | Newport | \$0 | |
| Southwest | Canyon Lake | Railroad Canyon | Canyon Hills | Goetz | \$0 | |
| Southwest | Lake Elsinore | Railroad Canyon | I-15 | Canyon Hills | \$0 | |
| Southwest | Lake Elsinore | Railroad Canyon | I-15 | interchange | \$0 | |
| Southwest | Lake Elsinore | SR-74 | I-15 | interchange | \$63,061,000 | \$24,162,000 |
| Southwest | Murrieta | Clinton Keith | Copper Craft | Toulon | \$0 | \$0 |
| Southwest | Murrieta | Clinton Keith | Toulon | I-215 | \$2,076,000 | \$2,076,000 |
| Southwest | Murrieta | Clinton Keith | I-215 | Whitewood | \$0 | \$0 |
| Southwest | Murrieta | French Valley (Date) | Murrieta Hot Springs | Winchester Creek | \$7,321,000 | \$7,321,000 |
| Southwest | Murrieta | French Valley (Date) | Winchester Creek | Margarita | \$0 | \$0 |
| Southwest | Murrieta | Whitewood | Menifee City Limit | Keller | \$0 | \$0 |
| Southwest | Murrieta | Whitewood | Keller | Clinton Keith | \$0 | \$0 |
| Southwest | Temecula | French Valley (Cherry) | Jefferson | Diaz | \$3,929,000 | \$3,929,000 |
| Southwest | Temecula | French Valley (Cherry) | Murrieta Creek | bridge | \$5,846,000 | \$5,846,000 |
| Southwest | Temecula | French Valley (Date) | Margarita | Ynez | \$0 | \$0 |
| Southwest | Temecula | French Valley (Date) | Ynez | Jefferson | \$5,010,000 | \$5,010,000 |
| Southwest | Temecula | French Valley (Date) | I-15 | interchange | \$122,076,000 | \$122,076,000 |
| Southwest | Temecula | SR-79 (Winchester) | Murrieta Hot Springs | Jefferson | \$2,697,000 | \$2,697,000 |
| Southwest | Temecula | SR-79 (Winchester) | I-15 | interchange | \$0 | \$0 |
| Southwest | Temecula | Western Bypass (Diaz) | Cherry | Rancho California | \$2,285,000 | \$2,285,000 |
| Southwest | Temecula | Western Bypass (Vincent Moroga) | Rancho California | SR-79 (Front) | \$23,629,000 | \$23,629,000 |
| Southwest | Temecula | Western Bypass (Vincent Moroga) | I-15 | interchange | \$0 | \$0 |
| Southwest | Temecula | Western Bypass (Vincent Moroga) | Murrieta Creek | bridge | \$4,176,000 | \$4,176,000 |
| Southwest | Unincorporated | Benton | SR-79 | Eastern Bypass | \$0 | \$0 |
| Southwest | Unincorporated | Clinton Keith | Whitewood | SR-79 | \$5,539,000 | \$5,539,000 |
| Southwest | Unincorporated | Clinton Keith | Warm Springs Creek | bridge | \$0 | \$0 |
| Southwest | Unincorporated | SR-74 | I-15 | Ethanac | \$27,699,000 | \$26,347,000 |
| Southwest | Unincorporated | SR-79 (Winchester) | Keller | Thompson | \$34,213,000 | \$34,213,000 |
| Southwest | Unincorporated | SR-79 (Winchester) | Thompson | La Alba | \$27,699,000 | \$27,699,000 |
| Southwest | Unincorporated | SR-79 (Winchester) | La Alba | Hunter | \$7,854,000 | \$3,042,000 |
| Southwest | Unincorporated | SR-79 (Winchester) | Hunter | Murrieta Hot Springs | \$595,000 | \$442,000 |
| Southwest | Wildomar | Bundy Canyon | I-15 | Monte Vista | \$1,362,000 | \$1,362,000 |
| Southwest | Wildomar | Bundy Canyon | Monte Vista | Sunset | \$24,818,000 | \$24,818,000 |
| Southwest | Wildomar | Bundy Canyon | I-15 | interchange | \$32,698,000 | \$24,613,000 |
| Southwest | Wildomar | Clinton Keith | Palomar | I-15 | \$0 | \$0 |
| Southwest | Wildomar | Clinton Keith | I-15 | Copper Craft | \$5,030,000 | \$0 |
| Subtotal | | | | | \$2.331.921.000 | \$1.961.707.000 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DIS | | | SEGMENTFROM | SEGMENTTO | TOTAL COST | MAXIMUM TUMF SHARE |
|--------------------|----------------|-----------------------------|-----------------------------|--------------------------|--------------------|--------------------|
| Central | Menifee | Briggs | Newport | Scott | \$0 \$2,991,000 | \$0 |
| Central | Menifee | Briggs | SR-74 (Pinacate) | Simpson | | \$2,991,000 |
| Central | Menifee | Briggs | Simpson | Old Newport | \$5,430,000 | \$5,430,000 |
| Central | Menifee | Briggs | Salt Creek | bridge | \$8,352,000 | \$8,352,000 |
| Central | Menifee | Garbani | I-215 | interchange | \$63,061,000 | \$42,483,000 |
| Central | Menifee | Goetz | Juanita | Lesser Lane | \$11,378,000 | \$11,378,000 |
| Central | Menifee | Goetz | Newport | Juanita | \$0 | \$0 |
| Central | Menifee | Holland | Murrieta | Bradley | \$15,708,000 | \$15,708,000 |
| Central | Menifee | Holland | Bradley | Haun | \$11,439,000 | \$11,439,000 |
| Central | Menifee | Holland | Haun | Antelope | \$9,456,000 | \$9,456,000 |
| Central | Menifee | Holland | I-215 overcrossing | bridge | \$9,744,000 | \$9,744,000 |
| Central | Menifee | Holland | Antelope | Menifee | \$3,844,000 | \$3,844,000 |
| Central | Menifee | McCall | I-215 | | \$5,354,000 | |
| | | | | Aspel | | \$5,354,000 |
| Central | Menifee | McCall | I-215 | interchange | \$0 | \$0 |
| Central | Menifee | McCall | Aspel | Menifee | \$2,288,000 | \$2,288,000 |
| Central | Menifee | Murrieta | Ethanac | McCall | \$0 | \$0 |
| Central | Menifee | Murrieta | McCall | Newport | \$7,967,000 | \$7,967,000 |
| Central | Menifee | Murrieta | Newport | Bundy Canyon | \$0 | \$0 |
| Central | Moreno Valley | Cactus | I-215 | Heacock | \$5,617,000 | \$5,617,000 |
| Central | Moreno Valley | Cactus | I-215 | interchange | \$0 | \$0 |
| Central | Moreno Valley | Day | Ironwood | SR-60 | \$0 | \$0 |
| Central | Moreno Valley | Day | SR-60 | interchange | \$0 | \$0 |
| | | | | | | |
| Central | Moreno Valley | Day | SR-60 | Eucalyptus | \$0 | \$0 |
| Central | Moreno Valley | Eucalyptus | I-215 | Towngate | \$8,843,000 | \$8,843,000 |
| Central | Moreno Valley | Eucalyptus | Towngate | Frederick | \$0 | \$0 |
| Central | Moreno Valley | Eucalyptus | Frederick | Heacock | \$0 | \$0 |
| Central | Moreno Valley | Eucalyptus | Heacock | Kitching | \$0 | \$0 |
| Central | Moreno Valley | Eucalyptus | Kitching | Moreno Beach | \$0 | \$0 |
| Central | Moreno Valley | Eucalyptus | Moreno Beach | Theodore | \$0 | \$0 |
| Central | Moreno Valley | Frederick | SR-60 | Alessandro | \$0 | \$0 |
| Central | Moreno Valley | Heacock | Cactus | San Michele | \$0 | \$0 |
| | , | | | | | |
| Central | Moreno Valley | Heacock | Reche Vista | Cactus | \$0 | \$0 |
| Central | Moreno Valley | Heacock | San Michele | Harley Knox | \$0 | \$0 |
| Central | Moreno Valley | Ironwood | SR-60 | Day | \$0 | \$0 |
| Central | Moreno Valley | Ironwood | Day | Heacock | \$0 | \$0 |
| Central | Moreno Valley | Lasselle | Alessandro | John F Kennedy | \$0 | \$0 |
| Central | Moreno Valley | Lasselle | John F Kennedy | Oleander | \$0 | \$0 |
| Central | Moreno Valley | Moreno Beach | Reche Canyon | SR-60 | \$18,797,000 | \$18,797,000 |
| Central | Moreno Valley | Moreno Beach | SR-60 overcrossing | bridge | \$0 | \$0 |
| Central | Moreno Valley | Nason | SR-60 | Alessandro | \$0 | \$0 |
| | | Pigeon Pass | | SR-60 | \$0 | |
| Central | Moreno Valley | | Ironwood | | | \$0 |
| Central | Moreno Valley | Pigeon Pass/CETAP Corridor | Hidden Springs | Ironwood | \$0 | \$0 |
| Central | Moreno Valley | Reche Canyon | Moreno Valley City Limit | Locust | \$0 | \$0 |
| Central | Moreno Valley | Redlands | Locust | Alessandro | \$39,789,000 | \$39,789,000 |
| Central | Moreno Valley | Redlands | SR-60 | interchange | \$32,698,000 | \$32,698,000 |
| Central | Moreno Valley | Theodore | SR-60 | Eucalyptus | \$3,966,000 | \$3,966,000 |
| Central | Moreno Valley | Theodore | SR-60 | interchange | \$32,698,000 | \$32,698,000 |
| Central | Perris | Ellis | Goetz | Evans | \$9,526,000 | \$9,526,000 |
| Central | Perris | Evans | Oleander | Ramona | \$0 | \$0 |
| Central | Perris | Evans | Ramona | | | |
| | | | | Morgan | \$0 | \$0 |
| Central | Perris | Evans | Morgan | Rider | \$0 | \$0 |
| Central | Perris | Evans | Rider | Placentia | \$0 | \$0 |
| Central | Perris | Evans | Placentia | Nuevo | \$6,492,000 | \$6,492,000 |
| Central | Perris | Evans | Nuevo | Ellis | \$17,705,000 | \$17,705,000 |
| Central | Perris | Evans | San Jacinto River | bridge | \$11,136,000 | \$11,136,000 |
| Central | Perris | Evans | I-215 | bridge | \$8,352,000 | \$8,352,000 |
| Central | Perris | Goetz | Lesser | Ethanac | \$7,845,000 | \$7,845,000 |
| Central | Perris | Harley Knox | I-215 | Indian | \$7,843,000 | \$7,843,000 |
| | | | | | | |
| Central | Perris | Harley Knox | I-215 | interchange | \$0 | \$0 |
| Central | Perris | Harley Knox | Indian | Perris | \$0 | \$0 |
| Central | Perris | Harley Knox | Perris | Redlands | \$0 | \$0 |
| Central | Perris | Nuevo | I-215 | Murrieta | \$16,971,000 | \$16,971,000 |
| Central | Perris | Nuevo | I-215 | interchange | \$32,698,000 | \$19,736,000 |
| Central | Perris | Nuevo | Murrieta | Dunlap | \$4,367,000 | \$4,367,000 |
| Central | Perris | Nuevo | Perris Valley Storm Channel | bridge | \$0 | \$0 |
| Central | Perris | | I-215 | Ethanac | | |
| | | SR-74 (Matthews) | | | \$0 | \$0 |
| Central | | SR-74 (Matthews) | I-215 | interchange | \$32,698,000 | \$21,835,000 |
| Central | Unincorporated | | I-215 | Mt Vernon | \$0 | \$0 |
| Central | Unincorporated | | I-215 | interchange | \$32,698,000 | \$11,912,000 |
| Central | Unincorporated | | BNSF | railroad crossing | \$20,010,000 | \$20,010,000 |
| Central | Unincorporated | | Post | SR-74 | \$11,550,000 | \$11,550,000 |
| Central | | Mount Vernon/CETAP Corridor | | Pigeon Pass | \$2,582,000 | \$2,582,000 |
| | Unincorporated | | Dunlap | Menifee | | |
| Central | | | | | \$8,737,000 | \$2,505,000 |
| Central | Unincorporated | | San Jacinto River | bridge | \$5,568,000 | \$5,568,000 |
| Central | | Pigeon Pass/CETAP Corridor | Hidden Springs | Mount Vernon | \$8,106,000 | \$8,106,000 |
| O I I | Unincorporated | Post | Santa Rosa Mine | Ellis | \$0 | \$0 |
| Central | | | | | | |
| Central Central | Unincorporated | Reche Canyon | Reche Vista | Moreno Valley City Limit | \$0 | \$0 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DIS | | STREETNAME | SEGMENTFROM | SEGMENTTO | | MUM TUMF SHARE |
|---------------------------------------------------------------|-------------------------|--------------------------------|-----------------------|--------------------------|---------------|----------------|
| Northwest | Corona | 6th | SR-91 | Magnolia | \$0 | \$0 |
| Northwest | Corona | Auto Center | Railroad | SR-91 | \$0 | \$0 |
| Northwest | Corona | Cajalco | Bedford Canyon | I-15 | \$0 | \$0 |
| Northwest | Corona | Hidden Valley | Norco Hills | McKinley | \$0 | \$0 |
| Northwest | Corona | Lincoln | Parkridge | Ontario | \$0 | \$0 |
| Northwest | Corona | Magnolia | 6th | Sherborn | \$7,054,000 | \$6,419,000 |
| Northwest | Corona | Magnolia | Temescal Creek | bridge | \$4,176,000 | \$3,580,000 |
| Northwest | Corona | Magnolia | Sherborn | Rimpau | \$0 | \$0 |
| Northwest | Corona | Magnolia | Rimpau | Ontario | \$0 | \$0 |
| Northwest | Corona | Main | Grand | Ontario | \$0 | \$0 |
| Northwest | Corona | Main | Ontario | Foothill | \$0 | \$0 |
| Northwest | Corona | Main | | | \$5,314,000 | \$4,389,000 |
| | | | Hidden Valley | Parkridge | | |
| Northwest | Corona | Main | Parkridge | SR-91 | \$0 | \$0 |
| Northwest | Corona | Main | SR-91 | S. Grand | \$0 | \$0 |
| Northwest | Corona | McKinley | Hidden Valley | Promenade | \$0 | \$0 |
| Northwest | Corona | McKinley | Promenade | SR-91 | \$0 | \$0 |
| Northwest | Corona | McKinley | SR-91 | Magnolia | \$0 | \$0 |
| Northwest | Corona | McKinley | Arlington Channel | bridge | \$0 | \$0 |
| Northwest | Corona | McKinley | BNSF | railroad crossing | \$105,560,000 | \$0 |
| Northwest | Corona | Ontario | I-15 | El Cerrito | \$13,451,000 | \$13,451,000 |
| Northwest | Corona | Ontario | Lincoln | Buena Vista | \$0 | \$0 |
| Northwest | Corona | Ontario | Buena Vista | Main | \$0 | \$0 |
| Northwest | Corona | Ontario | Main | Kellogg | \$0 | \$0 |
| | | | | | | |
| Northwest | Corona | Ontario | Kellogg | Fullerton | \$0 | \$0 |
| Northwest | Corona | Ontario | Fullerton | Rimpau | \$0 | \$0 |
| Northwest | Corona | Ontario | Rimpau | I-15 | \$0 | \$0 |
| Northwest | Corona | Railroad | Auto Club | Buena Vista | \$0 | \$0 |
| Northwest | Corona | Railroad | BNSF | railroad crossing | \$40,020,000 | \$40,020,000 |
| Northwest | Corona | Railroad | Buena Vista | Main (at Grand) | \$0 | \$0 |
| Northwest | Corona | River | Corydon | Main | \$0 | \$0 |
| Northwest | Corona | Serfas Club | SR-91 | Green River | \$0 | \$0 |
| Northwest | Eastvale | Archibald | Remington | River | \$3,382,000 | \$3,382,000 |
| Northwest | Eastvale | Hamner | Mission | Bellegrave | | |
| | | | | | \$0 | \$0 |
| Northwest | Eastvale | Hamner | Bellegrave | Amberhill | \$199,000 | \$199,000 |
| Northwest | Eastvale | Hamner | Amberhill | Limonite | \$2,787,000 | \$2,787,000 |
| Northwest | Eastvale | Hamner | Limonite | Schleisman | \$991,000 | \$991,000 |
| Northwest | Eastvale | Hamner | Schleisman | Santa Ana River | \$5,533,000 | \$3,675,000 |
| Northwest | Eastvale | Hellman | Schleisman | Walters | \$419,000 | \$419,000 |
| Northwest | Eastvale | Hellman | Walters | River | \$21,503,000 | \$21,503,000 |
| Northwest | Eastvale | Hellman | Cucamonga Creek | bridge | \$3,828,000 | \$3,828,000 |
| Northwest | Eastvale | Limonite | I-15 | Eastvale Gateway | \$289,000 | \$289,000 |
| Northwest | Eastvale | Limonite | I-15 | interchange | \$0 | \$0 |
| Northwest | Eastvale | Limonite | Eastvale Gateway | Hamner | \$255,000 | \$255,000 |
| | Eastvale | | | | \$1,094,000 | |
| Northwest | | Limonite | Hamner | Sumner | | \$1,094,000 |
| Northwest | Eastvale | Limonite | Sumner | Harrison | \$497,000 | \$497,000 |
| Northwest | Eastvale | Limonite | Harrison | Archibald | \$0 | \$0 |
| Northwest | Eastvale | Limonite | Archibald | Hellman (Keller SBD Co.) | \$2,208,000 | \$2,208,000 |
| Northwest | Eastvale | Limonite | Cucamonga Creek | bridge | \$13,920,000 | \$0 |
| Northwest | Eastvale | River | Hellman | Archibald | \$5,948,000 | \$5,948,000 |
| Northwest | Jurupa Valley | Armstrong | San Bernardino County | Valley | \$6,192,000 | \$6,192,000 |
| Northwest | Jurupa Valley | Bellegrave | Cantu-Galleano Ranch | Van Buren | \$464,000 | \$464,000 |
| Northwest | Jurupa Valley | Cantu-Galleano Ranch | Wineville | Bellegrave | \$793,000 | \$793,000 |
| Northwest | Jurupa Valley | Etiwanda | Philadelphia | SR-60 | \$1,515,000 | \$989,000 |
| | | | | | | |
| Northwest | Jurupa Valley | Etiwanda | SR-60 | Limonite | \$0 | \$0 |
| Northwest | Jurupa Valley | Limonite | I-15 | Wineville | \$0 | \$0 |
| Northwest | Jurupa Valley | Limonite | Wineville | Etiwanda | \$0 | \$0 |
| Northwest | Jurupa Valley | Limonite | Etiwanda | Van Buren | \$2,981,000 | \$2,981,000 |
| Northwest | Jurupa Valley | Limonite | Van Buren | Clay | \$0 | \$0 |
| Northwest | Jurupa Valley | Limonite | Clay | Riverview | \$0 | \$0 |
| Northwest | Jurupa Valley | Market | Rubidoux | Santa Ana River | \$5,181,000 | \$0 |
| Northwest | Jurupa Valley | Market | Santa Ana River | bridge | \$13,920,000 | \$6,204,000 |
| Northwest | Jurupa Valley | Mission | Milliken | SR-60 | \$0 | \$0 |
| Northwest | Jurupa Valley | Mission | SR-60 | Santa Ana River | \$0 | \$0 |
| Northwest | Jurupa Valley | Riverview | Limonite | Mission | \$0 | \$0 |
| | | | Pine | | | \$0 |
| Northwest | Jurupa Valley | Rubidoux | | Mission | \$0 | |
| Northwest | Jurupa Valley | Rubidoux | SR-60 | interchange | \$32,698,000 | \$9,051,000 |
| Northwest | Jurupa Valley | Valley | Armstrong | Mission | \$0 | \$0 |
| Northwest | Norco | 1 st | Parkridge | Mountain | \$0 | \$0 |
| Northwest | Norco | 1 st | Mountain | Hamner | \$0 | \$0 |
| Northwest | Norco | 2nd | River | I-15 | \$0 | \$0 |
| Northwest | Norco | 6th | Hamner | California | \$0 | \$0 |
| Northwest | Norco | 6th | I-15 | interchange | \$32,698,000 | \$3,489,000 |
| Northwest | Norco | Arlington | Crestview | Fairhaven | \$4,342,000 | \$4,342,000 |
| | Norco | California | Arlington | 6th | \$15,237,000 | \$12,525,000 |
| | | | | 5th | | |
| Northwest | Norco | Corydon | River | | \$0 | \$0 |
| Northwest | | Hamner | Santa Ana River | bridge | \$33,408,000 | \$11,455,000 |
| Northwest Northwest | Norco | | | Hidden Valley | \$49,591,000 | \$49,591,000 |
| Northwest Northwest Northwest | Norco | Hamner | Santa Ana River | | | |
| Northwest Northwest | | Hidden Valley | I-15 | Norco Hills | \$0 | \$0 |
| Northwest Northwest Northwest | Norco | | | | | |
| Northwest Northwest Northwest Northwest | Norco Norco | Hidden Valley | I-15 | Norco Hills | \$0 | \$0 |
| Northwest Northwest Northwest Northwest Northwest | Norco Norco Norco | Hidden Valley Hidden Valley | I-15 Hamner | Norco Hills I-15 | \$0 \$0 | \$0 \$0 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DIS | | STREETNAME 14th | SEGMENTFROM | SEGMENTTO | TOTAL COST MAXI | MUM TUMF SHARE |
|-------------------------------------|----------------|----------------------|------------------------|-----------------------------------|---------------------|---------------------|
| Northwest | Riverside | | Market | Martin Luther King | \$0 | \$0 |
| Northwest | Riverside | 1st 3rd | Market SR-91 | Main | \$0 | \$0 |
| Northwest | Riverside | ora | 01(/ 1 | I-215 | \$1,941,000 | \$1,941,000 |
| Northwest | Riverside | 3rd | BNSF | railroad crossing | \$105,560,000 | \$30,560,000 |
| Northwest | Riverside | Adams | Arlington | SR-91 | \$0 | \$0 |
| Northwest | Riverside | Adams | SR-91 | Lincoln | \$0 | \$0 |
| Northwest | Riverside | Adams | SR-91 | interchange | \$32,698,000 | \$3,262,000 |
| Northwest | Riverside | Arlington | Fairhaven | La Sierra | \$0 | \$0 |
| Northwest | Riverside | Buena Vista | Santa Ana River | Redwood | \$0 | \$0 |
| Northwest | Riverside | Canyon Crest | Martin Luther King | Central | \$0 | \$0 |
| Northwest | Riverside | Canyon Crest | Central | Country Club | \$0 | \$0 |
| Northwest | Riverside | Canyon Crest | Country Club | Via Vista | \$4,996,000 | \$1,593,000 |
| Northwest | Riverside | Canyon Crest | Via Vista | Alessandro | \$0 | \$0 |
| Northwest | Riverside | Central | Chicago | I-215/SR-60 | \$0 | \$0 |
| Northwest | Riverside | Central | SR-91 | Magnolia | \$0 | \$0 |
| Northwest | Riverside | Central | Alessandro | SR-91 | \$0 | \$0 |
| Northwest | Riverside | Central | Van Buren | Magnolia | \$0 | \$0 |
| Northwest | Riverside | Chicago | Alessandro | Spruce | \$0 | \$0 |
| Vorthwest | Riverside | Chicago | Spruce | Columbia | \$0 | \$0 |
| Northwest | Riverside | Columbia | Main | lowa | \$0 | \$0 |
| Vorthwest | Riverside | Columbia | I-215 | interchange | \$32,698,000 | \$9,050,000 |
| | | | | | | |
| Vorthwest | Riverside | lowa | Center | 3rd | \$30,272,000 | \$30,272,000 |
| lorthwest | Riverside | lowa | 3rd | University | \$0 | \$0 |
| lorthwest | Riverside | lowa | University | Martin Luther King | \$0 | \$0 |
| orthwest | Riverside | JFK | Trautwein | Wood | \$1,880,000 | \$1,880,000 |
| Iorthwest | Riverside | La Sierra | Arlington | SR-91 | \$0 | \$0 |
| orthwest | Riverside | La Sierra | SR-91 | Indiana | \$192,000 | \$192,000 |
| lorthwest | Riverside | La Sierra | Indiana | Victoria | \$778,000 | \$778,000 |
| lorthwest | Riverside | Lemon (NB One way) | Mission Inn | University | \$0 | \$0 |
| lorthwest | Riverside | Lincoln | Van Buren | Jefferson | \$0 | \$0 |
| lorthwest | Riverside | Lincoln | Jefferson | Washington | \$0 | \$0 |
| orthwest | Riverside | Lincoln | Washington | Victoria | \$0 | \$0 |
| orthwest | Riverside | Madison | SR-91 | Victoria | \$853,000 | \$853,000 |
| Iorthwest | Riverside | Madison | BNSF | railroad crossing | \$20,010,000 | \$20,010,000 |
| | Riverside | | BNSF Railroad | | | |
| orthwest | | Magnolia | | Tyler | \$0 | \$0 |
| lorthwest | Riverside | Magnolia | BNSF | railroad crossing | \$0 | \$0 |
| Iorthwest | Riverside | Magnolia | Tyler | Harrison | \$0 | \$0 |
| Iorthwest | Riverside | Magnolia | Harrison | 14th | \$0 | \$0 |
| lorthwest | Riverside | Main | 1st | San Bernardino County | \$0 | \$0 |
| Vorthwest | Riverside | Market | 14th | Santa Ana River | \$9,491,000 | \$9,491,000 |
| Vorthwest | Riverside | Martin Luther King | 14th | I-215/SR-60 | \$24,031,000 | \$24,031,000 |
| Vorthwest | Riverside | Mission Inn | Redwood | Lemon | \$0 | \$0 |
| Vorthwest | Riverside | Redwood (SB One way) | Mission Inn | University | \$0 | \$0 |
| lorthwest | Riverside | Trautwein | Alessandro | Van Buren | \$0 | \$0 |
| Vorthwest | Riverside | Tyler | SR-91 | Magnolia | \$0 | \$0 |
| lorthwest | Riverside | Tyler | SR-91 | interchange | \$63,061,000 | \$21,814,000 |
| Vorthwest | Riverside | Tyler | Magnolia | Hole | \$0 | \$0 |
| Vorthwest | Riverside | Tyler | Hole | Wells | \$0 \$0 | \$0 |
| | Riverside | Tyler | Wells | | \$0 \$0 | |
| lorthwest | | | | Arlington | | \$0 |
| orthwest | Riverside | University | Redwood | SR-91 | \$859,000 | \$859,000 |
| orthwest | Riverside | University | SR-91 | I-215/SR-60 | \$2,067,000 | \$2,067,000 |
| Iorthwest | Riverside | Victoria | Lincoln | Arlington | \$0 | \$0 |
| orthwest | Riverside | Victoria | Madison | Washington | \$0 | \$0 |
| orthwest | Riverside | Washington | Victoria | Hermosa | \$27,018,000 | \$27,018,000 |
| orthwest | Riverside | Wood | JFK | Van Buren | \$3,053,000 | \$3,053,000 |
| Iorthwest | Riverside | Wood | Van Buren | Bergamont | \$0 | \$0 |
| orthwest | Riverside | Wood | Bergamont | Krameria | \$0 | \$0 |
| orthwest | Unincorporated | Cantu-Galleano Ranch | Hamner | Wineville | \$0 | \$0 |
| orthwest | | Dos Lagos (Weirick) | Temescal Canyon | I-15 | \$0 | \$0 |
| orthwest | Unincorporated | | I-15 | Ontario | \$0 | \$(|
| orthwest | Unincorporated | | Mockingbird Canyon | Cajalco | \$0 | \$0 |
| orthwest | Unincorporated | | Washington | Scottsdale | \$0 | \$(|
| orthwest | Unincorporated | | Scottsdale | Cajalco | \$0 \$0 | \$(|
| orthwest | Unincorporated | | Victoria | El Sobrante | \$0 \$0 | \$1 |
| | | | | | | |
| orthwest | Unincorporated | | El Sobrante | Cajalco | \$0 | \$00.071.000 |
| orthwest | | Mockingbird Canyon | Van Buren | El Sobrante | \$20,871,000 | \$20,871,000 |
| orthwest | | Temescal Canyon | El Cerrito | Tuscany | \$3,168,000 | \$0 |
| orthwest | | Temescal Canyon | Tuscany | Dos Lagos | \$0 | \$0 |
| orthwest | | Temescal Canyon | Dos Lagos | Leroy | \$0 | \$0 |
| orthwest | Unincorporated | Temescal Canyon | Leroy | Dawson Canyon | \$0 | \$0 |
| orthwest | | Temescal Canyon | Dawson Canyon | I-15 | \$0 | \$(|
| Jorthwest | | Temescal Canyon | I-15 | interchange | \$32,698,000 | \$32,698,000 |
| | | Temescal Canyon | I-15 | Park Canyon | \$14,329,000 | \$14,329,000 |
| | Unincorporated | | | | | Ψ14,027,001 |
| lorthwest | | | Park Canyon | Indian Truck Trail | | 41 |
| Northwest Northwest Northwest | | Temescal Canyon | Park Canyon Hermosa | Indian Truck Trail Harley John | \$0 \$12,787,000 | \$0 \$12,787,000 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DI | | STREETNAME | SEGMENTFROM | SEGMENTTO | | MAXIMUM TUMF SHARE |
|--------------|----------------|-----------------------|-----------------------------------|-----------------------|--------------|--------------------|
| Pass | Banning | 8th | Wilson | I-10 | \$0 | \$0 |
| Pass | Banning | Lincoln | Sunset | SR-243 | \$0 | \$0 |
| Pass | Banning | Ramsey | I-10 | 8th | \$0 | \$0 |
| Pass | Banning | Ramsey | 8th | Highland Springs | \$0 | \$0 |
| Pass | Banning | SR-243 | I-10 | Wesley | \$0 | \$0 |
| Pass | Banning | Sun Lakes | Highland Home | Sunset | \$30,502,000 | \$30,502,000 |
| Pass | Banning | Sun Lakes | Smith Creek | bridge | \$8,352,000 | \$8,352,000 |
| Pass | Banning | Sun Lakes | Montgomery Creek | bridge | \$5,568,000 | \$5,568,000 |
| Pass | Banning | Sun Lakes | Highland Springs | Highland Home | \$0 | \$0 |
| Pass | Banning | Sunset | Ramsey | Lincoln | \$0 | \$0 |
| Pass | Banning | Sunset | I-10 | interchange | \$32,698,000 | \$32,698,000 |
| Pass | Banning | Wilson | Highland Home | 8th | \$0 | \$0 |
| Pass | Banning | Wilson | Highland Springs | Highland Home | \$0 | \$0 |
| Pass | Beaumont | 1st | Viele | Pennsylvania | \$0 | \$0 |
| Pass | Beaumont | 1st | Pennsylvania | Highland Springs | \$0 | \$0 |
| Pass | Beaumont | 6th | I-10 | Highland Springs | \$0 | \$0 |
| Pass | Beaumont | Desert Lawn | Champions | Oak Valley (STC) | \$0 | \$0 |
| Pass | Beaumont | Oak Valley (14th) | Highland Springs | Pennsylvania | \$0 | \$0 |
| Pass | Beaumont | Oak Valley (14th) | Pennsylvania | Oak View | \$0 | \$0 |
| Pass | Beaumont | Oak Valley (14th) | Oak View | I-10 | \$0 | \$0 |
| Pass | Beaumont | Oak Valley (14th) | I-10 | interchange | \$63,061,000 | \$62,401,000 |
| Pass | Beaumont | Oak Valley (STC) | UP Railroad | Tukwet Canyon | \$0 | \$0 |
| Pass | Beaumont | Oak Valley (STC) | Tukwet Canyon | I-10 | \$0 | \$0 |
| Pass | Beaumont | Pennsylvania | 6th | 1st | \$6,588,000 | \$6,588,000 |
| Pass | Beaumont | Pennsylvania | I-10 | interchange | \$0 | \$0 |
| Pass | Calimesa | Bryant | County Line | Avenue L | \$0 | \$0 |
| Pass | Calimesa | Calimesa | County Line | I-10 | \$0 | \$0 |
| Pass | Calimesa | Calimesa | I-10 | interchange | \$63,061,000 | \$63,061,000 |
| Pass | Calimesa | County Line | 7th | Bryant | \$0 | \$0 |
| Pass | Calimesa | County Line | I-10 | interchange | \$32,698,000 | \$32,698,000 |
| Pass | Calimesa | Desert Lawn | Palmer | Champions | \$0 | \$0 |
| Pass | Calimesa | Singleton | Avenue L | Condit | \$0 | \$0 |
| Pass | Calimesa | Singleton | Condit | Roberts | \$12,972,000 | \$12,972,000 |
| Pass | Calimesa | Singleton | I-10 | interchange | \$63,061,000 | \$0 |
| Pass | Calimesa | Tukwet Canyon | Roberts Rd | Palmer | \$0 | \$0 |
| Pass | Unincorporated | Live Oak Canyon | Oak Valley (STC) | San Bernardino County | \$0 | \$0 |
| Pass | | San Timoteo Canyon | San Bernardino County | UP Railroad | \$0 | \$0 |
| Pass | | San Timoteo Canyon | UP Railroad | railroad crossing | \$52,780,000 | \$52,780,000 |
| San Jacinto | Hemet | Sanderson | Acacia | Menlo | \$0 | \$0 |
| San Jacinto | Hemet | Sanderson | Domenigoni | Stetson | \$0 | \$0 |
| San Jacinto | Hemet | Sanderson | RR Crossing | Acacia | \$0 | \$0 |
| San Jacinto | Hemet | Sanderson | Stetson | RR Crossing | \$0 | \$0 |
| San Jacinto | Hemet | Sanderson | Menlo | Esplanade | \$0 | \$0 |
| San Jacinto | Hemet | SR-74 (Florida) | Warren | Cawston | \$0 | \$0 |
| San Jacinto | Hemet | SR-74 (Florida) | Columbia | Ramona | \$0 | \$0 |
| San Jacinto | Hemet | SR-74/SR-79 (Florida) | Cawston | Columbia | \$0 | \$0 |
| San Jacinto | Hemet | State | Domenigoni | Chambers | \$0 | \$0 |
| San Jacinto | Hemet | State | Chambers | Stetson | \$0 | \$0 |
| San Jacinto | Hemet | State | Florida | Esplanade | \$0 | \$0 |
| San Jacinto | Hemet | State | Stetson | Florida | \$0 | \$0 |
| San Jacinto | Hemet | Stetson | Cawston | State | \$0 | \$0 |
| San Jacinto | Hemet | Stetson | Warren | Cawston | \$4,357,000 | \$4,357,000 |
| San Jacinto | Hemet | Warren | Esplanade | Domenigoni | \$19,926,000 | \$19,926,000 |
| San Jacinto | Hemet | Warren | Salt Creek | bridge | \$4,176,000 | \$4,176,000 |
| San Jacinto | San Jacinto | Esplanade | Mountain | State | \$4,176,000 | \$0 |
| San Jacinto | San Jacinto | Esplanade | State | Warren | \$0 | \$0 |
| San Jacinto | San Jacinto | Sanderson | Ramona | Esplanade | \$0 | \$0 |
| San Jacinto | San Jacinto | SR-79 (North Ramona) | State | San Jacinto | \$0 | \$0 |
| San Jacinto | San Jacinto | SR-79 (San Jacinto) | North Ramona Blvd | 7th | \$0 | \$0 |
| San Jacinto | San Jacinto | SR-79 (San Jacinto) | 7th | SR-74 | \$0 \$0 | \$0 \$0 |
| San Jacinto | San Jacinto | State | Ramona | Esplanade | \$0 \$0 | \$0 \$0 |
| San Jacinto | San Jacinto | State | Gilman Springs | Quandt Ranch | \$3,317,000 | \$3,317,000 |
| | San Jacinto | State State | San Jacinto River | | \$3,317,000 | \$3,317,000 |
| San Jacinto | | | San Jacinto kiver Quandt Ranch | bridge | \$0 \$0 | \$0 \$0 |
| San Jacinto | San Jacinto | State | Ramona | Ramona | | |
| San Jacinto | San Jacinto | Warren | | Esplanade | \$13,469,000 | \$13,469,000 |
| San Jacinto | Unincorporated | | Sanderson | State | \$11,097,000 | \$11,097,000 |
| San Jacinto | Unincorporated | | Massacre Canyon Wash | bridge | \$1,392,000 | \$1,392,000 |
| San Jacinto | unincorporated | SR-79 (Winchester) | SR-74 (Florida) | Domenigoni | \$0 | \$0 |

Table 4.4 - TUMF Network Cost Estimates (continued)

| AREA PLAN DIS | | STREETNAME | SEGMENTFROM | SEGMENTTO | | (IMUM TUMF SHAR |
|-----------------------|---------------------------|-------------------------------------------------------|------------------------|----------------------------|--------------------------------|--------------------------------------------------------------------------------------|
| Southwest | Lake Elsinore | Corydon | Mission | Grand | \$3,336,000 | \$3,336,00 |
| Southwest | Lake Elsinore | Diamond | Mission | I-15 | \$0 | \$ |
| Southwest | Lake Elsinore | Franklin (integral to Railroad Canyon Interchange) | I-15 | interchange | \$32,698,000 | \$32,698,00 |
| Southwest | Lake Elsinore | Grand | Lincoln | Toft | \$0 | \$ |
| Southwest | Lake Elsinore | Grand | Toff | SR-74 (Riverside) | \$3,512,000 | \$3,512,00 |
| Southwest | Lake Elsinore | Lake | I-15 | Lincoln | \$39,817,000 | \$32,726,00 |
| Southwest | Lake Elsinore | Lake | I-15 | | \$32,698,000 | \$15,771,00 |
| Southwest | | Lake | Temescal Wash | interchange | | |
| | Lake Elsinore | | | bridge | \$2,506,000 | \$1,150,00 |
| Southwest | Lake Elsinore | Mission | Railroad Canyon | Bundy Canyon | \$0 | \$ 7.050.00 |
| Southwest | Lake Elsinore | Nichols | I-15 | Lake | \$7,850,000 | \$7,850,00 |
| Southwest | Lake Elsinore | Nichols | Temescal Wash | bridge | \$4,176,000 | \$4,176,00 |
| Southwest | Lake Elsinore | Nichols | I-15 | interchange | \$63,061,000 | \$63,061,00 |
| Southwest | Lake Elsinore | SR-74 (Collier/Riverside) | I-15 | Lakeshore | \$24,303,000 | \$24,303,00 |
| Southwest | Lake Elsinore | SR-74 (Grand) | Riverside | SR-74 (Ortega) | \$9,733,000 | \$3,691,00 |
| Southwest | Lake Elsinore | SR-74 (Riverside) | Lakeshore | Grand | \$20,175,000 | \$20,175,00 |
| Southwest | Lake Elsinore | Temescal Canyon | I-15 | Lake | \$7,411,000 | \$7,411,00 |
| Southwest | Lake Elsinore | Temescal Canyon | Temescal Wash | bridge | \$3,480,000 | \$3,480,00 |
| Southwest | Murrieta | California Oaks | Jefferson | I-15 | \$0 | \$ |
| Southwest | Murrieta | California Oaks | I-15 | Jackson | \$0 | \$ |
| Southwest | Murrieta | California Oaks | Jackson | Clinton Keith | \$0 | \$ |
| Southwest | Murrieta | Jackson | Whitewood | Ynez | \$0 | \$ |
| Southwest | Murrieta | Jefferson | Palomar | Nutmeg | \$1,562,000 | \$1,562,00 |
| | | | | | | |
| Southwest | Murrieta | Jefferson | Nutmeg | Murrieta Hot Springs | \$0 \$30,434,000 | \$20,424,00 |
| Southwest | Murrieta | Jefferson | Murrieta Hot Springs | Cherry | \$30,634,000 | \$30,634,00 |
| Southwest | Murrieta | Keller | I-215 | Whitewood | \$0 | \$ |
| Southwest | Murrieta | Keller | I-215 | interchange | \$0 | \$ |
| Southwest | Murrieta | Los Alamos | Jefferson | I-215 | \$0 | \$ |
| Southwest | Murrieta | Murrieta Hot Springs | Jefferson | I-215 | \$0 | \$ |
| Southwest | Murrieta | Murrieta Hot Springs | I-215 | Margarita | \$0 | \$ |
| Southwest | Murrieta | Murrieta Hot Springs | Margarita | SR-79 (Winchester) | \$4,057,000 | \$3,899,00 |
| Southwest | Murrieta | Nutmeg | Jefferson | Clinton Keith | \$0 | \$ |
| Southwest | Murrieta | Whitewood | Clinton Keith | Los Alamos | \$2,708,000 | \$2,708,00 |
| Southwest | Murrieta | Whitewood | Los Alamos | Murrieta Hot Springs | \$0 | \$ |
| Southwest | Murrieta | Whitewood | Murrieta Hot Springs | Jackson | \$4,629,000 | \$4.629.00 |
| Southwest | Murrieta | Ynez | Jackson | SR-79 (Winchester) | \$0 | \$4,027,00 |
| | | | | | | |
| Southwest | Temecula | Butterfield Stage | Murrieta Hot Springs | Calle Chapos | \$816,000 | \$816,00 |
| Southwest | Temecula | Butterfield Stage | Calle Chapos | La Serena | \$696,000 | \$696,00 |
| Southwest | Temecula | Butterfield Stage | La Serena | Rancho California | \$904,000 | \$904,00 |
| Southwest | Temecula | Butterfield Stage | Rancho California | Pauba | \$846,000 | \$846,00 |
| Southwest | Temecula | Butterfield Stage | Pauba | SR-79 (Temecula Pkwy) | \$725,000 | \$725,00 |
| Southwest | Temecula | Jefferson | Cherry | Rancho California | \$2,285,000 | \$2,285,00 |
| Southwest | Temecula | Margarita | Murrieta Hot Springs | SR-79 (Temecula Pkwy) | \$7,644,000 | \$7,644,00 |
| Southwest | Temecula | Old Town Front | Rancho California | I-15/SR-79 (Temecula Pkwy) | \$0 | \$ |
| Southwest | Temecula | Pechanga Pkwy | SR-79 (Temecula Pkwy) | Via Gilberto | \$O | \$ |
| Southwest | Temecula | Pechanga Pkwy | Via Gilberto | Pechanga Pkwy | \$0 | \$ |
| Southwest | Temecula | Rancho California | Jefferson | Margarita | \$18,254,000 | \$18,181,00 |
| Southwest | Temecula | Rancho California | I-15 | interchange | \$32,698,000 | \$10,101,00 |
| Southwest | Temecula | Rancho California | Margarita | Butterfield Stage | \$0 | \$ |
| | | | | | | |
| Southwest | Temecula | SR-79 (Temecula Pkwy) | I-15 | Pechanga Pkwy | \$0 | \$ 0.015.00 |
| Southwest | Temecula | SR-79 (Temecula Pkwy) | Pechanga Pkwy | Butterfield Stage | \$3,065,000 | \$3,065,00 |
| Southwest | Unincorporated | | Scott | SR-79 (Winchester) | \$6,509,000 | \$6,509,00 |
| Southwest | | Butterfield Stage | Tucalota Creek | bridge | \$0 | \$ |
| Southwest | Unincorporated | Butterfield Stage (Pourroy) | Auld | Murrieta Hot Springs | \$23,076,000 | \$23,076,00 |
| Southwest | Unincorporated | Grand | Ortega | Corydon | \$68,025,000 | \$68,025,00 |
| outhwest | Unincorporated | Horsethief Canyon | Temescal Canyon | I-15 | \$0 | \$ |
| Southwest | Unincorporated | Indian Truck Trail | Temescal Canyon | I-15 | \$0 | \$ |
| Southwest | | Murrieta Hot Springs | SR-79 (Winchester) | Pourroy | \$O | \$ |
| Southwest | Unincorporated | | Pechanga | San Diego County | \$0 | \$ |
| Southwest | Unincorporated | | SR-79 (Winchester) | Auld | \$2,236,000 | \$2,236,00 |
| Southwest | | Rancho California | Butterfield Stage | Glen Oaks | \$87,369,000 | \$87,369,00 |
| Southwest | | Temescal Canyon | Horsethief Canyon Wash | bridge | \$3,340,000 | \$3,340,00 |
| | | | | | \$15,739,000 | |
| Southwest | | Temescal Canyon | Indian Truck Trail | I-15 | | \$15,739,00 |
| Southwest | | Temescal Canyon | Indian Wash | bridge | \$1,462,000 | \$1,462,00 |
| Southwest | Wildomar | Bundy Canyon | Mission | I-15 | \$9,704,000 | \$9,704,00 |
| outhwest | Wildomar | Grand | Corydon | Wildomar Trail | \$0 | 5 |
| Southwest | Wildomar | Mission | Bundy Canyon | Palomar | \$0 | 9 |
| Southwest | Wildomar | Palomar | Clinton Keith | Washington | \$3,227,000 | \$3,227,00 |
| Southwest | Wildomar | Palomar | Mission | Clinton Keith | \$13,493,000 | \$13,493,00 |
| Southwest | Wildomar | Wildomar Trail | I-15 | Baxter | \$1,281,000 | \$1,281,00 |
| Southwest | Wildomar | Wildomar Trail | I-15 | interchange | \$32,698,000 | \$27,858,00 |
| Southwest | Wildomar | Wildomar Trail | Baxter | Palomar | \$11,316,000 | \$11,316,00 |
| | Wildomar | Wildomar Trail | Palomar | Grand | \$11,516,000 | \$11,510,00 |
| | HIGOHIGI | gornar man | . Giornai | Sidild | | \$1,913,028,00 |
| | | | | | \$2,508,329,000 | φ1,713,U26,UU |
| Southwest Subtotal | | | | | | |
| Subtotal | Makuari | | | | £ 4 0 40 050 000 | ¢2 07 4 70 5 00 |
| | Network | | | | \$4,840,250,000 | |
| Subtotal | Transit | | " | | \$217,870,000 | \$154,831,00 |
| ubtotal | Transit Administration | | | | \$217,870,000 \$161,183,000 | \$154,831,000 \$161,183,000 |
| ubtotal | Transit | | | | \$217,870,000 | \$3,874,735,000 \$154,831,000 \$161,183,000 \$53,859,000 \$4,244,608,000 |

Table 4.5 – TUMF Transit Cost Estimates

| AREA PLAN DIST | LEAD AGENCY | PROJECT NAME | LOCATION | UNITS (number/ length in miles) | UNIT COST | TOTAL | MAXIMUM TUMF SHARE |
|-------------------|----------------|-------------------------------------------------|-------------------------------|------------------------------------|--------------|---------------|-----------------------|
| Central | RTA | Menifee Mobility Hub | Menifee | 1 | \$7,465,000 | \$7,465,000 | \$5,305,000 |
| Northwest | RTA | Riverside Mobility Hub at Vine Street | Riverside | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| Central | RTA | Moreno Valley Mobility Hub(s) | Moreno Valley | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| Northwest | RTA | Jurupa Valley Mobility Hub(s) | Jurupa Valley | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| Pass | RTA | Pass Area Mobility Hub(s) | Banning | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| Southwest | RTA | Lake Elsinore / Canyon Lake Mobility Hub(s) | Lake Elsinore | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| San Jacinto | RTA | Hemet Mobility Hub | Hemet | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| San Jacinto | RTA | San Jacinto Mobility Hub | San Jacinto | 1 | \$11,195,000 | \$11,195,000 | \$7,956,000 |
| San Jacinto | RTA | MSJC Mobility Hub | San Jacinto | 1 | \$1,245,000 | \$1,245,000 | \$885,000 |
| Regional | RTA | ZEB Technology Enhancements | Various locations region wide | 10 | \$100,000 | \$1,000,000 | \$711,000 |
| Northwest | RTA | Regional Operations and Maintenance Facility | Riverside | 1 | \$62,186,000 | \$62,186,000 | \$44,192,000 |
| Regional | RTA | Annual Transit Enhancements Program | Various locations region wide | 290 | \$50,000 | \$14,500,000 | \$10,304,000 |
| Northwest | RTA | HQTC Improvements | UCR, Riverside to Perris | 42 | \$75,000 | \$3,150,000 | \$2,239,000 |
| Regional | RTA | Vehicle Fleet Small Buses/Vans | Various locations region wide | 30 | \$160,000 | \$4,800,000 | \$3,411,000 |
| Regional | RTA | Vehicle Fleet Medium Buses | Various locations region wide | 20 | \$300,000 | \$6,000,000 | \$4,264,000 |
| Regional | RTA | Vehicle Fleet Large Buses | Various locations region wide | 29 | \$1,271,000 | \$36,859,000 | \$26,194,000 |
| Regional | RTA | COA Study | Various locations region wide | 2 | \$1,150,000 | \$2,300,000 | \$1,634,000 |
| TOTAL | | | | | | \$217,870,000 | \$154,831,000 |

4.8 TUMF Network Evaluation

To assess the effectiveness of the proposed TUMF Network improvements to mitigate the cumulative regional impact of new development in Western Riverside County, the proposed network improvements were added to the 2021 existing network in RivCoM and the model was run with 2045 socioeconomic data to determine the relative impacts on horizon year traffic conditions. To quantify the impacts of the TUMF Network improvements, the various traffic measures of effectiveness described in **Section 3.1** for the 2018 Existing and 2045 No-Build scenarios were again calculated for the 2045 TUMF Build scenario. The results for VMT, VHT, VHD, and total VMT experiencing unacceptable level of service (LOS E) were then compared to the results presented in **Table 3.1** for the no-build conditions. The 2045 TUMF Build comparison results are provided in **Table 4.6**. Plots of the Network Extents are attached in **Appendix H**.

As shown in **Table 4.6**, the 2045 peak period VMT on all arterial facilities experiencing LOS of E or worse will decrease with the addition of the TUMF Network improvements while the share of VMT on the TUMF arterial network experiencing LOS E or worse during the peak periods will be reduced to 32% (which is still above the level experienced in 2018). It should be noted that the total VMT on the arterial system **increases** because of freeway trips being diverted to the arterial system to benefit from the proposed TUMF improvements.

Despite a greater share of the total peak period VMT in 2045, the arterial system can more efficiently accommodate the increased demand with the proposed TUMF improvements. Although peak period VMT on the TUMF improved arterial system increases by approximately 6% in 2045 compared to the No Build condition, VHT on the arterial system remains almost constant. Additionally, a benefit is observed on the

freeway system with VMT and VHT being reduced following TUMF Network improvements. By completing TUMF improvements, the total VHD experienced by all area motorists would be reduced during the peak period by over 7% from the levels that would be experienced under the 2045 No-Build scenario. These results highlight the effectiveness of the TUMF Program to mitigate the cumulative regional transportation impacts of new development commensurate with the level of impact being created.

Table 4.6 – Regional Highway System Measures of Performance (2018 Existing and 2045 No-Build Scenarios to 2045 TUMF Build Scenario)

| | Peak Periods (Total) | | | | |
|-------------------------------------------|----------------------|---------------|------------|--|--|
| Measure of Performance* | 2018 Existing | 2045 No-Build | 2045 Build | | |
| VMT - Total ALL FACILITIES | 23,284,724 | 29,897,254 | 30,160,328 | | |
| VMT - FREEWAYS | 13,514,522 | 15,490,284 | 15,418,548 | | |
| VMT - ALL ARTERIALS | 9,770,202 | 14,406,970 | 14,741,781 | | |
| TOTAL - TUMF ARTERIAL VMT | 6,216,985 | 8,597,200 | 9,096,417 | | |
| VHT - TOTAL ALL FACILITIES | 541,350 | 915,439 | 895,725 | | |
| VHT - FREEWAYS | 263,792 | 399,128 | 388,847 | | |
| VHT - ALL ARTERIALS | 277,558 | 516,311 | 506,878 | | |
| TOTAL TUMF ARTERIAL VHT | 174,455 | 320,869 | 321,062 | | |
| VHD - TOTAL ALL FACILITIES | 108,900 | 338,056 | 313,288 | | |
| VHD - FREEWAYS | 66,156 | 170,649 | 161,528 | | |
| VHD - ALL ARTERIALS | 42,745 | 167,407 | 151,760 | | |
| TOTAL TUMF ARTERIAL VHD | 33,249 | 124,863 | 114,451 | | |
| VMT LOS E - TOTAL ALL FACILITIES | 5,605,070 | 13,369,483 | 12,788,016 | | |
| VMT LOS E - FREEWAYS | 4,725,471 | 9,316,891 | 9,115,937 | | |
| VMT LOS E & F - ALL ARTERIALS | 879,599 | 4,052,592 | 3,672,079 | | |
| TOTAL TUMF ARTERIAL VMT w/ LOS E or worse | 765,782 | 3,184,133 | 2,929,288 | | |
| % of TUMF ARTERIAL VMT w/ LOS E or worse | 12% | 37% | 32% | | |

^{*} Source: RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021 and RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network plus future TUMF network projects.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

5.0 TUMF NEXUS ANALYSIS

The objective of this section is to evaluate and document the rational nexus (or reasonable relationship) between the proposed fee and the transportation system improvements it will be used to help fund. The analysis starts by documenting the correlation between future development and the need for transportation system improvements on the TUMF network to mitigate the cumulative regional impacts of this new development, followed by analysis of the nexus evaluation of the key components of the TUMF concept.

5.1 Future Development and the Need for Improvements

Previous sections of this report documented the projected population, household and employment growth in Western Riverside County, the expected increases in traffic congestion and travel delay, and the identification of the transportation system improvements that will serve these future inter-community travel demands. The following points coalesce this information in a synopsis of how the future growth relates to the need for improvements to the TUMF system.

- Western Riverside County is expected to continue growing.

 Development in Western Riverside County is expected to continue at a robust rate of growth into the foreseeable future. Current projections estimate the population is projected to grow from a level of approximately 1.91 million in 2018 to a future level of about 2.53 million in 2045, while employment is projected to grow from a level of about 570,000 in 2018 to approximately 846,000 in 2045 (as shown in **Table 2.3**).
- Continuing growth will result in increasing congestion on arterial roadways. Traffic congestion and delay on arterial roadways are projected to increase dramatically in the future (as shown in **Table 3.1**). Without improvements to the transportation system, congestion levels will grow rapidly and travelers will experience unacceptable travel conditions with slow travel speeds and lengthy delays.
- The future arterial roadway congestion is directly attributable to future development in Western Riverside County.
 - Traffic using arterial roadways within Western Riverside County is virtually all generated within or attracted to Western Riverside County, since longer-distance trips passing through the region typically use the freeway system, not arterial roadways. Therefore, the future recurring congestion problems on these roadways will be attributable to new trips that originate in, terminate in, or travel within Western Riverside County.
- Capacity improvements to the transportation system will be needed to alleviate the future congestion caused by new development.
 To maintain transportation service closer to current levels of officiency, capacity.
 - To maintain transportation service closer to current levels of efficiency, capacity enhancements will need to be made to the arterial roadway system. These enhancements could include new or realigned roads, additional lanes on existing

roads, new or expanded bridges, new or upgraded freeway interchanges, grade separation of at-grade rail crossings, or the installation of new ITS to improve traffic flows. The completion of improvements to the arterial roadway system would enhance regional mobility and reduce the total peak period vehicles hours of travel (VHT) by over 2%, reduce peak period vehicle hours of delay (VHD) by over 7%, and reduce the share of traffic experiencing congestion in the peak periods by over 4% (as shown in **Table 4.6**). The specific needs and timing of implementation will depend on the location and rate of future development, so the specific improvements to be funded by the TUMF and their priority of implementation will be determined during future project programming activities as improvement needs unfold and as TUMF funds become available.

Roads on the TUMF network are the facilities that merit improvement through this fee program.

The criteria used to identify roads for the TUMF network (future number of lanes, future traffic volume, future congestion level, and roadway function linking communities and activity centers and serving public transportation) were selected to ensure that these are the roadways that will serve inter-community travel and will require future improvement to alleviate congestion.

Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

Since a portion of the population does not own an automobile and depends on public transportation for mobility, public transportation infrastructure and service will need to be enhanced and expanded to ensure continued mobility for this segment of the population. In addition, improvements to the public transportation system will be required to ensure that transit service can function as a viable option for future new Western Riverside County residents and employees who choose to avoid congestion by using public transportation.

For the reasons cited above, it can be readily concluded that there is a rational nexus between the future need for transportation improvements on the TUMF system and the future development upon which the proposed TUMF would be levied. The following sections evaluate the rational nexus in relation to the system components and the types of uses upon which the fee is assessed.

5.2 Application of Fee to System Components

As noted in **Section 3.2**, the TUMF concept includes splitting the fee revenues between the backbone system of arterials, the secondary system of arterials, and the public transportation system. This section evaluates the travel demands to determine the rational nexus between the future travel demands and the use of the fee to fund improvements to the future system components.

The split of fee revenues between the backbone and secondary highway networks is related to the proportion of highway vehicle trips that are relatively local (between

adjacent communities) and longer distance (between more distant communities but still within Western Riverside County). To estimate a rational fee split between the respective networks, the future combined AM and PM peak period travel forecast estimates were aggregated to a matrix of trips between zones to show the percentage of trips that remain within each zone in relation to the volume that travels to the other zones. This analysis was completed using the Year 2045 No-Build scenario trip tables from RivCoM.

The first step in the analysis was to create a correspondence table between the TAZs in the model and the five WRCOG TUMF zones (i.e. Northwest, Southwest, Central, Hemet/San Jacinto and Pass). The TAZs were then compressed into six districts (the five WRCOG zones and one for the rest of the SCAG region).

Table 5.1 shows the estimated peak period vehicle trips within and between each of the zones. **Table 5.2** shows the percentage of peak period vehicle trips within and between the respective zones. **Appendix I** includes the detailed RivCoM outputs used to develop the regional trip distribution profile shown in **Table 5.1** and **5.2**.

Table 5.1 - 2045 No-Build Peak Period Vehicle Trips by WRCOG Zone

| To From | Central | Hemet/San Jacinto | Northwest | Pass | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|---------|-----------|------------------|-----------|
| Central | 417,608 | 23,474 | 89,780 | 6,301 | 55,101 | 57,558 | 649,822 |
| Hemet/San Jacinto | 29,401 | 209,005 | 8,647 | 8,432 | 16,081 | 18,078 | 289,645 |
| Northwest | 58,578 | 2,684 | 743,234 | 2,687 | 11,032 | 196,041 | 1,014,257 |
| Pass | 8,068 | 7,585 | 6,114 | 110,385 | 908 | 32,334 | 165,395 |
| Southwest | 55,812 | 16,232 | 32,852 | 1,976 | 667,255 | 62,713 | 836,839 |
| Outside WRCOG | 33,907 | 7,574 | 192,712 | 24,490 | 33,867 | | 292,550 |
| TOTAL | 603,375 | 266,554 | 1,073,340 | 154,271 | 784,244 | 366,724 | 3,248,507 |

Based on RivCoM Year 2045 No-Build scenario

Table 5.2 – 2045 No-Build Percent Peak Period Vehicle Trips By WRCOG Zone

| To From | Central | Hemet/San Jacinto | Northwest | Pass | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-------|-----------|------------------|-------|
| Central | 64.3% | 3.6% | 13.8% | 1.0% | 8.5% | 8.9% | 100% |
| Hemet/San Jacinto | 10.2% | 72.2% | 3.0% | 2.9% | 5.6% | 6.2% | 100% |
| Northwest | 5.8% | 0.3% | 73.3% | 0.3% | 1.1% | 19.3% | 100% |
| Pass | 4.9% | 4.6% | 3.7% | 66.7% | 0.5% | 19.5% | 100% |
| Southwest | 6.7% | 1.9% | 3.9% | 0.2% | 79.7% | 7.5% | 100% |

Based on RivCoM Year 2045 No-Build scenario

Table 5.3 summarizes the calculation of the split between the backbone and secondary highway networks as derived from the peak period trip values provided in **Table 5.1**. Peak period vehicle trips to and from areas outside Western Riverside County were subtracted from the calculation, on the presumption that most of their interregional travel would occur on the freeway system. Peak period trips <u>between</u> zones (regional) were assigned to the backbone network, since these trips are primarily served by the arterial roadways that provide connections between the zones. Peak period trips <u>within</u> zones (local) were split between the backbone network and the secondary network in proportion to their lane-miles, since roadways on both networks serve intra-zonal trips. The backbone network includes approximately 41.1% of the lane-miles on the future TUMF system, and the secondary network includes approximately 58.9% of the lane-miles.

The backbone network is therefore assigned all the inter-zonal peak period trips plus 41.1% of the intra-zonal peak period trips. The secondary network is assigned 58.9% of the intra-zonal peak period trips and none of the inter-zonal peak period trips. The overall result is that 51.1% of the regional travel is assigned to the backbone network and 48.9% is assigned to the secondary network.

Table 5.3 - Backbone-Secondary Network Share Calculation

| Calculation Value Description | Input Values | Backbone Value | Backbone Share | Secondary Value | Secondary Share |
|------------------------------------------------------------------------------------|--------------|-------------------|-------------------|--------------------|--------------------|
| Total Western Riverside County Peak Period Vehicle Trips | 3,248,507 | | | | |
| Less Internal/External Peak Period Vehicle Trips | -659,273 | | | | |
| Total Peak Period Vehicle Trips Internal to Western Riverside County | 2,589,234 | | | | |
| Peak Period Vehicle Trips Between TUMF Zones | 441,747 | | | | |
| Peak Period Vehicle Trips Within TUMF Zones | 2,147,487 | | | | |
| TUMF Future Network Lane-Miles | 3,029.9 | 1,243.9 | 41.1% | 1,786.0 | 58.9% |
| Peak Period Vehicle Trips Between TUMF Zones | 441,747 | 441,747 | 100.0% | 0 | 0.0% |
| Peak Period Vehicle Trips Within TUMF Zones (as share of intra- zonal trips) | 2,147,487 | 882,332 | 41.1% | 1,265,155 | 58.9% |
| Total Peak Period Vehicle Trips Assigned | 2,589,234 | 1,324,079 | 51.1% | 1,265,155 | 48.9% |

Based on RivCoM Year 2045 No-Build scenario: TUMF Nexus Study Exhibit H-1

5.3 Application of Fee to Residential and Non-Residential Developments

In order to establish the approximate proportionality of the future traffic impacts associated with new residential development and new non-residential development, the growth in daily VMT between the 2018 Existing and 2045 No-Build Scenarios from RivCoM were aggregated by trip purpose. RivCoM produces person trips (irrespective of mode choice) on the basis of five trip purposes: home-based-work (HBW), home-based-other (HBO), home-based-school (HBS), non-home-based (NHB), and home-based-university (HBU).

NCHRP Report #187 Quick Response Urban Travel Estimation Techniques and Transferable Parameters User's Guide (Transportation Research Board, 1978) details operational travel estimation techniques that are universally used for the travel demand modeling. Chapter 2 of this report, which details trip generation estimation, states that "HBW (Home Based Work) and HBNW (Home Based Non-Work) trips are generated at the households, whereas the NHB (Non-Home Based) trips are generated elsewhere." In accordance with NCHRP Report #187, growth in daily VMT was aggregated into home-based growth in daily VMT (combining the four home-based purposes: HBW, HBO, HBSC and HBU) and non-home-based growth in daily VMT. The home-based growth in daily VMT represents 77.7% of the total future growth in daily VMT and the non-home-based growth in daily VMT represent 22.3% of the total future growth in daily VMT, as shown in Table 5.4. Appendix J includes the RivCoM outputs used to develop the trip purpose summary in Table 5.4.

Table 5.4 - Daily VMT Growth by Trip Purpose for Western Riverside County (2018 - 2045)

| VEHICLE TRIP PURPOSE | 2018 EXISTING DAILY VMT | 2045 NO-BUILD DAILY VMT | DAILY VMT GROWTH | DAILY VMT GROWTH SHARE |
|------------------------------------------------|----------------------------|----------------------------|---------------------|------------------------------|
| Home-Based-Work | 81,121,525 | 98,818,811 | 17,697,286 | 31.8% |
| Home-Based-Other | 114,840,696 | 138,710,519 | 23,869,822 | 42.9% |
| Home-Based-School (K-12) | 8,592,941 | 9,230,272 | 637,331 | 1.1% |
| Non-Home-Based | 61,534,566 | 73,907,099 | 12,372,533 | 22.3% |
| Home-Based-University | 5,377,197 | 6,400,662 | 1,023,465 | 1.8% |
| TOTAL | 271,466,925 | 327,067,363 | 55,600,437 | 100.00% |
| Home-Based Trips (Residential Uses) | | | 43,227,904 | 77.7% |
| Non-Home-Based Trips (Non-Residential Uses) | | | 12,372,533 | 22.3% |

Based on RivCoM Year 2018 Existing Scenario, November 2023 and RivCoM Year 2045 No Build Scenario, November 2023

6.0 FAIR-SHARE FEE CALCULATION

The fee amounts, by type of development, that are justified to mitigate the cumulative regional impacts of new development on transportation facilities in Western Riverside County are quantified in this section. The total cost of improving the TUMF system is \$5.28 billion. Existing funding obligated for improvements to the TUMF system totals \$382.9 million while unfunded improvement needs generated by existing development represent \$646.9 million of the total cost. The balance of the unfunded TUMF system improvement needs is \$4.24 billion which is the maximum value attributable to the mitigation of the cumulative regional transportation impacts of future new development in the WRCOG region and will be captured through the TUMF Program. By levying the uniform fee directly on future new developments (and indirectly on new residents and new employees to Western Riverside County), these transportation system users are assigned their "fair share" of the costs to address the cumulative impacts of additional traffic they will generate on the regional transportation system.

Of the \$4.24 billion in unfunded future improvement needs, 77.7% (\$3.30 billion) will be assigned to future new residential development and 22.3% (\$946.5 million) will be assigned to future new non-residential development.

6.1 Residential Fees

The portion of the unfunded future improvement cost allocable to new residential development through the TUMF is \$3.30 billion. Since this future transportation system improvement need is generated by new residential development anticipated through the Year 2045, the fee will be spread between the residential developments projected to be constructed between 2018 and 2045. The projected residential growth from year 2018 to 2045 is 257,826 households (or dwelling units) as is indicated in **Table 2.3**.

Different household types generate different numbers of trips. To reflect the difference in trip generation between lower density "single-family" dwelling units and higher density "multi-family" dwelling units, the TUMF was weighted based on the respective trip generation rates of these different dwelling unit types. For the purposes of the TUMF Program, single family dwelling units are those housing units with a density of less than 8 units per acre while multi-family units are those with a density of 8 or more units per acre. According to the SCAG 2020 RTP/SCS forecasts included in **Table 2.3** and **Appendix B**, single family dwelling units (including mobile homes) are forecast to constitute 65.0% of the growth in residential dwelling units in the region between 2018 and 2045.

Data provided in the Institute of Transportation Engineers (ITE) <u>Trip Generation</u> Manual, 11th Edition (2021) show that, on average, single-family dwelling units generate 0.99 vehicle trips per dwelling unit per hour in the PM peak hour, whereas apartments, condominiums and townhouses (considered to be representative of higher density multi-family dwelling units) generate a median of 0.50 vehicle trips per unit per hour in the PM peak hour. The growth in dwelling units for single-family and multi-family, respectively, were multiplied by the corresponding trip generation rates to determine

the weighted proportion of the change in trips attributable to each use type as the basis for determining the per unit fee required to levy the necessary \$3.20 billion to mitigate the cumulative regional transportation impacts of future new residential development. **Table 6.1** summarizes the calculation of the fee for single-family and multi-family dwelling units. **Appendix K** includes worksheets detailing the calculation of the residential (and non-residential) TUMF for Western Riverside County.

Table 6.1 - Fee Calculation for Residential Share

| Residential Sector | 2018 Dwelling Units | 2045 Dwelling Units | Dwelling Unit Change | Trip Generation Rate | Trip Change | Percentage of Trip Change | Fee/DU |
|--------------------|---------------------------|---------------------------|----------------------------|----------------------------|-------------|---------------------------------|----------|
| Single-Family | 397,407 | 564,898 | 167,491 | 0.99 | 165,816 | 78.6% | \$15,476 |
| Multi-Family | 157,166 | 247,501 | 90,335 | 0.50 | 45,168 | 21.4% | \$7,816 |
| Total | 554,573 | 812,399 | 257,826 | | 210,984 | 100.0% | |

Household data based on SCAG 2020 RTP/SCS; Trip Generation based on ITE <u>Trip Generation</u> (2021).

Consistent with the socio-economic forecasts developed by SCAG and the trip generation basis to assess the cumulative regional transportation impacts of new development, the residential fee calculation for TUMF reflects a uniform fee per dwelling unit for two categories as described previously: single-family residential and multi-family residential. On September 28, 2021, California Governor Gavin Newsome signed Assembly Bill 602 (AB 602) approving several changes to the Mitigation Fee Act, including the additional of §66016.5 to the California Government Code (CGC). CGC §66016.5(a)(5)(A) states "A nexus study adopted after July 1, 2022, shall calculate a fee imposed on a housing development project proportionately to the square footage of proposed units of the development...." unless certain findings are made. These findings include:

- "(i) An explanation as to why square footage is not appropriate metric to calculate fees imposed on housing development project.
- (ii) An explanation that an alternative basis of calculating the fee bears a reasonable relationship between the fee charged and the burden posed by the development.
- (iii) That other policies in the fee structure support smaller developments, or otherwise ensure that smaller developments are not charged disproportionate fees."

To address these provisions of AB 602, WRCOG analyzed the trip generation characteristics of single-family and multi-family residential dwelling units of various sizes to determine whether the TUMF should be imposed based on the square footage of the respective housing type. The findings of the analyses for single-family and multi-family, respectively, were summarized in technical memoranda that are included in **Appendix K**. Based on the findings of the analyses, WRCOG has determined that the fee for single-family residential units should be adjusted in four tiers to correlate to the trip generation characteristics associated with various ranges of single-family housing sizes to demonstrate compliance with AB 602. The tiers reflecting the adjustments to the

standard single-family residential fee per dwelling unit (as calculated in **Table 6.1**) for differing ranges of single-family dwelling unit sizes are summarized in **Table 6.2**. Adjustments to the standard uniform fair-share single-family residential fee to account for variations in trip generation rates based on the size of the units will be made at the time of determining the fee obligation consistent with the process outlined further in the WRCOG TUMF Fee Calculation Handbook.

Table 6.2 – Single-Family Residential Fee Adjustments by Unit Size

| Adjustment Tier | Housing Unit Size Range (in square feet) | Base Fee Adjustment |
|-----------------|------------------------------------------|---------------------|
| Tier 1 | Less than or equal to 1,800 | 80% |
| Tier 2 | 1,801 to 2,300 | 90% |
| Tier 3 | 2,301 to 2,700 | 100% |
| Tier 4 | More than 2,700 | 125% |

For multi-family residential units, WRCOG determined that the fee can be imposed on all multi-family units uniformly consistent with the conclusions of the analysis of multi-family trip generation rates by unit size, which demonstrated little variation in trip generation rates across the range of multi-family residential unit sizes. Therefore, the multi-family residential fee, as calculated in **Table 6.2**, can be applied uniformly to all multi-family residential units under the TUMF program.

6.2 Non-Residential Fees

The portion of the unfunded future improvement cost allocable to new non-residential development through the TUMF is \$946.5 million. Estimates of employment by sector were obtained from the SCAG 2020 RTP/SCS socioeconomic data included in **Table 2.3** and **Appendix B**. From the 2045 employment forecast, the amount of employee growth in each sector was calculated. The employment figures were then translated into square footage of new development using typical ratios of square feet per employee derived from four sources including: Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas (PBQD), Land Use Density Conversion Factors For Long Range Corridor Study San Bernardino and Riverside Counties, August 20, 1990; Orange County Transportation Authority (OCTA), Orange County Subarea Model Guidelines Manual, June 2001; SCAG, Employment Density Study, October 31, 2001; and the County of Riverside, General Plan, as amended December 15, 2015. Worksheets showing the development of the TUMF employee conversion factors and the application of the conversion factors to calculate the square footage of future new non-residential development in Western Riverside County are included in **Appendix L**.

To account for the differences in trip generation between various types of non-residential uses, the new non-residential development was weighted by trip generation rate for each sector. Typical trip generation rates per employee were obtained from the Institute of Transportation Engineers (ITE) <u>Trip Generation – 11th Edition</u> (2021), and were weighted based on a calculated value of trips per employee as derived from the

employee conversion factors and ITE typical trip generation rates per square foot of development, before being assigned to the non-residential categories as follows: Industrial – 0.6 PM peak hour trips per employee, Retail – 1.8 PM peak hour trips per employee, Service – 1.2 PM peak hour trips per employee, and Government/Public – 2.1 PM peak hour trips per employee¹². These rates were applied to the employment growth in each sector to determine the relative contribution of each sector to new tripmaking, and the \$946.5 million was then allocated among the non-residential categories based on the percentage of new trips added. This proportionate non-residential fee share by sector was then divided by the estimated square footage of future new development to obtain the rate per square foot for each type of use. The calculation of the non-residential fee by sector is shown in **Table 6.3**.

Table 6.3 - Fee Calculation for Non-Residential Share

| Non-Residential Sector | Employment Change | Trip Generation Rate per Employee | Trip Change | Percentage of Trip Change | Change in Square Feet of Gross Floor Area | Fee/SF |
|------------------------|----------------------|--------------------------------------------|-------------|---------------------------------|----------------------------------------------------|---------|
| Industrial | 76,581 | 0.6 | 45,949 | 15.1% | 61,489,565 | \$2.33 |
| Retail | 13,115 | 1.8 | 23,607 | 7.8% | 6,557,500 | \$11.21 |
| Service | 174,255 | 1.2 | 209,106 | 68.8% | 66,735,957 | \$9.76 |
| Government/Public | 12,071 | 2.1 | 25,349 | 8.3% | 3,420,665 | \$23.07 |
| Total | 276,022 | | 304,011 | 100.0% | 138,203,688 | |

Employment Change data based on SCAG 2020 RTP/SCS; Trip Generation based on ITE (2021); Change in Square Feet conversion factor based on Cordoba (1990), OCTA (2001), SCAG (2001) and County of Riverside (2015).

september 2021).

 $^{^{12}}$ The median trip generation rate for 'Retail' and 'Service' was reduced to reflect the influence of pass-by trips using the weekday PM peak median pass-by trip rate for select uses as derived from the ITE $\frac{\text{Trip Generation Manual (11}^{\text{th}}}{\text{Edition}}$ (September 2021).

7.0 CONCLUSIONS

Based on the results of the Nexus Study evaluation, there is reasonable relationship between the cumulative regional transportation impacts of new land development projects in Western Riverside County and the need to mitigate these transportation impacts using funds levied through the ongoing TUMF Program. Factors that reflect this reasonable relationship include:

- Western Riverside County is expected to continue growing because of future new development.
- > Continuing new growth will result in increasing congestion on arterial roadways.
- > The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County.
- Capacity improvements to the transportation system will be needed to mitigate the cumulative regional impacts of new development.
- > Roads on the TUMF network are the facilities that merit improvement through this fee program.
- ➤ Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

The Nexus Study evaluation has established a proportional "fair share" of the improvement cost attributable to new development based on the impacts of existing development and the availability of obligated funding through traditional sources. Furthermore, the Nexus Study evaluation has divided the fair share of the cost to mitigate the cumulative regional impacts of future new development in Western Riverside County in rough proportionality to the cumulative impacts of future residential and non-residential development in the region. The respective fee allocable to future new residential and non-residential development in Western Riverside County is summarized for differing use types in **Table 7.1**.

Table 7.1 - Transportation Uniform Mitigation Fee for Western Riverside County

| Land Use Type | Units | Development Change | Fee Per Unit | Total Revenue (\$ million) |
|---------------------------|--------|-----------------------|--------------|-------------------------------|
| Single Family Residential | DU | 167,491 | \$15,476 | \$2,592.0 |
| Multi Family Residential | DU | 90,335 | \$7,816 | \$706.1 |
| Industrial | SF GFA | 61,489,565 | \$2.33 | \$143.1 |
| Retail | SF GFA | 6,557,500 | \$11.21 | \$73.5 |
| Service | SF GFA | 66,735,957 | \$9.76 | \$651.1 |
| Government/Public | SF GFA | 3,420,665 | \$23.07 | \$78.9 |
| MAXIMUM TUMF VALUE | | | | \$4,244.6 |

8.0 APPENDICES

The following Appendices incorporate the extent of materials used to support the development of the WRCOG TUMF Nexus Study and, where appropriate, specifically the 2024 Update. The respective Appendices also incorporate an explanation of the methodology and assumptions used to develop the various elements of the Nexus Study.

These Appendices represent a compilation of materials derived from a variety of technical resources. Each of the following Appendices relate to the development of a specific element of the Nexus Study. These Appendices are as follows:

- Appendix A List of WRCOG Committees
- Appendix B Western Riverside County Population and Employment Growth 2018 2045
- Appendix C Western Riverside County Traffic Growth 2018 2045
- Appendix D Western Riverside County Transit System Ridership 2018 2045
- Appendix E Western Riverside County Regional System of Highways and Arterials Performance Measures
- Appendix F TUMF Network Cost Assumptions
- Appendix G TUMF 2024 Program Update Disposition of Network Change Requests
- Appendix H TUMF Network Cost Estimate and Evaluation
- Appendix I Western Riverside County Regional Trip Distribution
- Appendix J Western Riverside County Regional Trip Purpose
- Appendix K Residential Fee Calculation
- Appendix L Non-Residential Fee Calculation

Appendix A - List of WRCOG Committees

WRCOG Executive Committee

| Sheri Flynn | City of Banning |
|----------------------------------|---------------------------------------------------------|
| Mike Lara | City of Beaumont |
| Wendy Hewitt | City of Calimesa |
| Mark Terry | City of Canyon Lake |
| Jacque Casillas (2nd Vice-Chair) | City of Corona |
| Christian Dinco | City of Eastvale |
| Jackie Peterson | City of Hemet |
| Chris Barajas (Past Chair) | City of Jurupa Valley |
| Brian Tisdale | City of Lake Elsinore |
| Bob Karwin | City of Menifee |
| Elena Baca-Santa Cruz | City of Moreno Valley |
| Lisa DeForest | City of Murrieta |
| Kevin Bash | City of Norco |
| Rita Rogers (Chair) | City of Perris |
| Chuck Conder | City of Riverside |
| Crystal Ruiz | City of San Jacinto |
| James Stewart | City of Temecula |
| Joseph Morabito | City of Wildomar |
| Kevin Jeffries | County of Riverside Dist. 1 |
| Karen Spiegel | County of Riverside Dist. 2 |
| Chuck Washington | County of Riverside Dist. 3 |
| Yxstian Gutierrez | County of Riverside Dist. 5 |
| Phil Paule | Eastern Municipal Water District |
| Dr. Edwin Gomez | Riverside County Superintendent of Schools (ex-officio) |
| Brenda Dennstedt (Vice-Chair) | Western Water |

WRCOG Technical Advisory Committee

| Doug Schulze | City of Banning |
|--------------------------|--------------------------------------|
| Elizabeth Gibbs | City of Beaumont |
| Will Kolbow | City of Calimesa |
| Aaron Brown | City of Canyon Lake |
| Brett Channing | City of Corona |
| Mark Orme | City of Eastvale |
| Mark Prestwich | City of Hemet |
| Rod Butler (Past Chair) | City of Jurupa Valley |
| Jason Simpson | City of Lake Elsinore |
| Armando Villa | City of Menifee |
| Mike Lee | City of Moreno Valley |
| Kim Summers | City of Murrieta |
| Lori Sassoon | City of Norco |
| Clara Miramontes (Chair) | City of Perris |
| Mike Futrell | City of Riverside |
| Rob Johnson | City of San Jacinto |
| Aaron Adams | City of Temecula |
| Dan York | City of Wildomar |
| Jeff Van Wagenen | County of Riverside |
| Joe Mouawad | Eastern Municipal Water District |
| Grace Martin | March Joint Power Authority |
| Matt Snellings | Riverside County Office of Education |
| Craig Miller | Western Water |

WRCOG Planning Directors' Committee

| no new appointment made (as of 07/24/24) | City of Banning |
|------------------------------------------|------------------------------|
| Carole Kendrick | City of Beaumont |
| Kelly Lucia | City of Calimesa |
| Jim Morrisey | City of Canyon Lake |
| Joanne Coletta | City of Corona |
| David Murray | City of Eastvale |
| Monique Alaniz-Flejter | City of Hemet |
| Joe Perez (Chair) | City of Jurupa Valley |
| Damaris Abraham | City of Lake Elsinore |
| Cheryl Kitzerow | City of Menifee |
| Sean Kelleher (2nd Vice-Chair) | City of Moreno Valley |
| David Chantarangsu | City of Murrieta |
| Alma Robles | City of Norco |
| Kenneth Phung (Vice-Chair) | City of Perris |
| Judy Eguez | City of Riverside |
| Travis Randel | City of San Jacinto |
| Matt Peters | City of Temecula |
| Matthew Bassi | City of Wildomar |
| John Hildebrand | County of Riverside |
| Jeffrey Smith | March Joint Powers Authority |
| Jennifer Nguyen | Riverside Transit Agency |
| Ryan Shaw | Western Water |

WRCOG Public Works Committee

| Art Vela City of Banning Robert Vestal City of Beaumont Michael Thornton City of Calimesa Stuart McKibben City of Canyon Lake Savat Khamphou (Vice-Chair) City of Corona Jimmy Chung City of Eastvale Noah Rau City of Hemet Paul Toor (Chair) City of Jurupa Valley Remon Habib City of Lake Elsinore |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Michael ThorntonCity of CalimesaStuart McKibbenCity of Canyon LakeSavat Khamphou (Vice-Chair)City of CoronaJimmy ChungCity of EastvaleNoah RauCity of HemetPaul Toor (Chair)City of Jurupa Valley |
| Stuart McKibbenCity of Canyon LakeSavat Khamphou (Vice-Chair)City of CoronaJimmy ChungCity of EastvaleNoah RauCity of HemetPaul Toor (Chair)City of Jurupa Valley |
| Savat Khamphou (Vice-Chair) Jimmy Chung Noah Rau City of Corona City of Eastvale City of Hemet City of Jurupa Valley |
| Jimmy ChungCity of EastvaleNoah RauCity of HemetPaul Toor (Chair)City of Jurupa Valley |
| Noah RauCity of HemetPaul Toor (Chair)City of Jurupa Valley |
| Paul Toor (Chair) City of Jurupa Valley |
| |
| Pomon Habib City of Lake Ekinara |
| City of Lake Estinote |
| Nick Fidler City of Menifee |
| Melissa Walker City of Moreno Valley |
| Bob Moehling City of Murrieta |
| Sam Nelson City of Norco |
| John Pourkazemi City of Perris |
| Gil Hernandez City of Riverside |
| Stuart McKibbin (Vice-Chair) City of San Jacinto |
| Patrick Thomas City of Temecula |
| Jason Farag City of Wildomar |
| Patricia Romo County of Riverside |
| Lauren Sotelo March Joint Powers Authority |
| Jillian Guizado Riverside County Transportation Commission |
| Mauricio Alvarez Riverside Transit Agency |

WRCOG Finance Directors' Committee

| Lincoln Bogard | City of Banning |
|------------------------------|--------------------------------------|
| Jennifer Ustation | City of Beaumont |
| Celeste Reid | City of Calimesa |
| Terry Shea | City of Canyon Lake |
| Kim Sitton | City of Corona |
| Amanda Wells | City of Eastvale |
| vacant | City of Hemet |
| June Overholt | City of Jurupa Valley |
| Shannon Buckley | City of Lake Elsinore |
| Travis Hickey | City of Menifee |
| Launa Jimenez | City of Moreno Valley |
| Javier Carcamo (Past Chair) | City of Murrieta |
| Lisette Free | City of Norco |
| Ernie Reyna (Chair) | City of Perris |
| Kristie Thomas | City of Riverside |
| Erika Gomez (2nd Vice-Chair) | City of San Jacinto |
| Jennifer Hennessy | City of Temecula |
| Adam Jantz | City of Wildomar |
| Vacant | County of Riverside |
| John Adams | Eastern Municipal Water District |
| Grace Martin | March Joint Power Authority |
| Dr. Ruth Perez | Riverside County Office of Education |
| Kevin Mascaro | Western Water |

Appendix B - Western Riverside County Population and Employment Growth 2008 – 2035

Although a variety of alternate demographic information is available for the purpose of quantifying population and household growth in Western Riverside County, it was determined that the data developed by SCAG to support the 2020 RTP/SCS represented the most comprehensive source of socioeconomic data (SED) for the six-county SCAG region that includes Riverside County. The SCAG 2020 RTP/SCS SED information is disaggregated to the level of traffic analysis zones (TAZ) that comprise inputs to RivCoM. These SED data by TAZ were extracted from RivCoM (specifically the TAZ_Data.CSV file located in the PopSyn output folder) and aggregated to correspond with the TUMF zones to support this update of the TUMF Nexus. The SCAG 2020 RTP/SCS SED data retrieved from RivCoM and used as the basis for the Nexus Update is summarized in this Appendix.

The SCAG employment data for 2018 and 2045 was provided for thirteen employment sectors consistent with the California Employment Development Department (EDD) Major Groups including: Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing and Utilities; Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service; and Government. For the purposes of the Nexus Study, the SCAG Employment Categories were aggregated to Industrial (Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Transportation, Warehousing and Utilities), Retail (Retail Trade), Service (Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service) and Government/Public Sector (Government). These four agaregated sector types were used as the basis for calculating the fee as described in **Section 6.2**. This Appendix includes tables detailing the SCAG RTP/SCS SED Employment Categories and corresponding North American Industry Classification System (NAICS) Categories that are included in each nonresidential sector type.

EXHIBIT B-1
Western Riverside County Population, Households and Employment (2018) - SCAG 2020 RTP/SCS Base Year

| SED Type/Zone | Central | Northwest | Pass | San Jacinto | Southwest | Total |
|-------------------------------------------|---------|-----------|--------|-------------|-----------|-----------|
| Population | | | | | | |
| Total Population | 408,260 | 777,900 | 98,688 | 187,677 | 432,915 | 1,905,440 |
| Households | | | | | | |
| Single-Family | 83,142 | 152,897 | 24,937 | 38,888 | 97,543 | 397,407 |
| Multi-Family | 26,889 | 63,591 | 8,661 | 26,055 | 31,970 | 157,166 |
| Total Households | 110,031 | 216,488 | 33,598 | 64,943 | 129,513 | 554,573 |
| Employment | | | | | | |
| Farming, Natural Resources and Mining | 799 | 3,431 | 559 | 1,625 | 2,080 | 8,494 |
| Construction | 6,245 | 31,914 | 1,807 | 2,067 | 13,290 | 55,323 |
| Manufacturing | 4,172 | 25,866 | 1,101 | 925 | 8,902 | 40,966 |
| Wholesale Trade | 8,428 | 9,269 | 268 | 546 | 6,490 | 25,001 |
| Retail Trade | 13,346 | 32,061 | 5,472 | 4,564 | 18,371 | 73,814 |
| Transportation, Warehousing and Utilities | 7,349 | 22,686 | 1,132 | 2,132 | 6,251 | 39,550 |
| Information | 425 | 2,073 | 496 | 177 | 863 | 4,034 |
| Financial Activities | 1,887 | 8,632 | 586 | 1,003 | 5,414 | 17,522 |
| Professional and Business Service | 7,834 | 32,973 | 3,434 | 1,630 | 13,532 | 59,403 |
| Education and Health Service | 20,423 | 76,884 | 6,092 | 13,659 | 29,192 | 146,250 |
| Leisure and Hospitality | 8,391 | 21,990 | 7,207 | 3,726 | 18,270 | 59,584 |
| Other Service | 2,834 | 10,603 | 1,244 | 1,891 | 5,338 | 21,910 |
| Government | 2,579 | 11,727 | 871 | 761 | 2,631 | 18,569 |
| TUMF Industrial | 26,993 | 93,166 | 4,867 | 7,295 | 37,013 | 169,334 |
| TUMF Retail | 13,346 | 32,061 | 5,472 | 4,564 | 18,371 | 73,814 |
| TUMF Service | 41,794 | 153,155 | 19,059 | 22,086 | 72,609 | 308,703 |
| TUMF Government/Public Sector | 2,579 | 11,727 | 871 | 761 | 2,631 | 18,569 |
| Total Employment | 84,712 | 290,109 | 30,269 | 34,706 | 130,624 | 570,420 |

Source: SCAG 2020 RTP/SCS

EXHIBIT B-2
Western Riverside County Population, Households & Employment (2045) - SCAG 2020 RTP/SCS Horizon Year

| SED Type/Zone | Central | Northwest | Pass | San Jacinto | Southwest | Total |
|-------------------------------------------|---------|-----------|---------|-------------|-----------|-----------|
| Population | - | • | | | • | |
| Total Population | 594,678 | 925,228 | 158,040 | 289,439 | 566,491 | 2,533,876 |
| Households | | | | | | |
| Single-Family | 133,507 | 181,827 | 43,988 | 70,713 | 134,863 | 564,898 |
| Multi-Family | 53,555 | 79,359 | 14,362 | 43,654 | 56,571 | 247,501 |
| Total Households | 187,062 | 261,186 | 58,350 | 114,367 | 191,434 | 812,399 |
| Employment | | | | | | |
| Farming, Natural Resources and Mining | 712 | 2,212 | 527 | 1,218 | 2,001 | 6,670 |
| Construction | 18,304 | 48,533 | 3,186 | 5,861 | 20,236 | 96,120 |
| Manufacturing | 6,836 | 24,624 | 1,393 | 1,149 | 10,335 | 44,337 |
| Wholesale Trade | 6,150 | 9,048 | 324 | 559 | 6,529 | 22,610 |
| Retail Trade | 16,310 | 33,656 | 7,136 | 6,338 | 23,489 | 86,929 |
| Transportation, Warehousing and Utilities | 18,227 | 38,043 | 2,705 | 4,771 | 12,432 | 76,178 |
| Information | 642 | 2,166 | 476 | 191 | 1,116 | 4,591 |
| Financial Activities | 2,906 | 9,889 | 1,229 | 1,536 | 6,665 | 22,225 |
| Professional and Business Service | 14,214 | 41,712 | 6,016 | 4,518 | 21,058 | 87,518 |
| Education and Health Service | 52,764 | 111,454 | 13,803 | 25,739 | 51,118 | 254,878 |
| Leisure and Hospitality | 13,197 | 27,739 | 10,540 | 8,424 | 24,641 | 84,541 |
| Other Service | 5,148 | 13,062 | 1,532 | 2,838 | 6,625 | 29,205 |
| Government | 6,229 | 18,222 | 1,176 | 1,471 | 3,542 | 30,640 |
| TUMF Industrial | 50,229 | 122,460 | 8,135 | 13,558 | 51,533 | 245,915 |
| TUMF Retail | 16,310 | 33,656 | 7,136 | 6,338 | 23,489 | 86,929 |
| TUMF Service | 88,871 | 206,022 | 33,596 | 43,246 | 111,223 | 482,958 |
| TUMF Government/Public Sector | 6,229 | 18,222 | 1,176 | 1,471 | 3,542 | 30,640 |
| Total Employment | 161,639 | 380,360 | 50,043 | 64,613 | 189,787 | 846,442 |

Source: SCAG 2020 RTP/SCS

EXHIBIT B-3
Western Riverside County Population, Households and Employment (2018 to 2045 Change) - SCAG 2020 RTP/SCS

| SED Type/Zone | Central | Northwest | Pass | San Jacinto | Southwest | Total |
|-------------------------------------------|---------|-----------|--------|-------------|-----------|---------|
| Population | | | | | | |
| Total Population | 186,418 | 147,328 | 59,352 | 101,762 | 133,576 | 628,436 |
| Households | | | | | | |
| Single-Family | 50,365 | 28,930 | 19,051 | 31,825 | 37,320 | 167,491 |
| Multi-Family | 26,666 | 15,768 | 5,701 | 17,599 | 24,601 | 90,335 |
| Total Households | 77,031 | 44,698 | 24,752 | 49,424 | 61,921 | 257,826 |
| Employment | | | | | | |
| Farming, Natural Resources and Mining | -87 | -1,219 | -32 | -407 | -79 | -1,824 |
| Construction | 12,059 | 16,619 | 1,379 | 3,794 | 6,946 | 40,797 |
| Manufacturing | 2,664 | -1,242 | 292 | 224 | 1,433 | 3,371 |
| Wholesale Trade | -2,278 | -221 | 56 | 13 | 39 | -2,391 |
| Retail Trade | 2,964 | 1,595 | 1,664 | 1,774 | 5,118 | 13,115 |
| Transportation, Warehousing and Utilities | 10,878 | 15,357 | 1,573 | 2,639 | 6,181 | 36,628 |
| Information | 217 | 93 | -20 | 14 | 253 | 557 |
| Financial Activities | 1,019 | 1,257 | 643 | 533 | 1,251 | 4,703 |
| Professional and Business Service | 6,380 | 8,739 | 2,582 | 2,888 | 7,526 | 28,115 |
| Education and Health Service | 32,341 | 34,570 | 7,711 | 12,080 | 21,926 | 108,628 |
| Leisure and Hospitality | 4,806 | 5,749 | 3,333 | 4,698 | 6,371 | 24,957 |
| Other Service | 2,314 | 2,459 | 288 | 947 | 1,287 | 7,295 |
| Government | 3,650 | 6,495 | 305 | 710 | 911 | 12,071 |
| TUMF Industrial | 23,236 | 29,294 | 3,268 | 6,263 | 14,520 | 76,581 |
| TUMF Retail | 2,964 | 1,595 | 1,664 | 1,774 | 5,118 | 13,115 |
| TUMF Service | 47,077 | 52,867 | 14,537 | 21,160 | 38,614 | 174,255 |
| TUMF Government/Public Sector | 3,650 | 6,495 | 305 | 710 | 911 | 12,071 |
| Total Employment | 76,927 | 90,251 | 19,774 | 29,907 | 59,163 | 276,022 |

Source: SCAG 2020 RTP/SCS

Exhibit B-4a - TUMF 2024 Nexus Update

Western Riverside County Population, Households and Employment (2018-2045)

| SED Type/Zone | 2018 | 2045 | Change | Percent |
|-------------------------------|-----------|-----------|---------|---------|
| Total Population | 1,905,440 | 2,533,876 | 628,436 | 33% |
| Total Households | 554,573 | 812,399 | 257,826 | 46% |
| Single-Family | 397,407 | 564,898 | 167,491 | 42% |
| Multi-Family | 157,166 | 247,501 | 90,335 | 57% |
| Total Employment | 570,420 | 846,442 | 276,022 | 48% |
| TUMF Industrial | 169,334 | 245,915 | 76,581 | 45% |
| TUMF Retail | 73,814 | 86,929 | 13,115 | 18% |
| TUMF Service | 308,703 | 482,958 | 174,255 | 56% |
| TUMF Government/Public Sector | 18,569 | 30,640 | 12,071 | 65% |

Source: SCAG 2020 RTP/SCS

Exhibit B-4b - TUMF 2016 Nexus Update

Western Riverside County Population, Households and Employment (2012-2040)

| SED Type/Zone | 2012 | 2040 | Change | Percent |
|-------------------------------|-----------|-----------|---------|---------|
| Total Population | 1,773,935 | 2,429,633 | 655,698 | 37% |
| Total Households | 525,149 | 775,231 | 250,082 | 48% |
| Single-Family | 366,588 | 539,631 | 173,043 | 47% |
| Multi-Family | 158,561 | 235,600 | 77,039 | 49% |
| Total Employment | 460,787 | 861,455 | 400,668 | 87% |
| TUMF Industrial | 120,736 | 201,328 | 80,592 | 67% |
| TUMF Retail | 65,888 | 101,729 | 35,841 | 54% |
| TUMF Service | 253,372 | 528,092 | 274,720 | 108% |
| TUMF Government/Public Sector | 20,791 | 30,306 | 9,515 | 46% |

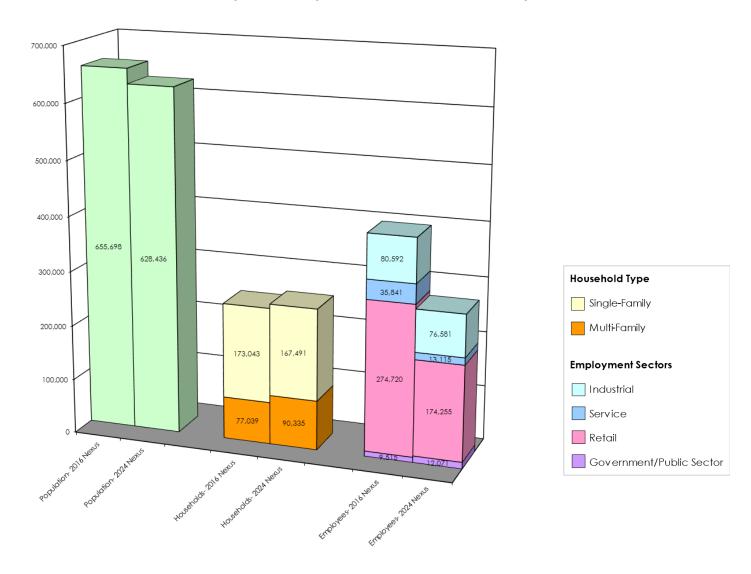
Source: SCAG 2016 RTP/SCS

Exhibit B-4c - TUMF 2016 Nexus Update to 2024 Nexus Update Comparison Western Riverside County Population, Households and Employment (Existing to Future Change)

| SED Type/Zone | 2016 Update (2012-2040) | 2024 Update (2018-2045) | Difference | Percent |
|-------------------------------|----------------------------|----------------------------|------------|---------|
| Total Population | 655,698 | 628,436 | -27,262 | -4% |
| Total Households | 250,082 | 257,826 | 7,744 | 3% |
| Single-Family | 173,043 | 167,491 | -5,552 | -3% |
| Multi-Family | 77,039 | 90,335 | 13,296 | 17% |
| Total Employment | 400,668 | 276,022 | -124,646 | -31% |
| TUMF Industrial | 80,592 | 76,581 | -4,011 | -5% |
| TUMF Retail | 35,841 | 13,115 | -22,726 | -63% |
| TUMF Service | 274,720 | 174,255 | -100,465 | -37% |
| TUMF Government/Public Sector | 9,515 | 12,071 | 2,556 | 27% |

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

EXHIBIT B-4d
Western Riverside County Population, Households and Employment Change (2012 to 2040 and 2018 to 2045)
TUMF 2016 Nexus Update Comparison to TUMF 2024 Nexus Update



Sources:

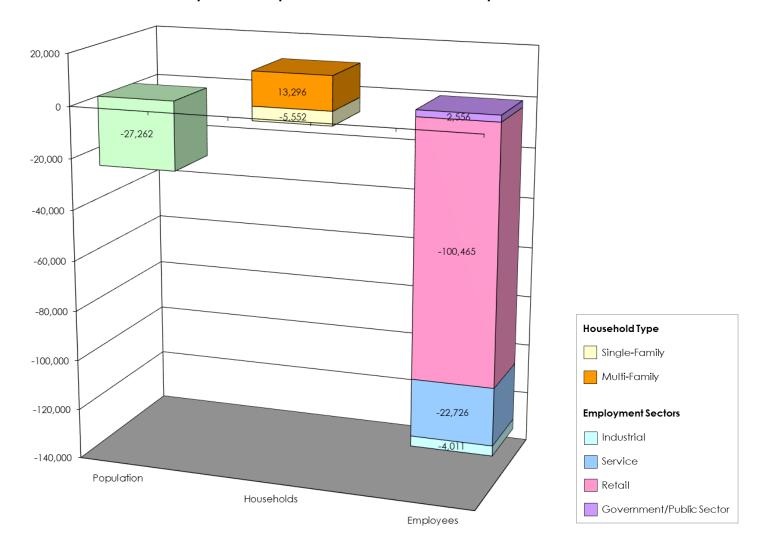
Year 2012 to Year 2040 Growth (2016 Nexus Update): SCAG 2016 RTP/SCS; WSP, April 2016

Year 2018 to Year 2045 Growth (2024 Nexus Update): SCAG 2020 RTP/SCS

EXHIBIT B-4e

Difference in Population, Households and Employment Growth in Western Riverside County

TUMF 2016 Nexus Update Comparison to TUMF 2024 Nexus Update



Source:

Year 2012 to Year 2040 Growth (2016 Nexus Update): SCAG 2016 RTP/SCS; WSP, April 2016

Year 2018 to Year 2045 Growth (2024 Nexus Update): SCAG 2020 RTP/SCS

EXHIBIT B-5a

TUMF Non-Residential Category Detailed NAICS Correspondence Summary

| | SCAG RTP/SCS NAICS Two Digit Code | | | | NAICS Three Digit Code | | | | |
|---------------|-----------------------------------|---------------|--------------------------------------|-------------|------------------------------------------------------------------------------|--|--|--|--|
| TUMF Category | Employment Categories | | | NAICS Inree | | | | | |
| Industrial | remployment calegories | ITAICS COde | INDIOS INIC | ITAICS COde | INC. | | | | |
| madamai | Farming, Natural Resource | es and Mining | 1 | | | | | | |
| | Tarring, National Resource | | Agriculture, Forestry, Fishing and H | untina | | | | | |
| | | · · · · · | g seriese, researy, rianning and m | 111 | Crop Production | | | | |
| | | | | 112 | Animal Production and Aquaculture | | | | |
| | | | | 113 | Forestry and Logging | | | | |
| | | | | 114 | Fishing, Hunting and Trapping | | | | |
| | | | | 115 | Support Activities for Agriculture and Forestry | | | | |
| | | 21 | Mining, Quarrying, and Oil and Gas | | | | | | |
| | | | , | 211 | Oil and Gas Extraction | | | | |
| | | | | 212 | Mining (except Oil and Gas) | | | | |
| | | | | 213 | Support Activities for Mining | | | | |
| | Construction | • | | | | | | | |
| | | 23 | Construction | | | | | | |
| | | | | 236 | Construction of Buildings | | | | |
| | | | | 237 | Heavy and Civil Engineering Construction | | | | |
| | | | | 238 | Specialty Trade Contractors | | | | |
| | Manufacturing | | | | | | | | |
| | | 31-33 | Manufacturing | | | | | | |
| | | | | 311 | Food Manufacturing | | | | |
| | | | | 312 | Beverage and Tobacco Product Manufacturing | | | | |
| | | | | 313 | Textile Mills | | | | |
| | | | | 314 | Textile Product Mills | | | | |
| | | | | 315 | Apparel Manufacturing | | | | |
| | | | | 316 | Leather and Allied Product Manufacturing | | | | |
| | | | | 321 | Wood Product Manufacturing | | | | |
| | | | | 322 | Paper Manufacturing | | | | |
| | | | | 323 | Printing and Related Support Activities | | | | |
| | | | | 324 | Petroleum and Coal Products Manufacturing | | | | |
| | | | | 325 | Chemical Manufacturing | | | | |
| | | | | 326 | Plastics and Rubber Products Manufacturing | | | | |
| | | | | 327 | Nonmetallic Mineral Product Manufacturing | | | | |
| | | | | 331 | Primary Metal Manufacturing | | | | |
| | | | | 332 | Fabricated Metal Product Manufacturing | | | | |
| | | | | 333 | Machinery Manufacturing | | | | |
| | | | | 334 | Computer and Electronic Product Manufacturing | | | | |
| | | | | 335 | Electrical Equipment, Appliance, and Component Manufacturing | | | | |
| | | | | 337 | Furniture and Related Product Manufacturing | | | | |
| | | | | 339 | Miscellaneous Manufacturing | | | | |
| | Wholesale Trade | | | | | | | | |
| | | 42 | Wholesale Trade | | | | | | |
| | | | | 423 | Merchant Wholesalers, Durable Goods | | | | |
| | | | | 424 | Merchant Wholesalers, Nondurable Goods | | | | |
| | | | | 425 | Wholesale Trade Agents and Brokers | | | | |
| | Transportation, Warehou | | | | | | | | |
| | | 22 | Utilities | | | | | | |
| | | | | 221 | Utilities | | | | |
| | | 48-49 | Transportation and Warehousing | | | | | | |
| | | | | 481 | Air Transportation | | | | |
| | | | | 482 | Rail Transportation | | | | |
| | | | | 483 | Water Transportation | | | | |
| | | | | 484 | Truck Transportation | | | | |
| | | | | 485 | Transit and Ground Passenger Transportation | | | | |
| | | | | 486 | Pipeline Transportation | | | | |
| | | | | 487 | Scenic and Sightseeing Transportation | | | | |
| | | | | 488 | Support Activities for Transportation | | | | |
| | | | | 491 | Postal Service | | | | |
| | | | | 492 | Couriers and Messengers | | | | |
| | | | | 493 | Warehousing and Storage | | | | |
| Retail | I | | | | | | | | |
| | Retail Trade | | | | | | | | |
| | | 44-45 | Retail Trade | | | | | | |
| | | | | 441 | Motor Vehicle and Parts Dealers | | | | |
| | | | | 444 | Building Material and Garden Equipment and Supplies Dealers | | | | |
| | | | | 445 | Food and Beverage Retailers | | | | |
| | | | | 449 | Furniture, Home Furnishings, Electronics, and Appliance Retailers | | | | |
| | | | | 455 | General Merchandise Retailers | | | | |
| | | | | 456 | Health and Personal Care Retailers | | | | |
| | | | | 457 | Gasoline Stations and Fuel Dealers | | | | |
| | | | | 458 | Clothing, Clothing Accessories, Shoe, and Jewelry Retailers | | | | |
| | | | | 459 | Sporting Goods, Hobby, Musical Instrument, Book, and Miscellaneous Retailers | | | | |
| | | | | | | | | | |

TUMF Non-Residential Category Detailed NAICS Correspondence Summary

| TUMF Category | SCAG RTP/SCS | NAICS Two | | | e Digit Code |
|-----------------|-----------------------------|--------------|----------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Employment Categorie | s NAICS Cod | e NAICS Title | NAICS Code | e NAICS Title |
| ervice | | | | | |
| | Information | | | | |
| | | 51 | Information | | |
| | | | | 512 | Motion Picture and Sound Recording Industries |
| | | | | 513 | Publishing Industries |
| | | | | 516 | Broadcasting and Content Providers |
| | | | | | |
| | | | | 517 | Telecommunications |
| | | | | 518 | Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Service |
| | | | | 519 | Web Search Portals, Libraries, Archives, and Other Information Services |
| | Financial Activities | | | | |
| | | 52 | Finance and Insurance | | |
| | | | | 521 | Monetary Authorities-Central Bank |
| | | | | 522 | Credit Intermediation and Related Activities |
| | | | | 523 | Securities, Commodity Contracts, and Other Financial Investments and Related Activities |
| | | | | 524 | Insurance Carriers and Related Activities |
| | | | | 525 | Funds, Trusts, and Other Financial Vehicles |
| | | 53 | Real Estate and Rental and Le | | ronas, nosis, and other rindicial vehicles |
| | | - 33 | real Estate and Remail and Le | 531 | Pool Estato |
| | | | | | Real Estate |
| | | | | 532 | Rental and Leasing Services |
| | | | | 533 | Lessors of Nonfinancial Intangible Assets (except Copyrighted Works) |
| | Professional and Busine | ess Services | | | |
| | | 54 | Professional, Scientific, and Te | echnical Services | |
| | | | | 541 | Professional, Scientific, and Technical Services |
| | | 55 | Management of Companies | and Enterprises | |
| | | | | 551 | Management of Companies and Enterprises |
| | | 56 | Administrative and Support a | | ement and Remediation Services |
| | | 36 | Administrative and support di | | |
| | | | | 561 | Administrative and Support Services |
| | | | | 562 | Waste Management and Remediation Services |
| | Education and Health | | | | |
| | | 61 | Educational Services | | |
| | | | | 611 | Educational Services |
| | | 62 | Health Care and Social Assist | ance | |
| | | | | 621 | Ambulatory Health Care Services |
| | | | | 622 | Hospitals |
| | | | | 623 | Nursing and Residential Care Facilities |
| | | | | 624 | Social Assistance |
| | Leisure and Hospitality | - | | 024 | 30Clai Assistance |
| | Leisure and Hospitality | | Adv Foliadatamant and Bara | P | |
| | | 71 | Arts, Entertainment, and Recre | | |
| | | 1 | | 711 | Performing Arts, Spectator Sports, and Related Industries |
| | | | | | |
| | | | | 712 | Museums, Historical Sites, and Similar Institutions |
| | | | | | |
| | | 72 | Accommodation and Food Si | 712 713 | Museums, Historical Sites, and Similar Institutions |
| | | 72 | Accommodation and Food S | 712 713 ervices | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries |
| | | 72 | Accommodation and Food S | 712 713 ervices 721 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation |
| | Other Service | 72 | Accommodation and Food S | 712 713 ervices | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries |
| | Other Service | | | 712 713 ervices 721 722 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation |
| | Other Service | 72 | Accommodation and Food So | 712 713 ervices 721 722 Administration) | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places |
| | Other Service | | | 712 713 ervices 721 722 c Administration) | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance |
| | Other Service | | | 712 713 ervices 721 722 c Administration) 811 812 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services |
| | Other Service | | | 712 713 ervices 721 722 c Administration) | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance |
| | Other Service | | | 712 713 ervices 721 722 c Administration) 811 812 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services |
| vernment/Publi | | | | 712 713 ervices 721 722 c Administration) 811 812 813 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations |
| vernment/Publi | c Sector | | | 712 713 ervices 721 722 c Administration) 811 812 813 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations |
| overnment/Publi | | 81 | Other Services (except Public | 712 713 ervices 721 722 c Administration) 811 812 813 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations |
| overnment/Publi | c Sector | | | 712 713 ervices 721 722 2 Administration) 811 812 813 814 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 2 Administration) 811 812 813 814 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 2 Administration) 811 812 813 814 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 2 Administration) 811 812 813 814 921 922 923 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities Administration of Human Resource Programs |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 c Administration) 811 812 813 814 921 922 923 924 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities Administration of Human Resource Programs Administration of Furvionmental Quality Programs Administration of Environmental Quality Programs |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 2 Administration) 811 812 813 814 921 922 923 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities Administration of Human Resource Programs |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 ervices 721 722 c Administration) 811 812 813 814 921 922 923 924 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities Administration of Human Resource Programs Administration of Furvionmental Quality Programs Administration of Environmental Quality Programs |
| overnment/Publi | c Sector | 81 | Other Services (except Public | 712 713 713 ervices 721 722 2 Administration) 811 812 813 814 921 922 923 924 925 | Museums, Historical Sites, and Similar Institutions Amusement, Gambling, and Recreation Industries Accommodation Food Services and Drinking Places Repair and Maintenance Personal and Laundry Services Religious, Grantmaking, Civic, Professional, and Similar Organizations Private Households Executive, Legislative, and Other General Government Support Justice, Public Order, and Safety Activities Administration of Human Resource Programs Administration of Environmental Quality Programs Administration of Environmental Quality Programs Administration of Housing Programs, Urban Planning, and Community Development |

Source:

SCAG 2020 RTP/SCS
California Employment Development Department (EDD)
US Census Bureau, North American Industry Classification System (NAICS), 2022

| gory | SCAG RTP/SCS | NAICS Correspondence NAICS Two Digit Code | NAICS Three Digit Code | NAICS Six Digit Code |
|------|---------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| | | NAICS Code NAICS Title | NAICS Code NAICS Title | NAICS Code NAICS Title |
| | Farming, Natural Resource | es and Mining | | |
| | | 11 Agriculture, Forestry, Fish | ning and Hunting | |
| | | | 111 Crop Production | 111110 Soybean Farming |
| | | | | 111120 Oilseed (except Soybean) Farming |
| | | | | 111130 Dry Pea and Bean Farming 111140 Wheat Farming |
| | | | | 111140 Wheat Farming 111150 Corn Farming |
| | | | | 111160 Rice Farming |
| | | | | 111191 Oikeed and Grain Combination Farming |
| | | | | 111199 All Other Grain Farming 111211 Potato Farming |
| | | | | 111219 Other Vegetable (except Potato) and Melon Farming |
| | | | | 111310 Orange Groves |
| | | | | 111320 Citrus (except Orange) Groves |
| | | | | 111331 Apple Orchards 111332 Grape Vineyards |
| | | | | 111332 Grape Vineyards 111333 Strawberry Forming |
| | | | | 111334 Berry (except Strawberry) Farming |
| | | | | 111335 Tree Nut Farming |
| | | | | 111336 Fruit and Tree Nut Combination Farming 111339 Other Noncitrus Fruit Farming |
| | | | | 111411 Mushroom Production |
| | | | | 111419 Other Food Crops Grown Under Cover |
| | | | | 111421 Nursery and Tree Production |
| | | | | 111422 Floriculture Production 111910 Tobacco Farming |
| | | | | 111920 Cotton Farming |
| | | | | 111930 Sugarcane Farming |
| | | 1 | | 111940 Hay Farming |
| | | | | 111991 Sugar Beet Farming 111992 Peanut Farming |
| | | | | 111992 Pednut Farring 111998 All Other Miscellaneous Crop Farming |
| | | | 112 Animal Production and A | Aquaculture |
| | | | | 112111 Beef Cattle Ranching and Farming |
| | | | | 112112 Cattle Feedlots 112120 Dairy Cattle and Milk Production |
| | | | | 112130 Dual-Purpose Cattle Ranching and Farming |
| | | | | 112210 Hog and Pig Farming |
| | | | | 112310 Chicken Egg Production |
| | | | | 112320 Broilers and Other Meat Type Chicken Production 112330 Turkey Production |
| | | | | 112300 Tolkey Froducion 112300 Poultry Hatcheries |
| | | | | 112390 Other Poultry Production |
| | | | | 112410 Sheep Farming |
| | | | | 112420 Goat Farming 112511 Finfish Farming and Fish Hatcheries |
| | | | | 112512 Shellfish Farming |
| | | | | 112519 Other Aquaculture |
| | | | | 112910 Apiculture |
| | | | | 112920 Horses and Other Equine Production 112930 Fur-Bearing Animal and Rabbit Production |
| | | | | 112790 All Other Animal Production |
| | | | 113 Forestry and Logging | · |
| | | | | 113110 Timber Tract Operations |
| | | | | 113210 Forest Nurseries and Gathering of Forest Products 113310 Logging |
| | | | 114 Fishing, Hunting and Traj | poing |
| | | | | 114111 Finfish Fishing |
| | | | | 114112 Shellfish Fishing |
| | | | | 114119 Other Marine Fishing |
| | | 1 | 115 Support Activities for Agr | 114210 Hunting and Trapping |
| | | 1 | support Activities for Agr | 115111 Cotton Ginning |
| | | | | 115112 Soil Preparation, Planting, and Cultivating |
| | | | | 115113 Crop Harvesting, Primarily by Machine 115114 Postharvest Crop Activities (except Cotton Ginning) |
| | | | | 115114 Postharvest Crop Activities (except Cotton Ginning) 115115 Farm Labor Contractors and Crew Leaders |
| | | | | 115116 Farm Management Services |
| | | | | 115210 Support Activities for Animal Production |
| | | 21 Mining Oversing and | Oil and Gar Extraction | 115310 Support Activities for Forestry |
| | | 21 Mining, Quarrying, and C | 211 Oil and Gas Extraction | |
| | | | | 211120 Crude Petroleum Extraction |
| | | | | 211130 Natural Gas Extraction |
| | | | 212 Mining (except Oil and o | Gas) 212114 Surface Coal Minina |
| | | | | 212114 Surface Coal Mining 212115 Underground Coal Mining |
| | | | | 212210 Iron Ore Mining |
| | | | | 212220 Gold Ore and Silver Ore Mining |
| | | 1 | | 212230 Copper, Nickel, Lead, and Zinc Mining |
| | | 1 | | 212290 Other Metal Ore Mining 212311 Dimension Stone Mining and Quarrying |
| | | | | 212312 Crushed and Broken Limestone Mining and Quarrying |
| | | | | 212313 Crushed and Broken Granite Mining and Quarrying |
| | | | | 212319 Other Crushed and Broken Stone Mining and Quarrying |
| | | | | 212321 Construction Sand and Gravel Mining 212322 Industrial Sand Mining |
| | | 1 | | 212322 Industrial Sand Mining 212323 Kaolin, Clay, and Ceramic and Refractory Minerals Mining |
| | | | | 212390 Other Nonmetallic Mineral Mining and Quarrying |
| | | 1 | 213 Support Activities for Mir | ning |
| | | 1 | | 213111 Drilling Oil and Gas Wells |
| | | | | |
| | | | | 213112 Support Activities for Oil and Gas Operations 213113 Support Activities for Coal Mining |

NAICS Three Digit Code
NAICS Code NAICS Title NAICS Six Digit Code
NAICS Code NAICS Title 23 Construction 236 Construction of Buildings 236115 New Single-Family Housing Construction (except For-Sale Builders)
236116 New Multifamily Housing Construction (except For-Sale Builders)
236117 New Housing For-Sale Builders
236118 Residential Remodelers
236210 Industrial Building construction
236200 Commercial and institutional Building Construction
vetton 237 Heavy and Civil Engineering Co 37110 Water and Sewer Line and Related Structures Construction 237110 Water and Sewer Line and Related structures Construction
237130 Oil and Gas Pipeline and Related Structures Construction
237130 Power and Communication Line and Related Structures Construction
237310 Power and Communication Line and Related Structures Construction
237310 Highway, Street, and Bridge Construction
237970 Other Heavy and Civil Engineering Construction 239790 Other Heavy and Civil Engineering Construction

238110 Poured Concrete Foundation and Structure Contractors

238120 Structural Steel and Precast Concrete Contractors

238130 Framing Contractors

238140 Masonry Contractors

238140 Soloning Contractors

238190 Other Foundation, Structure, and Building Exterior Contractors

23820 Plumbing, Healting, and Air-Conditioning Contractors

238220 Plumbing, Healting, and Air-Conditioning Contractors

238321 Ophwale and Insalation Contractors

238330 Pointing and Wall Covering Contractors

238330 Pointing Contractors

238330 Illia and Iterazzo Contractors

238340 Illia and Iterazzo Contractors

238370 Silvin Cappenty Contractors

238371 Silvin Cappenty Contractors

238370 Silvin Cappenty Contractors

238371 Silvin Cappenty Contractors

238370 All Other Specially Trade Contractors

238370 All Other Specially Trade Contractors 238 Specialty Trade Contractors Manufacturing 31-33 Manufacturing | 31111 | Dog and Cat Food Manufacturing | 31119 | Other Animal Food Manufacturing | 311211 | Floor Milling | 311211 | Floor Milling | 311212 | Rice Milling | 311213 | Mail Manufacturing | 311213 | Mail Manufacturing | 311224 | Soybean and Other Olived Processing | 311224 | Soybean and Other Olived Processing | 311225 | Sot and Oils Refining and Blending | 311229 | Breakfast Cereal Manufacturing | 3113130 | Bees Sugar Manufacturing | 3113131 | Cane Sugar Manufacturing | 3113131 | Cane Sugar Manufacturing | 311331 | Cone Sugar Manufacturing Manufacturing from Cacao Bears | 3113132 | Conceilence Manufacturing morth-cased Chacolate | 311411 | Frozen Fruit, Juice, and Vegetable Manufacturing | 311411 | Frozen Fault, Juice, and Vegetable Manufacturing | 311412 | Frozen Speciality Food Manufacturing | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311412 | 311 311 Food Manufacturing 311412 Frozen Specialty Food Manufacturing
311421 Fruit and Vegetable Canning 312 Beverage and Tobacco Product N 312111 Soft Drink Manufacturing
312112 Bottled Water Manufacturing
312113 Ice Manufacturing
 312120
 Breweries

 312130
 Wineries

 312140
 Distilleries

 312230
 Tobacco Manufacturin
 313 Textile Mills 313110 Fiber, Yam, and Thread Mills
313210 Broadwaven Fabric, Mills
313220 Narrow Fabric, Mills and Schiffli Machine Embroidery
313230 Norwoven Fabric Mills
313240 Knil Fabric Mills
3133310 Testile and Fabric Finishing Mills
313330 Fabric Coating Mills 314 Textile Product Mills 314110 Carpet and Rug Mills 314120 Curtain and Linen Mill 314910 Textile Bag and Cany 314910 | Textile Bag and Canvas Mills 314994 | Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills 314999 | All Other Miscellaneous Textile Product Mills

315 Apparel Manufacturing

316 Leather and Allied Product

| 315120 | Apparel Krittling Mills | 315210 | Cut and Sew Apparel Contractors | 315250 | Cut and Sew Apparel Manufacturing (except Contractors) | 315290 | Apparel Accessories and Other Apparel Manufacturing | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525 | 41525

acturing
316110 Leather and Hide Tanning and Finishing
316210 Footwear Manufacturing
316990 Other Leather and Allied Product Manufacturing

| TUMF Non-Reside | ential Category Detailed | NAICS Correspondence | | | NAICS SIV DIGHT Code | | | | |
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| TUMF Category | SCAG RTP/SCS | NAICS Two Digit Code NAICS Code NAICS Title | NAICS Three NAICS Code | Digit Code NAICS Title | NAICS Six Di | git Code | | | |
| | poymen calegories | The state of the s | 321 | Wood Product Manufacturing | , code | pro | | | |
| | | | | | 321113 | Sawmills | | | |
| | | | | | 321114 | Wood Preservation | | | |
| | | | | | 321211 | Hardwood Veneer and Plywood Manufacturing | | | |
| | | | | | 321212 321215 | | | | |
| | | | | | 321215 | Engineered Wood Member Manufacturing Reconstituted Wood Product Manufacturing | | | |
| | | | | | 321911 | Wood Window and Door Manufacturing | | | |
| | | | | | 321912 | Cut Stock, Resawing Lumber, and Planing | | | |
| | | | | | 321918 | Other Millwork (including Flooring) | | | |
| | | | | | 321920 321991 | Wood Container and Pallet Manufacturing Manufactured Home (Mobile Home) Manufacturing | | | |
| | | | | | 321991 | Prefabricated Wood Building Manufacturing | | | |
| | | | | | 321999 | All Other Miscellaneous Wood Product Manufacturing | | | |
| | | | 322 | Paper Manufacturing | | | | | |
| | | | | | 322110 | Pulp Mills | | | |
| | | | | | 322120 | Paper Mills Paperboard Mills | | | |
| | | | | | 322130 322211 | Corrugated and Solid Fiber Box Manufacturing | | | |
| | | | | | 322212 | Folding Paperboard Box Manufacturing | | | |
| | | | | | 322219 | Other Paperboard Container Manufacturing | | | |
| | | | | | 322220 | Paper Bag and Coated and Treated Paper Manufacturing | | | |
| | | | | | 322230 | Stationery Product Manufacturing | | | |
| | | | | | | Sanitary Paper Product Manufacturing | | | |
| | | | 323 | Printing and Related Support Acti | 322299 vitios | All Other Converted Paper Product Manufacturing | | | |
| | | | 323 | ing and scaled support ACII | 323111 | Commercial Printing (except Screen and Books) | | | |
| | | | | | 323113 | Commercial Screen Printing | | | |
| | | | | | 323117 | Books Printing | | | |
| | | | L | | 323120 | Support Activities for Printing | | | |
| | | | 324 | Petroleum and Coal Products Ma | nufacturing 324110 | Petroleum Refineries | | | |
| | | | | | 324110 | Asphalt Paving Mixture and Block Manufacturing | | | |
| | | | | | 324122 | Asphalt Shingle and Coating Materials Manufacturing | | | |
| | | | | | 324191 | Petroleum Lubricating Oil and Grease Manufacturing | | | |
| | | | | | 324199 | All Other Petroleum and Coal Products Manufacturing | | | |
| | | | 325 | Chemical Manufacturing | 205110 | Detechanical Manufacture | | | |
| | | | | | 325110 | Petrochemical Manufacturing Industrial Gas Manufacturing | | | |
| | | | | | 325120 | Synthetic Dye and Pigment Manufacturing | | | |
| | | | | | | Other Basic Inorganic Chemical Manufacturing | | | |
| | | | | | 325193 | Ethyl Alcohol Manufacturing | | | |
| | | | | | 325194 | Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing | | | |
| | | | | | 325199 | All Other Basic Organic Chemical Manufacturing | | | |
| | | | | | 325211 325212 | Plastics Material and Resin Manufacturing Synthetic Rubber Manufacturing | | | |
| | | | | | 325212 | Artificial and Synthetic Fibers and Filaments Manufacturina | | | |
| | | | | | 325311 | Nitrogenous Fertilizer Manufacturing | | | |
| | | | | | | Phosphatic Fertilizer Manufacturing | | | |
| | | | | | | Fertilizer (Mixing Only) Manufacturing | | | |
| | | | | | 325315 | Compost Manufacturing Restlicted a good Other Agricultural Chamileal Manufacturing | | | |
| | | | | | 325320 | Pesticide and Other Agricultural Chemical Manufacturing Medicinal and Botanical Manufacturing | | | |
| | | | | | | Pharmaceutical Preparation Manufacturing | | | |
| | | | | | | In-Vitro Diagnostic Substance Manufacturing | | | |
| | | | | | 325414 | Biological Product (except Diagnostic) Manufacturing | | | |
| | | | | | | Paint and Coating Manufacturing | | | |
| | | | | | 325520 | Adhesive Manufacturing Soan and Other Detergent Manufacturing | | | |
| | | | | | 325611 | Soap and Other Detergent Manufacturing Polish and Other Sanitation Good Manufacturing | | | |
| | | | | | 325613 | Surface Active Agent Manufacturing | | | |
| | | | | | 325620 | Toilet Preparation Manufacturing | | | |
| | | | | | 325910 | | | | |
| | | | | | 325920 | Explosives Manufacturing | | | |
| | | | | | 325991 | Custom Compounding of Purchased Resins Photographic Film Paper Plate Chemical and Copy Toper Manufacturing | | | |
| | | | | | 325992 | Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing All Other Miscellaneous Chemical Product and Preparation Manufacturing | | | |
| | | | 326 | Plastics and Rubber Products Ma | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | 326111 | Plastics Bag and Pouch Manufacturing | | | |
| | | | | | 326112 | Plastics Packaging Film and Sheet (including Laminated) Manufacturing | | | |
| | | | | | 326113 326121 | Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing | | | |
| | | | | | 326121 326122 | Unlaminated Plastics Profile Shape Manufacturing Plastics Pipe and Pipe Fitting Manufacturing | | | |
| | | | | | | Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing | | | |
| | | | | | 326140 | Polystyrene Foam Product Manufacturing | | | |
| | | | | | 326150 | Urethane and Other Foam Product (except Polystyrene) Manufacturing | | | |
| | | | | | 326160 | Plastics Bottle Manufacturing | | | |
| | | | | | 326191 326199 | Plastics Plumbing Fixture Manufacturing All Other Plastics Product Manufacturing | | | |
| | | | | | 326211 | | | | |
| | | | | | 326212 | Tire Retreading | | | |
| | | | | | 326220 | Rubber and Plastics Hoses and Belting Manufacturing | | | |
| | | | | | 326291 | Rubber Product Manufacturing for Mechanical Use | | | |
| | | | 207 | Nonmotallic Micarel Braduct | 326299 | All Other Rubber Product Manufacturing | | | |
| | | | 327 | Nonmetallic Mineral Product Mar | 327110 | Pottery, Ceramics, and Plumbing Fixture Manufacturing | | | |
| | | | | | | Clay Building Material and Refractories Manufacturing | | | |
| | | | | | 327211 | Flat Glass Manufacturing | | | |
| | | | | | 327212 | Other Pressed and Blown Glass and Glassware Manufacturing | | | |
| | | | | | 327213 | | | | |
| | | | | | 327215 | Glass Product Manufacturing Made of Purchased Glass | | | |
| | | | | | 327310 327320 | | | | |
| | | | | | 327320 | Concrete Block and Brick Manufacturing | | | |
| | | | | | 327332 | Concrete Pipe Manufacturing | | | |
| | | | | | 327390 | Other Concrete Product Manufacturing | | | |
| | | | | | 327410 | Lime Manufacturing | | | |
| | | | | | 327420 | Gypsum Product Manufacturing | | | |
| | | i e | 1 | | 327910 | Abrasive Product Manufacturing Cut Stone and Stone Product Manufacturing | | | |
| | I | | | | | | | | |
| | | | | | 327991 327992 | | | | |
| | | | | | 327992 | Ground or Treated Mineral and Earth Manufacturing | | | |
| | | | | | 327992 | | | | |

TUMF Non-Residential Category Detailed NAICS Correspondence

| | SCAG RTP/SCS Employment Categories | NAICS Two Digit Code | NAICS Three Digit Code | NAICS Six Dig | if Code |
|-----|------------------------------------|--------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| - ' | Employment Categories | NAICS CODE NAICS IIIIe | NAICS Code NAICS Title 331 Primary Metal Manufacturing | NAICS Code | NAICS TIME |
| | | | 531 Filling Metal Manufacturing | 331110 | Iron and Steel Mills and Ferroalloy Manufacturing |
| | | | | 331210 331221 | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel Rolled Steel Shape Manufacturing |
| | | | | 331222 | Steel Wire Drawing |
| | | | | | Alumina Refining and Primary Aluminum Production Secondary Smelling and Alloying of Aluminum |
| | | | | | Aluminum Sheet, Plate, and Foil Manufacturing |
| | | | | 331318 | Other Aluminum Rolling, Drawing, and Extruding Nonferrous Metal (except Aluminum) Smelting and Refining |
| | | | | 331410 331420 | Copper Ralling, Drawing, Extruding, and Alloying |
| | | | | 331491 | Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding |
| | | | | 331492 331511 | Secondary Smelling, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum) Iron Foundries |
| | | | | 331512 | Steel Investment Foundries |
| | | | | 331513 331523 | Steel Foundries (except Investment) Nonferrous Metal Die-Casting Foundries |
| | | | | 331524 | Aluminum Foundries (except Die-Casting) |
| | | | 222 Embricated Matel Braduct Manufe | 331529 | Other Nonferrous Metal Foundries (except Die-Casting) |
| | | | 332 Fabricated Metal Product Manufo | 332111 | Iron and Steel Forging |
| | | | | 332112 | Nonferrous Forging |
| | | | | 332114 332117 | Custom Roll Forming Powder Metallurgy Part Manufacturing |
| | | | | 332119 | Metal Crown, Closure, and Other Metal Stamping (except Automotive) |
| | | | | 332215 332216 | Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing Saw Blade and Handtool Manufacturing |
| | | | | 332311 | Prefabricated Metal Building and Component Manufacturing |
| | | | | | Fabricated Structural Metal Manufacturing |
| | | | | 332313 332321 | Plate Work Manufacturing Metal Window and Door Manufacturing |
| | | | | 332322 | Sheet Metal Work Manufacturing |
| | | | | 332323 332410 | Ornamental and Architectural Metal Work Manufacturing Power Boiler and Heat Exchanger Manufacturing |
| | | | | 332420 | Metal Tank (Heavy Gauge) Manufacturing |
| | | | | 332431 332439 | Metal Can Manufacturing Other Metal Container Manufacturing |
| | | | | 332510 | Hardware Manufacturing |
| | | | | | Spring Manufacturing Other Fabricated Wire Product Manufacturing |
| | | | | 332710 | Machine Shops |
| | | | | 332721 332722 | Precision Turned Product Manufacturing |
| | | | | 332722 | Bolt, Nut, Screw, Rivet, and Washer Manufacturing Metal Heat Treating |
| | | | | | Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers |
| | | | | 332813 332911 | Electroplating, Plating, Polishing, Anodizing, and Coloring Industrial Valve Manufacturing |
| | | | | 332912 | Fluid Power Valve and Hose Fitting Manufacturing |
| | | | | 332913 332919 | Plumbing Fixture Fitting and Trim Manufacturing Other Metal Valve and Pipe Fitting Manufacturing |
| | | | | 332991 | Ball and Roller Bearing Manufacturing |
| | | | | 332992 332993 | Small Arms Ammunition Manufacturing Ammunition (except Small Arms) Manufacturing |
| | | | | 332994 | Small Arms, Ordnance, and Ordnance Accessories Manufacturing |
| | | | | 332996 | Fabricated Pipe and Pipe Fitting Manufacturing |
| | | | 333 Machinery Manufacturing | 332999 | All Other Miscellaneous Fabricated Metal Product Manufacturing |
| | | | | 333111 | Farm Machinery and Equipment Manufacturing |
| | | | | 333112 333120 | Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing Construction Machinery Manufacturing |
| | | | | 333131 | Mining Machinery and Equipment Manufacturing |
| | | | | 333132 333241 | Oil and Gas Field Machinery and Equipment Manufacturing Food Product Machinery Manufacturing |
| | | | | | Semiconductor Machinery Manufacturing |
| | | | | 333243 333248 | Sawmill, Woodworking, and Paper Machinery Manufacturing |
| | | | | | All Other Industrial Machinery Manufacturing Commercial and Service Industry Machinery Manufacturing |
| | | | | 333413 | Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing |
| | | | | 333414 333415 | Heating Equipment (except Warm Air Fumaces) Manufacturing Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Man |
| | | | | 333511 | Industrial Mold Manufacturing |
| | | | | 333514 333515 | Special Die and Tool, Die Set, Jig, and Fixture Manufacturing Cutting Tool and Machine Tool Accessory Manufacturing |
| | | | | 333517 | Machine Tool Manufacturing |
| | | | | 333519 | Rolling Mill and Other Metalworking Machinery Manufacturing |
| | | | | 333612 | Turbine and Turbine Generator Set Units Manufacturing Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing |
| | | | | 333613 | Mechanical Power Transmission Equipment Manufacturing |
| | | | | 333618 333912 | Other Engine Equipment Manufacturing Air and Gas Compressor Manufacturing |
| | | | | 333914 | Measuring, Dispensing, and Other Pumping Equipment Manufacturing |
| | | | | 333921 333922 | Elevator and Moving Stairway Manufacturing Conveyor and Conveying Equipment Manufacturing |
| | I | | I | 333923 | Overhead Traveling Crane, Hoist, and Monorail System Manufacturing |
| | I | | | | Overload naveling crane, near, and monoral dystern maneracioning |
| | | | | 333924 | Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing |
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NAICS Three Digit Code
NAICS Code NAICS Title
335 Electrical E and Component Manufacturing
335131 Residential Electric Lighting Fixture Manufacturing
335132 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing
335132 Electric Lamp Bulb and Other Lighting Equipment Manufacturing 33319 Electric Lamp Bulb and Other Lighting Equipment Manufacturing
335210 Smal Beethical Appliance Manufacturing
335210 Major Household Appliance Manufacturing
335311 Power Distribution and Specialty Internationer Manufacturing
335312 Motor and Generator Manufacturing
335313 Switche Programment Control Manufacturing
335313 Switcheger and Switchboard Apparatus Manufacturing
335313 Switcheger and Switchboard Apparatus Manufacturing
335311 Peer Optic Catale Manufacturing
335910 Battery Manufacturing
335911 Fiber Optic Catale Manufacturing
335921 Current-Carving Willing Device Manufacturing
335931 Current-Carving Willing Device Manufacturing
335931 Current-Carving Willing Device Manufacturing
335931 Current-Carving Willing Device Manufacturing
335991 Carbon and Graphier Product Manufacturing
335991 Carbon and Graphier Product Manufacturing
335991 All Other Miscellaneous Electrical Equipment and Component Manufacturing 336 Transportation Equipment Manufacturing
38610 Automobile and light Duty Motor Vehicle Manufacturing
38610 Heavy Duty Tuck Manufacturing
38611 Index Methodicularing
38621 Tuck Teller Manufacturing
38621 Tuck Teller Manufacturing
38621 Tuck Teller Manufacturing 386212 Incl. Verbier Benather Street Benather Be Military Amored Vehicle, Tank, and Tank Component Manufacturing All Other Transportation Equipment Manufacturing 337 Furniture and Related Product Ma activing
337110 Wood Klichen Cabinet and Countertop Manufacturing
337121 Uphostered Household Furniture Manufacturing
337121 Uphostered Household Furniture Manufacturing
337122 Nonuphostered Wood Household Furniture Manufacturing
337124 Nonuphostered Wood Household Furniture Manufacturing
337126 Institutional Furniture Manufacturing
337211 Vood Office Furniture Wanufacturing
337212 Custom Architectural Woodwork and Milwork Manufacturing
337212 Showcase, Partition, Shekving, and Locker Manufacturing
337215 Showcase, Partition, Shekving, and Locker Manufacturing 337910 Mattress Manufacturing 337920 Blind and Shade Manufacturing 339 Miscellaneous Manufacturing 339112 Surgical and Medical Instrument Manufacturing 339112 Surgical and Medical Instrument Manufachuring
339113 Surgical Appliance and Supplets Manufachuring
339113 Dental Equipment and Supplets Manufachuring
339115 Dental Equipment and Supplets Manufachuring
339115 Dental Educations
33910 Dental Laboratories
33990 Sporting and Althelfa Goods Manufachuring
33990 Sporting and Althelfa Goods Manufachuring
33990 Office Supplies (except Paper) Manufachuring
33990 Office Supplies (except Paper) Manufachuring
33990 Gastel, Posting, and Seding Device Manufachuring
33999 Sporting Control 42 Wholesale Trade 423 Merchant Wholesalers, Durable Goods

423110 Automobile and Other Motor Vehicle Merchant Wholesalers
423120 Motor Vehicle Supplies and New Parts Merchant Wholesalers
423130 Tire and Tube Merchant Wholesalers
423130 Tire and Tube Merchant Wholesalers
423140 Motor Vehicle Parts (Used) Merchant Wholesalers Passandaries usid unite muturi versicle Metricinal mindesciels

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423130 Tire and Tube Merchant Wholescieles

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423430 Office Equipment Merchant Wholescieles

423440 Office Equipment Merchant Wholescieles

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423460 Ophther Commercial Equipment Merchant Wholescieles

423460 Ophther Profescional Equipment and Supplies Merchant Wholescieles

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423480 Ophther Profescional Equipment and Supplies Merchant Wholescieles

423490 Other Profescional Equipment and Supplies Merchant Wholescieles

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423850 Service Establishment Egujpment and Supplies Merchant Wholesolers
423861 Transportation Equipment and Supplies Merchant Wholesolers
423910 Sopfang and Recreditional Goods and Supplies Merchant Wholesolers
423910 Toy and Hobby Goods and Supplies Merchant Wholesolers
423910 Toy and Hobby Goods and Supplies Merchant Wholesolers
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NAICS Three Digit Code
NAICS Code NAICS Title
424 Merchant NAICS Six Digit Code NAICS Code NAICS Title Printing and Writing Paper Merchant Wholesalers
Stationery and Office Supplies Merchant Wholesalers
Industrial and Personal Service Paper Merchant Wholesale Drugs and Druggists' Sundries Merchant Wholesalers Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers 425 Wholesale Trade Agents and Brokers 425120 Wholesale Trade Agents and Brokers Transportation, Warehousing and Utilities 22 Utilities 221 Utilities 221111 Hydroelectric Power Generation
221112 Fosis Five Bactric Power Generation
221113 Nuclear Beactric Power Generation
221114 Suckear Beactric Power Generation
221114 Solar Beactric Power Generation
221115 Geothermal Electric Power Generation
221116 Genthermal Electric Power Generation
221118 Other Beactric Power Generation
221118 Other Beactric Power Generation
221112 Beactric Power Generation
2211212 Beactric Power Distribution and Control
2211210 Natural Gas Distribution
221310 Water Supply and Irrigation Systems
221320 Sewage Readment Facilities 221320 Sewage Treatment Facilities 221330 Steam and Air-Conditioning Supply 48-49 Transportation and Warehousing 481 Air Transportation 481111 Scheduled Passenger Air Transportation 481112 Scheduled Folgenijk Air Transportation 481211 Nonscheduled Charlered Passenger Air Transportation 481212 Nonscheduled Charlered Passenger Air Transportation 481219 Other Nonscheduled Air Transportation 482 Rail Transportation 482111 Line-Haul Railroads 482112 Short Line Railroads 483 Water Transportation 483111 Deep Sea Freight Transportation
483112 Deep Sea Passenger Transportation
483113 Coastal and Great Lakes Freight Transportation 483114 Coastal and Great Lakes Passenger Transportati 483211 Inland Water Freight Transportation 483212 Inland Water Passenger Transportation 484 Truck Transportation 484110 General Freight Trucking, Loca 484110 General Freight Trucking, Local
484121 General Freight Trucking, Long Distance, Truckload
484122 General Freight Trucking, Long-Distance, Less Than Truckload
484120 Seneral Freight Trucking, Long-Distance, Less Than Truckload
484210 Specialized Freight (except Used Goods) Trucking, Local
484220 Specialized Freight (except Used Goods) Trucking, Long-Distansionation
485111 Mixed Mode Transit Systems
4851112 Commuter Red Systems
485113 Bus and Other Motor Vehicle Transit Systems
485119 Other Urban Transit Systems 485 Transit and Ground Passenge 485113 Bus and Dilher Motor Venicle Inrisit Systems
485119 Other Urban Transit Systems
485210 Interurban and Rural Bus Transportation
485310 Tax and Ridesharing Services
485310 Limousine Service
485410 School and Employee Bus Transportation
48510 Charter Bus Industry
485910 Special Needs Transportation
485999 All Other Transit and Ground Passenger Transportation 486 Pipeline Transportation 486110 Pipeline Transportation of Crude Oil
486210 Pipeline Transportation of Natural Gas
486910 Pipeline Transportation of Refined Petroleum Products
486990 All Other Pipeline Transportation 487 Scenic and Sightseeing Transpor Air Traffic Control
 Air Traffic Control
 Other Airport Operations
 Air Traffic Control
 Other Airport Operations
 Air Transportation
 Other Support Activities for Air Transportation
 Air Transportation 488 Support Activities for Trans 488991 Packing and Crating
488999 All Other Support Activities for Transportation 491 Postal Service 491110 Postal Service 492 Couriers and Messengers 492110 Couriers and Express Delivery Services 492210 Local Messengers and Local Delivery 493 Warehousing and Storage 493110 General Warehousing and Storage 493120 Refrigerated Warehousing and Storage 493130 Farm Product Warehousing and Storage 493190 Other Warehousing and Storage

| | d NAICS Correspondence |
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|---------------|--------------|---------------------------------------------|-------------|------------------------------------|------------------|-------------------------------------------------------------------------------------------------|
| TUMF Category | | NAICS Two Digit Code NAICS Code NAICS Title | NAICS Three | NAICS Title | NAICS Six Di | NAICS Title |
| Retail | | | , | 1 | , | |
| | Retail Trade | | | | | |
| | | 44-45 Retail Trade | | | | |
| | | | 441 | Motor Vehicle and Parts Dealers | | |
| | | | | | 441110 | New Car Dealers |
| | | | | | 441120 | Used Car Dealers |
| | | | | | 441210 | Recreational Vehicle Dealers |
| | | | | | 441222 | Boat Dealers |
| | | | | | 441227 | Motorcycle, ATV, and All Other Motor Vehicle Dealers Automotive Parts and Accessories Retailers |
| | | | | | 441330 441340 | Tire Dealers |
| | | | 444 | Building Material and Garden Equ | | |
| | | | | bonding material and odiacii Equ | 444110 | Home Centers |
| | | | | | 444120 | Paint and Wallpaper Retailers |
| | | | | | 444140 | Hardware Retailers |
| | | | | | 444180 | Other Building Material Dealers |
| | | | | | 444230 | Outdoor Power Equipment Retailers |
| | | | | | 444240 | Nursery, Garden Center, and Farm Supply Retailers |
| | | | 445 | Food and Beverage Retailers | 1 445110 | |
| | | | 1 | | 445110 | Supermarkets and Other Grocery Retailers (except Convenience Retailers) |
| | | | | | 445131 445132 | Convenience Retailers Vending Machine Operators |
| | | | 1 | | 445132 | Fruit and Vegetable Retailers |
| | | | 1 | | 445240 | Meat Retailers |
| | | | | | 445250 | Fish and Seafood Retailers |
| | | | | | 445291 | Baked Goods Retailers |
| | | | | | 445292 | Confectionery and Nut Retailers |
| | | | | | 445298 | All Other Specialty Food Retailers |
| | | | | | 445320 | Beer, Wine, and Liquor Retailers |
| | | | 449 | Furniture, Home Furnishings, Elect | | |
| | | | | | 449110 | Furniture Retailers |
| | | | | | 449121 | Floor Covering Retailers |
| | | | | | 449122 449129 | Window Treatment Retailers All Other Home Furnishings Retailers |
| | | | | | 449210 | Electronics and Appliance Retailers |
| | | | 455 | General Merchandise Retailers | 447210 | Exercises and Application revisions |
| | | | | | 455110 | Department Stores |
| | | | | | 455211 | Warehouse Clubs and Supercenters |
| | | | | | 455219 | All Other General Merchandise Retailers |
| | | | 456 | Health and Personal Care Retailer | | |
| | | | | | 456110 | Pharmacies and Drug Retailers |
| | | | | | 456120 | Cosmetics, Beauty Supplies, and Perfume Retailers |
| | | | | | 456130 | Optical Goods Retailers |
| | | | | | 456191 | Food (Health) Supplement Retailers |
| | | | 457 | Gasoline Stations and Fuel Dealer | 456199 | All Other Health and Personal Care Retailers |
| | | | 457 | Cascade Signons and Foel Degler | 457110 | Gasoline Stations with Convenience Stores |
| | | | | | 457110 | Other Gasoline Stations |
| | | | | | 457210 | Fuel Dealers |
| | | | 458 | Clothing, Clothing Accessories, SI | | elry Retailers |
| | | | | | 458110 | Clothing and Clothing Accessories Retailers |
| | | | | | 458210 | Shoe Refailers |
| | | | | | 458310 | Jewelry Retailers |
| | | | | | 458320 | Luggage and Leather Goods Retailers |
| | | | 459 | Sporting Goods, Hobby, Musical I | | |
| | | | 1 | | 459110 459120 | Sporting Goods Retailers |
| | | | 1 | | 459120 | Hobby, Toy, and Game Retailers Sewing, Needlework, and Piece Goods Retailers |
| | | | 1 | | 459140 | Musical Instrument and Supplies Retailers |
| | | | | | 459210 | Book Retailers and News Dealers |
| | | | | | 459310 | Florists |
| | | | | | 459410 | Office Supplies and Stationery Retailers |
| | | | | | 459420 | Gift, Novelty, and Souvenir Retailers |
| | | | | | 459510 | Used Merchandise Retailers |
| | | | | | 459910 | Pet and Pet Supplies Retailers |
| | | | | | 459920 | Art Dealers |
| | | | | | 459930 | Manufactured (Mobile) Home Dealers |
| | | | | | 459991 | Tobacco, Electronic Cigarette, and Other Smoking Supplies Retailers |
| | | | 1 | | 459999 | All Other Miscellaneous Retailers |

NAICS Six Digit Code
NAICS Code | NAICS Title 51 Information 512 Motion Picture and Sound Recording Industries 513 Publishing Industries 513110 Newspaper Publishers
513120 Periodical Publishers
513130 Book Publishers
513140 Directory and Mailing List Publishers
513191 Greefing Card Publishers
513197 All Other Publishers
513210 Software Publishers 516 Broadcasting and Content Provi 517 Telecommunications 519210 Libraries and Archives 519290 Web Search Portals and All Other Information Services Financial Activities 52 Finance and Insurance 521 Monetary Authorities-Central Bank S21110 Monetary Authorities-Central Bank
S22 Credit Intermediation and Related Activities Activities

522110 Commercial Banking
522130 Credit Unions
522130 Credit Unions
522130 Credit Unions
522180 Savings Institutions and Other Depository Credit Intermediation
522210 Credit Card Issuing
522220 Sates Financing
522229 Sates Financing
522229 Real Estate Credit
522229 Real Estate Credit
522229 Real Estate Credit
522230 Mortgage and Normortgage Loon Brokers
522330 Mortgage and Normortgage Loon Brokers
522330 Other Activities Related to Credit Intermediation
522330 Other Activities Related to Credit Intermediation
52330 Other Activities Related to Credit Intermediation
60ther Financial Intermediation
60ther Financial Intermediation
60ther Financial Intermediation 524 Insurance Carriers and Related Activities Civiliaes

S24113 Direct Hiel Insurance Carriers

S24114 Direct Health and Medical Insurance Carriers

S24112 Direct Health and Medical Insurance Carriers

S24126 Direct Property and Casually Insurance Carriers

S24127 Direct Tille Insurance Carriers

S24128 Other Direct Insurance (except Life, Health, and Medical) Carriers

S24130 Reinsurance Carriers

S24210 Insurance Agencies and Brokerages

S24291 Carriers

S24292 Pharmacy Benefit Management and Other Third Party Administration of Insurance and Pension Funds

| | | | 524292 | Pharmacy Benefit Management and Other Third Party Administration of Insurance and Pension Funds |
|--------------------------------------|-----|------------------------------------|----------|-------------------------------------------------------------------------------------------------|
| | | | 524298 | All Other Insurance Related Activities |
| | 525 | Funds, Trusts, and Other Financial | Vehicles | |
| | | | 525110 | Pension Funds |
| | | | 525120 | Health and Welfare Funds |
| | | | 525190 | Other Insurance Funds |
| | | | 525910 | Open-End Investment Funds |
| | | | 525920 | Trusts, Estates, and Agency Accounts |
| | | | 525990 | Other Financial Vehicles |
| 53 Real Estate and Rental and Leasin | g | | | |
| | 531 | Real Estate | | |
| | | | 531110 | Lessors of Residential Buildings and Dwellings |
| | | | 531120 | Lessors of Nonresidential Buildings (except Miniwarehouses) |
| | | | 531130 | Lessors of Miniwarehouses and Self-Storage Units |
| | | | 531190 | Lessors of Other Real Estate Property |
| | | | 531210 | Offices of Real Estate Agents and Brokers |
| | | | 531311 | Residential Property Managers |
| | | | 531312 | Nonresidential Property Managers |
| | | | 531320 | Offices of Real Estate Appraisers |
| | | | 531390 | Other Activities Related to Real Estate |
| | 532 | Rental and Leasing Services | | |
| | | | 532111 | Passenger Car Rental |
| | | | 532112 | Passenger Car Leasing |
| | | | 532120 | Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing |
| | | | 532210 | Consumer Electronics and Appliances Rental |
| | | | 532281 | Formal Wear and Costume Rental |
| | | | 532282 | Video Tape and Disc Rental |
| | | | 532283 | Home Health Equipment Rental |
| | | | 532284 | Recreational Goods Rental |
| | | | 532289 | All Other Consumer Goods Rental |
| | | | 532310 | General Rental Centers |
| | | | 532411 | Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing |
| | | | 532412 | Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing |
| | | | 532420 | Office Machinery and Equipment Rental and Leasing |
| | | | 532490 | Other Commercial and Industrial Machinery and Equipment Rental and Leasing |
| | 533 | Lessors of Nonfinancial Intangible | | |
| | | | 533110 | Lessors of Nonfinancial Intangible Assets (except Copyrighted Works) |
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| | SCAG RTP/SCS | NAICS Two Digit Code | NAICS Three Digit Code | NAICS Six Dig | git Code |
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| F Category | | NAICS Code NAICS Title | NAICS Code NAICS Tifle | NAICS Code | NAICS Title |
| | Professional and Business | Services | | | |
| | | 54 Professional, Scientific, and Tech | | h - t 1 6 t | |
| | | | 541 Professional, Scientific, and Tecl | 541110 | Offices of Lawyers |
| | | | | 541120 | Offices of Notaries |
| | | | | 541191 | Title Abstract and Settlement Offices |
| | | | | 541199 | All Other Legal Services |
| | | | | 541211 541213 | Offices of Certified Public Accountants Tax Preparation Services |
| | | | | | Payroll Services |
| | | | | 541219 | Other Accounting Services |
| | | | | 541310 | Architectural Services |
| | | | | 541320 | Landscape Architectural Services |
| | | | | 541330 541340 | Engineering Services Drafting Services |
| | | | | | Building Inspection Services |
| | | | | 541360 | Geophysical Surveying and Mapping Services |
| | | | | 541370 | Surveying and Mapping (except Geophysical) Services |
| | | | | 541380 | Testing Laboratories and Services |
| | | | | 541410 | Interior Design Services Industrial Design Services |
| | | | | 541430 | Graphic Design Services |
| | | | | 541490 | Other Specialized Design Services |
| | | | | 541511 | Custom Computer Programming Services |
| | | | | 541512 | Computer Systems Design Services |
| | | | | 541513 | Computer Facilities Management Services |
| | | | | 541519 541611 | Other Computer Related Services Administrative Management and General Management Consulting Services |
| | | | | 541612 | Human Resources Consulting Services |
| | | | | | Marketing Consulting Services |
| | | | | 541614 | Process, Physical Distribution, and Logistics Consulting Services |
| | | | | | Other Management Consulting Services |
| | | | | 541620 541690 | Environmental Consulting Services Other Scientific and Technical Consulting Services |
| | | | | | Research and Development in Nanotechnology |
| | | | | 541714 | Research and Development in Biotechnology (except Nanobiotechnology) |
| | | | | 541715 | Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotec |
| | | | | | Research and Development in the Social Sciences and Humanities |
| | | | | 541810 541820 | Advertising Agencies Public Relations Agencies |
| | | | | 541830 | Media Buying Agencies |
| | | | | 541840 | Media Representatives |
| | | | | 541850 | Indoor and Outdoor Display Advertising |
| | | | | 541860 | Direct Mail Advertising |
| | | | | 541870 541890 | Advertising Material Distribution Services Other Services Related to Advertising |
| | | | | 541910 | Marketing Research and Public Opinion Polling |
| | | | | 541921 | Photography Studios, Portrait |
| | | | | 541922 | Commercial Photography |
| | | | | 541930 | Translation and Interpretation Services |
| | | | | 541940 | Veterinary Services |
| | | 55 Management of Companies and | Enterprises | 541990 | All Other Professional, Scientific, and Technical Services |
| | | | | | |
| | | | 551 Management of Companies an | d Enterprises | |
| | | | 551 Management of Companies an | 551111 | Offices of Bank Holding Companies |
| | | - | 551 Management of Companies an | 551111 551112 | Offices of Other Holding Companies |
| | | | | 551111 | Offices of Bank Holding Companies Offices of Other Holding Companies Corporate, Subsidiary, and Regional Managing Offices |
| | | | Vaste Management and Remediation Services | 551111 551112 551114 | Offices of Other Holding Companies |
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| | | | Vaste Management and Remediation Services | SS 111 | Offices of Other Hodina Companies Corporate, Subsidary, and Regional Managing Offices Office Administrative Services Facilities Support Services Employment Placement Agencies Executive Search Services Temporary Help Services Telephone Answering Services |
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TUMF Non-Residential Category Detailed NAICS Correspondence
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Education and Health Services NAICS Three Digit Code NAICS Code NAICS Title NAICS Six Digit Code NAICS Code NAICS Title rvices 61 Educational Services 611 Educational Services 611110 Elementary and Secondary Schools 611210 Junior Colleges 611310 Colleges, Universifies, and Professional Schools 611310 Colleges universities, one recessional scricols
611410 Business and Secretariol Schools
611420 Compoter training
611420 Compoter training
611511 Commeltog and barde Schools
611512 Fight Training
611513 Apprenticating training
611513 Apprenticating training
611519 Other technical and trade Schools
611510 Other technical and trade Schools All 519 Other Technicol and Iradia schools
 All 520 Sports and Recreation Instruction
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221112 Offices of Physicians, Mental Health Specialists
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221330 Offices of Physicians
221330 Offices of Physicians
221331 Offices of Mental Health Practitioners (except Physicians)
221340 Offices of Physicians
221341 Offices of Physicians
221341 Offices of Podatists
221341 Offices of Podatists
221410 Farmy Planning Centers
221421 Outpotient Mental Health and Substance Abuse Centers
221421 Ediney Diolysis Centers
221424 Island Mental Health and Substance Abuse Centers
221425 Research (except Physicians)
221426 All Other Outpotient Care Centers
221427 Island (except Physicians)
221428 All Other Outpotient Care Centers
221429 Diagnostic imadina Centers
221431 Diagnostic imadina Centers
221431 Diagnostic imadina Centers
221431 Blood and Organ Banks
221431 Blood and Organ Banks
221431 General Medical and Sanalcal Hospitals 621 Ambulatory Health Care Services 622 Hospitals 622110 General Medical and Surgical Hospitals
622210 Psychiatric and Substance Abuse Hospitals
622310 Specialty (except Psychiatric and Substance Abuse) Hospitals 623 Nursing and Residential Care Facilities 623110 Nursing Care Facilities (Skilled Nursing Facilities) musing Cote rocathes (Milea Nuring Focilities)
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423210 Residential Mental Health and Substance Abuse Facilities
423311 Continuing Core Relitement Community
423311 Continuing Core Relitement Comm 624 Social Assistance 624110 Child and Youth Services 624110 Child and Youth Services
624120 Services for the Biderly and Persons with Disabilities
624190 Other Individual and Family Services
624210 Community Food Services
624221 Temporary Sheltes
624229 Other Community Housing Services
624229 Emergency and Other Relief Services
624230 Excellent Services
624310 Vocalional Rehabilitation Services
624310 Child Care Services 71 Arts, Enlerfolimment, and Recreation

711 Performing Arts, Spectator Sports, and Related Industries

711 (Theater Companies and Dinner Theaters 71110) Dence Companies and Dinner Theaters 711120 Dence Companies and Dinner Theaters 711130 Dence Companies and Dinner Theaters 711130 Dence Companies 711130 Dence Companies 711130 Dence Companies 711212 Dence Technology Arts Companies 711212 Received Clubs 711212 Recei Leisure and Hospitality

713 Amusement, Gambling, and Recredion Industries
713 Amusement, Gambling, and Recredion Industries
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| TUMF Category | SCAG RTP/SCS | NAICS Two | | NAICS Three | | NAICS Six Dig | git Code |
| | Employment Categories | | | NAICS Code | NAICS liftle | NAICS Code | NAICS lifte |
| | | 72 | Accommodation and Food Service | | | | |
| | | | | 721 | Accommodation | | |
| | | | | | | 721110 721120 | Hotels (except Casino Hotels) and Motels |
| | | | | | | 721120 | Casino Hotels Bed-and-Breakfast Inns |
| | | | | | | 721191 | All Other Traveler Accommodation |
| | | | | | | 7211199 | RV (Recreational Vehicle) Parks and Camparounds |
| | | | | | | 721211 | Recreational and Vacation Camps (except Campgrounds) |
| | | | | | | 721310 | Rooming and Boarding Houses, Dormitories, and Workers' Camps |
| | | | | 722 | Food Services and Drinking Place | | Recoming and addraing noises, Dominoles, and workers earnps |
| | | | | 722 | Toda services and Dilliking Flace | 722310 | Food Service Contractors |
| | | | | | | 722320 | Caterers |
| | | | | | | 722330 | Mobile Food Services |
| | | | | | | 722410 | Drinking Places (Alcoholic Beverages) |
| | | | | | | 722511 | Ful-Service Restaurants |
| | | | | | | 722513 | Limited-Service Restaurants |
| | | | | | | 722514 | Cafeterias, Grill Buffets, and Buffets |
| | | | | | | 722515 | Snack and Nonalcoholic Beverage Bars |
| | Other Service | | | | | | - |
| | | 81 | Other Services (except Public Adr | ministration) | | | |
| | | | | 811 | Repair and Maintenance | | |
| | | | | | | 811111 | General Automotive Repair |
| | | 1 | | | | 811114 | Specialized Automotive Repair |
| | | | | | | 811121 | Automotive Body, Paint, and Interior Repair and Maintenance |
| | | | | | | 811122 | Automotive Glass Replacement Shops |
| | | | | | | 811191 | Automotive Oil Change and Lubrication Shops |
| | | | | | | 811192 | Car Washes |
| | | | | | | 811198 | All Other Automotive Repair and Maintenance |
| | | | | | | 811210 | Electronic and Precision Equipment Repair and Maintenance |
| | | | | | | 811310 | Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance |
| | | | | | | 811411 | Home and Garden Equipment Repair and Maintenance |
| | | | | | | 811412 | Appliance Repair and Maintenance |
| | | | | | | 811420 | Reupholstery and Furniture Repair |
| | | | | | | 811430 | Footwear and Leather Goods Repair |
| | | | | | Barrer of an el large de Carda a | 811490 | Other Personal and Household Goods Repair and Maintenance |
| | | | | 812 | Personal and Laundry Services | 812111 | Darker Share |
| | | | | | | 812111 | Barber Shops Beauty Salons |
| | | | | | | 812113 | Nail Salons |
| | | | | | | 812113 | Diet and Weight Reducing Centers |
| | | | | | | 812199 | Other Personal Care Services |
| | | | | | | 812210 | Funeral Homes and Funeral Services |
| | | | | | | 812220 | Cemeteries and Crematories |
| | | 1 | | | | 812310 | Coin-Operated Laundries and Drycleaners |
| | | | | | | 812320 | Drycleaning and Laundry Services (except Coin-Operated) |
| | | 1 | | | | 812331 | Linen Supply |
| | | | | | | 812332 | Industrial Launderers |
| | | 1 | | | | 812910 | Pet Care (except Veterinary) Services |
| | | 1 | | | | 812921 | Photofinishing Laboratories (except One-Hour) |
| | | | | | | 812922 | One-Hour Photofinishing |
| | | 1 | | | | 812930 | Parking Lots and Garages |
| | | 1 | | | | 812990 | All Other Personal Services |
| | | 1 | | 813 | Religious, Grantmaking, Civic, Pre | | |
| | | 1 | | | | 813110 | Religious Organizations |
| | | 1 | | | | 813211 | Grantmaking Foundations |
| | | 1 | | | | 813212 | Voluntary Health Organizations |
| | | 1 | | | | 813219 | Other Grantmaking and Giving Services |
| | | 1 | | | | 813311 | Human Rights Organizations |
| | | 1 | | | | 813312 | Environment, Conservation and Wildlife Organizations |
| | | 1 | | | | 813319 | Other Social Advocacy Organizations |
| | | 1 | | | | 813410 | Civic and Social Organizations |
| | | 1 | | | | 813910 | Business Associations |
| | | 1 | | | | 813920 | Professional Organizations |
| | | 1 | | | | 813930 | Labor Unions and Similar Labor Organizations |
| | | 1 | | | | 813940 | Political Organizations |
| | | 1 | | | | 813990 | Other Similar Organizations (except Business, Professional, Labor, and Political Organizations) |
| | | | | 814 | Private Households | | |
| | | | | 1 | | 814110 | Private Households |

| | ential Category Detailed | | 1 | | 1 | |
|------------------|------------------------------|--------------------------|-------------|-----------------------------------|--------------|-------------------------------------------------------------------------------------------------------------|
| TUMF Category | | NAICS Two Digit Code | NAICS Three | Digit Code | NAICS Six Di | |
| | Employment Categories | NAICS Code NAICS lifle | NAICS Code | NAICS Title | NAICS Code | NAICS TITLE |
| Government/Publi | | | | | | |
| | Government | | | | | |
| | | 92 Public Administration | | | | |
| | | | 921 | Executive, Legislative, and Other | | |
| | | | | | 921110 | Executive Offices |
| | | | | | 921120 | Legislative Bodies |
| | | | | | 921130 | Public Finance Activities |
| | | | | | 921140 | Executive and Legislative Offices, Combined |
| | | | | | 921150 | American Indian and Alaska Native Tribal Governments |
| | | | | | 921190 | Other General Government Support |
| | | | 922 | Justice, Public Order, and Safety | | |
| | | | | | 922110 | Courts |
| | | | | | 922120 | Police Protection |
| | | | | | 922130 | Legal Counsel and Prosecution |
| | | | | | 922140 | Correctional Institutions |
| | | | | | 922150 | Parole Offices and Probation Offices |
| | | | | | 922160 | Fire Protection |
| | | | | | 922190 | Other Justice, Public Order, and Safety Activities |
| | | | 923 | Administration of Human Resourc | | |
| | | | | | 923110 | Administration of Education Programs |
| | | | | | 923120 | Administration of Public Health Programs |
| | | | | | 923130 | Administration of Human Resource Programs (except Education, Public Health, and Veterans' Affairs Programs) |
| | | | | | 923140 | Administration of Veterans' Affairs |
| | | | 924 | Administration of Environmental C | | |
| | | | | | 924110 | Administration of Air and Water Resource and Solid Waste Management Programs |
| | | | | | 924120 | Administration of Conservation Programs |
| | | | 925 | Administration of Housing Program | | ning, and Community Development |
| | | | | | 925110 | Administration of Housing Programs |
| | | | | | 925120 | Administration of Urban Planning and Community and Rural Development |
| | | | 926 | Administration of Economic Progr | | |
| | | | | | 926110 | Administration of General Economic Programs |
| | | | 1 | | 926120 | Regulation and Administration of Transportation Programs |
| | | | | | 926130 | Regulation and Administration of Communications, Electric, Gas, and Other Utilities |
| | | | | | 926140 | Regulation of Agricultural Marketing and Commodities |
| | | | | | 926150 | Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors |
| | | | 927 | Space Research and Technology | | |
| | | | | · | 927110 | Space Research and Technology |
| | | | 928 | National Security and Internation | al Affairs | |
| | | | | | 928110 | National Security |
| | | | 1 | | 928120 | International Affairs |

Source: SCAG 2020 RTP/SC

L SCAG 2020 RTP/SCS
California Employment Development Department (EDD)
US Census Bureau, North American Industry Classification System (NAICS), 2022

Appendix C - Western Riverside County Traffic Growth 2018 – 2045

Existing (2018) and future (2045) traffic data were derived from RivCoM. The model area of coverage, level of roadway network and TAZ detail, and application on other regional transportation study efforts represented RivCoM as the appropriate tool for evaluating traffic growth as part of the Nexus Study.

The forecasts of existing and future congestion levels were derived from the Year 2018 Existing and Year 2045 No-Build scenarios, respectively. The 2018 Existing and 2045 No-Build scenarios were developed using RivCoM to model 2018 and 2045 SED, respectively, as derived from the SCAG 2020 RTP/SCS adopted SED forecasts, on the transportation network as it existed in 2021. The 2018 existing transportation network represents the most recent baseline network developed for RivCoM, and only reflects the inclusion of those projects that were funded, committed and under construction at that time, and therefore imminently to be part of the baseline transportation system in 2018. For the purposes of the TUMF network analysis, additional improvements on the TUMF arterial highway network that were either completed or under construction in the period between 2018 and December 2021 were added to the network to create a 2021 existing network. The 2021 existing network was subsequently modeled in RivCoM using both 2018 and 2045 SED to provide the 2018 Baseline and 2045 No-Build scenarios as the basis for comparison and analysis. The 2045 No-Build scenario did not include transportation improvements that are planned as part of the recently adopted SCAG 2020 RTP/SCS on the basis they are uncommitted (meaning that their implementation is dependent on securing future funding and approval). Inclusion of the uncommitted improvements masks the congestion effects of increasing travel. Inclusion of these improvements and the resultant masking is not appropriate for this analysis aimed at identifying the effects of increasing travel if improvements were not built.

The WRCOG TUMF study area was extracted from RivCoM for the purpose of calculating the following measures for Western Riverside County only. Traffic growth impacts for each of the two scenarios were calculated using the TransCAD platform.

- Total daily vehicle miles of travel (VMT),
- > Total daily VMT on facilities experiencing LOS E or worse.
- > Total daily vehicle hours of travel (VHT), and
- > Total combined daily vehicle hours of delay (VHD)

The following formulas were used to calculate the respective values.

- VMT = Link Distance * Total Daily Volume
- > VHT = Average Loaded (Congested) Link Travel Time * Total Daily Volume
- VHD = VHT (Free-flow (Uncongested) Link Travel Time * Total Daily Volume)
- VMT LOS E or F = VMT (on links where Daily V/C exceeded 0.90)¹³

WRCOG TUMF Nexus Study – 2024 Program Update

¹³ LOS Thresholds for LOS E are based on the 2010 Edition of the <u>Highway Capacity Manual</u> (Transportation Research Board, National Research Council, Washington, D.C., 2010) LOS Maximum V/C Criteria for Multilane Highways with 45 mph Free Flow Speed (Exhibit 14-5, Chapter 14, Page 14-5).

RivCoM breaks down its roadway network into functional categories called assignment aroups. The measures were calculated selectively for all facilities, freeways only, arterials only, and TUMF arterials only by including and excluding different assignment groups and facilities. For the calculation of measures on "all facilities", only the centroid connectors were excluded. Arterial values excluded all mixed-flow to carpool lane connector ramps, freeways, carpool lanes, centroid connectors, and freeway-tofreeway connector ramps, respectively. Freeways were defined as including mixedflow to carpool lane connector ramps, freeways, carpool lanes, and freeway-tofreeway connector ramps, respectively.

The 2021 Existing Network by Facility Type is included in this Appendix as **Exhibit C-1**. The 2021 existing network was used as the basis for the 2018 Existing and 2045 No-Build scenarios by modeling 2018 and 2045 SED, respectively, on the 2021 existing network using RivCoM to determine the comparative effects of population, household an employment growth in the region. The results of the analysis of existing and future congestion levels are presented for peak periods in Exhibit C-2 and for daily in Exhibit C-3 in this Appendix and extracted for the combined peak periods in Table 3.1 of the study report.

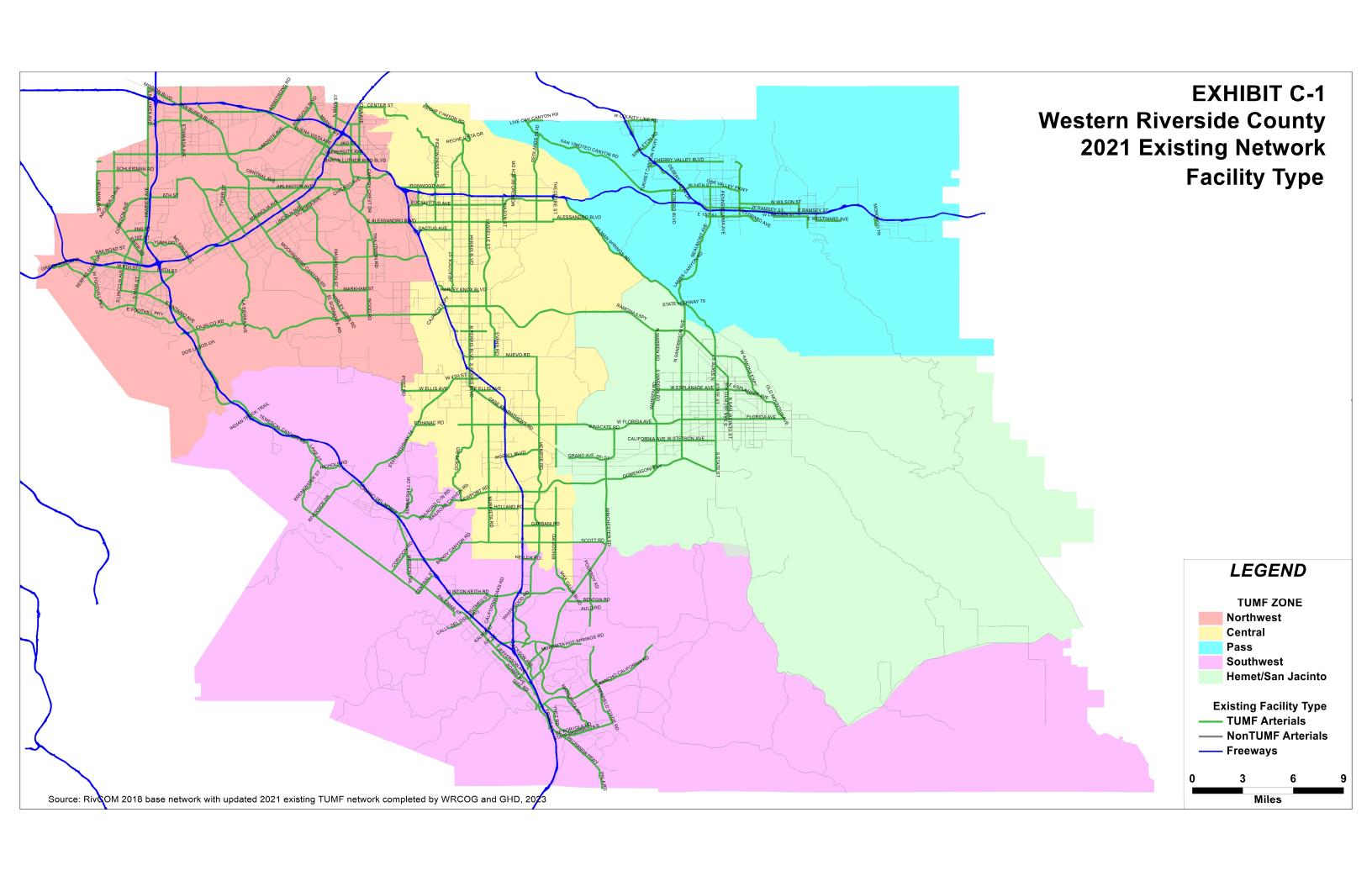


EXHIBIT C-2

Western Riverside County

Regional Highway System Measures of Performance (2018 - 2045) – Peak Periods

| | | AM Pe | eak | | | PM P | eak | PM Peak | | | |
|--------------------------------------|------------|------------|----------|----------|------------|------------|----------|----------|--|--|--|
| Measures of Performance | 2018 | 2045 | % Change | % Annual | 2018 | 2045 | % Change | % Annual | | | |
| VMT - Total ALL FACILITIES | 10,324,900 | 13,225,039 | 28% | 0.9% | 12,959,824 | 16,672,215 | 29% | 0.9% | | | |
| VMT - FREEWAYS | 5,877,972 | 6,720,682 | 14% | 0.5% | 7,636,550 | 8,769,602 | 15% | 0.5% | | | |
| VMT - ALL ARTERIALS | 4,446,928 | 6,504,357 | 46% | 1.4% | 5,323,274 | 7,902,613 | 48% | 1.5% | | | |
| TOTAL - TUMF ARTERIAL VMT | 2,793,846 | 3,826,810 | 37% | 1.2% | 3,423,139 | 4,770,390 | 39% | 1.2% | | | |
| VHT - TOTAL ALL FACILITIES | 251,133 | 435,243 | 73% | 2.1% | 290,218 | 480,196 | 65% | 1.9% | | | |
| VHT - FREEWAYS | 120,257 | 186,102 | 55% | 1.6% | 143,535 | 213,027 | 48% | 1.5% | | | |
| VHT - ALL ARTERIALS | 130,875 | 249,142 | 90% | 2.4% | 146,683 | 267,169 | 82% | 2.2% | | | |
| TOTAL TUMF ARTERIAL VHT | 81,578 | 154,106 | 89% | 2.4% | 92,877 | 166,763 | 80% | 2.2% | | | |
| VHD - TOTAL ALL FACILITIES | 57,989 | 177,814 | 207% | 4.2% | 50,911 | 160,242 | 215% | 4.3% | | | |
| VHD - FREEWAYS | 34,221 | 86,616 | 153% | 3.5% | 31,935 | 84,033 | 163% | 3.6% | | | |
| VHD - ALL ARTERIALS | 23,768 | 91,198 | 284% | 5.1% | 18,977 | 76,209 | 302% | 5.3% | | | |
| TOTAL TUMF ARTERIAL VHD | 18,024 | 66,789 | 271% | 5.0% | 15,225 | 58,074 | 281% | 5.1% | | | |
| VMT LOS E & F - TOTAL ALL FACILITIES | 2,960,551 | 6,364,419 | 115% | 2.9% | 2,644,519 | 7,005,063 | 165% | 3.7% | | | |
| VMT LOS E & F - FREEWAYS | 2,435,804 | 4,276,258 | 76% | 2.1% | 2,289,667 | 5,040,633 | 120% | 3.0% | | | |
| VMT LOS E & F - ALL ARTERIALS | 524,747 | 2,088,161 | 298% | 5.2% | 354,852 | 1,964,430 | 454% | 6.5% | | | |
| TOTAL TUMF ARTERIAL VMT w/ LOS E & F | 448,168 | 1,585,571 | 254% | 4.8% | 317,614 | 1,598,561 | 403% | 6.2% | | | |
| % of TUMF ARTERIAL VMT w/ LOS E & F | 16% | 41% | | | 9% | 34% | | | | | |

^{*} Based on RivCoM 2018 network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network completed.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

EXHIBIT C-3

Western Riverside County
Regional Highway System Measures of Performance (2018 - 2045) – Daily

| | Peak Periods (Total) | | | | Daily | | | |
|-------------------------------------------|----------------------|------------|----------|----------|------------|------------|----------|----------|
| Measures of Performance | 2018 | 2045 | % Change | % Annual | 2018 | 2045 | % Change | % Annual |
| VMT - Total ALL FACILITIES | 23,284,724 | 29,897,254 | 28% | 0.9% | 41,378,907 | 53,832,389 | 30% | 1.0% |
| VMT - FREEWAYS | 13,514,522 | 15,490,284 | 15% | 0.5% | 24,642,357 | 29,200,582 | 18% | 0.6% |
| VMT - ALL ARTERIALS | 9,770,202 | 14,406,970 | 47% | 1.4% | 16,736,551 | 24,631,807 | 47% | 1.4% |
| TOTAL - TUMF ARTERIAL VMT | 6,216,985 | 8,597,200 | 38% | 1.2% | 10,794,415 | 15,170,125 | 41% | 1.3% |
| VHT - TOTAL ALL FACILITIES | 541,350 | 915,439 | 69% | 2.0% | 893,813 | 1,433,458 | 60% | 1.8% |
| VHT - FREEWAYS | 263,792 | 399,128 | 51% | 1.5% | 440,073 | 637,990 | 45% | 1.4% |
| VHT - ALL ARTERIALS | 277,558 | 516,311 | 86% | 2.3% | 453,740 | 795,469 | 75% | 2.1% |
| TOTAL TUMF ARTERIAL VHT | 174,455 | 320,869 | 84% | 2.3% | 285,520 | 496,757 | 74% | 2.1% |
| VHD - TOTAL ALL FACILITIES | 108,900 | 338,056 | 210% | 4.3% | 131,965 | 410,511 | 211% | 4.3% |
| VHD - FREEWAYS | 66,156 | 170,649 | 158% | 3.6% | 79,532 | 208,287 | 162% | 3.6% |
| VHD - ALL ARTERIALS | 42,745 | 167,407 | 292% | 5.2% | 52,434 | 202,223 | 286% | 5.1% |
| TOTAL TUMF ARTERIAL VHD | 33,249 | 124,863 | 276% | 5.0% | 41,025 | 152,200 | 271% | 5.0% |
| VMT LOS E - TOTAL ALL FACILITIES | 5,605,070 | 13,369,483 | 139% | 3.3% | 6,153,146 | 16,090,205 | 161% | 3.6% |
| VMT LOS E - FREEWAYS | 4,725,471 | 9,316,891 | 97% | 2.5% | 5,141,215 | 11,306,348 | 120% | 3.0% |
| VMT LOS E & F - ALL ARTERIALS | 879,599 | 4,052,592 | 361% | 5.8% | 1,011,931 | 4,783,858 | 373% | 5.9% |
| TOTAL TUMF ARTERIAL VMT w/ LOS E or worse | 765,782 | 3,184,133 | 316% | 5.4% | 878,465 | 3,819,635 | 335% | 5.6% |
| % of TUMF ARTERIAL VMT w/ LOS E or worse | 12% | 37% | | | 8% | 25% | | |

^{*} Based on RivCoM 2018 network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network completed.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast troublest t

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County Generc

Appendix D - Western Riverside County Bus Transit System Ridership 2023 – 2045

Actual average weekday daily ridership for Riverside Transit Agency (RTA) transit bus services was tabulated for 2023. Forecast average weekday daily ridership for RTA bus transit services was retrieved from the SCAG 2020 RTP/SCS Model for horizon year 2045. The bus transit ridership for 2023 and 2045 was tabulated to represent existing and future regional bus transit trips consistent with the analysis of highway trips described in **Section** 3.1 and Appendix C. Table D-1 summarizes the weekday bus transit ridership in Western Riverside County.

TABLE D-1 - Regional Bus Transit Weekday System Ridership

| Year | Western Riverside Weekday Projected System Ridership |
|--------|---------------------------------------------------------|
| 2023* | 16,575 |
| 2045** | 57,282 |

Notes: * - 2023 actual average weekday daily ridership provided by RTA staff December 1, 2023

^{** - 2045} forecast average weekday daily ridership obtained from SCAG 2020 RTP/SCS Model as provided by Fehr and Peers, November 28, 2023

Appendix E - Western Riverside County Regional System of Highways and Arterials Performance Measures

An integral element of the Nexus Study is the designation of the Western Riverside County Regional System of Highways and Arterials (also referred to as the "TUMF Network"). This network of regionally significant highways represents those arterial and collector highway and roadway facilities that primarily support inter-community trips in Western Riverside County and supplement the regional freeway system, and represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements. The Regional System of Highways and Arterials does NOT include the freeways of Western Riverside County which primarily serve inter-regional trips.

The designation of the Regional System of Highways and Arterials in the original TUMF Nexus Study adopted by the WRCOG Executive Committee in October 2002 was initiated with the identification of highways and roadways that met certain specified guidelines as defined by the WRCOG Public Works Committee. The guidelines are defined in **Section 4.1** of the Nexus Report, and include:

- 1. Arterial highway facilities proposed to have a minimum of four lanes at future buildout (not including freeways).
- 2. Facilities that serve multiple jurisdictions and/or provide connectivity between communities both within and adjoining Western Riverside County.
- 3. Facilities with forecast traffic volumes in excess of 20,000 vehicles per day in the future horizon year.
- 4. Facilities with forecast volume to capacity ratio of 0.90 (LOS E) or greater in the future horizon year.
- 5. Facilities that accommodate regional fixed route transit services.
- 6. Facilities that provide direct access to major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

The original candidate facilities were identified by overlaying various transportation system and land use plots depicting parameters consistent with those defined by the specified guidelines. These plots included existing and proposed numbers of lanes, network volumes and volume to capacity ratio (LOS) derived from SCAG CTP Model networks developed by Transcore to support the ongoing Western Riverside County CETAP study, and existing land use information provided by SCAG. These plots were included in the Appendices that accompanied the original 2002 TUMF Nexus Study. Fixed route transit service information was provided by the Riverside County Regional Transportation Authority (RTA).

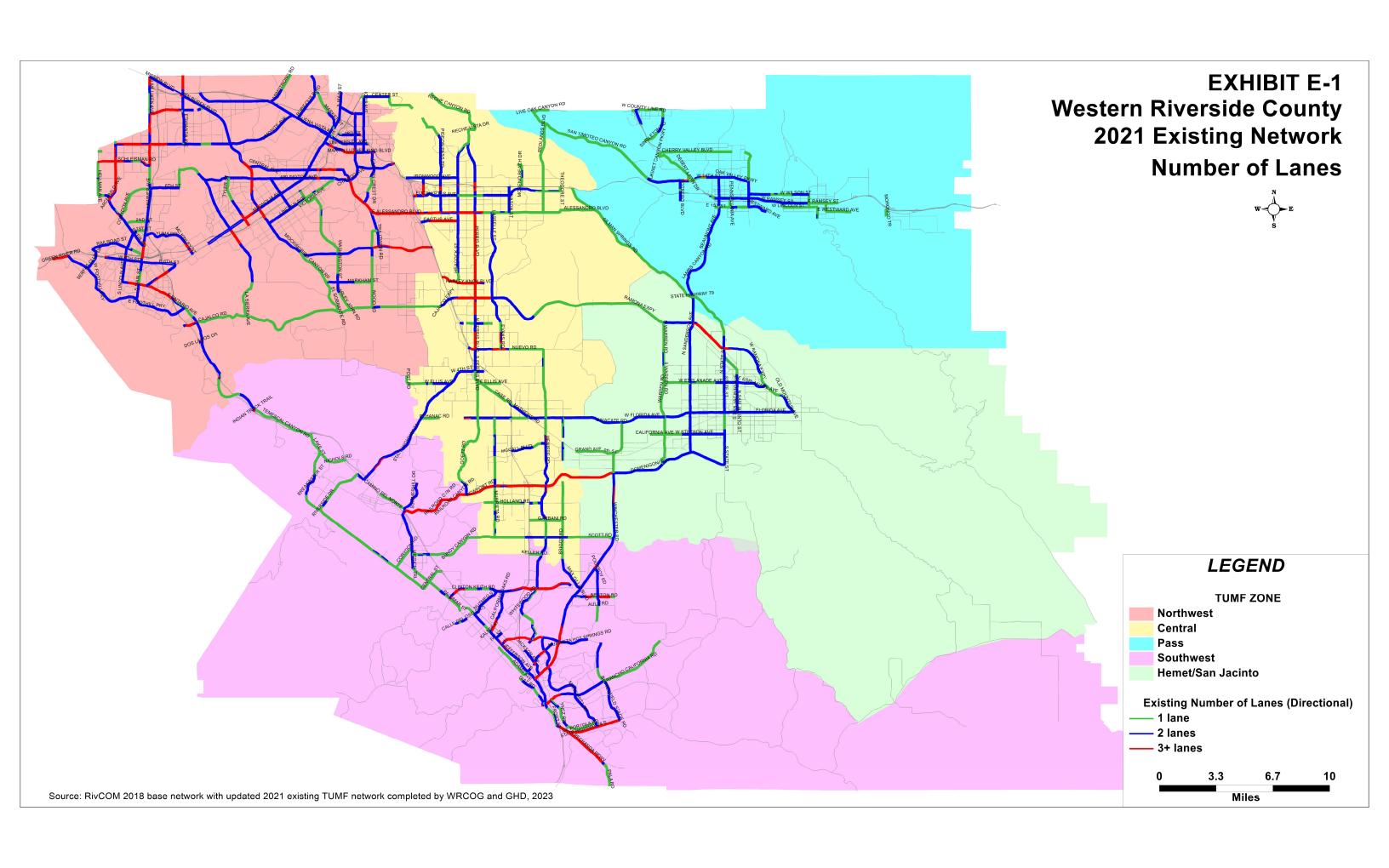
These various data inputs were overlaid and reviewed leading the definition of a segmented skeletal network of highways and roadways for further consideration. The skeletal network was further enhanced to reflect regional connectivity and access to activity center considerations. An initial draft Regional System of Highways and Arterials was developed and subsequently distributed to the County of Riverside and each City in Western Riverside County for review in the context of their respective City General

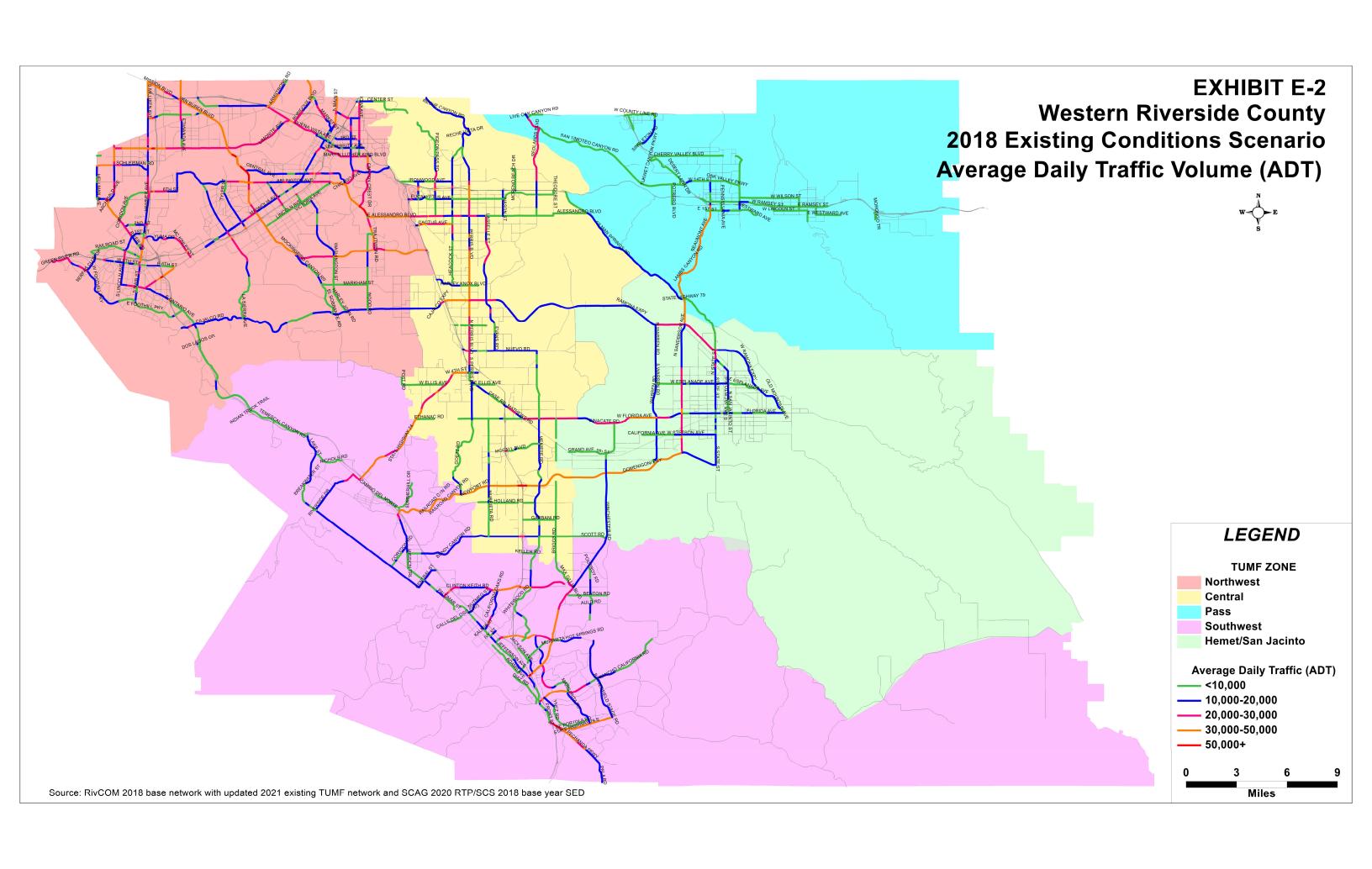
Plan Circulation Elements, primarily to confirm existing and future number of lanes and appropriateness of the facilities identified. The initial draft network was subsequently revised to consolidate appropriate General Plan Circulation Elements, including the identification of proposed new facilities as alternatives to existing facilities. It should be pointed out that the Regional System of Highways and Arterials does not represent a simple compilation of regional General Plan Circulation Elements, but rather incorporates the elements of regional General Plan Circulation Elements that are necessary for mitigating the cumulative regional traffic impacts of new development within the horizon year of the TUMF program.

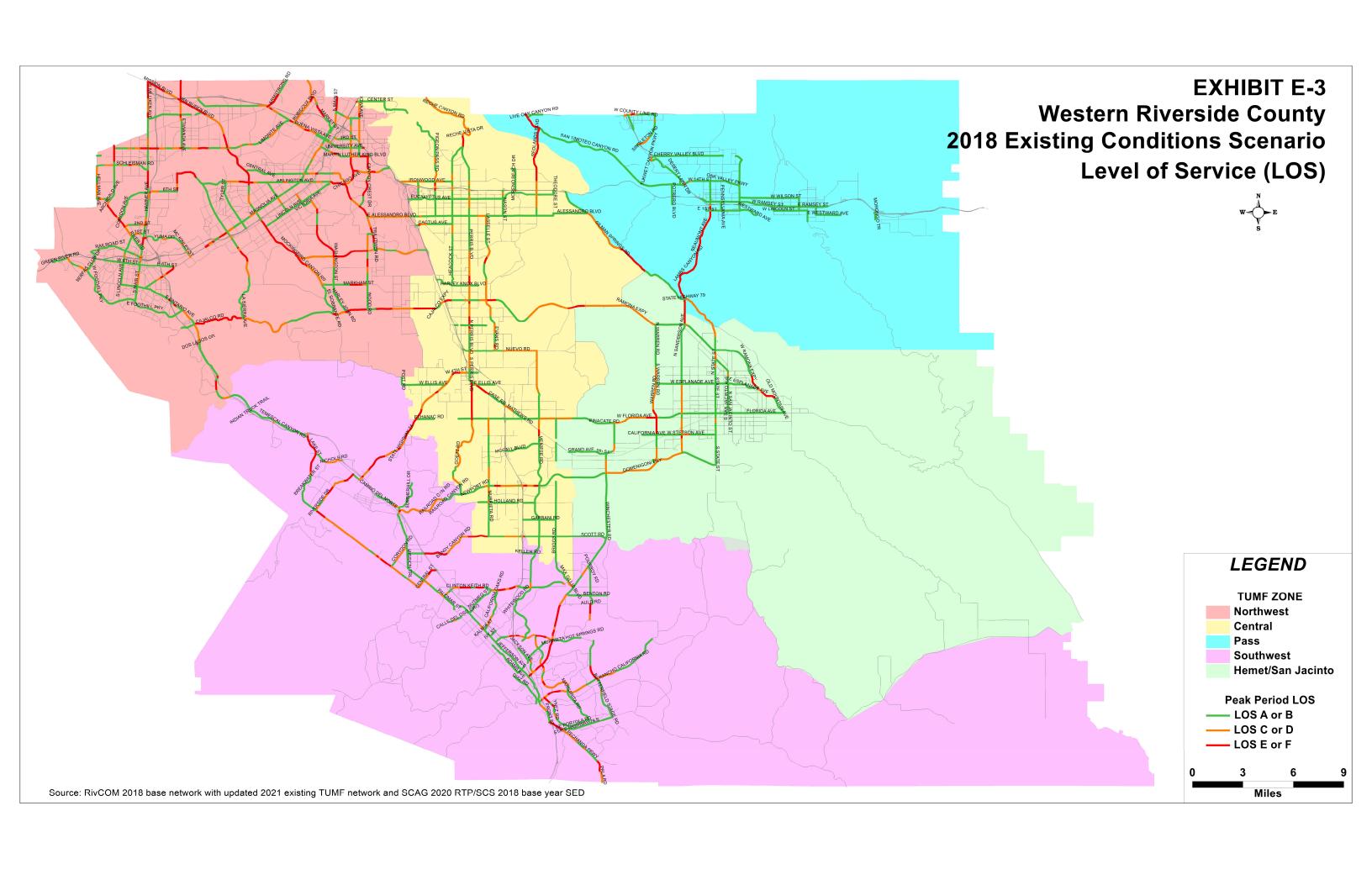
The consolidated list of proposed network improvements (along with associated initial cost estimates) was subsequently distributed to each of the WRCOG jurisdictions, individual landowners, and other stakeholders including representatives of the development community through the Building Industry Association (BIA) for review. The review of the consolidated list of improvements (and associated costs) prompted a series of five peer review workshop meetings to specifically review each segment of roadway identified and the associated improvements to mitigate the traffic impacts of new development. One peer review workshop meeting was held for each of the five zones in the WRCOG region with meetings held at the Riverside County Assessor's Office between June 27, 2002 and July 18, 2002. The peer review workshop meetings involved representatives from WRCOG, the respective zone jurisdictions and the BIA. The peer review workshops culminated in the development (by consensus of the groups) of a revised list of proposed network improvements (and associated costs) more accurately reflecting the improvements necessary to mitigate the cumulative regional traffic impacts of new development.

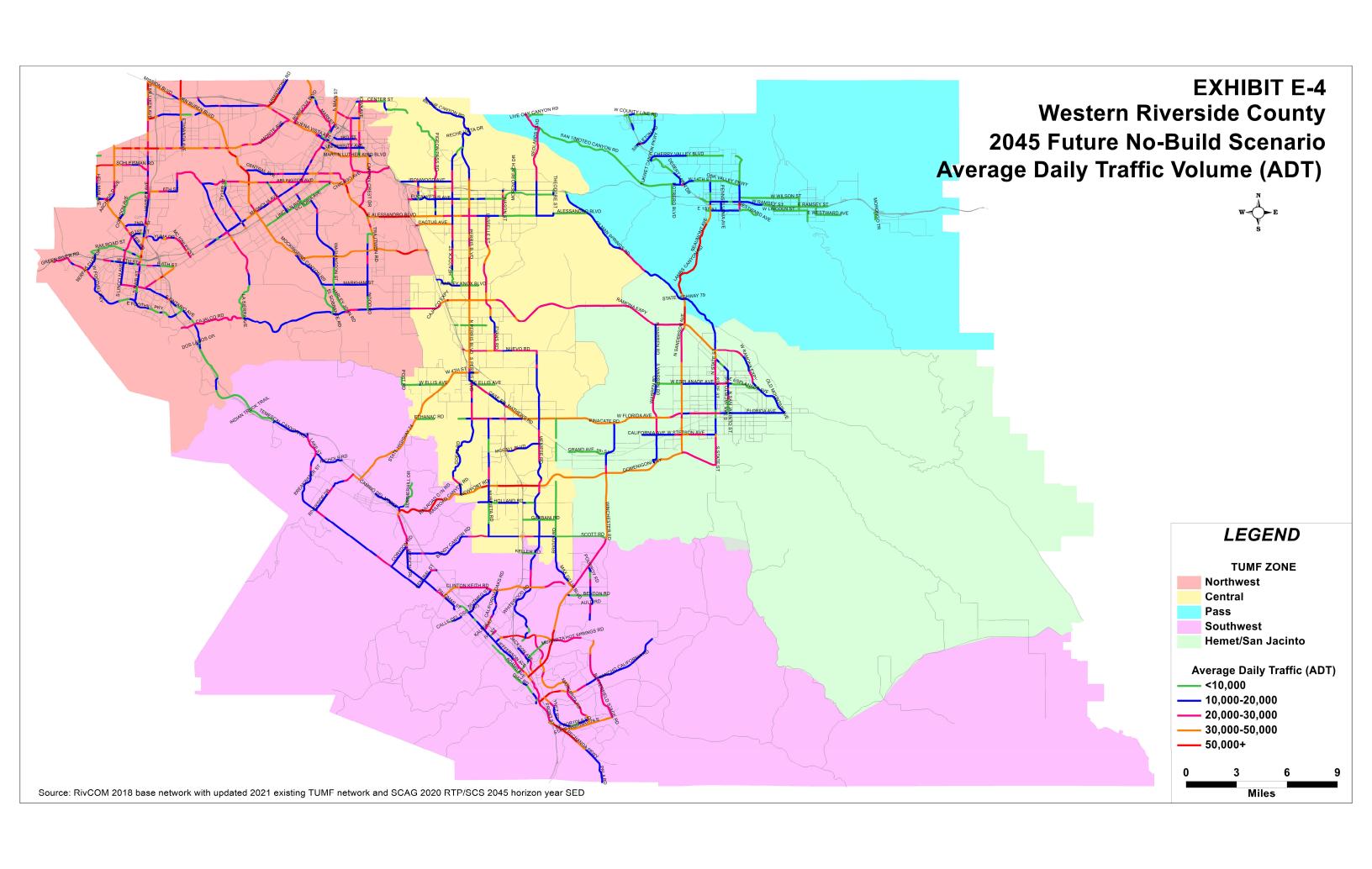
Following the peer review, the initial Regional System of Highways and Arterials was reviewed and endorsed by the TUMF Technical Advisory Committee, the TUMF Policy Committee and the WRCOG Executive Committee and utilized as the basis for developing the original TUMF Nexus Study in October 2002.

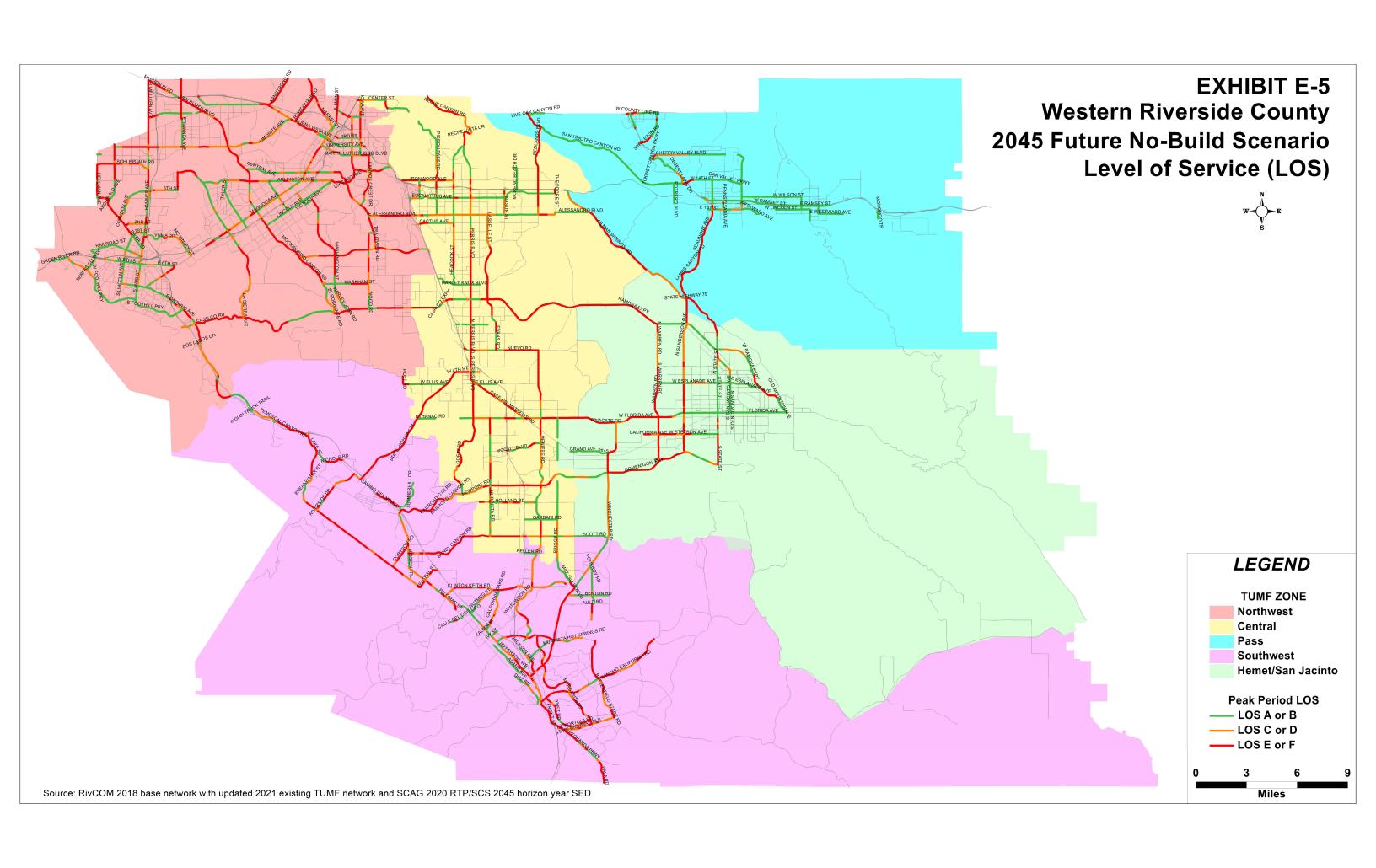
For the 2024 update of the TUMF Nexus Study, the Regional System of Highways and Arterials was reassessed. Consistent with the changing rate of new development forecast for Western Riverside County as part of the SCAG 2020 RTP/SCS, including reductions in the overall level of non-residential employment, the review of the TUMF Network as part of the 2024 Nexus Update ensured facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process involved the comparison of model outputs for the 2018 Baseline and 2045 No-Build Scenarios on the 2021 Existing arterial network to identify those facilities no longer expected to be impacted substantially by the cumulative effects of traffic growth from new development. This review resulted in various changes in the scope and magnitude of specific improvements previously identified on the TUMF Network. The updated model output plots utilized as the basis for the latest network review are included in this appendix as **Exhibit E-1** through **E-8**. The Regional System of Highways and Arterials is included as Figure 4.1 in the Nexus Study report.

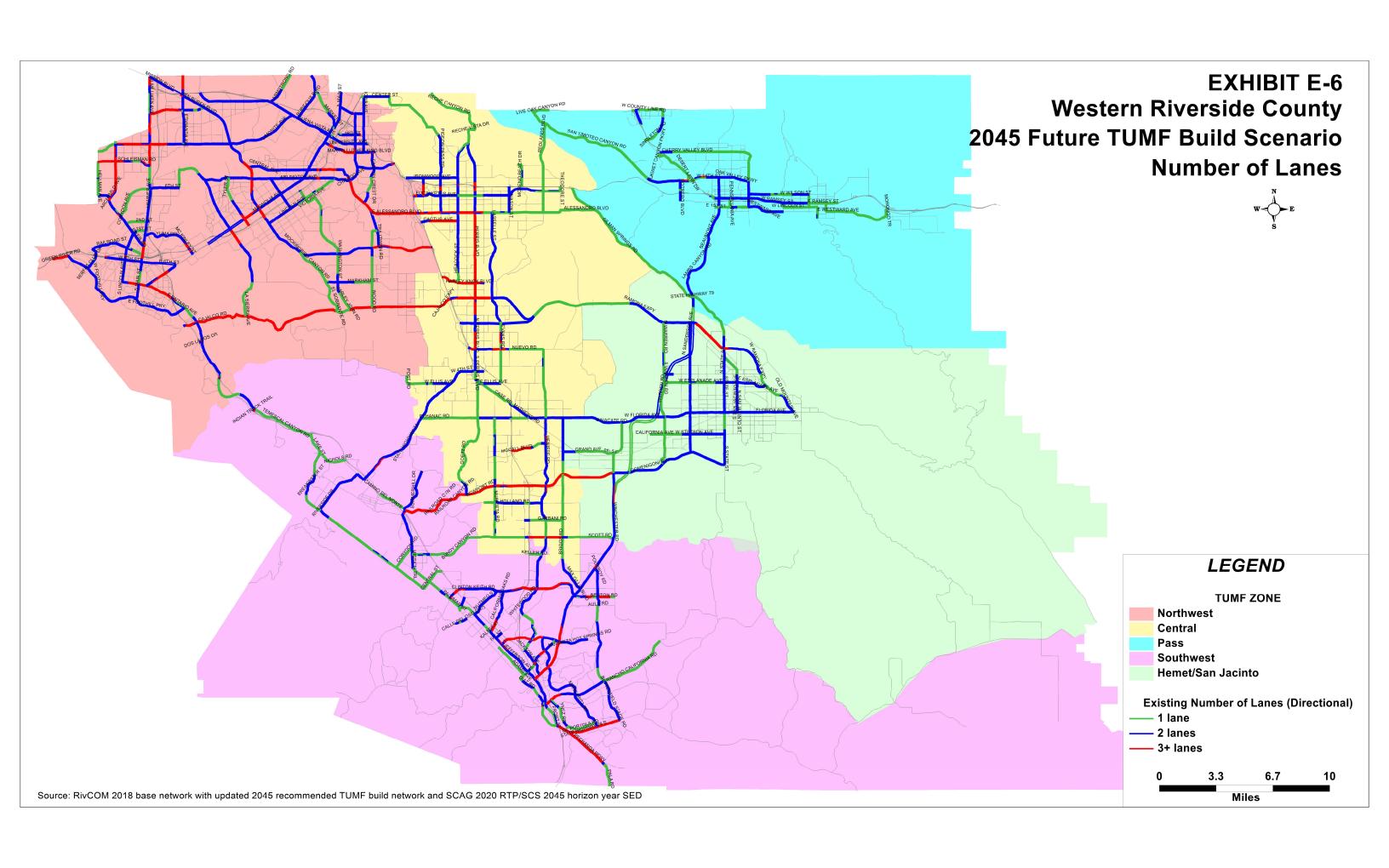


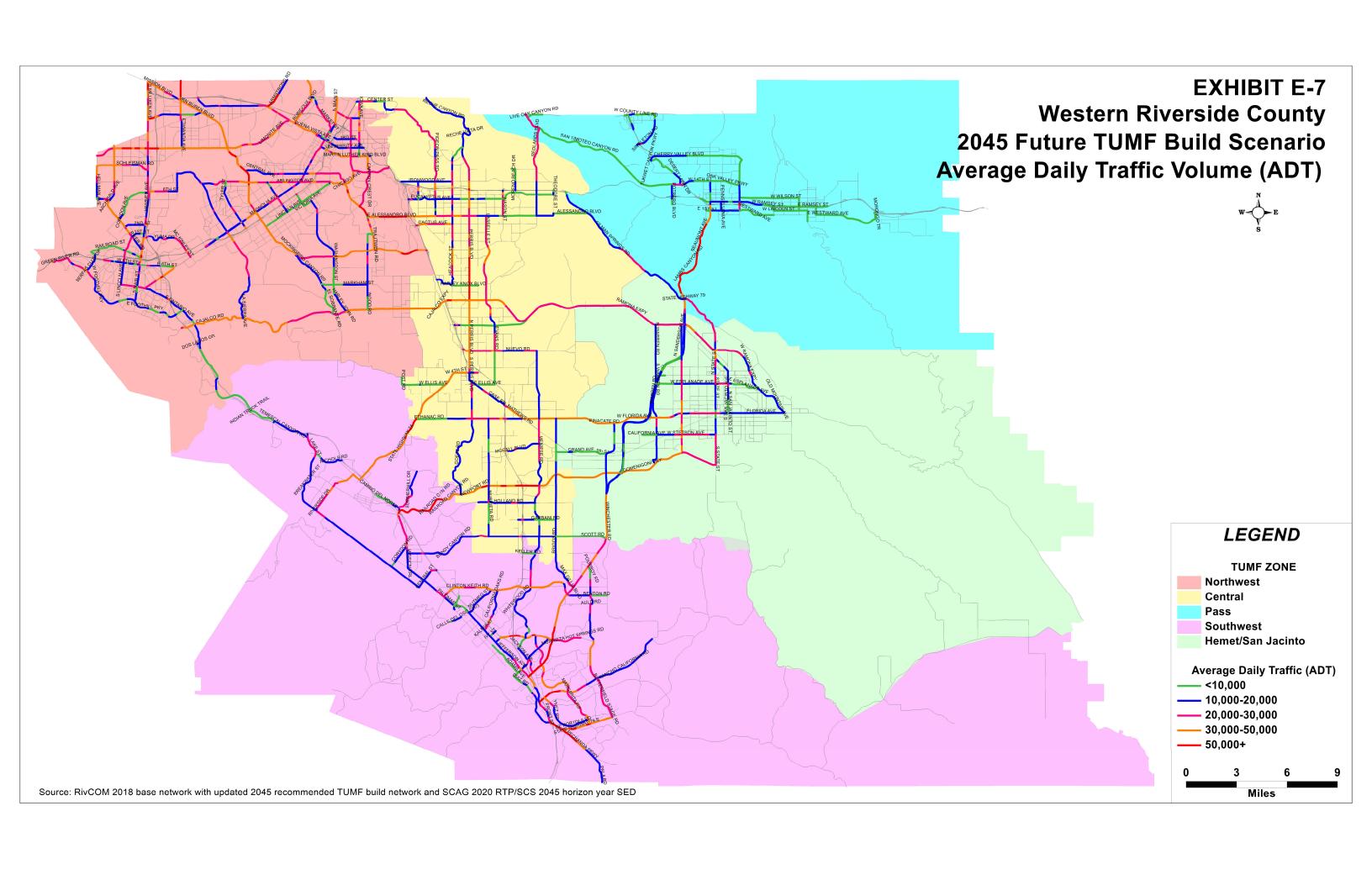


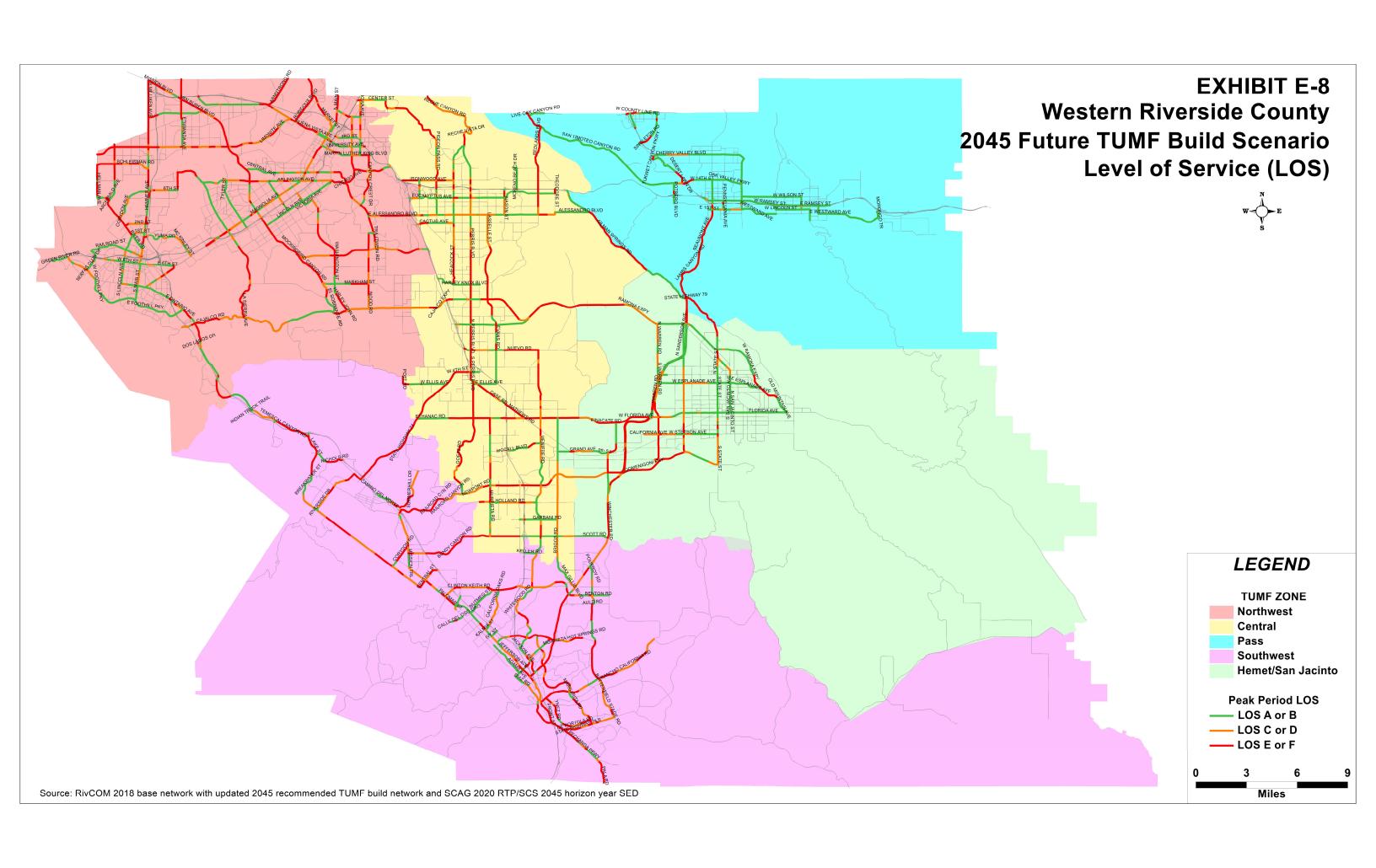












Appendix F - TUMF Network Cost Assumptions

The TUMF program was established as a uniform impact fee program that is applied to mitigate the cumulative transportation impacts of new development on the regional arterial highway system. In establishing the technical basis for TUMF, like any impact fee program, there are two fundamental requirements that must be addressed: establishing a rational nexus for the program; and determining that any fee is roughly proportional to the impact of a proposed development. These requirements are rooted in two well-known legal cases: Nollan v. California Coastal Commission (1987) 483 U.S. 825; and Dolan v. City of Tigard (1994) 512 U.S. 374.

To establish project costs that meet the rough proportionality test for an expansive network of facilities, WRCOG utilizes a conceptual planning level project and cost estimation approach based on typical unit costs for a variety of project types and conditions. These unit costs are intended to reflect a range of values that are typical for the types of projects that are necessary to mitigate the cumulative regional impacts of new development. These unit costs are developed for each typical project type based on actual observed values for the various materials, labor and right-of-way that would typically be required to complete a project. Although the actual materials, labor, right-of-way and associate costs to complete each specific project can be expected to vary based on the particular conditions of each site and project requirements at the time the project is actually implemented, the approach of using typical unit costs as the basis for the TUMF program represents a manageable and appropriate level of detail to establish conceptual project cost estimates that meet the requirement for rough proportionality.

The application of typical unit costs and the associated identification of a maximum TUMF share for each eligible project also provides a framework that protects the program from projects with actual costs that vary significantly from the typical cost estimates used as the program basis. The TUMF program administrative polices limit reimbursement of costs associated with eligible TUMF projects to the lesser of maximum TUMF share identified in the Nexus Study or the actual eligible project costs. In this manner, projects that are completed by participating jurisdictions or developers for less than the maximum TUMF share are reimbursed (or credited) for the actual amount expended, while projects that exceed the maximum TUMF share are only reimbursed (or credited) by the program up to the maximum TUMF share value ensuring that the program is mitigating impacts at a level that is roughly proportional to that typically expected, and is not subject to extreme project costs to address unusual or exceptional local conditions or requirements.

For the purposes of TUMF, unit cost values were developed for various eligible improvement types that all provide additional capacity needed to mitigate the cumulative regional traffic impacts of new development to facilities on the TUMF Network. Eligible improvement types include:

- 1. Construction of additional Network roadway lanes;
- 2. Construction of new Network roadway seaments:
- 3. Expansion of existing Network bridge structures;

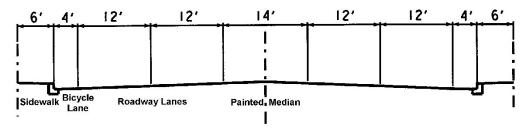
- 4. Construction of new Network bridge structures;
- 5. Expansion of existing Network interchanges with freeways;
- 6. Construction of new Network interchanges with freeways;
- 7. Grade separation of existing Network at-grade railroad crossings;
- 8. Expansion of existing Network-to-Network intersections;
- 9. Infrastructure for Intelligent Transportation Systems (ITS) of Network roadway segments.

Because roadway improvement standards vary considerably between respective jurisdictions, a typical roadway standard for the TUMF Network was recommended by the Public Works Committee (PWC) during the development of the original TUMF Nexus Study adopted by the WRCOG Executive Committee in October 2002 as the basis for developing the TUMF Network cost estimate. The typical roadway standard assumes the following design characteristics that are consistent with the minimum requirements of the Caltrans Highway Design Manual:

- Asphalt concrete pavement and appropriate base material to accomplish up to 12 feet per travel lane plus up to four feet for ancillary treatments (e.g. shoulders, or Class II Bike Lane);
- > Concrete curb and gutter and associated drainage (e.g. paved roadway shoulders and/or open swale);
- Storm drains located within curb to curb, and associated transverse portions perpendicular to the roadway and adjoining portions longitudinal to the roadway;
- > 14 foot paved and painted median (or dual center left turn lane);
- > Traffic signals at intersections with state highways and other major arterials that are also on the TUMF Network;
- > Pavement striping and roadway signing, as required;
- ➤ 6 foot wide concrete sidewalks and associated curb cuts for ADA access at street crossings.

A cross-section of the Typical Roadway Standard is illustrated in Figure F-1.

Figure F-1. Typical Roadway Standard Cross-Section



It is recognized that the typical roadway standard is not appropriate in all potential TUMF Network locations. Where appropriate, typical design standards could be substituted with design elements such as open swale drainage and paved roadway shoulders with no curbing that would typically cost less than the implementation of the

Typical Roadway Standard. Roadway improvements in excess of the Typical Roadway Standard include, but are not limited to:

- Portland concrete cement pavement or other aesthetic pavement types (except at intersections);
- Major rehabilitation or overlay of existing pavement in adjacent roadway lanes;
- Raised barrier medians;
- > Parking lanes;
- Roadway tapers outside the extents of the approved project
- Sanitary sewage infrastructure;
- > Water systems
- Dry utilities
- Undergrounding infrastructure
- Relocation of non-prior rights utilities
- > Storm Drain Systems in excess of draining the roadway
- Landscaping;
- Streetlighting;
- Class I Bike Lanes (e.g. separate bicycle paths)
- Environmental Permitting
- Detection/Retention Basins outside of Street Right-of-Way
- ➤ Agency Staff time in excess of 15% of Engineering
- > Agency Staff Time in excess of 15% of Construction

These improvements in excess of Typical Roadway Standards are not eligible for TUMF funding and will be the responsibility of the local funding agency.

Unit cost estimates for the implementation of TUMF Network improvements were developed based on the unit cost to accomplish the Typical Roadway Standard. Initial unit cost estimates were developed as part of the original TUMF Nexus in 2002. These original values were adjusted as part of the 2005 Nexus Update to reflect changes in cost based on relevant indices. The unit cost estimates were fully revised as part of the 2009 Nexus Update to capture the full effects of the economic recession on the costs of labor, materials and property acquisition. For the previous 2016 Nexus Update, the unit costs were fully revised. The 2016 Nexus Update reflected the effects of the ongoing recovery from the economic recession that has saw the costs of materials, labor and land acquisition in California rebound from relative historical lows previously observed at the time of the 2009 Nexus Update.

For the 2024 Nexus Update, the unit costs were again fully revised to generate entirely new unit cost values based on the most recent available construction cost, labor cost and land acquisition cost values for comparable projects within and adjacent to Riverside County. The recalculation of the TUMF unit cost components was completed as part of the 2024 Nexus Update to account for the unprecedented materials cost increases, labor shortages and high rate of inflation generally attributable to a combination of the disruption to global supply chains caused by the COVID-19 pandemic and additional tariffs on a range of products imported into the United States. In December 2023, the unit cost values were validated utilizing Caltrans Contract Cost Data and the resultant unit costs are noted in **Exhibit F-2** and summarized in **Table 4.1**.

For simplicity, the roadway unit cost was assumed to provide for the full depth construction (including grading) of 16 feet of new pavement per lane (to accommodate a minimum 12 foot lane and ancillary treatments). The unit cost was assumed to include the following construction elements:

- Sawcut of existing pavement
- > Removal of existing pavement
- > Roadway excavation and embankment
- > 10" thick class 2 aggregate base
- ➤ 4.0" thick asphaltic concrete surface
- Concrete curb, gutter and drainage improvements

Roadway unit costs were determined for each unique cost item. The source used to determine the roadway unit costs as part of the 2024 Nexus Update are listed below.

- Caltrans Contract Cost Data 2021-2022
- Projects within Riverside County and Adjacent Counties
- > Typical experience for local cities, Western Riverside County
- Michael Baker international (MBI), Structural Group
- MBI, ITS Group
- Caltrans Contract Cost Data 2022-2023

All data described above was initially obtained in October 2022 and refreshed and validated in December 2023.

Right-of-way acquisition costs were determined based on the cost to acquire 18 feet of right-of-way per lane of new roadway improvement. For urban and suburban land use areas, the amount of right-of-way to be acquired as part of the TUMF program was reduced by 75% to account for property already owned by a participating jurisdiction through prior acquisition or dedication. Right-of-way unit costs were assumed to include the following elements:

- Land acquisition
- Documentation and legal fees
- > Relocation and demolition costs and condemnation compensation requirements
- > Utility relocation
- > Direct environmental mitigation

Right-of-way unit costs were determined based on a review of actual property sales within the WRCOG region during the prior 18 month period. The task of determining the valuation per square foot of right-of-way for different land uses was completed by Epic Land Solutions, Inc.

A typical existing condition of each component type was used as a guideline for quantity assessments.

- >Terrain 1: Level terrain with 0% profile grade. Construction cost is per lane mile.
- ▶Terrain 2: Rolling Terrain with 1.5 % profile grade. Construction cost is per lane mile.

- ➤Terrain 3: Mountainous Terrain with 3% profile grade. Construction cost is per lane mile.
- Land Use 1, 2 and 3; ROW cost factor per lane mile, for Urban, Suburban and Rural areas respectively.
- ➤Interchange 1: Complex New Interchange/Interchange Modification. Existing complex interchange at I-15 & SR-91 was used as a guideline for quantity assessments.
- ➤Interchange 2: New Interchange/Interchange Modification is assumed to be a New Cloverleaf Interchange consisting of 4 (3 lane) direct ramps and 4 (2 lane) loop ramps.
- Interchange 3: Major Interchange Improvement is assumed to correspond to adding 1 lane to each ramp on a cloverleaf Interchange.
- ➤ Bridge: New Bridge cost. Construction cost is per linear foot per lane.
- >RRXing 1: New Rail Grade Crossing. Construction cost is per lane per crossing.
- >RRXing 2: Widening Existing Grade Crossing. Construction cost is per lane per crossing.
- ▶ITS 1: Infrastructure for Intelligent Transportation Systems (ITS) on TUMF Network roadway segments per route mile

The cost estimating methodology here is intended to provide a Present Value Cost Estimate for the WRCOG Transportation Uniform Mitigation Fee based on year 2023 unit prices. A more detailed description of cost categories is detailed below.

I. Roadway Items

Roadway Excavation:

A unit cost of \$38.55 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data) is applied to account for the excavation quantities. Assuming proposed profiles to be at 0% grade, the excavation values are estimated based on the component type as follows:

Terrain 2 and 3: excavation for one lane (16 feet wide and 4 feet deep) is assumed.

Imported Borrow:

The unit cost used for imported borrow is \$20.47 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data). Locations where imported borrow is required are determined from aerial photos.

- > Terrain 2 and 3: Excavation for one lane (16 feet wide and 4 feet deep) is assumed.
- Interchanges 1, 2, and 3: Vertical clearance of 24.5 feet is used to calculate the maximum amount of imported borrow at areas adjacent to an undercrossing.
- RRXing 1 and 2: Vertical clearance of 31.5 feet and Bridge approach of 1,000 feet is used to determine the quantity of Imported borrow for this component type.

Clearing and Grubbing:

The unit cost for clearing and grubbing is \$12,100.00 per acre (Source: Local Projects and Caltrans Contract Cost Data).

- Terrain 1, 2 and 3: The area of clearing and grubbing is assumed to extend 16 feet for the addition of each new lane.
- ➤ Interchange 1 and 2: The area of clearing and grubbing is assumed to extend 40 feet beyond the proposed outside edge of shoulder. The clearing and grubbing width varies depending on the number of added lanes.
- Interchange 3 and Intersection: The area of clearing and grubbing is assumed to extend 16 feet for the addition of each lane.

Development of Water Supply:

A lump sum value is used to account for developing water supply. The lump sum cost is estimated as 10% of the combined cost for roadway excavation and imported borrow (Source: RCTC).

PCC Pavement:

The unit cost for PCC pavement is \$354.83 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data).

➤ Terrain 1, 2 and 3: It is assumed that PCC is used at mainline shoulders. The PCC shoulder pavement is assumed to be 4 inch thick and 4 feet wide.

Asphalt Concrete Type A:

It is assumed that Asphalt Concrete is used at mainline and where ramp and bridge widening is required. A unit cost of \$240.62 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data) is used to account for asphalt concrete quantities. The asphalt concrete overlay is assumed to be 4 inch thick.

Aggregate Base:

The unit cost for aggregate base is \$73.54 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data). Aggregate base quantities are estimated by means of calculating the areas of additional lanes. The aggregate base layer is considered to be 10 inch thick. It is assumed that aggregate base is used over the entire widening width below the PCC pavement and asphalt concrete layers.

Curb and Gutter:

The unit cost used for curb and gutter is \$65.74 per linear foot (Source: Local Projects and Caltrans Contract Cost Data). It is assumed that type A2-6 curb and gutter is used on the entire length of travel way where required.

Project Drainage:

A lump sum value is used to account for project drainage cost of roadway construction. The project drainage cost is estimated as 15% (Source: RCTC project 2007) of combined cost for earthwork and pavement structural section.

Traffic Signals:

The costs for traffic signals are calculated per ramp termini intersection. The unit cost used for traffic signals is \$531,086 (Source: Caltrans Contract Cost Data and typical experience, Western Riverside County) per intersection. Traffic signals costs are considered only at the Intersection (Network-to-Network) upgrade.

Striping:

The unit cost used for Striping is \$2.58 per linear foot (Source: Local Projects and Caltrans Contract Cost Data). It is assumed that two lines of thermo-plastic striping are required for every lane addition.

Marking:

The unit cost used for marking is \$7.31 per square foot (Source: Local Projects and Caltrans Contract Cost Data).

- ➤ Terrains 1, 2 and 3: It is assumed that there are 8 arrow markers, 2 Stop sign markers and 4 Bike sign markers.
- ➤ Interchanges 1, 2, and 3: It is assumed that there are 2 Type I arrows on each on ramp, and 2 Type IV (L) arrows on each off ramp.
- ➤ Intersection (network to network) upgrade: It is assumed that there are 2 right turn arrows and two right lane drop arrows for each lane modification for the interchange upgrade

Pavement Marker:

Type G one-way clear retroreflective pavement markers (Spacing @ 48 feet) were assumed for Terrain 1, 2 and 3 component types only. The unit cost used for pavement marker is \$5.06 each (Source: Local Projects and Caltrans Contract Cost Data).

Signage:

The signage unit cost accounts for the costs of one-post signs and two-post signs. The unit cost used for one-post signs and two-post signs are \$367.69 and \$1,211.58 each, respectively (Source: Local Projects and Caltrans Contract Cost Data). The post sign quantities assumed for each component type is summarized below.

| Sign Type | Terrain 1, 2 & 3 | Inte | erchar | Intersection | |
|----------------|------------------|------|--------|--------------|--------------|
| Sign Type | Tellull 1, 2 & 3 | 1 | 2 | 3 | Intersection |
| One Post Signs | 33 | 14 | 36 | 20 | 3 |
| Two Post Signs | - | 4 | 4 | 4 | 0 |

Intelligent Transportation Systems (ITS):

The unit cost used for ITS is \$686,338.50 per route mile (Source: Local Projects and MBI ITS Group). It is assumed that there is no existing ITS infrastructure (with the exception of isolated ITS devices) within the TUMF Network roadway segments and essential ITS infrastructure is furnished and installed. This essential ITS infrastructure includes ethernet switch, fiber jumper, fiber distribution unit, splice enclosure, pull box, new cabinet with foundation, 144 strand single-mode fiber optic (SMFO) cable and 3" conduits.

Minor Items, Roadway Mobilization, and Roadway Additions:

A lump sum value is used to account for minor items, roadway mobilization and roadway additions as described below. These lump sum values are recommended based on provisions in Project Development Procedure Manual (PDPM) and the

date from individual sources presented in the introduction of this report (Source: RCTC)

| Items | Unit Cost |
|-------------------|-------------------------------------------------|
| Minor Items | 10% of earthwork, pavement structure, drainage, |
| | specialty items and traffic items. |
| Roadway | 10% of earthwork, pavement structure, drainage, |
| Mobilization | specialty items, traffic items and minor items. |
| Roadway Additions | 10% of earthwork, pavement structure, drainage, |
| | specialty items, traffic items and minor items. |

II. Structure Items

New Bridge:

New interchanges account for construction of a new bridge. The unit cost for a new travel way bridge construction and RRXings1 and 2 (New and Widening of Rail Grade Crossings) is \$400.00 per square foot (Source: MBI Structural group). The width of a new bridge is assumed to be 82 feet (4 lanes x 12ft + 10ft shoulder x 2 + 14ft median).

Bridge Widening:

Bridge widenings account for the widening of existing bridges. The unit cost is \$500.00 per square foot (Source: MBI Structural group). The width of a bridge widening is assumed to be: 2 lanes x 12ft + 10ft shoulder. The width of an arterial crossing over rail road is assumed to be 16 feet (1 lane x 12ft + 4ft shoulder).

Structural Mobilization:

The cost for structural mobilization is estimated as 10% of total structure item cost (Source: Typical experience).

III. Right of Way Items

The right of way unit cost varies with land use designation. The unit cost for ROW was developed by Epic Land Solutions, Inc. based on a review of actual property sales within the WRCOG region during the prior 18 month period. The area of right of way acquisition for the travel way is calculated per additional lane mile, assuming the width of the right-of-way required to be 18 feet per lane (to accommodate a 12 foot roadway lane, shoulders and ancillary amenities, like storm water drainage). The right of way acquisition for RRXings1 and 2 is calculated based on ROW acquisition for bridge approaches.

Property costs per square foot are derived by reviewing a large sample of recently sold land and improved properties within the greater Riverside area. The properties reviewed are identified specifically from completed semi large to very large infrastructure projects and upcoming projects with preferred alternatives and/or approved environmental reports. For the purposes of the 2022 Nexus Study update, an overall sample of approximately 2,700 properties was used.

The properties were designated as: urban areas (generally considered downtown, or very close to downtown in the larger cities - predominantly Corona and Riverside, with a few parcels in Temecula and Moreno Valley); suburban (primarily considered the greater areas of Hemet, Perris, San Jacinto, Moreno Valley, Lake Elsinore, outer portions of Riverside / Corona, Temecula, Murrieta, Calimesa, Eastvale, Norco, and other cities of relative size and location as those previously mentioned); and rural (considered the exurban areas between Corona / Lake Elsinore and Perris along the SR-74/79, Lake Matthews, between Wildomar and Murrieta, Temecula and Perris and other similar areas) to correspond with the land use classifications used for cost estimating purposes in the TUMF program. The properties were also determined to be partial or full property takes to determine the relative percentage of each in order to appropriately weight the average cost per square foot of each type of property. Specialty cost percentages as a share of total acquisition costs (i.e. relocation and demolition) were also derived from actual costs based on a sample of the Inland Empire projects that Epic Land Solutions, Inc. was directly involved in and therefore able to obtain reliable data.

The result is an estimated average cost per square foot for ROW acquisition by land use classification which is then multiplied by the number of square feet per lane mile to obtain the required ROW to accomplish the TUMF typical cross section. The ROW requirement is then reduced by a factor of 75% for urban and suburban areas based on the collective recommendation of the PWC during the development of the initial program cost estimation methodology to reflect the assumption that a majority of the proposed TUMF facilities in these areas already exist and/or have a substantial portion of the necessary right-of-way already owned by or dedicated to the responsible jurisdiction. As a result, the TUMF program only includes the estimated cost for 25% of the right-of-way that could potentially be required to accomplish the TUMF cross sections for the conceptual improvement projects identified as part of the program in urban and suburban areas.

Maintenance of Traffic:

A lump sum value is used to account for maintenance of traffic cost of roadway construction. The project maintenance of traffic cost is estimated as 5% (Source: RCTC) of the total project cost.

The consolidated unit cost values include typical per mile or lump sum costs for each of the eligible improvement element. These elements include new roadways, bridge improvements, interchange improvements and railroad grade separation construction costs, and right of way acquisition.

The consolidated unit costs as developed for the 2024 Nexus Update are summarized in Exhibit F-1. Exhibit F-2 provides a summary of the unit costs for the various roadway and structures construction elements defined. Exhibit F-3 provides a summary of the unit costs for the various right of way categories. **Exhibit F-4** provides worksheets showing the detailed unit cost calculation for each TUMF unit cost category related to roadway and structures construction, and right of way acquisition.

September 9, 2024

The unit cost assumptions were subsequently applied to the TUMF Network improvements identified to mitigate the cumulative regional transportation impacts of future new development. The resultant cost value was tabulated for each unique segment of the network, by improvement type. A separate cost estimate was generated for regional transit improvements based on information provided by RTA and added to the TUMF Network Cost Estimate table.

Supplemental categories have been added to the cost assumptions to better delineate the costs associated with planning and engineering a project, accommodating contingencies, mitigating the cumulate multi-species habitat impacts of TUMF arterial highway improvements in accordance with the adopted Riverside County Multi-Species Habitat Conservation Plan (MSHCP), and administering the TUMF program.

Soft Costs

The TUMF program provides for planning, engineering and contingency costs (collectively referred to as soft costs) for eligible projects to be reimbursed through the program. As indicated in **Table 4.1**, planning costs are considered to include those costs associated with planning, preliminary engineering and environmental assessment of the proposed project, with the eligible amount being 10% of the estimated TUMF eligible construction cost only. Engineering costs are considered to include project study report, design, permitting and construction oversight costs based on 25% of the estimated eligible construction cost only. Contingency is provided based on 10% of the total estimated eligible facility cost.

Soft costs include all reasonable required planning, environmental clearance and mitigation, right-of-way documentation, engineering design, plan, specification and estimate preparation and construction management and oversight costs necessary to accomplish the project. The estimated soft cost factors for planning, engineering and contingency were initially established in 2002 by the WRCOG Public Works Committee, which was responsible for the development of the initial TUMF Nexus Study. The percentage multipliers were established by consensus of the PWC based on the collective experience of members in delivering similar public highway projects. A review of various data sources indicates the cost factors are generally consistent with industry guidance for conceptual cost estimation purposes. The City of Los Angeles, Department of Public Works, Bureau of Engineering California Multi-Agency CIP Benchmarking Study (December 2016) indicates that combined design and construction management costs for roadway projects represent, on average, 50% of the total cost of construction¹⁴. Similarly, the American Association of State Highway and Transportation Officials (AASHTO) Practical Guide for Estimating (December 2011) also cites the following average multipliers for a range of planning and engineering activities based on national research as a basis for conceptual cost estimation:

¹⁴ City of Los Angeles, Department of Public Works, Bureau of Engineering California Multi-Agency CIP Benchmarking Study (December 2016), Table 3-6 Average Project Delivery Costs by Project Type (% of TCC) (Full Range of TCC).

- Preliminary Engineering Costs (including survey/data collection, design, environmental, utilities and contract administration) – 10% to 25% of total construction cost¹⁵
- Construction Engineering 10% to 26% of total construction costs¹⁶

Furthermore, the contingency rate utilized in the TUMF program is significantly less than the industry norm for conceptual cost estimation purposes. Specifically, Caltrans *Project Development Procedures Manual* (July 2021) advocates for contingency rates of 30% to 50% of total costs to be used at the project feasibility (conceptual planning) phase of project development¹⁷, with contingency rates reduced to 10% for preliminary engineers cost estimates completed during project design¹⁸.

MSHCP

Section 8.5.1 of the Riverside County Integrated Project (RCIP) <u>Multiple Species Habitat Conservation Plan</u> (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003, states that "each new transportation project will contribute to Plan implementation. Historically, these projects have budgeted 3% - 5% of their construction costs to mitigate environmental impacts." This provision is reiterated in the <u>Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update Final Report</u> (Economic & Planning Systems, Inc., October 2020) section "6. RCA Non-Fee Revenues" which states "The MSHCP forecast an array of revenue sources, in addition to fee revenue, supporting the conservation program. These sources were anticipated to total about 44 percent of the revenue for the program, including:

• Transportation funding – includes the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF) charged on new development." Table 23 Annual Non-Fee Revenue Projection in this section indicates that an average of \$950,000 in MSHCP revenue was derived annually from TUMF during the three years from FY16/17- 18/19 reflecting a TUMF contribution at 5% of construction costs consistent with the MSHCP as adopted in 2003. To clearly demonstrate compliance with the provisions of the MSHCP, the TUMF program will continue to incorporate a cost element to account for the required MSHCP contribution to mitigate the multi-species habitat impacts of constructing TUMF projects.

¹⁵ AASHTO Technical Committee on Cost Estimating (TCCE) AASHTO Practical Guide for Estimating (December 2011), Table 2.4. Preliminary Engineering Costs' Average Percentage Ranges (% of Construction).

¹⁶ AASHTO Technical Committee on Cost Estimating (TCCE) AASHTO Practical Guide for Estimating (December 2011), Section 2.2.3.2.3 Construction Engineering, "highway improvement projects in an urban environment".

 ¹⁷ California Department of Transportation (Caltrans) Division of Design *Project Development Procedures Manual* (July 2021), Chapter 20 – Project Development Cost Estimates, Section 2 – Project Planning Cost Estimates, Article 2 Project Feasibility Cost Estimate, Contingencies.
 ¹⁸ California Department of Transportation (Caltrans) Division of Design *Project Development Procedures Manual* (July 2021), Chapter 20 – Project Development Cost Estimates, Section 3 – Project Design Cost Estimates, Article 4 Preliminary Engineer's Cost Estimate, Contingencies.

An amount equal to 5% of the construction cost for new TUMF network lanes, bridges and railroad grade separations will continue to be specifically included as part of TUMF program with revenues to be provided to the Western Riverside County Regional Conservation Authority (RCA) for the acquisition of land identified in the MSHCP. The relevant sections of the MSHCP document and the 2020 MSHCP Nexus Report are included in this Appendix as **Exhibits F-5** and **F-6**, respectively.

Similarly, an amount of 4% of the total TUMF eligible network cost is included as part of the TUMF program with revenues to be utilized by WRCOG to cover the direct costs to administer the program. The costs incurred by WRCOG include direct salary, fringe benefit and overhead costs for WRCOG staff assigned to administer the program and support participating jurisdictions, and costs for consultant, legal and auditing services to support the implementation of the TUMF program.

Table 4.1 summarizes the unit cost estimate assumptions used to develop the TUMF network cost estimate, including a comparison of the original TUMF unit cost assumptions and the current revised unit cost assumptions developed as part of the 2009 Update of the TUMF Nexus Study. Cost estimates are provided in year of original values as indicated.

EXHIBIT F-1 2024 TUMF Nexus Update - Arterial Highway Cost Assumptions:

| Component Type | Cost Assumptions as published October 18, 2002 | Cost Assumption per 2009 Nexus Update October 5, 2009 | Cost Assumptions per 2016 Update | Cost Assumptions per 2024 Update | Description |
|-------------------|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Terrain 1 | \$550,000.00 | \$628,000.00 | \$692,000.00 | \$1,132,000 | Construction cost per lane mile - level terrain |
| Terrain 2 | \$850,000.00 | \$761,000.00 | \$878,000.00 | \$1,740,000 | Construction cost per lane mile - rolling terrain |
| Terrain 3 | \$1,150,000.00 | \$895,000.00 | \$1,064,000.00 | \$2,350,000 | Construction cost per lane mile - mountainous terrain |
| Landuse 1 | \$900,000.00 | \$1,682,000.00 | \$2,509,000.00 | \$7,830,000 | ROW cost factor per lane mile - urban areas |
| Landuse 2 | \$420,000.00 | \$803,000.00 | \$2,263,000.00 | \$5,440,000 | ROW cost factor per lane mile - suburban areas |
| Landuse 3 | \$240,000.00 | \$237,000.00 | \$287,000.00 | \$490,000 | ROW cost factor per lane mile - rural areas |
| Interchange 1 | n/a | \$43,780,000.00 | \$50,032,000.00 | \$84,190,000 | Complex new interchange/interchange modification cost |
| Interchange 2 | \$20,000,000.00 | \$22,280,000.00 | \$25,558,000.00 | \$43,490,000 | New interchange/interchange modification total cost |
| Interchange 3 | \$10,000,000.00 | \$10,890,000.00 | \$12,343,000.00 | \$22,550,000 | Major interchange improvement total cost |
| Bridge 1 | \$2,000.00 | \$2,880.00 | \$3,180.00 | \$4,800 | Bridge total cost per lane per linear foot |
| RRXing 1 | \$4,500,000.00 | \$4,550,000.00 | \$6,376,000.00 | \$18,200,000 | New Rail Grade Crossing per lane mile |
| RRXing 2 | \$2,250,000.00 | \$2,120,000.00 | \$2,733,000.00 | \$6,900,000 | Existing Rail Grade Crossing per lane mile |
| ITS | n/a | n/a | n/a | \$686,400 | Infrastructure for ITS of Network roadway segments per route mile |
| Planning | 10% | 10% | 10% | 10% | Planning, preliminary engineering and environmental assessment costs based on construction cost only |
| Engineering | 25% | 25% | 25% | 25% | Project study report, design, permitting and construction oversight costs based on construction cost only |
| Contingency | 10% | 10% | 10% | 10% | Contingency costs, including TUMF program administration based on total segment cost |
| Administration | | 3% | 4% | 4% | TUMF program administration based on total TUMF eligible network cost |
| MSHCP | | 5% | 5% | 5% | TUMF component of MSHCP based on total TUMF eligible construction cost |

EXHIBIT F-2

WRCOG Transportation Uniform Mitigation Fee 2024 Nexus Update Master Unit Cost Summary

| I. Roadway Items | Unit | Unit Cost | Notes |
|---------------------------------------------------------|--------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| Section 1: Earthwork | | | |
| Roadway Excavation | - | | |
| Travel way | cubic yard | \$38.55 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 190101 |
| Imported Borrow | | 400,00 | |
| Travel way | cubic yard | \$20.47 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 198010 |
| Clearing & Grubbing | - cobic yara | Ψ20.17 | Codice. 7 To drill costs from Escar Projects and Codinaris Cost Bara 252172522 TEAT 175010 |
| Travel way | acre | \$12,100.00 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 170105 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | Same as RCTC |
| Section 2: Pavement Structural Section | Tomp som | 10% of Excavalion and Bollow Cost | Garrio da Refe |
| PCC | cubic yard | \$354.83 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 401050 |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | Source: Ave unit costs from Local Projects and California Contract Cost Data 2021/2022 - ITEM 390132 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 260203 |
| Curb and Gutter | linear foot | \$65.74 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2022/2023 - ITEM 200203 |
| Section 3: Drainage | ilitear 1001 | \$60.74 | 3001Ce. Ave of the costs from Local Projects and Califatis Conflider Cost Data 2022/2023 - HEM 731304 |
| | lunana auma | 15% of Sections 1 and 2 | Same as RCTC |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | Same as reic |
| Section 4: Specialty Items | 0001000- 11 | \$00.00 | Courses ADI almost word arrows |
| Retaining Walls | square foot | \$90.00 | Source: MBI structural group |
| Ramp Realignment | each | 07 (); 14 0 | 2 2070 |
| Water Quality and Erosion Control | lump sum | 3% of sections 1 to 3 | Same as RCTC |
| Environmental Mitigation | lump sum | 3% of sections 1 to 3 | Same as RCTC |
| Section 5: Traffic Items | | 1 | |
| Lighting | each | \$7,500 | Source: RCTC |
| Traffic Signals | each | \$531,086 | Typical for public agency projects in Western Riverside County and Caltrans Contract Cost Data 2022/2023 |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 846007 |
| Marking - Thermo plastic cross walks & pavement marking | square foot | \$7.31 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 840516 |
| Pavement Marker Retroreflective | each | \$5.06 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2022/2023 - ITEM 810230 |
| Signage - 1 Post | each | \$367.69 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2021/2022 - ITEM 820840 |
| Signage - 2 Post | each | \$1,211.58 | Source: Ave unit costs from Local Projects and Caltrans Contract Cost Data 2022/2023 - ITEM 820850 |
| Infrastructure for ITS of Network roadway segments | route mile | \$686,383.00 | Source: Ave unit costs from Local Projects and MBI ITS Team - Assumptions: 3 Traffic Signals per route mile |
| <u>Section 6</u> : Minor Items | lump sum | 10% of sections 1 to 5 | Same as RCTC |
| <u>Section 7</u> : Roadway Mobilization | lump sum | 10% of sections 1 to 6 | Same as RCTC |
| <u>Section 8</u> :Roadway Additions | lump sum | 10% of sections 1 to 6 | Same as RCTC |
| | | | |
| II. STRUCTURE ITEMS | | | |
| Major New Interchange - 2 Lane New Bridge | square foot | \$400.00 | Interchange/Interchange, Cloverleaf Interchange - Cost provided by MBI Structural Group |
| New Interchange - 2 Lane New Bridge | square foot | \$400.00 | Interchange/Interchange, Diamond Interchange - Cost provided by MBI Structural Group |
| Major Interchange Improvement - 2 Lane Bridge Widening | square foot | \$500.00 | Interchange/Interchange, Cloverleaf Interchange - Cost provided by MBI Structural Group |
| Bridge | square foot | \$400.00 | Cost provided by MBI Structural Group |
| Structure Mobilization | lump sum | 10% of structure cost | Typical for public agency projects in Western Riverside County |
| | | | |
| III. RIGHT OF WAY ITEMS | | | |
| <u>Urban</u> | | | |
| Travel Way - Additional lane | square foot | \$330 | Provided by Epic Land Solutions, Inc. |
| <u>Suburban</u> | | | |
| Travel Way - Additional lane | square foot | \$229 | Provided by Epic Land Solutions, Inc. |
| Rural | | | |
| Travel Way - Additional lane | square foot | \$5 | Provided by Epic Land Solutions, Inc. |
| Utility Relocation | lump sum | 10% of ROW | Includes mobilization for one occurrence per lane mile |
| | - | | • |
| Total Items | 1 | + + | Same as RCTC |
| Maintenance of Traffic | lump sum | 5% of total items | Same as RCTC |
| | | | |

EXHIBIT F-3
WRCOG Transportation Uniform Mitigation Fee
2024 Nexus Update Master Property Cost Summary

| i . | | · ' | - / |
|------------------------------------|---------------------|-----------------|-------------------|
| URBAN | Avg. \$ per SF | % of Total Area | Weighted Cost |
| Commercial | | | |
| Part Take | \$22 | 1.4% | \$0.30 |
| Full Take | \$597 | 7.9% | \$47.40 |
| | **** | 9.3% | • |
| Industrial | | | |
| Part Take | \$29 | 0.5% | \$0.15 |
| Full Take | \$267 | 6.0% | \$16.02 |
| Single Family Residential | | 6.5% | |
| Part Take | \$10 | 16.8% | \$1.68 |
| Full Take | \$348 | 66.2% | \$230.24 |
| . o rane | Ψο .ο | 83.0% | . 4200.21 |
| Multi Family Residential | | | |
| Part Take | \$27 | 0.3% | \$0.07 |
| Full Take | \$307 | 0.8% | \$2.52 |
| | | 1.1% | |
| Average Unit Price per Square | Foot: | | \$298.38 |
| Desidential O New D | Dala antion (7) | F07.). | #00.20 |
| Residential & Non-R | .es. kelocation (/. | J/0]. | \$22.38 |
| Demolition (3%) | | | \$8.95 |
| Urban Unit Cost per Square Fo | \$329.71 | | |
| SUBURBAN | Avg. \$ per \$F | % of Total Area | Weighted Share |
| Commercial | | | |
| Part Take | \$17 | 5.1% | \$0.87 |
| Full Take | \$425 | 14.6% | \$62.01 |
| 1 dii Take | ψ420 | 19.7% | - ΨΟΣ.ΟΊ |
| Industrial | | | |
| Part Take | \$20 | 0.0288 | \$0.58 |
| Full Take | \$227 | 0.08645 | \$19.62 |
| | | 11.5% | - |
| Single Family Residential | | | |
| Part Take | \$4 | 0.24 | \$0.96 |
| Full Take | \$292 | 0.3866 | \$112.89 |
| AA-JA: Farasila Daniala akind | | 62.7% | |
| Multi Family Residential Part Take | \$14 | 0.0284 | ¢0.40 |
| Full Take | \$14 \$313 | 0.0264 | \$0.40 \$10.05 |
| roll take | φυιυ | 6.1% | . \$10.03 |
| | | 31170 | |
| Average Unit Price per Square | Foot: | | \$207.37 |
| Residential & Non-R | es. Relocation (7. | 5%): | \$15.55 |
| Demolition (3%) | \$6.22 | | |
| Suburban Unit Cost per Square | \$229.14 | | |
| RURAL | | | \$ per SF |
| Range of Value of Rural Vaca | \$0.07 - \$31.48 | | |
| Average price per square foo | \$4.66 | | |
| - ' ' ' | · | | |
| Miscellaneous improvements | \$0.46 | | |
| Rural Unit Cost per Square Foo | \$5.12 | | |

EXHIBIT F-4
WRCOG Transportation Uniform Mitigation Fee
Cost Assumption Estimate - 2024 Nexus Update
Terrain 1 - Level Terrain

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| <u>Section 1: Earthwork</u> | | | | |
| Roadway Excavation | | | | |
| Travel way | cubic yard | \$38.55 | 0.00 | \$0 |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 0.00 | \$0 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 1.94 | \$23,467 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$0 |
| Section 2: Pavement Structural Section | | | | |
| Sidewalk | | | | |
| PCC | cubic yard | \$354.83 | 258.13 | \$91,593 |
| Travel way | | | | |
| Asphalt Concrete Type A | cubic yard | \$240.62 | 1,032.53 | \$248,448 |
| Aggregate Base | cubic yard | \$73.54 | 2,596.98 | \$190,982 |
| Curb and Gutter | linear foot | \$65.74 | 5,280.00 | \$347,107 |
| <u>Section 3: Drainage</u> | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$135,240 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 10,560.00 | \$27,245 |
| Marking | square foot | \$7.31 | 211.50 | \$1,546 |
| Pavement Marker (Type G One-way Clear Retroreflective) | each | \$5.06 | 110.00 | \$557 |
| Signage - 1 Post (Mainline) | each | \$367.69 | 33.00 | \$12,134 |
| Total Items | | I | | \$1,078,318 |
| Maintenance of Traffic | | 5% of total items | 1.00 | \$53,916 |
| Project Cost / Lane mile | | | | \$1,132,234 |

WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update

Terrain 2 - Rolling Terrain

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| <u>Section 1: Earthwork</u> | | | | |
| Roadway Excavation | | | | |
| Travel way | cubic yard | \$38.55 | 7,739.26 | \$298,348 |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 7,739.26 | \$158,423 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 1.94 | \$23,467 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$45,677 |
| Section 2: Pavement Structural Section | | | | |
| Sidewalk | | | | |
| PCC | cubic yard | \$354.83 | 258.13 | \$91,593 |
| Travel way | | | | |
| Asphalt Concrete Type A | cubic yard | \$240.62 | 1,032.53 | \$248,448 |
| Aggregate Base | cubic yard | \$73.54 | 2,596.98 | \$190,982 |
| Curb and Gutter | linear foot | \$65.74 | 5,280.00 | \$347,107 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$210,607 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 10,560.00 | \$27,245 |
| Marking | square foot | \$7.31 | 211.50 | \$1,546 |
| Pavement Marker (Type G One-way Clear Retroreflective) | each | \$5.06 | 110.00 | \$557 |
| Signage - 1 Post (Mainline) | each | \$367.69 | 33.00 | \$12,134 |
| Total Items | | ſ | | \$1,656,133 |
| Maintenance of Traffic | | 5% of total items | 1.00 | \$82,807 |
| Project Cost / Lane mile | | | | \$1,738,940 |

WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update

Terrain 3 - Mountainous Terrain

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| <u>Section 1: Earthwork</u> | | | | |
| Roadway Excavation | | | | |
| Travel way | cubic yard | \$38.55 | 15,478.52 | \$596,697 |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 15,478.52 | \$316,845 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 1.94 | \$23,467 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$91,354 |
| Section 2: Pavement Structural Section | | | | |
| Sidewalk | | | | |
| PCC | cubic yard | \$354.83 | 258.13 | \$91,593 |
| Travel way | | | | |
| Asphalt Concrete Type A | cubic yard | \$240.62 | 1,032.53 | \$248,448 |
| Aggregate Base | cubic yard | \$73.54 | 2,596.98 | \$190,982 |
| Curb and Gutter | linear foot | \$65.74 | 5,280.00 | \$347,107 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$285,974 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 10,560.00 | \$27,245 |
| Marking | square foot | \$7.31 | 211.50 | \$1,546 |
| Pavement Marker (Type G One-way Clear Retroreflective) | each | \$5.06 | 110.00 | \$557 |
| Signage - 1 Post (Mainline) | each | \$367.69 | 33.00 | \$12,134 |
| Total Items | | | | \$2,233,949 |
| Maintenance of Traffic | | 5% of total items | 1.00 | \$111,697 |
| Project Cost / Lane mile | | | | \$2,345,646 |

EXHIBIT F-4 (Continued) WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update

Landuse 1 - ROW Urban areas

| | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------|-------------|-----------|----------------------|------------------|
| III. RIGHT OF WAY ITEMS | | | | |
| <u>Urban</u> | | | | |
| Travel Way | square foot | \$329.71 | 95,040.00 | \$31,335,419 |
| Project Cost / Lane mile | | | 25% | \$7,833,855 |

Landuse 2 - ROW Suburban Areas

| | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------|-------------|-----------|----------------------|------------------|
| III. RIGHT OF WAY ITEMS | | | | |
| <u>Suburban</u> | | | | |
| Travel Way | square foot | \$229.14 | 95,040.00 | \$21,777,847 |
| Project Cost / Lane mile | | | 25% | \$5,444,462 |

Landuse 3 - ROW Rural areas

| I. Roadway Items | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------|-------------|-----------|----------------------|------------------|
| III. RIGHT OF WAY ITEMS | | | | |
| <u>Rural</u> | | | | |
| Travel Way | square foot | \$5.12 | 95,040.00 | \$486,605 |
| Project Cost / Lane mile | | | | \$486,605 |

WRCOG Transportation Uniform Mitigation Fee

Cost Assumption Estimate - 2024 Nexus Update

Interchange 1 - Complex New Interchange/Interchange Modification

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| Section 1: Earthwork | | | | |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 700,000.00 | \$14,329,000 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 51.93 | \$628,349 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$1,432,900 |
| Section 2: Pavement Structural Section | | | | |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | 13,500.00 | \$3,248,370 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | 34,000.00 | \$2,500,360 |
| Curb and Gutter | linear foot | \$65.74 | 31,000.00 | \$2,037,940 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$3,626,538 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 84,250.00 | \$217,365 |
| Marking | square foot | \$7.31 | 368.00 | \$2,690 |
| Signage - 1 Post | each | \$367.69 | 14.00 | \$5,148 |
| Signage - 2 Post | each | \$1,211.58 | 4.00 | \$4,846 |
| | _ | | | |
| III. STRUCTURE ITEMS | | | | |
| Complex New Interchange - 2 Lane New Bridge | square foot | \$400.00 | 140,400.00 | \$56,160,000 |
| Total Items | 1 | + + | | \$84,193,506 |
| Total Project Cost / lane mile | <u> </u> | | • | \$84,193,506 |

WRCOG Transportation Uniform Mitigation Fee

Cost Assumption Estimate - 2024 Nexus Update

Interchange 2 - New Interchange/Interchange Modification

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| Section 1: Earthwork | | | | |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 400,000.00 | \$8,188,000 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 25.12 | \$304,000 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$818,800 |
| Section 2: Pavement Structural Section | | | | |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | 7,040.00 | \$1,693,965 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | 17,706.67 | \$1,302,148 |
| Curb and Gutter | linear foot | \$65.74 | 16,000.00 | \$1,051,840 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$2,003,813 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 43,200.00 | \$111,456 |
| Marking | square foot | \$7.31 | 368.00 | \$2,690 |
| Signage - 1 Post | each | \$367.69 | 36.00 | \$13,237 |
| Signage - 2 Post | each | \$1,211.58 | 4.00 | \$4,846 |
| | | | | |
| II. STRUCTURE ITEMS | | | | |
| New Interchange - 2 Lane New Bridge | square foot | \$400.00 | 70,000.00 | \$28,000,000 |
| Total Items | 1 | | | \$43,494,795 |
| Total Project Cost / Iane mile | | | | \$43,494,795 |

WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update

Interchange 3 - Major Interchange Improvement

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------------------------------------|-------------|-----------------------------------|----------------------|------------------|
| Section 1: Earthwork | | | | |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 180,000.00 | \$3,684,600 |
| Clearing & Grubbing | | | | |
| Travel way | acre | \$12,100.00 | 3.97 | \$48,000 |
| Develop Water Supply | lump sum | 10% of Excavation and Borrow Cost | 1.00 | \$368,460 |
| Section 2: Pavement Structural Section | | | | |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | 3,128.89 | \$752,873 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | 7,869.63 | \$578,733 |
| Curb and Gutter | linear foot | \$65.74 | 16,000.00 | \$1,051,840 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$972,676 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 32,000.00 | \$82,560 |
| Marking | square foot | \$7.31 | 184.00 | \$1,345 |
| Signage - 1 Post | each | \$367.69 | 20.00 | \$7,354 |
| Signage - 2 Post | each | \$1,211.58 | 4.00 | \$4,846 |
| II. STRUCTURE ITEMS | | | I | |
| Major Interchange Improvement - 2 Lane Bridge Widening | square foot | \$500.00 | 30,000.00 | \$15,000,000 |
| Total Items | | + + | | \$22,553,287 |
| Total Project Cost / Iane mile | | | | \$22,553,287 |

WRCOG Transportation Uniform Mitigation Fee

Cost Assumption Estimate - 2024 Nexus Update

Bridge 1 - New Bridge Cost

| II. STRUCTURE ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|--------------------------------|-------------|-----------|----------------------|------------------|
| Bridge | square foot | \$400.00 | 12.00 | \$4,800 |
| | | | | |
| Total Items | | + + | | \$4,800 |
| Total Project Cost / Iane mile | | | | \$4,800 |

WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update

RRXing 1 - New Rail Grade Crossing

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|------------------------------------------------------|-------------|-------------------------|----------------------|------------------|
| Section 1: Earthwork | | | | |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 17,931.03 | \$367,048 |
| Section 2: Pavement Structural Section | | | | |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | 782.22 | \$188,218 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | 1,967.41 | \$144,683 |
| Curb and Gutter | linear foot | \$65.74 | 1,180.00 | \$77,573 |
| Section 3: Drainage | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$116,628 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 1,180.00 | \$3,044 |
| | | | | |
| II. STRUCTURE ITEMS | | | | |
| Bridge | square foot | \$400.00 | 2,880.00 | \$1,152,000 |
| | | | | |
| III. RIGHT OF WAY ITEMS | | | | |
| <u>Urban</u> | | | | |
| Travel Way - Additional lane | square foot | \$329.71 | 49,000.00 | \$16,155,790 |
| Total Items | | + + | | \$18,204,986 |
| Total Project Cost / Iane mile | • | | • | \$18,204,986 |

WRCOG Transportation Uniform Mitigation Fee Cost Assumption Estimate - 2024 Nexus Update RRXing 2 - Widen Existing Rail Grade Crossing

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / lane mile | Cost / lane mile |
|------------------------------------------------------|-------------|-------------------------|----------------------|------------------|
| Section 1: Earthwork | | | | |
| Imported Borrow | | | | |
| Travel way | cubic yard | \$20.47 | 17.78 | \$364 |
| Section 2: Pavement Structural Section | | | | |
| Asphalt Concrete Type A (Including Bike Lane) | cubic yard | \$240.62 | 782.22 | \$188,218 |
| Aggregate Base (Including Bike Lane) | cubic yard | \$73.54 | 1,967.41 | \$144,683 |
| Curb and Gutter linear foot \$65.74 1,180 | | 1,180.00 | \$77,573 | |
| <u>Section 3: Drainage</u> | | | | |
| Project Drainage | lump sum | 15% of Sections 1 and 2 | 1.00 | \$61,626 |
| Section 5: Traffic Items | | | | |
| Striping - Thermo plastic (1 GP Lane, per direction) | linear foot | \$2.58 | 1,180.00 | \$3,044 |
| | | | | |
| II. STRUCTURE ITEMS | | | | |
| Bridge | square foot | \$400.00 | 2,880.00 | \$1,152,000 |
| | | T | | |
| III. RIGHT OF WAY ITEMS | | | | |
| <u>Urban</u> | | | | |
| Travel Way - Additional lane | square foot | \$329.71 | 16,000.00 | \$5,275,360 |
| Total Items | | + + | | \$6,902,869 |
| Total Project Cost / lane mile | | | | \$6,902,869 |

WRCOG Transportation Uniform Mitigation Fee

Cost Assumption Estimate - 2024 Nexus Update

Infrastructure for Intelligent Transportation Systems (ITS) on TUMF Network Roadway Segments

| I. ROADWAY ITEMS | Unit | Unit Cost | Quantity / route mile | Cost / route mile |
|----------------------------------------------------|------------|--------------|-----------------------|-------------------|
| Infrastructure for ITS of Network roadway segments | route mile | \$686,383.00 | 1.00 | \$686,383 |
| Total Items | | + + | | \$686,383 |
| Total Project Cost / route mile | | | | \$686,383 |

EXHIBIT F-5

Riverside County Integrated Project (RCIP) Multiple Species Habitat Conservation Plan (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003

Section 8.0 MSHCP Funding/Financing of Reserve Assembly and Management



8.5 LOCAL FUNDING PROGRAM

The following local funding plan describes the local commitment for funding Reserve Assembly, Management, and Monitoring.

The local funding program includes funding from a variety of sources, including but not limited to, regional funding resulting from the importation of waste into landfills in Riverside County, mitigation for regional public infrastructure projects, mitigation for private infrastructure projects, mitigation for private Development, funds generated by local or regional incentive programs that encourage compact growth and the creation of transit-oriented communities, and dedications of lands in conjunction with local approval of private development projects.

The local funding program will fund the local portion of:

- Land acquisition
- Management
- Monitoring
- Adaptive Management
- Plan administration

8.5.1 Funding Sources

Local funding sources include funding from both public and private developers and regional entities in an effort to spread the financial burden of the MSHCP over a broad base. The mix of funding sources provides an equitable distribution of the cost for local mitigation under the MSHCP. In addition to equitably distributing mitigation for local projects, utilizing a mixture of funding sources will help ensure the long-term viability of the local funding program because a temporary decline in funding from one source may be offset by increases from another. The proposed local funding sources are described below and include:

- Local Development Mitigation Fees
- Density Bonus Fees
- Regional Infrastructure Project Contribution
- Landfill Tipping Fees

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Other Potential New Revenue Sources

Local Development Mitigation Fees

New Development affects the environment directly through construction activity and cumulatively through population bases that result from Development. Government Code Section 66000 et seq. allows cities and counties to charge new Development for the costs of mitigating the impacts of new Development. The Cities and County will implement a Development Mitigation Fee pursuant to the MSHCP; this fee will be one of the primary sources of funding the implementation of the MSHCP. The fee ordinance adopted by the Cities and the County will provide for an annual CPI adjustment based upon the Consumer Price Index for "All Urban Consumers" in the Los Angeles-Anaheim-Riverside Area, measured as of the month of December in the calendar year which ends in the previous Fiscal Year. There will also be a provision for the fee to be reevaluated and revised should it be found to insufficiently cover mitigation of new Development. A fee of approximately \$1,500 per residential unit (or an equivalent fee per acre) and \$4,800 per acre of commercial or industrial Development was used in the revenue projection shown in *Appendix B-05* of this document. The projected revenues from the Development Mitigation Fee are anticipated to be approximately \$540 million over the next 25 years. A nexus study is required to demonstrate that the proposed fee is proportionate to the impacts of the new Development.

Density Bonus Fees

The New Riverside County General Plan creates a number of incentive plans that have the potential both to further the goals of the County's General Plan and to facilitate the implementation of the MSHCP. Section 8.4.2 above discusses the use of the Rural Incentive Program to aid in the Conservation of lands through non-acquisition means. An additional component of the Incentive Program enables developers to acquire the right to develop at an additional 25% increase in density by providing enhancements to their projects and by paying a "Density Bonus Fee." The fee is anticipated to be \$3,000 - \$5,000 per additional unit. This program offers a significant incentive to developers when compared with the typical cost of creating a new buildable lot.

The Density Bonus program is new to Riverside County, and it is, therefore, difficult to project annual revenues. The Local Funding Program assumes that between 10% and 20% of the residential units built in the unincorporated County area will participate in the incentive program and that only 50% of the revenues of the program will be committed to the MSHCP, with the remaining portion staying in the local community in which the additional units are located to provide additional

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amenities that will help offset the greater density. Of the 330,000 units projected to be built over the next 25 years, 10% (or 33,000 units) are assumed to be built utilizing the Density Bonus Fee resulting in \$132,000,000 in revenues of which 50% (or \$66,000,000) will be allocated to the MSHCP.

Regional Infrastructure Project Contribution

Regional infrastructure projects directly affect the environment not only through the effect they have on species and their Habitats, but also by facilitating continued new Development. It is appropriate, therefore, for regional infrastructure projects to contribute to Plan implementation . Four general categories of infrastructure projects have been identified:

- Transportation Infrastructure
- Regional Utility Projects
- Local Public Capital Construction Projects
- Regional Flood Control Projects

Transportation Infrastructure

The RCIP has identified the need for approximately \$12 billion in new transportation infrastructure to support the Development proposed for the next 25 years. Each new transportation project will contribute to Plan implementation . Historically, these projects have budgeted 3%-5% of their construction costs to mitigate environmental impacts. The local funding program anticipates that more than one-half of the \$12 billion cost of contribution to acquisition of Additional Reserve Lands will be funded locally and will result in approximately \$371 million in contribution over the next 25 years as discussed below.

► Riverside County's ½ cent sales tax for Transportation

In 1988, Riverside County voters approved a measure to increase local sales tax by $\frac{1}{2}$ cent to fund new transportation projects (Measure A). The sales tax measure is due to be reauthorized in 2002. Under the reauthorization, \$121 million will be allocated as local contribution under the MSHCP. (For further information on the sales tax measure, see *Section 13.5* of the MSHCP Implementing Agreement and *Appendix B-07* of this document).

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Regional Utility Projects

As Riverside County's population doubles over the next 25 years, new regional utility infrastructure will be required. Since the utilities are not Permittees under the MSHCP, they may choose to mitigate under the Plan or seek their own regulatory permits. In either case, their mitigation will be focused on the objectives of the MSHCP and will contribute to the local implementation funding. No estimate of the number of projects or the scope or costs is available at this time; consequently, no estimate of mitigation funding has been made. The Permittees expect that regional utility projects will contribute to the implementation of the MSHCP and provide an additional contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Local Public Capital Construction Projects

Local public capital construction projects may include construction of new schools, universities, City or County administrative facilities, jails, courts, juvenile facilities, parks, libraries, or other facilities that serve the public. These projects will be mitigated under the MSHCP and will utilize a per acre mitigation fee based on the fee then in place for private, commercial and industrial Development. No attempt has been made to estimate the number or magnitude of these projects. The Permittees expect that local pubic construction projects will contribute to the implementation of the MSHCP and provide an additional contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Regional Flood Control Projects

Flood control projects will receive coverage under the MSHCP for both new capital construction and for the maintenance of existing and new facilities. Preliminary estimates from the Riverside County Flood Control and Water Conservation District indicate that they will likely budget approximately \$15 M in projects annually. Based on using 3% of capital costs, the District would be expected to contribute approximately \$450,000 to \$750,000 annually to MSHCP implementation. Since many flood control projects serve existing developed communities and therefore have less impacts than projects adding capacity to serve new Development and may provide some conservation value especially in terms of Constrained Linkages, the District's contributions may average something below the 5% level on average.

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Landfill Tipping Fees

Riverside County has utilized revenues from public and private landfills in Riverside County to generate funding for conservation and open space projects for over a decade. In 1990, the County utilized \$1 per ton tipping fee assessed all waste deposited in County landfills to fund the acquisition of the Santa Rosa Plateau and approximately \$260,000 annually to fund the operation of the County Park and Open Space Districts. More recently, the County has negotiated agreements with two private landfills in the County to commit \$1 per ton on all waste imported from outside Riverside County to Conservation within Riverside County.

El Sobrante Landfill

This privately owned landfill was permitted to expand its capacity to 10,000 tons per day in 2001. In approving the landfill expansion, the Riverside County Board of Supervisors authorized fifty cents per ton of the County's portion of the revenue from the landfill expansion to be applied to Conservation in addition to the \$1 per ton that was committed under the landfill agreement. The projection of the annual tonnage and revenue for Conservation included in *Appendix B-09* of this document reflects the \$1.5 per ton commitment to Conservation. Over the life of the landfill, 60 million tons of imported waste are allowed. Sixty million tons at \$1.5 per ton will generate \$90 million for Conservation. The Cash Flow Analysis in *Appendix B-10* of this document reflects the annual revenues from the El Sobrante Landfill.

County Landfills

The County Board of Supervisors, beginning in 1990, authorized \$1 per ton for all in-county waste deposited in County landfills to go toward habitat and open space Conservation. After adjusting for the debt service on the Santa Rosa Plateau acquisition and an annual commitment to the Park and Open Space District, there is a projected annual balance of \$400,000 that can be applied to additional Conservation under the MSHCP. *Appendix B-09* of this document includes a projection of tonnage from in-County waste at County landfills. The Cash Flow Analysis in *Appendix B-10* of this document reflects the annual revenues from the County landfills. Over the next 25 years, County landfills will contribute approximately \$10 million to the implementation of the MSHCP.

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Eagle Mountain

In 1997, the County approved the use of the old Kaiser mine at Eagle Mountain in eastern Riverside County as a regional landfill to serve primarily Los Angeles County. Subsequently, the Los Angeles County Sanitation District has acquired the rights to the Eagle Mountain Landfill and intends to begin operation of the landfill within the next decade. At this time, litigation is still pending that could prohibit the development of the landfill. The Development Agreement with the County would require the payment of \$1 per ton for Conservation if the landfill is developed. Conservation needs in the Coachella Valley would have first priority over the revenues from the Eagle Mountain Landfill; however, some portion of the revenues would be available to support Conservation needs in Western Riverside County. The Permittees expect that the Eagle Mountain Landfill will provide funding to support implementation of the MSHCP over the life of the MSHCP. However, no revenue from the Eagle Mountain Landfill has been projected in the funding program at this time. These potential revenues provide a contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Potential New Revenue Sources

The County and Cities may levy assessments to pay for services that directly benefit the property on which the fee is levied. Under current law, a local election may be required to initially levy the assessment or to confirm the assessment if a protest is filed. No such assessments are currently projected for the MSHCP. As the MSHCP Conservation Area is developed, however, its value as open space and for recreation opportunities may lend itself to a local funding program for ongoing management and enhancement. In more urban areas, which Western Riverside County will be in 25 years, local voters routinely approve such funding programs.

Other revenue opportunities may be realized over the next 25 years. The County, Cities, and RCA will explore new revenue sources to support the acquisition of the MSHCP Conservation Area and its long-term management and enhancement. A goal of any new fee would be to spread a portion of the costs for the MSHCP across as broad a regional base as possible.

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TABLE 8-5 LOCAL PUBLIC/REGIONAL FUNDING SOURCES

| Source Anticipated \$ Rang | | Requirements to Implement | Responsible Party | |
|--------------------------------------------------|-----------|-----------------------------------------------------------------|-------------------|--|
| Private Funding Sources: | | | | |
| Cities and County Development Mitigation Fees | \$539.6M | Approval of County Ordinance Approval of City(ies) Ordinance | County Cities | |
| Density Bonus Fees | \$66M | Approval of General Plan | County | |
| Public Funding Sources | | | | |
| Local Roads | \$121M | Approval of Measure A, local agreement on allocation | RCTC/County | |
| Other Transportation | \$250M | % of new road construction | RCTC/County | |
| Other infrastructure Projects | \$unknown | Project-by-project negotiation | County and Cities | |
| El Sobrante Landfill | \$90M | In place | County | |
| County Landfills | \$10M | In place | County | |
| Eagle Mountain Landfill | \$unknown | In place pending start-up | County | |
| New Regional funding | \$unknown | Voter approval | County and Cities | |

TOTAL LOCAL FUNDS \$1,076.6M

8.6 ADEQUACY OF FUNDING

The Permittees and the Wildlife Agencies will annually evaluate the performance of the funding mechanisms and, notwithstanding other provisions of the MSHCP, will develop any necessary modifications to the funding mechanisms to address additional funding needs. Additionally, this annual evaluation will include an assessment of the funding plan and anticipate funding needs over the ensuing 18 months for the purpose of identifying any potential deficiencies in cash flow. If deficiencies are identified through this evaluation, then the Permittees and the Wildlife Agencies will develop strategies to address any additional funding needs consistent with the terms and conditions of the MSHCP.

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EXHIBIT F-6

Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update Final Report Economic & Planning Systems, Inc., October 2020

Final Report

Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update

Prepared for:

Western Riverside County Regional Conservation Authority

Prepared by:

Economic & Planning Systems, Inc.

October 2020

EPS #171034

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1. Introduction and Key Findings

This Updated Nexus Study (2020 Nexus Study) provides the technical justification for changes to the Local Development Mitigation Fee schedule that applies to Local Permittee participants in the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan). These changes are necessary to ensure adequate funding of the obligations of the Local Permittees under the MSHCP and the associated Incidental Take Permit and Implementing Agreement. The resulting increased fee revenues will support the continued implementation of the MSHCP and the streamlining of endangered species incidental take permitting for new Western Riverside County development provided under the MSHCP. This Nexus Study is consistent with the requirements of California Government Code 66000 et seq. (the Mitigation Fee Act) that requires specific findings (as well as administration and implementation procedures) for "any action establishing, increasing, or imposing a fee as a condition of approval of a development project by a local agency."

Background

The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan), originally adopted in 2004, is a comprehensive, multi-jurisdictional Habitat Conservation Plan (HCP) focusing on the conservation of species and their associated habitats in Western Riverside County. The MSHCP was developed in response to the need for future growth opportunities in Western Riverside County while addressing the requirements of the State and federal Endangered Species Acts. The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal Endangered Species Act of 1973 as well as a Natural Communities Conservation Plan under the NCCP Act of 2001. The MSHCP streamlines these environmental permitting processes by allowing the participating jurisdictions to authorize "take" of plant and wildlife species identified within the Plan Area. At the same time, Plan implementation provides a coordinated MSHCP Conservation Area and implementation program to preserve biological diversity and maintain the region's quality of life.

The MSHCP and the associated Implementing Agreement and Incidental Take Permit collectively determine a set of conservation actions that must be taken to meet the terms of the Incidental Take Permit and benefit from the regulatory streamlining and other benefits of the MSHCP. This includes the identification of the responsible parties, including the responsibilities of the Local Permittees. One of the key requirements of the MSHCP, Implementing Agreement, and Incidental Take Permit (consistent with the requirements of the federal Endangered Species Act) is the provision of adequate funding by Local Permittees to the Implementing Entity (the Western Riverside County Regional Conservation Authority²) to conduct their portion of the conservation actions identified in the MSHCP.

¹ Local Permittees include the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Park and Open-Space District, County Department of Waste Resources, and Riverside County Transportation Commission.

² The Western Riverside County Regional Conservation Agency is a Joint Powers Authority established in 2004 to implement the MSHCP.

Section 8.0 of the MSHCP outlines the MSHCP funding/financing approach. It also identified best estimates of Plan implementation costs at the time of Plan adoption, including the local funding commitment that represents a portion of the overall land acquisition, management and monitoring, and Plan administration costs. The Local Funding Program included a mix of funding sources to provide "an equitable distribution of the cost for local mitigation under the MSHCP." The proposed funding sources included Local Development Mitigation Fees (and land dedications), regional infrastructure project public contributions (including contributions to mitigate for transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects), and landfill tipping fees.

Participating cities and the County were each required to implement a Local Development Mitigation Fee under California Government Code Section 66000 et seq. (the "Mitigation Fee Act") and supported by the separate "Final Mitigation Fee Nexus Study Report for the Western Riverside County Multiple Species Habitat Conservation Plan," July 1, 2003 (Original or 2003 Nexus Study). The MSHCP funding chapter notes the need for frequent evaluations of the performance of the funding mechanisms and assessments of the funding plan and the need to make any necessary modifications to the funding mechanisms. The MSHCP also notes that the mitigation fee will need to be "reevaluated and revised should it be found to insufficiently cover mitigation of new development."

In addition to the common practice of updating mitigation fees periodically to account for changing circumstances, the Western Riverside County Regional Conservation Authority (RCA) has determined that significant changes have occurred and/or circumstances have arisen that justify an update to the mitigation fees. These changes include, but are not limited to, the following:

- The need to acquire more land than originally forecast due to the lower than expected land dedication.
- The lower-than-expected levels of non-fee funding from local and regional funding sources.
- The lower than expected levels of residential development.
- The need to diversify land acquisitions away from a focus on the larger, more remote parcels to also acquiring parcels closer to urbanized areas, consistent with the reserve assembly requirements of the MSHCP.

Original and Existing Fee Schedule

All local jurisdictions participating in the MSHCP and obtaining coverage for public and private take in their jurisdictions were required to adopt and implement the 2004 Mitigation Fee Schedule through ordinance and resolution and then to pass through the fee funding (except for any additional administrative charges added by the jurisdictions) to the RCA to fund MSHCP implementation. The ordinances allowed for periodic inflationary increases based on the annual change in the Consumer Price Index for the Los Angeles-Anaheim-Riverside area. In 2018 the Bureau of Labor Statistics implemented a geographic revision, establishing Riverside as its own Core Based Statistical Area. As a result, Riverside was removed from the Consumer Price Index encompassing Los Angeles and Anaheim. Going forward, inflationary increases will be based on the annual change in the Consumer Price Index for the newly established Riverside-San

Bernardino-Ontario area. As outlined in the 2003 Nexus Study (Original Nexus Study), all new development in Western Riverside County is required to pay the mitigation fee.

Table 1 shows the original 2004 Local Development Mitigation Fee schedule and the current 2021 Fee Schedule that reflects periodic inflationary fee adjustments using the indexing process that collectively increased the fees by 35 percent between 2004 and 2020 (this was below the overall inflation index increase over this period).

Table 1 2004 and 2021 MSHCP Fee Schedule

| Fee Category | 2004 Fee per unit or per acre | 2021 Fee per unit or per acre ³ |
|-------------------------------------------------------|-------------------------------|-----------------------------------------------|
| Residential: Up to 8.0 dwelling units per acre (DUAC) | \$1,651 | \$2,234 |
| Residential: 8.0-14.0 DUAC | \$1,057 | \$1,430 |
| Residential: 14.0+ DUAC | \$859 | \$1,161 |
| Commercial (per acre) | \$5,620 | \$7,606 |
| Industrial (per acre) | \$5,620 | \$7,606 |

Updated Mitigation Fee Schedules

This 2020 Nexus Study has estimated the increased fee level that would be required to provide sufficient revenues, based on the best available forecasts of future growth, to support the full implementation of the MSHCP, including the completion of all land acquisition and the establishment of the necessary endowment, by 2029 (Year 25 of Plan implementation). Because, as shown below, this would require a major increase in the fee levels, three other scenarios are also considered where different time extensions provide more time for land acquisition. These extensions allow for the costs of Plan implementation (including land acquisitions) to be spread across more development and, as a result, moderate the level of mitigation fee increase required. In addition, the longer extension scenarios require a pace of land acquisition that is more consistent with what has proven to be achievable. All of these fee

³ Note it is RCA procedure to refer to fees during, for example, Fiscal Year 2020/2021, as the 2021 fee. The 2021 fee became effective July 1, 2020, and applies for the fiscal year of 2020-21 (i.e., until June 30, 2021 when the 2022 Fee begins).

⁴ The MSHCP provided a 25-year period of the required land acquisition with the larger 75-year permit term. This is labelled the "No Extension" or "Baseline Scenario" in this Update Study.

⁵ The baseline scenario as well as the extension scenarios assume that all land acquisition as well as the full endowment will be completed/ established by the end of the specified implementation/ land acquisition period. Interest from the non-depleting endowment will fund all ongoing costs thereafter.

increases would be consistent with the Mitigation Fee Act and the MSHCP and associated Incidental Take Permit and Implementing Agreement.

The mitigation fee levels shown for each extension scenario are the fee levels required to cover the appropriate portion of the Local Permittee MSHCP implementation costs based on the best information available at this time. The revised mitigation fee levels reflect changes in estimated costs, expected levels of land dedication, and non-fee funding. Consistent with the MSHCP and Original Nexus Study, it is assumed that all new development in Western Riverside County will pay the mitigation fee because, as noted in the MSHCP, "new development affects the environment through construction activity and cumulatively through population bases that result from such development." Importantly, the revised mitigation fee levels also reflect the decision to determine the mitigation fee that applies to different land uses on a consistent per gross acre basis. This approach is considered to provide a clear, consistent, and proportionate method for determining mitigation fees on new development. The 2020 Nexus Study does convert the overarching per gross acre fee into per unit residential fees for different density ranges; this conversion was conducted to provide implementation/administrative consistency for member jurisdictions.

Table 2 Updated MSHCP Implementation Costs and Per Acre Mitigation Fees

| Fee Per Acre | No Extension | 5-Year Extension | 10-Year Extension | 15-Year Extension |
|-------------------------|---------------|---------------------|----------------------|----------------------|
| Net Cost | \$912,756,583 | \$902,353,150 | \$892,767,438 | \$883,987,805 |
| Acres of Development | | | | |
| Residential | 14,026 | 21,818 | 29,611 | 37,403 |
| Nonresidential | 6,239 | 9,705 | 13,171 | 16,637 |
| Total | 20,265 | 31,523 | 42,782 | 54,040 |
| Mitigation Fee per Acre | \$45,041 | \$28,625 | \$20,868 | \$16,358 |

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

⁶ Consistent with the Original Nexus Study and the technical analysis in this study update (and as described in more detail in the Fee Implementation Handbook), certain types of public improvements/infrastructure projects will make mitigation payments calculated as a percent of total improvement cost. All projects are required to make a mitigation payment/contribution (except where exempted as specified in the Ordinance); where no mitigation payment process is specified, the project will pay the updated per acre mitigation fee.

⁷ This is the approach taken by the majority of regional Habitat Conservation Plans in California, including the Coachella Valley Multiple Species Habitat Conservation Plan mitigation fee.

As shown in **Table 2**, the required mitigation fee per gross acre of development varies substantially based on level of extension as follows:

- **No Extension**. Under the current structure, where all land acquisition must occur by the end of Year 25 of MSHCP implementation (2029), a mitigation fee of **\$45,041 per acre** of development would be required.
- **5-Year Extension**. With a 5-year extension, where all land acquisition must occur by the end of Year 30 of MSHCP implementation (2034), a mitigation fee of **\$28,625 per acre** of development would be required.
- **10-Year Extension**. With a 10-year extension, where all land acquisition must occur by the end of Year 35 of MSHCP implementation (2039), a mitigation fee of **\$20,868 per acre** of development would be required.
- **15-Year Extension**. With a 15-year extension, where all land acquisition must occur by the end of Year 40 of MSHCP implementation (2044), a mitigation fee of **\$16,358 per acre** of development would be required.

For residential development, the per gross acre fee is translated into per residential unit fees by density category to provide for a fee framework that is consistent with the current fee structure. The per residential unit fees are calculated by dividing the per gross acre fee by an assumed typical/ average density for each of the three density ranges (low, medium, and high). The full mitigation fee schedule (for each extension scenario) is shown in **Table 3**, including the per unit residential fees by density category and per gross acre fees for non-residential development. The typical/ average residential densities used to calculate the per-unit residential fees are the same as the density assumptions in the Original Nexus Study.

⁸ For example, the \$3,635 per unit Residential – Low fee under the 15-year extension is derived by dividing the overall per gross acre mitigation fee of \$16,358 (shown in Figure 2) by the assumed typical/average density of Residential Low of 4.5 units/acre.

⁹ The Fee Implementation Handbook provides more specifics on how to determine a project's residential density and therefore the appropriate per unit residential fee that applies.

Table 3 Updated Mitigation Fee Schedule by Extension Scenario

| Fee Per Unit | Current Fee | No | 5-Year | 10-Year | 15-Year |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-----------|-----------|-----------|
| | 2021 ¹ | Extension | Extension | Extension | Extension |
| Residential - Low (Up to 8.0 DUAC) ²³ Residential - Medium (8.0-14.0 DUAC) ²³ Residential - High (14.0+ DUAC) ²³ | \$2,234 | \$10,009 | \$6,361 | \$4,637 | \$3,635 |
| | \$1,430 | \$4,170 | \$2,650 | \$1,932 | \$1,515 |
| | \$1,161 | \$1,846 | \$1,173 | \$855 | \$670 |
| Commercial / Industrial (per acre) | \$7,606 | \$45,041 | \$28,625 | \$20,868 | \$16,358 |

^{1.} Western Riverside County Multiple Species Conservation. Local Development Mitigation Fee Schedule for FY 2020-21 (Effective July 1, 2020 – June 30, 2021), annually adjusted using the Consumer Price Index.

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

Key Drivers of Fee Change

The change in Local Development Mitigation Fee is the result of a number of different contributing factors ("moving parts"), fully documented and detailed in **Chapters 2** through **7**. This Nexus Study is based on the most current information available including, for some inputs, recent years of experience from MSHCP implementation. The factors that have had the most significant effect on the Local Development Mitigation Fee calculations are summarized below.

1. Lower-than-expected land dedications substantially increase the Local Permittee habitat acquisition cost component of MSHCP implementation. The MSHCP assumed that 41,000 of the 97,000 acres (42 percent) to be conserved by Local Permittee action/funding would be provided at no cost through land dedication associated with development inside the Criteria Cells. Through the first sixteen years of Plan implementation, less than 1,000 acres of the Local Permittee habitat conservation obligations have been generated through these dedications. An additional 10,000 acres of land dedication requirements have been required as part of proposed developments that have yet to occur. Beyond the dedication associated with previously proposed projects, additional land dedication is not expected. ¹⁰ As a result, the 2020 Nexus Study assumes the noted 10,000 acres of land dedication is formalized over the next eight years (an average annual land dedication of 1,250 acres per year) prior to the end of the current land acquisition period. No additional land dedication is assumed, even if the acquisition period is extended. As a result, at the end of the current habitat acquisition period (Year 25 of Plan

^{2.} Per acre mitigation fees translated into per unit fees based on the following residential densities: for low density, 4.5 units per acre; for medium density, 10.8 units per acre; for high density, 24.4 units per acre, consistent with the assumptions used in Appendix E of the original Nexus Study.

^{3.} DUAC stands for Dwelling Units per Acre.

¹⁰ In September 2016, the RCA revised its fee credit and waiver policy, limiting the likelihood of projects paying fees and dedicating land.

implementation), total land dedication is expected to represent about 11,000 acres and about 11 percent of the Local Permittee land conservation requirement. The RCA therefore needs to directly acquire an additional 30,000 acres of land relative to the expectations of the Original Nexus Study.

- 2. Lower than expected regional infrastructure public contributions have reduced the non-fee funding available, increasing the costs to be funded through the mitigation fee. The MSHCP assumed a substantial level of funding from regional infrastructure project public contributions, including transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects, as well as from landfill tipping fees. While the Measure A sales tax has provided substantial funding as expected, other revenue sources, on aggregate, have provided (and are expected to continue to provide) substantially less funding than forecast in the 2003 Nexus Study. As a result, mitigation fees will need to cover about 91 percent of Local Permittee MSHCP implementation costs relative to the original assumption of about 56 percent.
- 3. The change towards a consistent "per gross developed acre" fee basis provides a more consistent approach for all land use development types. The 2003 Nexus Study used an "Equivalent Benefit Unit" approach to distributing mitigation costs between different land use categories. This Nexus Study adjusts the fee calculation to the more commonly used per gross acre basis. Under this approach, the new Local Development Mitigation Fees are all based on one "across the board" per gross acre fee determination. Non-residential development then pays this per acre fee, while per unit residential fees by density category are derived from this common per gross acre fee. ¹¹ This change evens out some of the prior differences in mitigation fee levels.
- 4. The estimates of average per acre land values have not changed substantially, so they have had a limited effect on the change in mitigation fees. The original MSHCP implementation cost estimate was based on an average land value of about \$13,100 per acre. This was based on research on land transactions of parcels with different land use designations and sizes in 2001/2002. The land valuation analysis conducted for this Nexus Study estimated a planning-level land value of about \$14,300 per acre based on land transactions primarily in the 2014 to 2017 period (inflated to 2019-dollar terms). As a result, land value estimates have not changed substantially in nominal dollar terms since the Original Nexus Study. This estimated per acre land value is above the cost of most RCA transactions to date, though the average land values of future RCA land acquisition are expected to increase due to the increasing need to purchase more expensive land in "linkage" areas.

¹¹ Similar to the Original Nexus Study, all new development in Western Riverside County is required to pay the mitigation fee (or otherwise provide the necessary mitigation). The conversion from per gross acre to per unit fees for residential development is conducted to provide administrative continuity for member agencies.

Organization of Report

This Nexus Study includes several chapters. Chapter 1, this chapter, describes the purpose and need for this Nexus Study, the recommended changes in the Local Development Mitigation Fee, and the key drivers of these changes. Chapters 2 through 7 provide the technical analysis that supports the updated fees and nexus findings. Chapter 2 summarizes the purpose of and basis for the MSHCP, the conservation requirements of the MSHCP, and the financing strategy and approach developed to implement the MSHCP in 2004. Chapter 3 describes the conservation achievements to date, identifies the remaining conservation requirements, and identifies expected land dedication. Chapter 4 provides the development forecast used in the calculation of the updated mitigation fees. Chapter 5 provides the estimates of MSHCP implementation costs, including land acquisition, management and monitoring, program administration, and endowment. Chapter 6 describes the historical levels of non-fee revenues available to help fund Local Permittee MSHCP implementation costs. Chapter 7 brings together the technical analysis in Chapters 2 through 6 to estimate the updated 2020 Local Development Mitigation Fees. Chapter 8 provides the nexus findings required under the Mitigation Fee Act as require to establish the updated fees. Finally, Chapter 9 highlights some of the administration and implementation requirements under the Mitigation Fee Act, recognizing that the Fee Implementation Handbook provides more specific guidance to the RCA and its partner agencies on the implementation of the mitigation fee program.

MSHCP Purpose, Basis, and Goals

In response to the need to maintain future growth opportunities in Western Riverside County while addressing the requirements of the state and federal Endangered Species Acts, the County and the Riverside County Transportation Commission initiated the Riverside County Integrated Project (RCIP) in 1999. The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) is one part of the RCIP that includes:

- Updated County General Plan. Addresses the required general plan elements such as land use, circulation, housing and open space, and conservation and includes programs to implement the MSHCP, enhance transit alternatives, and encourage development of mixeduse centers.
- Community and Environment Transportation Acceptability Process. Identifies future transportation corridors in Western Riverside and provides needed environmental documentation to allow preservation of future right-of-ways.
- MSHCP. The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan) is a comprehensive, multi-jurisdictional Habitat Conservation Plan (HCP) focusing on the conservation of species and their associated habitats in Western Riverside County. The MSHCP conserves vulnerable plant and animal species and their associated habitats in Western Riverside County and supports economic development.

The MSHCP was adopted in 2003 by the Riverside County Board of Supervisors. Subsequently, all of the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Parks and Open-Space District, County Department of Waste Resources, Riverside County Transportation Commission, California Department of Transportation, California Department of Parks and Recreation, California Department of Fish and Game, the US Fish and Wildlife Service and the RCA signed an Implementing Agreement for the MSHCP. The Implementing Agreement includes terms to ensure MSHCP-implementation, defines remedies and recourses should any of the parties of the Agreement fail to perform obligations, and provides assurances that, as long as the MSHCP is being implemented, the Wildlife Agencies will not require additional mitigation from the Permittees. 12

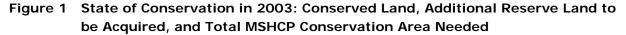
The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal Endangered Species Act of 1973 as well as a Natural Communities Conservation Plan under the NCCP Act of 2001. The MSHCP streamlines these environmental permitting processes by allowing the participating jurisdictions to authorize "take" of plant and wildlife species identified within the Plan Area. At the same time, Plan implementation provides a coordinated MSHCP Conservation Area and implementation program to preserve biological diversity and maintain the region's quality of life.

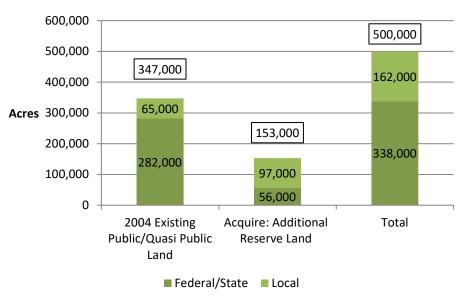
¹² The Wildlife Agencies include the US Fish and Wildlife Service and the California Department of Fish and Wildlife and the Permittees include all of the other parties to the Implementing Agreement.

The MSHCP and the associated Implementing Agreement and Incidental Take Permit collectively determine a set of conservation actions, and the associated responsible parties, that must be taken to meet the terms of the Incidental Take Permit and benefit from the regulatory streamlining and other benefits of the MSHCP. This includes the identification of the responsibilities of the Local Permittees.¹³

MSHCP Conservation Requirements

The goal of the MSHCP is to enhance and maintain biological diversity and ecosystems processes while allowing future economic growth. The MSHCP calls for an MSHCP Conservation Area of 500,000 acres and focuses on the conservation of 146 species.





As shown in **Figure 1**, when the MSHCP was adopted, existing public and quasi-public conservation lands covered 347,000 acres, leaving a need for 153,000 acres of land, called Additional Reserve Land (ARL), to meet the goals of the MSHCP (see **Figure 1**). The MSHCP specifies that responsibility for the conservation of the 153,000-acre Additional Reserve Lands is shared by the local development process (97,000 acres) and state and federal purchases (56,000).

¹³ Local Permittees include the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Park and Open Space District, County Department of Waste Resources, and Riverside County Transportation Commission.

Table 4 MSHCP Goals by Area Plan

| Area Plan | Total Area of Criteria Cells | Low End of Goal | High End of Goal | Midpoint |
|-------------------------------|---------------------------------|-----------------|---------------------|----------|
| Cities of Riverside and Norco | 1,756 | 90 | 240 | 165 |
| Eastvale | 665 | 145 | 290 | 220 |
| Elsinore | 28,946 | 11,700 | 18,515 | 15,110 |
| Harvest Valley / Winchester | 820 | 430 | 605 | 515 |
| Highgrove | 1,452 | 345 | 675 | 510 |
| Jurupa | 5,476 | 890 | 1,870 | 1,380 |
| Lake Mathews / Woodcrest | 11,673 | 3,215 | 5,470 | 4,340 |
| Lakeview / Nuevo | 14,682 | 6,650 | 10,235 | 8,445 |
| Mead Valley | 7,703 | 1,885 | 3,635 | 2,760 |
| Reche Canyon / Badlands | 26,000 | 10,520 | 15,610 | 13,065 |
| REMAP | 78,423 | 41,400 | 58,470 | 49,935 |
| San Jacinto Valley | 32,828 | 11,540 | 19,465 | 15,500 |
| Southwest Area | 66,076 | 22,500 | 36,360 | 29,430 |
| Sun City / Menifee Valley | 2,059 | 1,120 | 1,585 | 1,355 |
| Temescal Canyon | 10,007 | 3,485 | 5,800 | 4,645 |
| The Pass | 22,652 | 8,540 | 13,925 | 11,230 |
| Total | 311,218 | 124,455 | 192,750 | 158,605 |

The MSHCP includes methods to determine whether the goals of the Plan are being met. One of the methods is measuring the extent to which conservation acquisitions are moving toward acquisition goals by each Area Plan. ¹⁴ Area Plans are established in the County's General Plan and are used in the MSHCP as a common geographic unit in Western Riverside County. The MSHCP established low, high, and midpoint acquisition goals for each Area Plan based on biological needs. The midpoint acquisition goals for each Area Plan range from 165 to nearly 49,935 acres, as shown in **Table 4**. The midpoint goals sum to 158,605 which represents 5,605 acres more than are needed to fulfill the MSHCP goals. As a result, acquisitions in some Area Plans can fall below the mid-point targets while the total ARL can still achieve the 153,000-acre goal.

MSHCP Financing Strategy

One of the key requirements of the MSHCP, Implementing Agreement, and Incidental Take Permit (consistent with the requirements of the federal Endangered Species Act) is the provision of adequate funding by Local Permittees to the Implementing Entity (the Regional Conservation Authority) to conduct the conservation actions identified in the MSHCP as the responsibility of the Local Permittees.

¹⁴ Other geographic units include Rough Steps, city jurisdictions, and Area Plan subunits. For the purposes of this analysis, Area Plans have been selected as the primary unit of analysis because they are the middle-sized unit (smaller than Rough Steps and larger than Area Plan subunits) and have not changed over time (unlike jurisdictions, several of which have incorporated since the adoption of the MSHCP.

Section 8.0 of the MSHCP addresses "MSHCP Funding/Financing of Reserve Assembly and Management." This section provides best estimates of Plan implementation costs at the time of Plan adoption, including the local funding commitment – the portion of Plan implementation costs that represents the Local Permittees' portion of the overall land acquisition, management, monitoring, adaptive management, and Plan administration costs. Section 8.5 describes the Local Funding Program. The Local Funding Program included a mix of funding sources to provide "an equitable distribution of the cost for local mitigation under the MSHCP." The proposed funding sources included Local Development Mitigation Fees, density bonus fees, regional infrastructure project public contributions (including transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects), and landfill tipping fees. Key components of the overall MSHCP implementation and funding strategy are highlighted below:

- The Regional Conservation Authority would implement the MSHCP with funding from different sources.
- The permanent protection of 97,000 acres in Additional Reserve Lands by Year 25 of the Plan (2029) would be achieved through direct purchase of habitat lands by the RCA using local funding and through the HANS dedication process.¹⁵
- Local funding sources would fund the ongoing management and maintenance costs of the local portion of the Additional Reserve Lands acquired through local funding (97,000 acres by end of acquisition period).
- Local funding sources would fund monitoring activities on the pre-Plan local conservation and all the new Additional Reserve Lands (500,000 acers by end of acquisition period).
- The permanent protection of 56,000 acres in Additional Reserve Lands by Year 25 would be achieved using state/federal funding sources or contributions.
- State and federal funding sources would fund the management and maintenance costs of the State/federal portion of the required Additional Reserve Lands.
- Local Development Mitigation Fees (on private development) would fund the Local Permittee MSHCP implementation costs that were not funded by other local/regional funding sources or public contributions for public development project mitigation.
- The overall permit period was set at 75 years. Once habitat acquisition was completed by Year 25, remaining funds along with newly created revenue sources were to be used to fund

¹⁵ Section 6.1.1 of the MSHCP describes the HANS process. The Habitat Evaluation and Acquisition Negotiation Strategy (HANS) process applied to any property owner applying for a discretionary permit for land within a Criteria Area/Criteria Cell. Under the process, the County determined whether portions of the property are needed for conservation and then may send their evaluation to the RCA for Joint Project Review (JPR). During JPR, the project applicant negotiated the terms of the development and conservation of the project. The applicant also paid fees on the new development. This approach was refined when a new fee credit policy, adopted in 2016, provided for fee credits where appropriate lands are dedicated.

monitoring and management as well as to fund the establishment of an endowment to cover ongoing post-permit costs (beyond Year 75).

Importantly, the MSHCP funding chapter notes that frequent evaluations of the performance of the funding mechanisms and assessments of the funding plan will occur and that any necessary modifications to the funding mechanisms will be developed.

MSHCP Implementation Costs and Funding Sources

The original estimated costs and proposed funding sources were documented in the MSHCP and are summarized in **Table 5**. These were developed based on research and analysis conducted as part of MSHCP development.

As shown, Plan implementation costs over the first 25 years of implementation were estimated at about \$950 million in 2004-dollar terms. Key assumptions driving the implementation cost estimates included:

- **Dedications**. Direct acquisition using local funding sources would be required to acquire 56,000 acres, with 41,000 acres (or 42 percent) of the required local habitat protection coming through HANS dedication.
- Land Cost. Average land value of \$13,100 per acre for Additional Reserve Lands purchased by the RCA.
- Management and Monitoring: Management and monitoring costs included three key components as follows: Reserve Management, Adaptive Management, and Biological Monitoring.¹⁶
- Program Administration. RCA program administration costs would average about \$1.2 million each year in 2004 dollars during the 25-year period where land acquisition was required.
- **Cost Distribution**. Overall, land acquisition costs were estimated at 77 percent of total implementation costs, with management and monitoring at 20 percent, and program administration at 3 percent (see **Figure 2**).

¹⁶ See Chapter 5 of the MSHCP for a description of these activities.

Table 5 2004 Estimates: MSHCP Implementation Costs and Funding Sources

| tem | Total for 2004 - 2028 (Years 1 - 25) | Average Annual | % of Total Cost/ Funding Need |
|-------------------------------------|--------------------------------------------|-------------------|-------------------------------------|
| Local Permittee Land Requirements | | | |
| Preservation Requirement | 97,000 acres | 3,880 acres | na |
| HANS Dedication | 41,000 acres | 1,640 acres | na |
| Local Permittee Acquisition | 56,000 acres | 2,240 acres | na |
| Local Permittee MSHCP Implementa | ation Costs | | |
| Land (1) | \$733,600,000 | \$29,344,000 | 76.91% |
| Management & Monitoring | \$190,200,000 | \$7,608,000 | 19.94% |
| RCA Staff | \$30,000,000 | \$1,200,000 | 3.15% |
| Other Costs | na | na | na |
| Endowment | not included | not included | na |
| Total Costs | \$953,800,000 | \$38,152,000 | 100.0% |
| Local Revenues | | | |
| Private Development Mitigation Fees | \$539,600,000 | \$21,584,000 | 50.1% |
| Density Bonus Fees | \$66,000,000 | \$2,640,000 | 6.1% |
| Regional Transportation Infra. (2) | \$250,000,000 | \$10,000,000 | 23.2% |
| Local Roads (Measure A) | \$121,000,000 | \$4,840,000 (3) | 11.2% |
| Tipping Fees (4) | \$100,000,000 | \$4,000,000 | 9.3% |
| Miscellaneous Revenues (5) | <u>\$0</u> | <u>\$0</u> | 0.0% |
| Total Revenues | \$1,076,600,000 | \$43,064,000 | 100% |

⁽¹⁾ Average land value per acre assumed to be \$13,100 per acre.

Source: Chapter 8 of MSHCP; Economic & Planning Systems.

⁽²⁾ Public contributions at specificed % of new road construction.

^{(3) \$121} million to be provided over 10 years, so \$12.1 million annually over that period.

⁽⁴⁾ Includes \$90 million from El Sobrante Landfill and \$10 million from other County landfills.

⁽⁵⁾ Other potential revenues, including public contributions from other public projects, tipping fees from Eagle Mountain Landfill, and potential new voter-approved regional funding were noted but not estimated.

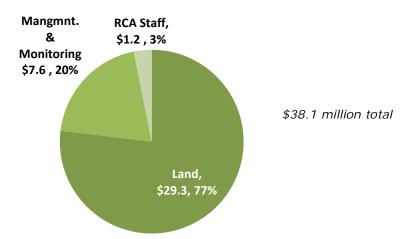


Figure 2 MSHCP Estimated Annual Costs in Millions, 2004 Dollars

As also shown in **Table 5**, MSHCP funding from local/regional sources was estimated to be about \$1.0 billion in 2004 dollars through Year 25, sufficient to cover the implementation costs over this period. Key assumptions driving the funding estimates included:

- Measure A. Measure A (local sales tax transportation funding measure) would provide \$121 million over 10 years in 2004-dollar terms.
- **Regional Transportation Funding**. Public contributions from regional transportation infrastructure projects would provide an average of \$10 million each year or \$250 million through Year 25.
- **Tipping Fees**. Landfill tipping fees would provide about \$100 million in revenue over 25 years, about \$4 million each year, primarily from the El Sobrante landfill.
- Mitigation Fees. Private development fees, including private development mitigation fees
 and density bonus fees, would generate over \$600 million over the first 25 years, about \$24
 million annually.
- Development Forecast and Participation. The forecast of private development fees was based on a preliminary fee schedule and the forecast of 336,000 new residential units (13,440 units each year) and 371 acres each year of commercial and industrial development. All new development was assumed to pay the private development mitigation fee with a portion paying the density bonus fee.
- Other Funding Options. Potential additional funding might come through contributions from other local/regional public entities, other landfills, or new voter-approved funding initiatives.
- **Funding Distribution**. Overall, about 55 percent of the estimated funding was expected to be generated by private development fees, with 45 percent from other funding sources.

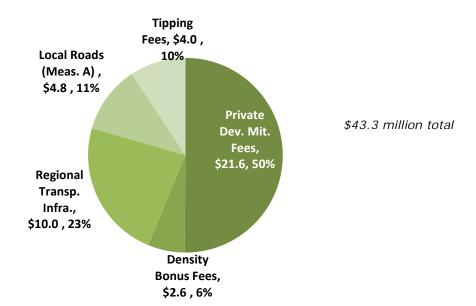


Figure 3 MSHCP Estimated Annual Revenues in Millions, 2004 Dollars

Development Mitigation Fees and Calculation

The MSHCP notes that "new development affects the environment directly through construction activity and cumulatively through population bases that result from Development." As a result, the cities and County are required to implement a Local Development Mitigation Fee that was expected to represent one of the primary sources of funding for the implementation of the MSHCP. The MSHCP indicates that the Local Development Mitigation Fee will be adopted under California Government Code Section 66000 et seq. (the "Mitigation Fee Act") that "allows cities and counties to charge new development for the costs of mitigating the impacts of new development."

The MSHCP identified preliminary estimates of Local Development Mitigation Fees and indicated that these mitigation fees were expected to generate the majority of funding for Local Permittee obligations. The MSHCP noted that, under the Mitigation Fee Act, "a nexus study is required to demonstrate that the proposed fee is proportionate to the impacts of new development." The Mitigation Fee Act also includes a number of reviewing and reporting requirements. The MSHCP also notes that the fee will need to be "reevaluated and revised should it be found to insufficiently cover mitigation of new development."

A nexus study entitled "Final Mitigation Fee Nexus Study Report for the Western Riverside County Multiple Species Habitat Conservation Plan" was completed on July 1, 2003 (2003/Original Nexus Study). This nexus study conducted a detailed analysis of the costs of implementing the Plan, identified the Local Permittee funding obligations, determined the portion to be funded through the Local Development Mitigation Fee, and made the necessary nexus findings under the Mitigation Fee Act. The MSHCP and 2003 Nexus Study both indicated that all new development in the Western Riverside County Plan Area affects covered species and habitat and so the Local Development Mitigation Fees would apply to all new development in participating jurisdictions in Western Riverside County.

Mitigation Fee Schedule and Adjustments

All local jurisdictions participating in the MSHCP and obtaining coverage for public and private take in their jurisdictions were required to adopt and implement this mitigation fee schedule through ordinance and resolution and then to pass through the fee funding (minus any additional administrative charges) to the RCA to fund MSHCP implementation. Indexed-increases based on the annual change in the Consumer Price Index for the Los Angeles-Anaheim-Riverside area were provided for in the ordinances to allow modest adjustments in mitigation fees to respond to inflationary cost increases. Due to the geographic revision implemented by the Bureau of Labor Statistics, going forward indexed-adjustments will be based on the annual change in the Consumer Price Index for the Riverside-San Bernardino-Ontario area.

Table 6 shows the original 2004 Local Development Mitigation Fee schedule and current 2021 Fee schedule that reflects periodic inflationary fee adjustments using the indexing process.

Table 6 2004 and 2021 MSHCP Fee Schedule

| Fee Category | 2004 Fee per unit or per acre | 2021 Fee per unit or per acre |
|-------------------------------------------------------|----------------------------------|-------------------------------|
| Residential: Up to 8.0 dwelling units per acre (DUAC) | \$1,651 | \$2,234 |
| Residential: 8.0-14.0 DUAC | \$1,057 | \$1,430 |
| Residential: 14.0+ DUAC | \$859 | \$1,161 |
| Commercial (per acre) | \$5,620 | \$7,606 |
| Industrial (per acre) | \$5,620 | \$7,606 |

3. Habitat Protection to Date and Future Conservation Scenario

The RCA has achieved substantial levels of habitat protection to date using the funding sources established and the associated variable flows of incoming revenues. The level of habitat protection achieved, because of lower levels of funding and land dedication than expected, has however fallen behind the pace of protection forecast in the Original Nexus Study. This chapter summarizes the achieved protection to (1) establish both the scale of future acquisitions required to meet the overall Additional Reserve Land (ARL) goals, (2) consider the annual pace of habitat protection through acquisitions and dedications in absolute terms and relative to the original MSHCP forecasts, and (3) inform the development of the Conservation Scenario that forms the baseline (project description) for estimating future MSHCP implementation costs and associated funding requirements and updated mitigation fees.

Habitat Protection Accomplishments Through 2019

Between the start of the MSHCP program and the end of 2019, the most recent full calendar year, about 40 percent of the 153,000-acre ARL target has been achieved, totaling almost 62,000 acres in acquisitions, easements, or dedications (see **Table 7**). ¹⁷ As shown of the 97,000 acres in Local Permittee ARL obligation about 40,200 acres had been protected by the end of 2019. Of the 56,000 acres in State/Federal ARL obligation, about 21,600 acres have been protected to date.

Table 7 Conservation Through End of 2019

| Party | Need | Conserved 2000-2003 | Conserved 2004 - 2019 | Total Conserved 2000 - 2019 | Remaining Need 2020-2043 |
|--------------|----------------|---------------------|--------------------------|-----------------------------------|-----------------------------|
| Local | 97,000 | 4,531 | 35,681 | 40,212 | 56,788 |
| State + Fed | 56,000 | 12,408 | 9,200 | 21,608 | 34,392 |
| Total | 153,000 | 16,939 | 44,881 | 61,820 | 91,180 |

Sources: Western Riverside County Regional Conservation Authority MSHCP Annual Reports; RCA information on 2019 purchases; Economic & Planning Systems, Inc.

Conservation Goals and Progress

The MSHCP anticipated that acquisition would take place for 25 years, through the end of 2029, with 97,000 acres conserved through local means and 56,000 acres conserved with State/federal funding. To achieve this goal, an average of 6,120 acres of conservation is required each year,

¹⁷ Note that while the MSHCP was adopted in 2004, certain conservation which took place between 2000 and 2003 was counted toward the MSHCP reserve.

including an average of 3,880 annually from local funding sources/dedications and 2,240 annually from State and federal conservation.

Figure 4 illustrates how steady progress would result in achievement of the ARL goals by 2029. **Figure 5** shows actual progress toward the goals, through 2019. More than 21,000 acres have been conserved through State/federal means, and over 40,000 acres have been conserved through local actions. These totals sum to about 40 percent of the total ARL goal of 153,000 acres. As shown in **Figure 5**, with 16 years of the 25-year acquisition period completed, the ARL acquisitions have fallen behind the pace forecast in the Original Nexus Study. Protection through the end of 2019 represents 63 percent of the original forecast (65 percent for Local obligations and 60 percent for State/federal obligations). For the Local Permittee obligations, as discussed further below, the lower level of land dedication relative to the original forecasts account for much of the habitat protection gap that has emerged over the last 16 years.

Figure 4 MSHCP Conservation Goals, 2019 and 2029 Goals Highlighted

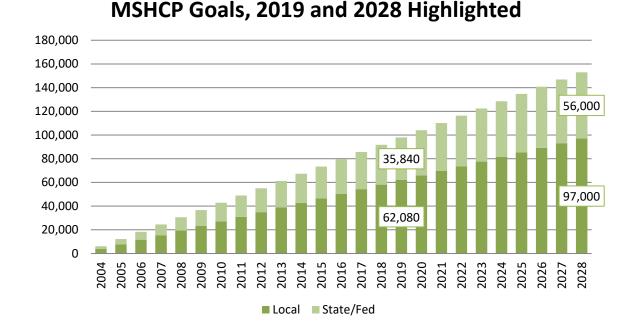




Figure 5 Progress Towards ARL Through End of 2019

Sources: Western Riverside County Regional Conservation Authority; Economic & Planning Systems, Inc.

Land Dedications

The MSHCP envisioned a conservation program where land and easements would be purchased by the RCA and land would be dedicated to the RCA through the development process. ¹⁸ In addition, the potential for no-cost and low-cost donations for tax benefit purposes was also created. The MSHCP did not assume donations or conservation easement acquisitions as part of its financial analysis (this is appropriate given the limited number of such transactions). The MSHCP did, however, anticipate that 41,000 acres would be conserved through dedications, 56,000 acres through purchases on behalf of local permittees, and 56,000 acres through purchases conducted by or funded by federal and State agencies/sources for a total of 153,000 acres.

For the local portion of the goal (97,000 acres), this translates into about 42 percent of the goal conserved via dedications associated with the development review process—called Habitat Evaluation and Acquisition Negotiation Strategy (HANS)—and the other 58 percent purchased by the RCA from willing sellers. The level of dedication is a key assumption for the MSHCP implementation cost estimate as each acre dedicated through HANS is one fewer acre which must be conserved through land acquisitions at market values.

The HANS process was established to apply to developments proposed within the Criteria Cells of the MSHCP Study Area. The Criteria Cells represent areas with high conservation values relative to the areas outside of the Criteria Cells. The HANS process was designed to indicate what conservation (dedication) may be needed from new development from a biological needs

¹⁸ This process is known as the Habitat Evaluation and Acquisition Negotiation Strategy (HANS).

perspective. Subsequent to that technical analysis, applicants could then proceed to the Joint Project Review (JPR) process during which the parties negotiate an implementation plan for the project, consistent with the HANS findings. The applicants would also pay mitigation fees on the actual development. To date, a modest amount of land (less than 1,000 acres) has been conserved via the HANS/JPR method compared to the 26,000 acres that was forecast to have occurred by this point in the MSHCP implementation.

While very little land has been dedicated to the RCA through HANS/JPR, several projects went through the HANS/JPR process and have agreements in place for dedication/conservation of lands, but the start date (if any) for these projects is unknown (i.e., may be far in the future). These projects cover about 35,000 acres in the Criteria Cells and, under the JPR agreements, have set aside about 30 percent of that total or about 10,000 acres for conservation/dedication.

The adoption of Resolution No. 2016-003 in September 2016 revised the RCA's fee credit and waiver policy. This resolution indicated that MSHCP fee credit should be provided in exchange for land that contributes to reserve assembly. As a result, after the adoption of this resolution, new development is not be expected to pay mitigation fees and dedicate land in the manner originally envisioned in the MSHCP limiting the likelihood of the types of dedications envisioned in the Original Nexus Study.

Future Conservation Scenario

This updated financial analysis, nexus study, and mitigation fees estimate require a base description of the additional habitat protection required. In subsequent chapters, cost estimates are developed in reference to, and in application to, this conservation scenario to develop the overall implementation costs and the associated funding required, both in aggregate and through time during the land acquisition period of the program. Four questions are of particular importance:

- 1. **Remaining Habitat Protection.** The amount of habitat protection required to meet the MSHCP requirements.
- Dedications. The amount of land dedication assumed to occur through the HANS/JPR process over the habitat protection period and the associated amount of habitat that must be acquired.
- 3. **Time Frame.** The period over which habitat protection goals must be met.
- 4. **Land Characteristics.** The characteristics of the land to be protected to meet MSHCP requirements (e.g., goals by Area Plan, habitat cores and linkages etc., land use designations and parcel sizes).

The answers to question 1 are provided in the data above (see **Table 7**). The answer to question 4 is provided in the subsequent chapter on land costs, with illustrative answers coming from RCA data and GIS analysis. The answer to question 2 is addressed below and is based on information on accomplishments to date (described above), discussions with RCA staff, the current Fee Waiver and Credit Policy, and an assessment of realistic opportunities and expectations. Finally, question 3 raises the issue of whether an extension to the MSHCP land acquisition implementation period should be provided. As described below, three different

extension scenarios (5-, 10-, and 15-year extension scenarios) are evaluated, as well as the baseline, "No Extension Scenario," to indicate the outcomes under different scenarios.

Habitat Protection, Land Dedication, and Conservation Scenarios

As shown in **Table 8**, there is a total of about <u>91,200 acres</u> of land protection still required to complete the land protection obligations under the MSHCP and to bring the Additional Reserve Lands to 153,000 acres. Of this, the State/federal requirements is for about <u>34,400 acres</u>, while the Local Permittee requirement is for about <u>56,800 acres</u>.

The experience of the last 16 years indicates that the MSHCP was overly optimistic in terms of land dedications, assuming that 41,000 acres would be dedicated to the RCA. As noted above, about 10,000 acres of potential future land dedication is associated with a range of previously proposed projects. Based on historical information on actual, dedications agreements on proposed projects, current RCA policy, and consultations with RCA staff, minimal additional dedication is expected or assumed. This analysis, therefore, assumes that the prior agreement concerning dedications, summing to about 10,000 acres, will be secured over the next eight years and prior to the end of the current habitat protection period. Even if the implementation period were extended, no extra land dedication is forecast to occur.

As a result, and as shown in **Table 8**, a total of about <u>46,800 acres</u> of Additional Reserve Land acquisition is required by Local Permittees for MSHCP implementation once the forecast of dedications is incorporated. As shown in **Table 8**, the required average annual pace of habitat protection varies considerably under the different acquisition period extension scenarios, as described below: ¹⁹

- Baseline/No Extension Scenario. As currently structured, RCA is required to complete land acquisition by the end of Year 25 of Plan implementation in 2029. This provides nine (9) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 5,200 acres each year.
- **5-Year Extension.** With a 5-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 30 of Plan implementation in 2034. This provides fourteen (14) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 3,300 acres each year.
- 10-Year Extension. With a 10-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 35 of Plan implementation in 2039. This provides nineteen (19) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 2,500 acres each year.

¹⁹ As a point of reference, the historical pace of Local Permittee-driven habitat protection has been somewhat above 2,000 acres each year with availability of funding being an important determinant of the pace of acquisition. The pace of State/federal-driven acquisition has averaged about 1,000 acres each year.

• **15-Year Extension.** With a 15-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 40 of Plan implementation in 2044. This provides twenty-four (24) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 2,000 acres each year.

Table 8 Required Acquisition Acres to Achieve ARL Goals

| | | 2020-End of Acquisition | Years | Annual Conservation | |
|----------------------------------|--------------|-------------------------|-----------|------------------------|--------------------|
| Entity/Item | Through 2019 | Period | Remaining | Acres Required | Total Acres |
| | | | | | |
| | | EXTENSION | _ | | |
| State/Federal | 21,608 | 34,392 | 9 | 3,821 | 56,000 |
| Local | | | | | |
| HANS Dedication (1) | 715 | 10,000 | 9 | 1,111 | 10,715 |
| Net Local Acquisition | 39,497 | 46,788 | 9 | 5,199 | 86,285 |
| Total Local Conservation | 40,212 | 56,788 | 9 | 6,310 | 97,000 |
| State/Federal + Local = ARL Goal | 61,820 | 91,180 | 9 | 10,131 | 153,000 |
| | 5 VEA | R EXTENSION | | | |
| State/Federal | JIEA | R EXTENSION | 14 | 2,457 | 56,000 |
| otate/i ederai | | | 1-7 | 2,407 | 30,000 |
| Local | | | | | |
| HANS Dedication | See a | bove | 14 | 714 | 10,715 |
| Net Local Acquisition | | | 14 | 3,342 | 86,285 |
| Total Local Conservation | | | 14 | 4,056 | 97,000 |
| State/Federal + Local = ARL Goal | | | 14 | 6,513 | 153,000 |
| | | | | 2,010 | 100,000 |
| | 10 YE | AR EXTENSION | | | |
| State/Federal | | | 19 | 1,810 | 56,000 |
| Local | | | | | |
| HANS Dedication | See a | bove | 19 | 526 | 10,715 |
| Net Local Acquisition | | | 19 | 2,463 | 86,285 |
| Total Local Conservation | | | 19 | 2,989 | 97,000 |
| State/Federal + Local = ARL Goal | | | 19 | 4,799 | 153,000 |
| | 15 YE | AR EXTENSION | | | |
| State/Federal | | | 24 | 1,433 | 56,000 |
| | | | | | |
| Local HANS Dedication | C = | | 0.4 | 447 | 10,715 |
| Net Local Acquisition | See a | oove | 24 24 | 417 1,950 | 86,285 |
| Total Local Conservation | | | 24 | 2,366 | 97,000 |
| State/Federal + Local = ARL Goal | | | 24 | 3,799 | 153,000 |
| | | | | , | , |
| | 20 YE | AR EXTENSION | | | |
| State/Federal | | | 29 | 1,186 | 56,000 |
| Local | | | | | |
| HANS Dedication | See a | bove | 29 | 345 | 10,715 |
| Net Local Acquisition | | | 29 | 1,613 | 86,285 |
| Total Local Conservation | | | 29 | 1,958 | 97,000 |
| State/Federal + Local = ARL Goal | | | 29 | 3,144 | 153,000 |

^{1.} About 10,000 acres of potential future land dedication is associated with a range of previously proposed projects. Based on historical information on actual, dedications agreements on proposed projects, current RCA policy, and consultations with RCA staff, minimal additional dedication is expected or assumed beyond these agreements. This analysis, therefore, assumes that the prior agreements concerning dedications will occur with future dedications summing to about 10,000 acres. The precise timing of these dedications is uncertain, but are assumed to occur over the next eight years. Average annual numbers in this table are shown distributed across the full remaining acquisition period of each extension scenario.

Shading indicates acreage to be acquired with fee revenue.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

4. FORECASTS OF DEVELOPMENT, DEDICATION, FEE PAYMENT

Future development within Western Riverside County will both reduce land available for conservation while also serving as a primary funding mechanism for habitat acquisitions. This chapter identifies forecasts of future growth in Western Riverside County and develops an associated forecast of land development that is a key component of the fee calculation.

Historic Development and HCP Fees

The MSHCP anticipated that 13,000 to 14,000 residential units and about 370 commercial and industrial acres would be developed on average annually. Specifically, between 2005 and 2019, 206,000 residential units were expected in the Plan Area. A review of new units in the Plan Area indicates about 130,000 units were developed over the period (see **Figure 6**), about 37 percent below the forecast. ²⁰ While the substantial volatility in the real estate market over the period (including the housing boom, deep recession, and modest recovery) may explain some of this difference, the slower pace of development means that fee revenues have been similarly constrained relative to the original revenue projections.

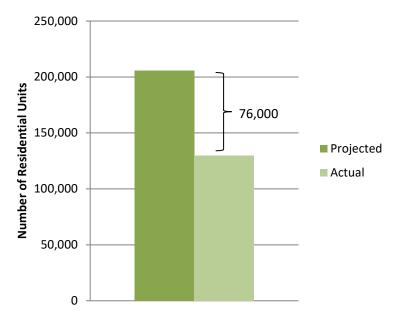


Figure 6 Residential Unit Development, Western Riverside County, 2005-2019

Source: California Department of Finance; MSHCP Projections

²⁰ Actual units developed have been derived from the California Department of Finance (DOF), Demographics Unit information through January 1, 2019. Note that the DOF reports data by city and for the entire Riverside County unincorporated area. Western Riverside's portion of the total unincorporated area has been derived based on the area's historic share of unincorporated County, taking into account the incorporations of new cities that occurred in Western Riverside County since MSHCP Plan adoption (Eastvale, Jurupa Valley, Menifee, and Wildomar).

Growth Projections

SCAG Forecasts in Context

The Southern California Association of Governments (SCAG) is a Metropolitan Planning Organization (MPO)²¹ representing six counties, 191 cities and more than 18 million residents. MPOs, such as SCAG are charged under California Senate Bill 375 with developing Sustainable Community Strategies (SCSs) as part of regional transportation plans. SCAG's SCS includes population, household, and job projections through 2040 by city and unincorporated area. SCAG consults with local governments within the region, including the Western Riverside Council of Governments (WRCOG) which represents Western Riverside County, to develop the projections. SCAG adopted the 2012-2040 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS) in 2016. The 2016 RTP/SCS forms the basis of the SCAG projections; EPS extrapolated an annual growth rate from the SCAG projections and, assuming consistent development trends through 2050, applied the rate in order to estimate development projections through 2050.

SCAG forecasts for the future, on an annualized basis, were compared with the MSHCP's original forecast along with historical information (when available) as described further below:

- Residential Development Forecast. Figure 7 shows, for Western Riverside County, the annual residential unit count for SCAG projections through 2050, MSHCP projections through 2029, and residential units produced in Western Riverside County between 2005 and 2019. As shown, the SCAG projections suggest about 8,750 units each. This is similar to the average annual historic pace of growth between 2005 and 2019 of about 9,260 units, but well below the original MSHCP projections of about 13,400 units each year. Based on the similarity between the historical average and the SCAG forecast, the SCAG forecast is considered a reasonable basis for determining the future pace of residential development and associated residential land development (based on assumed densities of development).
- Commercial Development Forecast. The SCAG jobs forecast of about 15,000 jobs each year was converted into an annual gross amount of commercial/industrial development using the employment density and FAR assumptions used in the most recent Transportation Uniform Mitigation Fee (TUMF) update documents. As shown in Figure 8, this results in a forecast of about 690 acres of commercial/industrial land development each year (representing an overall average of about 21 jobs per acre of development), considerably above the original MSHCP projections of about 370 acres each year. The higher SCAG number, however, appears reasonable given recent and ongoing trends in Western Riverside County where substantial amounts of new logistics/distribution development have occurred covering substantial land areas and, as such, is considered reasonable as the basis of the future forecast of commercial/industrial land development.

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²¹ Federal law requires that an urbanized area with a population of at least 50,000 be guided by a regional entity known as an MPO. California's Senate Bill 375 expands the role of the State's 18 MPOs to include regional plans that help the State reach its greenhouse gas reduction targets by encouraging compact development and new development near public transit.

Figure 7 New Housing Units per Year, SCAG and MSHCP Projections and Historic Production (2005-2019)

SCAG (2012-2040) and MSHCP Projections (2004-2029) and Historic Production (2005-2019)

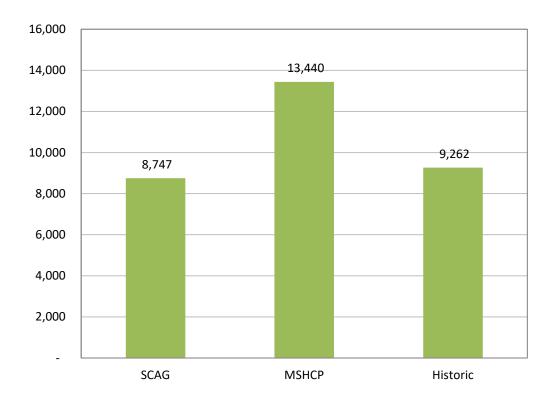
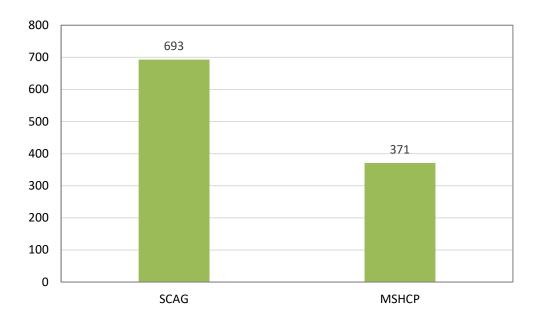


Figure 8 Newly Developed Commercial Acres per Year

SCAG (2012-2040) and MSHCP Projections



Note: SCAG job projections converted into acres by EPS

Forecasts for Fee Calculation

For this fee program update, the SCAG projections are considered a reasonable basis for forecasting future land development. Because all new development is expected to pay the mitigation fee, all of the forecasted household and job growth is converted into a land development forecast that is, in turn, used to calculate the mitigation fees. **Table 9** shows SCAG's overall projections for households and employment in Western Riverside County between 2012 and 2050, and **Table 10** shows the implied average annual land development rates, and, in turn, the overall level of residential and commercial/industrial land development that would be expected to occur through the end of the land acquisition period for each of the extension scenarios. As shown, all scenarios assume an overall average annual land development of 2,252 acres each year, including 693 acres in commercial/industrial land development and 1,558 acres in annual residential land development. ²³

- Baseline/No Extension Scenario. Under the no extension scenario, a total of 20,265 acres of land development is expected to occur during the remaining Plan implementation period of nine (9) years and would pay the mitigation fees.
- **5-Year Extension**. Under the 5-year extension to the acquisition period, a total of <u>31,523</u> <u>acres</u> of land development is expected to occur during the remaining Plan implementation period of 14 years and would pay the mitigation fees.
- **10-Year Extension**. Under the 10-year extension to the acquisition period, a total of <u>42,782 acres</u> of land development is expected to occur during the remaining Plan implementation period of 19 years and would pay the mitigation fees.
- **15-Year Extension**. Under the 15-year extension to the acquisition period, a total of <u>54,040 acres</u> of land development is expected to occur during the remaining Plan implementation period of 24 years and would pay the mitigation fees.

²² Under the MSHCP, all new development is required to pay the mitigation fee and contribute to funding the implementation of the MSHCP except where specifically exempted in the Ordinance.

²³ The 1,558 acres of residential land development was derived based on the forecasted 8,747 residential units each year and assumptions concerning distribution by density category and an average density level. More specifically, consistent with the recent TUMF analysis assumptions, 70 percent of new residential units are assumed to be in the low density category (less than 8 units per acre) with an average of 4.5 units/acre, 20 percent are assumed to be the medium density category (8 to 16 units per acre) with an average of 10.8 units/acre, and 10 percent are assumed to be the high density category (over 16 units per acre) with an average of 24.4 units/acre. The unit per acre factors are consistent with those indicated in the Original Nexus Study. The overall implied average residential density is 5.6 units/gross acre.

Table 9 Projected Growth in Western Riverside County, through 2050

| SCAG | Western Riverside MSHCP Plan Are | | |
|--------------------------------------|----------------------------------|------------|--|
| | Households | Employment | |
| | | | |
| 2012 | 530,970 | 463,833 | |
| 2040 Projection | 775,882 | 869,792 | |
| 2050 Projection (1) | 863,350 | 1,014,777 | |
| New Households/Jobs Expected by 2050 | 332,380 | 550,944 | |
| Average Annual | 8,747 | 14,499 | |
| | | | |

⁽¹⁾ SCAG projections forecast growth through 2040. EPS assumes the annual growth rate from 2012 to 2040 remains constant through 2050 and applies the rate to an additional 10 years in order to project growth through 2050.

Sources: Southern California Association of Governments; Economic & Planning Systems, Inc.

Table 10 Projected Developed Acres in Western Riverside County, by Extension Scenario

| | | Western R | iverside MSI | HCP Plar | n Area | |
|--------------------------------------------|----------|------------|--------------|----------|--------|-------|
| SCAG - | Resi | dential | Non Reside | ential | Tot | tal |
| | No Ex | tension | | | | |
| Proportionate Share 2020-2028 ¹ | 78,722 | Households | 130,487 | Jobs | | |
| New Development to Acres ² | | | | | | |
| Acres of New Development Through 2028 | 14,026 | Acres | 6,239 | Acres | 20,265 | Acres |
| Acres per Year | 1,558 | Acres | 693 | Acres | 2,252 | Acres |
| | 5 Year I | Extension | | | | |
| Proportionate Share 2020-2034 ¹ | 122,456 | Households | 202,979 | Jobs | | |
| | | | | | | |
| New Development to Acres ² | | | | | | _ |
| Acres of New Development Through 2034 | 21,818 | | • | Acres | 31,523 | |
| Acres per Year | 1,558 | Acres | 693 | Acres | 2,252 | Acres |
| | 10 Year | Extension | | | | |
| Proportionate Share 2020-2038 ¹ | 166,190 | Households | 275,472 | Jobs | | |
| New Development to Acres ² | | | | | | |
| Acres of New Development Through 2038 | 29,611 | Acres | 13,171 | Acres | 42,782 | Acres |
| Acres per Year | • | Acres | , | Acres | , | Acres |
| | | | | | | |
| ļ. | 15 Year | Extension | | | | |
| Proportionate Share 2020-2043 ¹ | 209,924 | Households | 347,965 | Jobs | | |
| New Development to Acres ² | | | | | | |
| Acres of New Development Through 2043 | 37,403 | Acres | 16,637 | Acres | 54,040 | Acres |
| Acres per Year | 1,558 | Acres | 693 | Acres | 2,252 | Acres |
| | | | | | | |

⁽¹⁾ SCAG forecasts from the 2016 Report have been used for all cities in Western Riverside County. The projections for the entire unincorporated area in Riverside have been split into just the Western part of the County through a review of WRCOG's recent proportion of unincorporated growth, compared to the whole County.

Sources: California Department of Finance; US Census Bureau; Southern California Association of Governments; Economic & Planning Systems, Inc.

⁽²⁾ Conversion from household projections to residential acres of developed land is based on expected development mix and average residential density by land use type, with an average residential density of 5.6 DUAC. Similarly, conversion from job projections to nonresidential acres of developed land is based on distribution of jobs by workspace type and average employment density by land use type, with an average nonresidential density of 21 jobs per land acre. Residential density assumptions are based on data from the Census and California Department of Finance; Employment density assumptions are based on SCAG data.

5. MSHCP IMPLEMENTATION COSTS

This chapter describes the analysis and assumptions that underpin the estimation of the total remaining MSHCP implementation costs in 2019 dollars. Key cost factors evaluated include land costs, management and monitoring costs, administration and professional services costs, and endowment costs. Together these cost components form the total MSHCP implementation costs. Because the duration allowed for land acquisition and endowment establishment affect several of these cost items, distinct total implementation cost estimates are provided for all scenarios (i.e., Baseline/ No Extension and the three extension scenarios).

Land Costs

Planning-level estimates of the per acre values associated with potential Additional Reserve Land (ARL) acquisitions are a critical input into the estimation of total land acquisition costs associated with Plan implementation. Land acquisition costs represented the majority of the original estimates of MSHCP implementation costs. This chapter provides planning-level estimates of per acre land conservation costs in 2019-dollar terms based on available information. In combination with assumptions concerning the characteristics of the Additional Reserve Lands to be acquired and potential levels of dedication, the per acre land value estimates drive the estimate of overall land acquisition costs.

Actual per acre habitat conservation costs may vary from the average planning-level estimates presented in this chapter for a number of reasons, including differences in the specific characteristics of the actual parcels acquired as well as fluctuations in economic, real estate, and land market conditions over time. Individual transactions will require appraisals to establish their value at the time of acquisition based on parcel characteristics and pertinent market conditions at the time of appraisal. Over time, per acre and overall cost estimates typically change for a number of reasons as discussed further in **Chapter 9**.

MSHCP/Original Nexus Study

The initial adoption of the mitigation fees was based on a nexus study completed in July 2003 that included a land valuation analysis that was completed in December 2002. The land valuation analysis assumed the acquisition of vacant and unentitled lands in the Criteria Cells. The land value analysis provided planning-level estimates of per acre land values by grouped land use designation and by Area Plan. Planning-level land value estimates were based on sales comparables. The land value estimates indicated per acre land values that were primarily driven by differentiation in land use category. The land use designation categories represent groupings of the broad number of land use designations present in the Study Area. **Table 11** summarizes the per-acre land value ranges and resulting averages. Based on this analysis, an overall weighted average of \$13,100 per acre was applied in the MSHCP financial sections in the Original Nexus Study.

Table 11 Per-Acre Land Value Estimates—2003 Dollars (2003 Nexus Study)

| Land Use Designation | Value Range | Resulting Average * |
|-----------------------|-------------------------------|---------------------|
| Open Space | \$2,500 to \$10,000 per acre | \$ 8,000 per acre |
| Rural/Agricultural | \$5,000 to \$25,000 per acre | \$11,000 per acre |
| Community Development | \$20,000 to \$80,000 per acre | \$45,000 per acre |
| Overall (1) | \$2,500 to \$80,000 per acre | Varied (1) |

^{*} Per acre values rounded to the nearest 1,000.

Source: Original 2003 Nexus Study

RCA Experience to Date

Table 12 summarizes average RCA land acquisition costs to date. Including land purchased shortly before the MSHCP was adopted through the end of 2018, costs for Local Permittee land acquisitions summed to \$352.5 million in nominal dollar terms, an average of \$9,400 per acre. However, for the year 2018, about 2,100 acres were acquired at the higher average per acre cost of \$13,200 per acre.

Table 12 Local Conservation Costs Through 2018

| Item | Pre-MSHCP through 2018 | 2018 |
|-----------------------------|---------------------------|----------|
| Total Acres Acquired (1) | 37,547 | 2,066 |
| Total Cost (millions) | \$352.5 | \$27.4 |
| Cost per Acre (Nominal \$s) | \$9,400 | \$13,200 |

⁽¹⁾ Includes all acres purchased; does not include acres conserved via easement.

Sources: Western Riverside County Regional Conservation Authority MSHCP Annual Report 2018; Economic & Planning Systems, Inc.

To date, the overall historical level of per acre land acquisition expenditures is well below the original 2004 per acre land value estimates. The cost of RCA acquisitions during this timeframe were kept relatively low by concentrating more on lower cost parcels (larger parcels in remote areas with limited development potential). In 2018, as in the future, the average cost per acre is expected to be higher than this historical average due to the characteristics of land still needing to be acquired.

New Land Value Analysis and Conclusions

New 2019 per acre land value estimates were developed based on recent historical transactions as reported in the sales comparables sections of appraisals conducted for RCA acquisitions. This data set provided a substantial inventory of over 150 land sales between 2012 and 2017 that supported conclusions concerning per acre land values by key land value characteristic.

⁽¹⁾ Reported overall average land value per acre depends on mix of land types. Number varies by documents, though \$13,100 per acre was overall value applied in the MSHCP financing sections.

Similar to the Original Nexus Study, land values were determined to be substantially affected by land use designation and by parcel size. Land values were developed for twelve different value categories based on combinations of three land use designations and four different size ranges.

Based on the land valuation data and detailed GIS analysis by RCA staff, parcels were divided into three groups of development potential based on their land use designation: ²⁴

- **Open Space.** Low development potential land use designations included open space, rural mountainous, and rural residential.
- **Rural**. Medium development potential land use designations include agriculture and rural communities land use designations.
- **Community Development**. High development potential land use designations include all community development designations, including residential, non-residential, and other community development designations.

In addition to these three land use designation groupings reflecting different levels of development potential, parcels were also divided by parcel size. The land value information indicated a per acre value distinction between the following parcels sizes:

- Parcels less than 5 acres.
- Parcels between 5 and 20 acres.
- Parcels between 20 and 80 acers.
- Parcels over 80 acres.

Based on the analysis of the sales comparables, **Table 13** shows the planning level per acre land value by land use designation grouping/size range in 2017 dollars.

Table 13 Planning Level Per Acre Land Value Estimates by Category

| | Per Acre Land Value (\$ / Acre) ¹ | | | |
|-----------------------|----------------------------------------------|-----------------|------------------|------------|
| Land Use Designation | Less than 5 Acres | 5 - 19.99 Acres | 20 - 79.99 Acres | 80 + Acres |
| Open Space | \$11,761 | \$5,091 | \$3,949 | \$1,866 |
| Rural | \$33,363 | \$11,553 | \$8,337 | \$5,531 |
| Community Development | \$177,414 | \$76,050 | \$72,369 | \$24,335 |

^{1.} Most land sale comparables used for pricing are from 2013 to 2017 and were converted to 2017 dollars using BLS CPI adjustments for the Los Angeles-Riverside-Orange County area.

Sources: Economic & Planning Systems, Inc.

²⁴ RCA staff developed a consistent set of land use designation categories across different jurisdictions in the Study Area for the purposes of this study. These formed the basis of the development potential categories.

The average land value per acre for future RCA acquisitions is dependent on the different land values per acre as well as the expected distribution of future acquisitions. The actual land to be acquired is uncertain and is dependent on the availability of land through willing sellers. However, based on the conservation needs by Area Plan, the suitable land available for protection, as well as the specific linkages that must be created between the core reserve areas, RCA staff provided sufficient information for EPS to develop a general expression of parcels by characteristic to support the land value analysis. An illustration of the expected distribution of acres by land use designation and size range is provided in **Table 14**.

Table 14 Illustrative Distribution of Land Acquisitions by Land Use and Size

| | Conservation Scenario (Acres) (1) | | | | |
|----------------------------|-----------------------------------|-----------------|------------------|------------|--------|
| Land Use Designation | Less than 5 Acres | 5 - 19.99 Acres | 20 - 79.99 Acres | 80 + Acres | Total |
| Open Space | 535 | 1,531 | 3,626 | 4,654 | 10,346 |
| Rural | 1,901 | 17,241 | 26,802 | 29,428 | 75,371 |
| Community Development | <u>638</u> | <u>1,707</u> | <u>3,613</u> | 4,384 | 10,342 |
| Total Purchases by Acreage | 3,074 | 20,479 | 34,041 | 38,466 | 96,059 |

^{1.} Conservation scenario analysis was conducted in 2017 so overall acres acquired more than those required as of end of 2019.

Sources: RCA; Economic & Planning Systems, Inc.

Applying the per acre land values in **Table 13** to the illustrative land conservation distribution in **Table 14** provides an estimate of the aggregate land value, supporting the estimate of the average planning level land value per acre in 2017-dollar terms (see **Table 15**).

Table 15 Aggregate Land Value of Remaining Areas (2017 dollars)

| | | Land Comparables by Acres | | | |
|-------------------------|----------------------|---------------------------|----------------------|----------------------|----------------------|
| Land Use Designation | Less than 5 Acres | 5 - 19.99 Acres | 20 - 79.99 Acres | 80 + Acres | Total |
| Open Space | \$6,292,633 | \$7,795,633 | \$14,319,467 | \$8,682,942 | \$37,090,674 |
| Rural | \$63,411,345 | \$199,183,566 | \$223,437,526 | \$162,777,034 | \$648,809,470 |
| Community Development | <u>\$113,198,910</u> | <u>\$129,817,405</u> | <u>\$261,456,200</u> | <u>\$106,682,740</u> | <u>\$611,155,254</u> |
| Total Cost of Purchases | \$182,902,887 | \$336,796,603 | \$499,213,192 | \$278,142,716 | \$1,297,055,399 |
| % of Total | 14% | 26% | 38% | 21% | 100% |
| | | | | | |

^{1.} This table is the average land value per acre multiplied by the Conservation Scenario. See Table E-1 and E-2.

Sources: RCA; Economic & Planning Systems, Inc.

As shown in **Table 15**, the aggregate land value of the approximately 96,000 acres remaining to be protected as part of the MSHCP as of 2017 is estimated at about \$1.3 billion in 2017 dollars. This represents an average land value of about \$13,500 per acre. To convert this land value into 2019 dollars terms (similar to the rest of the analysis), EPS indexed the value to about \$14,300 per acre in 2019-dollar terms.²⁵

Other Costs—Administration, Management, and Monitoring

Program administration, reserve management, and reserve monitoring are required functions that require annual funding. The forecasts for each of these cost categories are described below.

Administration and Professional Service Costs

The Western Riverside County Regional Conservation Authority is responsible for implementing the MSHCP. Since 2004, RCA staff members have directed the acquisition, management, and monitoring of the local portion of the Additional Reserve Land (ARL) required by the MSHCP, monitored State and federal Public/Quasi-Public lands and the State and federal portions of the ARL, and undertook all of the administrative tasks associated with maintaining the permit.

Costs categorized in this fee study under MSHCP administration include all RCA staff costs and other costs like building rents and average expenditures on non-acquisition related professional services that are not anticipated to vary as the size of the ARL increases. The forecast for the acquisition period assumes that these costs will remain at approximately \$4.2 million in constant 2019 dollars, increasing with inflation but not increasing as the size of the ARL grows (see **Table 16**). This includes salaries and benefits of about \$2.3 million annually and about \$1.5 million in professional services, supplies, and other costs.

²⁵ Two years of inflation (2017 – 2019) based on by BLS CPI adjustment for Riverside-San Bernardino-Ontario Metro Area.

Table 16 Administrative and Professional Services Costs

| Expenditures | RCA FY16/17- 18/19 3-Year Average of Actuals | CPI Adjusted to 2019\$ ¹ |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Total Salaries and Employee Benefits | \$2,219,261 | \$2,288,495 |
| Professional Services and Supplies Environmental Legal Auditing, Accounting & Financial Services GIS Services Personnel Services Real Estate Services Other Services | \$394,320 \$101,717 \$10,000 \$13,920 \$653,774 \$247,979 | \$406,621 \$104,891 \$10,312 \$14,354 \$674,169 <u>\$255,715</u> |
| Subtotal | \$1,421,710 | \$1,466,062 |
| Other Charges | <u>\$388,145</u> | \$400,254 |
| Total | \$4,029,116 | \$4,154,811 |

⁽¹⁾ Three year average CPI-adjusted by one year, the average of the annual CPI adjustments for the three years.

Sources: Western Riverside County Regional Conservation Authority: Bureau of Labor Statistics;

Management and Monitoring

Reserve Management

The MSHCP describes reserve management activities focused on maintaining and improving habitat conditions and ecosystem functions including habitat and landscape-based activities and species-specific activities. For the purposes of this analysis, the average per acre cost estimate for Reserve Management as reported in the RCA actual spending for FY 2018-19 has been used to inform cost projections through the full acquisition period. Because RCA staff and relevant contractors have indicated that the current spending on staff capacity is not adequate to accomplish necessary management with existing land holdings, additional staffing and associated expenditures have been added to the current reserve management expenditures. Specifically, three new full time equivalent (FTE) positions are added to the current 2019 spending for reserve management. Overall, the 2019 per acre reserve management cost of \$25.39 per acre was adjusted to \$32.70 per acre (2019 dollars) to account for three new mid-level park ranger FTEs. While as of the end of 2019 about 40,200 acres were under management, ultimately, reserve management activities will cover the entire 97,000 acres to be acquired by the RCA.

Biological Monitoring

The purpose of biological monitoring is to provide Reserve Managers with information and data upon which reserve management decisions will be made. According to the MSHCP, the monitoring program must provide "sufficient, scientifically reliable data for Reserve Managers to assess the MSHCP's effectiveness at meeting resource objectives and achieving or maintaining a

healthy MSHCP Conservation Area in perpetuity." Unlike the RCA's reserve management activities which are limited to local ARL acres, the RCA will ultimately be responsible for monitoring all 500,000 acres of the reserve lands mandated under the MSHCP. The acreage currently being monitored totals roughly 408,000 acres. For the purposes of this analysis, the \$1.1 million annual cost estimate based on FY 2018-19 actual spending was used to inform cost projections through the full acquisition period. Because current staff capacity is not adequate to accomplish necessary biological monitoring with existing land holdings, to address the additional land acquisitions, two new full time equivalent (FTE) positions are added to the current 2019 spending for reserve monitoring. The 2019 per acre reserve monitoring cost of \$2.67 was adjusted to \$3.01 (2019 dollars) to account for two new entry-level biologist FTEs. (see **Table 17**). This constant dollar per acre cost was assumed to apply throughout the period of implementation.

Reserve Management and Biological Monitoring Costs

Table 17 summarizes estimated per acre costs for reserve management and monitoring in 2019 dollars. Applying these per acre costs (in 2019 dollars) to current acreage under management and monitoring projects results in annual costs of \$1.32 million and \$1.23 million, respectively. The annual reserve management and biological monitoring costs increase as new acquisitions occur.

Table 17 Management and Monitoring Anticipated Costs in 2004 and 2019 Dollars

| Item | Actual FY 2019 Spending |
|-------------------------------------------------|----------------------------|
| Reserve Management ¹ | |
| Acres under Management | 40,212 |
| Existing Reserve Management Expenses | \$1,021,000 |
| Additional Staff Capacity Required ³ | \$294,000 |
| Total Reserve Management Expenses | \$1,315,000 |
| \$/Acre | \$32.70 |
| \$/Acre without additional staff capacity | \$25.39 |
| Biological Monitoring ² | |
| Acres being Monitored | 408,820 |
| Existing Biological Monitoring Expenses | \$1,092,000 |
| Additional Staff Capacity Required ³ | \$140,000 |
| Total Biological Monitoring Expenses | \$1,232,000 |
| \$/Acre | \$3.01 |
| \$/Acre without additional staff capacity | \$2.67 |

^{1.} Reserve Management costs include Parks & Open Space contract fees, maintenance of motor vehicles, and HOA dues.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Endowment Funding

The overall permit period was set at 75 years, ending in 2079. To cover ongoing management and monitoring costs beyond the duration when mitigation fees will be collected, the establishment of a non-depleting endowment is required. In other words, the endowment must be sufficient such that expected average interest revenues (after inflation and transaction costs) can cover the ongoing costs associated with administration, management and monitoring in perpetuity. This section summarizes the estimated cost of establishing this endowment under the different scenarios. A key assumption is that the endowment must be fully established by

^{2.} Biological Monitoring costs include SAWA contract fees, office and computer supplies, training, private mileage reimbursement, building rent, and rental vehicles/fuel.

^{3.} Current staff capacity is not sufficient to accomplish necessary management and monitoring. An Expanded staff capacity scenario envisions adding 3 FTE midlevel park rangers to Reserve Management and 2 FTE entry-level biologists to Reserve Monitoring, with salaries and benfits of \$98,000 and \$70,000

the end of the land acquisition period as it is assumed that no more mitigation fees will be collected at that time. ²⁶

For the purposes of this analysis, we have assumed that habitat management and habitat monitoring costs continue in full, while administration costs are reduced by half following the end of the land acquisition period. All of these costs then continue in perpetuity. As a result and as shown in **Table 18**, the endowment is sized to cover the expected annual management and monitoring costs and 50 percent of the administration costs, totaling \$6.8 million (2019 dollars) once all lands have been acquired.

Table 18 Annual Implementation Cost Estimate (2019\$)

| Cost Categories | Annual Cost by Last Year of Land Acquisition Period | Adjustment | Annual Post-Land Acquisition Cost |
|-----------------------------|--------------------------------------------------------------|------------|--------------------------------------|
| Ongoing Habitat Management | \$3,172,063 | 100% | \$3,172,063 |
| Ongoing Habitat Monitoring | \$1,506,776 | 100% | \$1,506,776 |
| Administration ¹ | \$4,154,811 | 50% | \$2,077,406 |
| Total | \$8,833,650 | | \$6,756,244 |

^{1.} Adminsitration includes salaries and benefits, accounting, auditing and reporting, contracts, etc.. Assumes less administration is needed following the land acquisition period; ongoing adminsitrative needs include oversight, auditing and reporting, and board staffing.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Consistent with many regional habitat conservations plans, the average annual net, real (allowing for inflation and institutional fees) interest rate is assumed to be three (3) percent. The under all extension scenarios, the total required endowment funding is \$225.2 million. Because the longer extension periods provide more time for the accrual of interest revenues, the net endowment cost (that must be funded by mitigation fees) is different for each scenario. Table 19 shows the consistent total endowment funding required by scenario as well as the different levels of aggregate endowment interest and associated net endowment funding requirement. For a detailed time-series accounting of endowment funding by extension scenario, see Appendix II.

²⁶ It is important to note that the RCA has collected a distinct set of endowment funds for situations where specific conservation activities are required over-and-above the core activities covered by this endowment calculation.

²⁷ This assumes that the implementing entity can use investment vehicles that may be not be typical for Riverside County.

Table 19 Endowment Funding (2019\$), by Extension Scenario

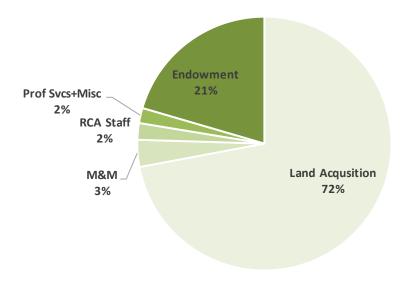
| Item | No Extension | 5-Year Extension | 10-Year Extension | 15-Year Extension |
|-------------------------------------------------------------------------------------------|----------------|---------------------|----------------------|----------------------|
| Total Endowment Funding Required (Less) Endowment Interest Net Endowment Funding Required | \$225,208,133 | \$225,208,133 | \$225,208,133 | \$225,208,133 |
| | (\$25,695,187) | (\$40,679,628) | (\$54,846,349) | (\$68,206,990) |
| | \$199,512,947 | \$184,528,506 | \$170,361,785 | \$157,001,144 |

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Total Implementation Costs

Implementation costs include land costs, administrative and professional services expenses, management and monitoring costs, and the required net endowment funding. The remaining MSHCP implementation costs, as described in detail in the preceding sections, are all estimated in 2019 constant dollar terms. Under the Baseline/ No Extension scenario, as shown in **Figure 9**, the \$702 million in estimated land acquisition costs make up 72 percent of the total implementation cost of \$974 million. Administrative costs total about 4 percent of total costs, management and monitoring sum to 3 percent of total implementation costs, and the endowment constitutes 21 percent of total costs.

Figure 9 Comparison of Costs by Category



Total implementation costs vary by extension scenario. Land acquisition costs are the same for all scenarios. Administrative, management and monitoring costs increase the longer the acquisition period is extended, but the endowment funding required decreases the longer the

acquisition period is extended. As shown in **Table 20**, total implementation costs range from \$890 million to \$967 million depending on the extension period. Although total costs over time increase with longer extension periods the per-year implementation costs decrease with longer extension periods, as shown in **Table 21**. For a detailed time-series of all implementation costs excepting the endowment, see **Appendix I**.

Table 20 Total Implementation Costs (2019\$*), by Extension Scenario

| Local Permittee MSHCP Implementation Costs | Total for 2020 - 2028 No Extension | Total for 2020 - 2033 5-Yr Extension | Total for 2020 - 2038 10-Yr Extension | Total for 2020 - 2043 15-Yr Extension |
|-------------------------------------------------|------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|
| Land ¹ | \$701,931,902 | \$701,931,902 | \$701,931,902 | \$701,931,902 |
| Management & Monitoring | \$33,582,193 | \$51,646,790 | \$69,711,387 | \$87,775,983 |
| RCA Staff ² | \$20,596,453 | \$32,038,927 | \$43,481,401 | \$54,923,875 |
| Professional Services and Supplies ² | \$13,194,561 | \$20,524,873 | \$27,855,185 | \$35,185,497 |
| Loan Repayment ³ | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 |
| Other Costs 24 | \$3,602,285 | \$5,603,554 | \$7,604,824 | \$9,606,093 |
| Net Endowment Funding Required | \$199,512,947 | \$184,528,506 | \$170,361,785 | \$157,001,144 |
| Total Costs | \$974,420,341 | \$998,274,552 | \$1,022,946,483 | \$1,048,424,494 |

^{1.} Land value estimates at \$14,288 per acre in 2019 dollar terms.

NOTE: In some cases numbers may not perfectly sum due to rounding.

Sources: Western Riverside County RCA; Economic & Planning Systems, Inc.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars

^{3.} RCA has "Other Long Term Obligations" totaling \$5 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million starting in FY 2018.

^{4.} Includes rents and all other miscellaneous expenses.

^{*} All costs are provided in constant 2019 dollar terms. Costs will change over time due to inflation and other factors. These changes will be addressed through the fee indexing/ updating process that will include automatic inflation-indexed fee changes annually based on the regional Consumer Price Index and periodic comprehensive updates to the Nexus Study.

Table 21 Average Annual Implementation Costs (2019\$), by Extension Scenario

| Local Parmitton MSUCD | Average Annual | | | | |
|-------------------------------------------------|-----------------------------|-------------------------------|--------------------------------|--------------------------------|--|
| Local Permittee MSHCP Implementation Costs | 2020 - 2028 No Extension | 2020 - 2033 5-Yr Extension | 2020 - 2038 10-Yr Extension | 2020 - 2043 15-Yr Extension | |
| Land ¹ | \$77,992,434 | \$50,137,993 | \$36,943,784 | \$29,247,163 | |
| Management & Monitoring | \$3,731,355 | \$3,689,056 | \$3,669,020 | \$3,657,333 | |
| RCA Staff ² | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | |
| Professional Services and Supplies ² | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | |
| Loan Repayment ³ | \$222,222 | \$142,857 | \$105,263 | \$83,333 | |
| Other Costs 24 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | |
| Net Endowment Funding Required | <u>\$22,168,105</u> | <u>\$13,180,608</u> | \$8,966,410 | \$6,541,714 | |
| Total Costs | \$108,268,927 | \$71,305,325 | \$53,839,289 | \$43,684,354 | |

^{1.} Land value estimates at \$14,288 per acre in 2019 dollar terms.

NOTE: In some cases numbers may not perfectly sum due to rounding.

Sources: Western Riverside County RCA; Economic & Planning Systems, Inc.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} RCA has "Other Long Term Obligations" totaling \$5 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million starting in FY 2018.

^{4.} Includes rents and all other miscellaneous expenses.

MSHCP Forecast of Non-Fee Revenues

The MSHCP forecast an array of revenue sources, in addition to fee revenue, supporting the conservation program. These sources were anticipated to total about 44 percent of the revenue for the program, including:

- Transportation funding includes the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF) charged on new development. Note that the MSHCP envisioned up to \$121 million of Measure A money to the HCP.
- Other infrastructure projects funding from this source was not quantified in the MSHCP but reflected the expectation that local public construction projects such as schools, administrative facilities, libraries, jails, and other projects like flood control and utility projects would mitigate the construction through the payment of a per-acre fee.²⁸ Since MSHCP adoption, the standard contribution has been three to five percent of total project costs.
- Landfill contributions Landfill tipping fees have been used in the County since the 1990 for conservation programs. Under county permitting of landfills, the County has committed to divert portions of tipping fees to MSHCP implementation.

Table 22 and **Figure 10** summarizes the revenue forecasts under the MSHCP. Including the fee revenues, these sources totaled \$1.07 billion or an estimated average almost \$43 million per year for 25-years (in 2004 dollars). Excluding fee revenues, a total of \$18.84 million in annual revenues were forecast, including Measure A funding, \$10 million each year from other transportation projects, and \$4.0 million from land fill contributions.

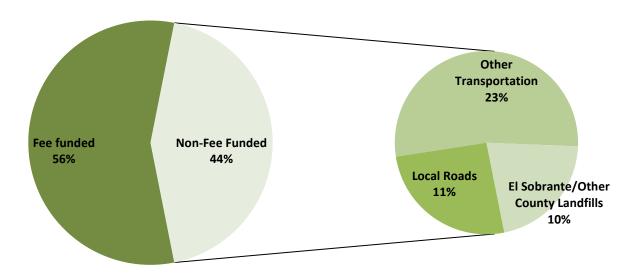
As described further below, at this point, the average annual funding from non-fee revenues sources are well below the MSCHP forecast. Measure A, a voter-approved ½ cent sales tax measure did provide substantial funding as envisioned (though is now fully used/ allocated) and, collectively, the other non-fee funding sources are well beyond what was originally envisioned.

²⁸ See Chapter 8.5.1 Funding Sources in the MSHCP.

Table 22 2004 MSHCP Anticipated Funding Sources

| Estimate % of Avg/Yr (millions | | | | |
|-----------------------------------------------|----------------|-------|----------------|--|
| MSHCP Anticipated Funding Source | (millions) | Total | years) | |
| Fee Funded Sources: | | | | |
| Cities and County Development Mitigation Fees | \$539.6 | 50% | \$21,584,000 | |
| Density Bonus Fees | \$66.0 | 6% | \$2,640,000 | |
| Non-Fee Funded Sources | \$605.6 | | \$24,224,000.0 | |
| Public Funding Sources | | | | |
| Local Roads (Measure A) | \$121.0 | 11% | \$4,840,000 | |
| Other Transportation | \$250.0 | 23% | \$10,000,000 | |
| Other infrastructure Projects | unknown | 0% | \$0 | |
| El Sobrante Landfill | \$90.0 | 8% | \$3,600,000 | |
| County Landfills | \$10.0 | 1% | \$400,000 | |
| Eagle Mountain Landfill | unknown | 0% | \$0 | |
| New Regional funding | <u>unknown</u> | 0% | <u>\$0</u> | |
| Non-Fee Funded Sources | \$471.0 | | \$18,840,000 | |
| Total, Local Funds | \$1,076.6 | 100% | \$43,064,000 | |

Figure 10 2004 MSHCP Anticipated Funding Sources



New Forecast of Non-Fee Revenues

Non-fee revenues to the RCA are projected to be \$6.85 million annually in 2019 dollars. This estimate was derived from a line by line review of the major revenue items for a 3-year period from FY 2016-17 to FY 2018-19, projections by collection entities (e.g., TUMF revenue), and recent dynamics likely to affect the revenue source (e.g., greater diversion of trash to recycling

will likely reduce tipping fees). The estimates have been inflated from a three-year average to 2019 dollars, as detailed in **Table 23**.

Table 23 Annual Non-Fee Revenue Projection (2019\$s)

| Non-Fee Revenue Item | RCA FY16/17- 18/19 3-Year Average of Actuals | CPI Adjusted to 2019\$ |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| Transportation Mitigation ¹ TUMF Revenue-Developer Fees Subtotal | \$950,000 \$950,000 | \$979,637 \$979,637 |
| Tipping Fee | \$3,865,728 | \$3,986,326 |
| Public Project Mitigation PSE Mitigation Fee ² Other Gov MSHCP Infrastructure Other Gov MSHCP Civic Projects Flood Control District Subtotal | NA \$284,570 \$93,629 <u>\$293,084</u> \$671,283 | \$500,000 \$293,448 \$96,550 \$302,227 \$1,192,225 |
| Other Revenue Interest and Other Sources Rents Joint Project Review Fees Subtotal | \$467,073 \$80,531 <u>\$124,762</u> \$672,365 | \$481,644 \$83,043 <u>\$128,654</u> \$693,341 |
| Total Revenue | NA | \$6,851,529 |

^{1.} All Measure A funding was provided prior to 2020 and the associated obligations have been met.

Sources: Western Riverside County Regional Conservation Authority; Economic & Planning Systems, Inc.

^{2.} Participating Special Entities fees. This does not include Developer Mitigation Fees. These fees vary widely year over year, \$500,000 is used as an annual average per the recommendation of RCA staff.

7. MITIGATION FEE CALCULATION

The revised Local Development Mitigation Fee is based on a generally similar methodology to the Original Nexus Study that ensures the fee level is proportional to the development impact. This methodology looks at the remaining conservation requirements associated with Local Permittee obligations under the MSHCP and associated Incidental Take Permit and Implementing Agreement, determines the remaining Local Permittee implementation cost, subtracts out reasonable estimates of non-fee revenues and other contributions, to determine the overall feefunding obligation. This obligation is then divided among the new development forecast to determine the required mitigation fee. In others words, the original 2003 and updated 2020 Local Development Mitigation Fee estimates are the outcome of the following formula (the 2003 and 2020 Nexus Studies differ in their process of allocating funding required between land uses):

1. Implementation Costs

minus

2. Non-Fee Funding

equals

3. Outstanding Funding Required

divided by

4. Development Forecast

eguals

5. Local Development Mitigation Fee Schedule

Table 24 summarizes the estimated Net Implementation Costs, Expected Acres of Development, and the associated per gross acre mitigation fee. As shown, the average mitigation fee per gross acre decreases with each extension as similar levels of net implementation costs are spread across more development. **Tables 25** through **28** provide the detailed calculations that determine the total net MSHCP implementation costs shown in **Table 24**. As noted in **Chapter 1**, for residential development, the per-gross-acre fee is translated into a per-unit fee schedule for administrative continuity.

Table 24 MSHCP Implementation Costs and Per Acre Mitigation Fees

| Fee Per Acre | No Extension | 5-Year Extension | 10-Year Extension | 15-Year Extension |
|-------------------------|---------------|---------------------|----------------------|----------------------|
| Net Cost | \$912,756,583 | \$902,353,150 | \$892,767,438 | \$883,987,805 |
| Acres of Development | | | | |
| Residential | 14,026 | 21,818 | 29,611 | 37,403 |
| Nonresidential | 6,239 | 9,705 | 13,171 | 16,637 |
| Total | 20,265 | 31,523 | 42,782 | 54,040 |
| Mitigation Fee per Acre | \$45,041 | \$28,625 | \$20,868 | \$16,358 |

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

Table 25 Recommended Fee Level—No Extension

| | Total for 2020 - 2029 | Average | % of Total Cost/ |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|
| Item | (Years 17 - 25) | 9 yrs Annual | Funding Need |
| Local Permittee Land Requirements | | | |
| Preservation Requirement | 56,788 a | cres 6,310 acres | na |
| (less) HANS Dedication | <u>10,000</u> a | cres <u>1,111</u> acres | na |
| Local Permittee Acquisition | 46,788 a | cres 5,199 acres | na |
| Local Permittee MSHCP Implementation Cos | sts | | |
| Land (1) | \$701,931,902 | \$77,992,434 | 72.0% |
| Management & Monitoring | \$33,582,193 | \$3,731,355 | 3.4% |
| RCA Staff (2) | \$20,596,453 | \$2,288,495 | 2.1% |
| Professional Services and Supplies (2) | \$13,194,561 | \$1,466,062 | 1.4% |
| Loan Repayment (3) | \$2,000,000 | \$222,222 | 0.2% |
| Other Costs (2) (4) | \$3,602,285 | \$400,254 | 0.4% |
| Net Endowment Funding Required | \$199,512,947 | \$22,168,105 | 20.5% |
| Total Costs | \$974,420,341 | \$108,268,927 | 100.0% |
| Transportation Mitigation (7) Tipping Fees Other Revenues (8) Total Selected Revenues | \$8,816,731 \$35,876,934 <u>\$6,240,068</u> \$61,663,758 | \$979,637 \$3,986,326 <u>\$693,341</u> \$6,851,529 | 1.1% 4.6% <u>0.8%</u> 8.0% |
| Funding Required from Private Developmen | t Mitigation | | |
| Net Cost | \$912,756,583 | \$101,417,398 | 93.7% |
| Mitigation Fee Estimates (per gross acre of de | evelopment) | | |
| Growth Projection: | | | |
| Development | 2020 - 2028 | Annual | |
| Residential Units | 79,000 | 8,778 | |
| Residential Acres | 14,026 | 1,558 | |
| Non-Residential Acres | 6,239 | 693 | |
| Total Acres | 20,265 | 2,252 | |
| Mitigation Fee | \$45,041 p | er acre | |

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

Table 26 Recommended Fee Level—5-Year Extension

| | Total for | | | % of |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------|----------------------------------------------------|-----------------------------------------------------|
| | 2020 - 2034 | | Average | Total Cost/ |
| tem | (Years 17 - 30) | 14 yrs | Annual | Funding Nee |
| ocal Permittee Land Requirements | | | | |
| Preservation Requirement | 56,788 ac | res | 4,056 acres | na |
| (less) HANS Dedication | <u>10,000</u> ac | res | 714 acres | na |
| Local Permittee Acquisition | 46,788 ac | res | 3,342 acres | na |
| Local Permittee MSHCP Implementation Cost | ts | | | |
| _and (1) | \$701,931,902 | \$50,1 | 37,993 | 70.3% |
| Management & Monitoring | \$51,646,790 | \$3,6 | 89,056 | 5.2% |
| RCA Staff (2) | \$32,038,927 | \$2,2 | 288,495 | 3.2% |
| Professional Services and Supplies (2) | \$20,524,873 | \$1,4 | 66,062 | 2.1% |
| Loan Repayment (3) | \$2,000,000 | \$1 | 42,857 | 0.2% |
| Other Costs (2) (4) | \$5,603,554 | \$4 | 100,254 | 0.6% |
| Net Endowment Funding Required | \$184,528,506 | \$13,1 | 80,608 | 18.5% |
| Fotal Costs | \$998,274,552 | \$71,3 | 305,325 | 100.0% |
| Public Project Mitigation (6) Transportation Mitigation (7) Tipping Fees Other Revenues (8) Total Selected Revenues | \$16,691,150 \$13,714,915 \$55,808,564 \$9,706,772 \$95,921,402 | \$9 \$3,9 <u>\$6</u> | 92,225 979,637 986,326 993,341 951,529 | 2.1% 1.7% 6.9% <u>1.2%</u> 11.8% |
| Funding Required from Private Development | Mitigation | | | |
| Net Cost | \$902,353,150 | \$64,4 | 53,796 | 90.4% |
| Mitigation Fee Estimates (per gross acre of de | velopment) | | | |
| Growth Projection: | | | | |
| Development | 2020 - 2033 | A | Annual | |
| Residential Units (4.2 DU/Acres) | 122,456 | | 8,747 | |
| Residential Acres | 21,818 | | 1,558 | |
| Non-Residential Acres | 9,705 | | 693 | |
| Total Acres | 31,523 | | 2,252 | |
| | * | | | |

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Mitigation Fee

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

\$28,625 per acre

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

 $[\]begin{tabular}{ll} (8) Includes interest and other sources, rents, and joint project review fees. \end{tabular}$

Table 27 Recommended Fee Level—10-Year Extension

| | Total for | | | % of |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------|---------------------------------------------------------------------|-----------------------------------------------------|
| Hom | 2020 - 2039 (Years 17, 25) | 10 .//0 | Average Annual | Total Cost/ Funding Need |
| Item | (Years 17 - 35) | 19 yrs | Annual | runding Need |
| Local Permittee Land Requirements | | | | |
| Preservation Requirement | 56,788 a | | 2,989 acres | na |
| (less) HANS Dedication | <u>10,000</u> a | cres | <u>526</u> acres | na |
| Local Permittee Acquisition | 46,788 a | cres | 2,463 acres | na |
| Local Permittee MSHCP Implementation Costs | | | | |
| Land (1) | \$701,931,902 | | \$36,943,784 | 68.6% |
| Management & Monitoring | \$69,711,387 | | \$3,669,020 | 6.8% |
| RCA Staff (2) | \$43,481,401 | | \$2,288,495 | 4.3% |
| Professional Services and Supplies (2) | \$27,855,185 | | \$1,466,062 | 2.7% |
| Loan Repayment (3) | \$2,000,000 | | \$105,263 | 0.2% |
| Other Costs (2) (4) | \$7,604,824 | | \$400,254 | 0.7% |
| Net Endowment Funding Required | \$170,361,785 | | \$8,966,410 | 16.7% |
| Total Costs | \$1,022,946,483 | | \$53,839,289 | 100.0% |
| Offsetting Revenues (5) (exc. Private Development Mitigation) Public Project Mitigation (6) Transportation Mitigation (7) Tipping Fees Other Revenues (8) Total Selected Revenues | \$22,652,275 \$18,613,099 \$75,740,195 \$13,173,476 \$130,179,045 | | \$1,192,225 \$979,637 \$3,986,326 \$693,341 \$6,851,529 | 2.7% 2.2% 8.9% <u>1.5%</u> 15.3% |
| Funding Required from Private Development Mitig | gation | | | |
| Net Cost | \$892,767,438 | | \$46,987,760 | 87.3% |
| Mitigation Fee Estimates (per gross acre of develop | ment) | | | |
| Growth Projection: | | | | |
| Development | 2020 - 2038 | | Annual | |
| Residential Units (4.2 DU/Acres) | 166,000 | | 8,737 | |
| Residential Acres | 29,611 | | 1,558 | |
| Non-Residential Acres | 13,171 | | 693 | |
| Total Acres | 42,782 | | 2,252 | |

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Mitigation Fee

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

\$20,868 per acre

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

Table 28 Recommended Fee Level—15-Year Extension

| | Total for | | Averene | % of |
|-----------------------------------------------------|--------------------------------|---------|-------------------|-----------------------------|
| Item | 2020 - 2044 (Years 17 - 40) | 24 yrs | Average Annual | Total Cost/ Funding Need |
| | (10010 11 10) | 21 910 | rumaai | T unumg 11000 |
| Local Permittee Land Requirements | | | | |
| Preservation Requirement | 56,788 a | | 2,366 acres | na |
| (less) HANS Dedication | <u>10,000</u> a | | <u>417</u> acres | na |
| Local Permittee Acquisition | 46,788 a | cres | 1,950 acres | na |
| Local Permittee MSHCP Implementation Costs | | | | |
| Land (1) | \$701,931,902 | | \$29,247,163 | 67.0% |
| Management & Monitoring | \$87,775,983 | | \$3,657,333 | 8.4% |
| RCA Staff (2) | \$54,923,875 | | \$2,288,495 | 5.2% |
| Professional Services and Supplies (2) | \$35,185,497 | | \$1,466,062 | 3.4% |
| Loan Repayment (3) | \$2,000,000 | | \$83,333 | 0.2% |
| Other Costs (2) (4) | \$9,606,093 | | \$400,254 | 0.9% |
| Net Endowment Funding Required | \$157,001,144 | | \$6,541,714 | 15.0% |
| Total Costs | \$1,048,424,494 | | \$43,684,354 | 100.0% |
| Offsetting Revenues (5) | | | | |
| (exc. Private Development Mitigation) | | | | |
| Public Project Mitigation (6) | \$28,613,400 | | \$1,192,225 | 3.2% |
| Transportation Mitigation (7) | \$23,511,283 | | \$979,637 | 2.6% |
| Tipping Fees | \$95,671,825 | | \$3,986,326 | 10.7% |
| Other Revenues (8) | <u>\$16,640,181</u> | | \$693,341 | <u>1.9%</u> |
| Total Selected Revenues | \$164,436,689 | | \$6,851,529 | 18.4% |
| Funding Required from Private Development Mitig | gation | | | |
| Net Cost | \$883,987,805 | | \$36,832,825 | 84.3% |
| Mitigation Fee Estimates (per gross acre of develop | ment) | | | |
| Growth Projection: | | | | |
| Development | 2020 - 2043 | | Annual | |
| Residential Units | 210,000 | | 8,750 | |
| Residential Acres | 37,403 | | 1,558 | |
| Non-Residential Acres | 16,637 | | 693 | |
| Total Acres | 54,040 | | 2,252 | |
| Mitigation Fee | \$16,358 p | er acre | | |

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

8. MITIGATION FEE ACT (NEXUS) FINDINGS

Mitigation fees are utilized in California to finance public facilities necessary to mitigate impacts stemming from new development. In 1987, the California Legislature adopted the Mitigation Fee Act to provide a framework for the application and administration of such fees. Current prevailing practice among the majority of approved and permitted regional multiple-species Habitat Conservation Plans is that any habitat mitigation fees are to be adopted by the relevant jurisdictions (cities and Counties) consistent with the Mitigation Fee Act. ²⁹ As discussed further in **Chapter 9**, the adoption of fees under the Mitigation Fee Act includes a number of auditing and reporting requirements.

The Mitigation Fee Act, defined in California Government Code Sections 66000 to 66025, requires all public agencies to document five findings when establishing or increasing a fee as a condition for new development. These findings were made when the Western Riverside County MSHCP Local Development Mitigation Fees were first justified and established.³⁰

This Chapter of the Western Riverside Habitat Conservation Plan Nexus Fee Study was prepared to describe how the proposed increase in the Local Development Mitigation Fee satisfies the five statutory findings required by the Mitigation Fee Act and is based on the appropriate nexus between new development and the imposition of a mitigation fee. The five statutory findings required for the establishment of a mitigation fee are summarized in the sections below and supported by the technical analysis in the prior chapters of this Study.

Purpose of Fee

Identify the purpose of the fee. (66001(a)(1))

The purpose of the Local Development Mitigation Fee is to contribute to the funding required to implement the MSCHP and, as a result, help maintain the incidental take permits for new private and public development in Western Riverside County under the federal and State Endangered Species Acts. Maintaining the incidental take permit is necessary to allow for future development, and without the development community paying for the cost of the MSHCP, individual applicants will need to apply independently for development approval under federal and State law if the project impacts a threaten or endangered species. The federal Endangered Species Act specifically requires that the applicant for incidental take permit "ensure that adequate funding for the plan will be provided." ³¹ In addition, the Local Development Mitigation Fee helps provide the regional benefit of streamlined economic development in Western Riverside County as well as

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²⁹ In addition to the current Western Riverside County habitat mitigation fee, see also the Coachella Valley habitat mitigation fee, the San Joaquin County Multi-Species Habitat Conservation and Open Space Fee, and the East Contra Costa County HCP/NCCP mitigation fee.

³⁰ See the Final Mitigation Nexus Report for the Western Riverside County Multiple Species Habitat Conservation Plan, published July 1, 2003.

³¹ See Section 1539(a)(2)Biii of the federal Endangered Species Act.

the provision of contiguous open spaces that will serve as a community amenity to residents, workers, and visitors.

Use of Fee Revenues

Identify the use to which the fee is to be put. If the use is financing public facilities, the facilities shall be identified. That identification may, but need not, be made by reference to a capital improvement plan as specific in Section 65403 or 66002, may be made in applicable general or specific plan requirements, or may be made in other public documents that identify the public facilities for which the fee is charged. (66001(a)(2)).

The MSHCP is the public document that outlines the actions required as a whole and the particular set of actions required by the Local Permittees (and the Regional Conservation Agency as their agent) to obtain incidental take permits—associated with State and federal Endangered Species Act requirements—for new public and private development in Western Riverside County. Failure to meet the requirements of the MSHCP will result in an inability to obtain or maintain incidental take permits through the MSHCP, which would require future development to secure individual take authorization if the project impacts a threaten or endangered species.

Revenues from the Local Development Mitigation Fee will be used, in conjunction with other local and regional funding sources, to fund the conservation actions identified as the responsibility of Local Permittees in the MSHCP. The revenue from the Local Development Mitigation Fee will be used to help fund the appropriate habitat acquisition (land acquisition and associated transaction costs), maintenance and monitoring of habitat land (preserve management, monitoring, and adaptive management), and program management, administration, and oversight activities and costs.

Chapter 3 of this report describes the Local Permittee conservation requirements, progress to date, and the remaining actions required under the MSHCP.

Relationship

Determine how there is a reasonable relationship between the fee's use and the type of development project on which the fee is imposed. (66001(a)(3)).

The implementation of the MSHCP, and the mitigation fee as a fundamental part of it, will benefit all new development by mitigating their collective impacts on covered species and associated habitat. All new public and private development in the Plan area will affect habitat and species either directly, indirectly, or as a cumulative effect. New infrastructure development, for example, in addition to its direct effects, will support new development on other parcels and other locations in the Plan Area. Similarly, new private development will require new infrastructure and also result in additional demand for new developments through linkages—for

³² Consistent with the interpretation applied to the majority of permitted and approved regional, multiple-species Habitat Conservation Plans in California and guidance from RCA Counsel, the Local Development Mitigation Fee is assumed to fund its proportionate share (as determined by the technical analysis and constrained by the statutory requirements) of applicable MSHCP implementation costs including, but also limited to, habitat acquisition costs (and associated transaction costs), the costs of managing and monitoring the habitat preserves in perpetuity, and the administrative and other costs of managing the overall program.

example, the need for new housing to accommodate new workers at commercial developments or the need for new retail developments to serve new residents at residential developments. In other words, all new development in Western Riverside County will benefit from the incidental take permits obtained through the MSHCP and via the use of the mitigation fee revenues.

In addition, the incidental take permits are necessary to permit any future development within the Plan Area, and in order to obtain or maintain such incidental take permits, the MSHCP must be fully funded. Because funding the MSHCP is required in order to allow for future development under the MSHCP, there is a direct relationship between the proposed use of the mitigation fee and development within the Plan Area.

Need

Determine how there is a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed. (66001(a)(4)).

Without new development, no MSHCP would be necessary and no further habitat conservation would be required under the federal and State Endangered Species Acts. To allow for any future development under the Plan, the MSHCP must be fully funded. New development in the Plan Area, as noted above, will directly, indirectly, or cumulatively affect species and habitat in Western Riverside County. Because of this, development of the MSHCP was undertaken to provide a regional, streamlined approach to benefit future development of all types in Western Riverside County, including the development and improvements envisioned under the numerous General Plans and the Regional Transportation Improvement Program. The requirements of the MSHCP (habitat acquisition, management and monitoring, program administration) are a direct result of the regional approach to mitigation that is engendered by all new development in the Plan Area under the pertinent environmental regulations. Meeting the requirements of the MSHCP is necessary to obtain the necessary federal authorization to develop within the Plan Area.

Proportionality

Determine how there is a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed. (66001(b)).

The MSHCP includes detailed conservation requirements based on the scientific evaluations that form the basis of the MSHCP. Based on these evaluations, conservation responsibilities were allocated between the Local Permittees and other agencies, such as the State and federal governments. The Local Development Mitigation Fee appropriately provides funding towards the fulfillment of the Local Permittee conservation requirements. Furthermore, the Local Permittee obligations are not fully funded through the Local Development Mitigation Fee revenues. Other local and regional funding sources, such as the Measure A sales tax and tipping fees, provide additional mitigation and/or offsetting revenues that reduce the overall cost allocation to the Local Development Mitigation Fee Program. In addition, consistent with the relationship between new development in Western Riverside County and the need for the public facilities (conservation program) described above, proportional attribution between new development is ensured

through the determination of a consistent per gross acre Local Development Mitigation Fee. ³³ As a result, the Local Development Mitigation Fee level calculations are carefully determined to fund only the proportionate (or less than) conservation costs attributable to the new development on which the fee is imposed and to allocate the fee levels proportionally across all new development. It is this process of careful calculation based on the requirements of the MSHCP that is the subject of a substantial portion of this Nexus Study (see **Chapters 2** through **7**).

³³ Determining habitat mitigation fees on a gross acre basis is the clearest way of ensuring proportionate cost allocations among new developments and is a common practice among adopted Habitat Conservation Plans. For purposes of implementation/administrative consistency, for residential uses, the per-gross-acre fee is translated into per unit fees for different density categories.

9. FEE IMPLEMENTATION

The revised Local Development Mitigation Fee must be implemented consistent with the MSHCP (and associated Incidental Take Permit and Implementing Agreement) as well as the California Mitigation Fee Act. A detailed set of guidance is included in the Fee Implementation Handbook to support clarity and specificity in the implementation of the updated fee program by Local Permittees. The sections below summarize some of the key implementation and administration actions to be consistent with the requirements.

Adoption of Revised LDMF

- Consistent with the MSHCP and associated documents, each Local Permittee (i.e., all participating jurisdictions) must adopt an updated LDMF ordinance and a fee resolution establishing the revised fee level as prescribed by the Mitigation Fee Act.
- Consistent with the Mitigation Fee Act, the revised ordinance and associated fee resolution will become effective after a public hearing and 60 days.
- RCA Legal Counsel will prepare a Fee Update Ordinance and Resolution to facilitate the consistent adoption of the updated LDMF by Local Permittees.

Securing Supplemental Funding

The revised Local Development Mitigation Fee is set at the level that would cover the Local Permittee cost obligations once expected non-fee revenues are subtracted out. To the extent any discounts/exemptions are provided to new Western Riverside County development below the updated fee level, additional funding will be required to backfill the fee revenue losses. To the extent, these revenues do not make up for any fee discounts provided, other sources of funding will need to be sought by the RCA and the Local Permittees to fulfill their Plan obligations. At the same time, if new substantial funding sources become available to the RCA for Local Permittee obligations, the funding required through fees may decrease, in turn reducing the required fee levels through a new update.

Annual Review

The Mitigation Fee Act (at Gov. C. §§ 66001(c), 66006(b)(1)) stipulates that each local agency that requires payment of a fee make specific information available to the public annually within 180 days of the last day of the fiscal year. In this case, the RCA can play this role on behalf of the Local Permittees. This information includes the following:

- A description of the type of fee in the account.
- The amount of the fee (the mitigation fee schedule).
- The beginning and ending balance of the fund.
- The amount of fees collected and interest earned.
- Identification of the improvements constructed.
- The total cost of the improvements constructed.
- The fees expended to construct the improvement.
- The percentage of total costs funded by the fee.

If sufficient fees have been collected to fund specific improvement cost, the agency must specify the approximate date for the cost of that improvement. Because of the dynamic nature of growth and MSHCP implementation costs and consistent with current practice, the RCA should continue to monitor progress towards MSHCP goals. The overall adequacy of the fee revenues and other available funding in meeting these goals should be reviewed annually.

Surplus Funds

The Mitigation Fee Act also requires that if any portion of a fee remains unexpended or uncommitted in an account for 5 years or more after deposit of the fee, the RCA, acting for the Local Permittees, shall make findings once each year (1) to identify the purpose to which the fee is to be put, (2) to demonstrate a reasonable relationship between the fee and the purpose for which it was charged, (3) to identify all sources and amounts of funding anticipated to complete financing of incomplete improvements, and (4) to designate the approximate dates on which the funding identified in (3) is expected to be deposited into the appropriate fund (§66001(d)).

If adequate funding has been collected for specific investments, an approximate date must be specified as to when the cost of the investment will be incurred. If the findings show no need for the unspent funds, or if the conditions discussed above are not met, and the administrative costs of the refund do not exceed the refund itself, the local agency that has collected the funds must refund them (Gov. C §66001(e)(f)).

Annual and Periodic Updates

Consistent with the current practice, the Fee Ordinance should allow an automatic annual adjustment to the fees based on the Riverside-San Bernardino-Ontario, CA Consumer Price Index (CPI) or a similar inflation factor. In addition, a more comprehensive update should be conducted required periodically. The Nexus Study and the technical information it contains should be reviewed periodically by the RCA (every five years is recommended) to identify any necessary refinements to the Local Development Mitigation Fees to ensure adequate funding to implement the MSHCP. Under certain circumstances, the RCA may wish to conduct a Nexus Study update sooner than after five years. For example, to the extent there are significant and unexpected changes in implementation costs, in the level of non-fee funding, and/ or the level of fee-paying private development over time, a more immediate fee update may be appropriate.

APPENDIX I:

Detailed Time Series of Implementation Costs



All Implementation Costs Over Time - No Extension

| | | | | | | | End of: | | | | |
|-----------------------------------------------------------------|------------|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Habitat Lands/ | Factors | | 17 | 18 | 19 | 20 | 21 | 22 | | 24 | 25 |
| Cost Items | | | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
| ACRES | | | | | | | | | | | |
| Land Acuisition Costs | | | | | | | | | | | |
| Land Acquisition (Annual) | | | | | | | | | | | |
| Local | | | 6,310 | 6,310 | 6,310 | 6,310 | 6,310 | 6,310 | 6,310 | 6,310 | 6,310 |
| (less) HANS/JPR Dedications | | | <u>-1,250</u> | <u>0</u> |
| Total Local | | | 5,060 | 5,060 | 5,060 | 5,060 | 5,060 | 5,060 | 5,060 | 5,060 | 6,310 |
| State/Fed | | | <u>3,821</u> | 3,821 | <u>3,821</u> | 3,821 | 3,821 | 3,821 | <u>3,821</u> | <u>3,821</u> | 3,821 |
| Total | | | 8,881 | 8,881 | 8,881 | 8,881 | 8,881 | 8,881 | 8,881 | 8,881 | 10,131 |
| Land Acquisition (Cumulative) | | | | | | | | | | | |
| Local 1 | | | 45,272 | 50,332 | 55,391 | 60,451 | 65,511 | 70,571 | 75,630 | 80,690 | 87,000 |
| State/Fed Local - HANS/JPR Dedications | | | 25,429 <u>1,250</u> | 29,251 <u>2,500</u> | 33,072 <u>3,750</u> | 36,893 <u>5,000</u> | 40,715 <u>6,250</u> | 44,536 | 48,357 <u>8,750</u> | 52,179 <u>10,000</u> | 56,000 <u>10,000</u> |
| Total | | | 71,951 | 82,082 | 92,213 | 102,344 | 112,476 | <u>7,500</u> 122,607 | 132,738 | 142,869 | 153,000 |
| | | | , | , | , | , | , | , | | , | |
| Management and Monitoring Co | | | | | | | | | | | |
| Reserve Summary | | I Responsibility | | | | | | | | | |
| State/ Federal | Monitoring | Management | | | | | | | | | |
| PQP | RCA | State/ Fed | 282,000 | 282,000 | 282,000 | 282,000 | 282,000 | 282,000 | 282,000 | 282,000 | 282,000 |
| ARL | RCA | State | 25,429 | 29,251 | 33,072 | 36,893 | 40,715 | 44,536 | 48,357 | 52,179 | 56,000 |
| Total | | | 307,429 | 311,251 | 315,072 | 318,893 | 322,715 | 326,536 | 330,357 | 334,179 | 338,000 |
| Local | DO4 | No. BOAL | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 |
| PQP ARL | RCA RCA | Non-RCA Local RCA | 65,000 46,522 | 65,000 52,832 | 65,000 59,141 | 65,000 65,451 | 65,000 71,761 | 65,000 78,071 | 65,000 84,380 | 65,000 90,690 | 65,000 97,000 |
| Total | NOA | NOA | 111,522 | 117,832 | 124,141 | 130,451 | 136,761 | 143,071 | 149,380 | 155,690 | 162,000 |
| . otal | | | 111,022 | ,002 | .2., | 100, 101 | 100,701 | 1 10,07 1 | 1 10,000 | 100,000 | 102,000 |
| Total Acres under RCA Manager | | | 46,522 | 52,832 | 59,141 | 65,451 | 71,761 | 78,071 | 84,380 | 90,690 | 97,000 |
| Total Acres under RCA Monitorin | g | | 418,951 | 429,082 | 439,213 | 449,344 | 459,476 | 469,607 | 479,738 | 489,869 | 500,000 |
| COSTS (all constant 2019 dollars | s) | | | | | | | | | | |
| Land Acquisition Costs | , | | | | | | | | | | |
| Local, ARL, Annual | \$14,28 | 88 \$/Acre | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$72,294,065 | \$90,154,055 |
| Land Transaction Costs | į | 5% of acquisition costs | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$3,614,703 | \$4,507,703 |
| Total, Land Acquisition Costs Local, ARL, Cumulative | | | \$75,908,768 \$75,908,768 | \$75,908,768 \$151,817,536 | \$75,908,768 \$227,726,304 | \$75,908,768 \$303,635,073 | \$75,908,768 \$379,543,840 | \$75,908,768 \$455,452,608 | \$75,908,768 \$531,361,376 | \$75,908,768 \$607,270,144 | \$94,661,758 \$701,931,902 |
| Local, ARL, Cultulative | | | \$75,900,700 | \$151,617,556 | φ221,120,304 | \$303,635,072 | Ф 379,543,640 | Φ455,452,606 | \$531,361,376 | \$607,270,144 | \$701,931,902 |
| Management and Monitoring Co | <u>sts</u> | | | | | | | | | | |
| Management, Annual | \$32.7 | 70 \$/Acre | \$1,521,340 | \$1,727,681 | \$1,934,021 | \$2,140,361 | \$2,346,702 | \$2,553,042 | \$2,759,382 | \$2,965,723 | \$3,172,063 |
| Management Cumulative | | | \$1,521,340 | \$3,249,021 | \$5,183,042 | \$7,323,403 | \$9,670,105 | \$12,223,147 | \$14,982,530 | \$17,948,252 | \$21,120,315 |
| Monitoring, Annual | \$3.0 | 01 \$/Acre | \$1,262,531 | \$1,293,061 | \$1,323,592 | \$1,354,122 | \$1,384,653 | \$1,415,184 | \$1,445,714 | \$1,476,245 | \$1,506,776 |
| Monitoring Cumulative | ψo | σ. φ,,, ισ. σ | \$1,262,531 | \$2,555,592 | \$3,879,184 | \$5,233,306 | \$6,617,959 | \$8,033,143 | \$9,478,857 | \$10,955,102 | \$12,461,878 |
| | | | | | | | | | | | |
| Endowment Costs | | | #00.400.40 | COO 400 405 | #00.400.405 | #00.400.405 | #00.400.40 F | # 00 400 405 | COO 400 405 | #00.400.40 | COO 400 405 |
| Net Endowment Funding, Annual Net Endowment Funding, Cumulat | ive | | \$22,168,105 \$22,168,105 | \$22,168,105 \$44,336,210 | \$22,168,105 \$66,504,316 | \$22,168,105 \$88,672,421 | \$22,168,105 \$110,840,526 | \$22,168,105 \$133,008,631 | \$22,168,105 \$155,176,736 | \$22,168,105 \$177,344,842 | \$22,168,105 \$199,512,947 |
| The Endowment Funding, Guindlet | IVC | | Ψ22,100,103 | ψττ,550,210 | ψ00,504,510 | ψ00,072, 4 21 | φ110,040,320 | ψ133,000,031 | ψ133,170,730 | Ψ177,044,042 | Ψ100,012,047 |
| Administrative Costs ² | | | | | | | | | | | |
| RCA Staff Costs | | | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 |
| Professional Services | | | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 |
| Loan Repayment 3 | | | \$1,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Other Total Annual | | | \$400,254 \$5,154,811 | \$400,254 \$5,154,811 | \$400,254 \$4,154,811 |
| Cumulative Costs | | | \$5,154,811 | \$10,309,622 | \$14,464,433 | \$18,619,244 | \$22,774,055 | \$26,928,866 | \$31,083,677 | \$35,238,488 | \$39,393,299 |
| | | | . , - ,- | | | . , -, - | . , ,=== | . , | . , | . ,, | , , , , , , , , |
| TOTAL ALL COSTS | | | | | | | | | A | | |
| TOTAL Annual TOTAL Cumulative | | | \$106,015,555 \$106,015,555 | \$106,252,426 \$212,267,981 | \$105,489,297 \$317,757,279 | \$105,726,168 \$423,483,447 | \$105,963,039 \$529,446,486 | \$106,199,910 \$635,646,396 | \$106,436,781 \$742,083,177 | \$106,673,652 \$848,756,829 | \$125,663,513 \$974,420,341 |
| TOTAL Cumulative | | | ψ100,010,005 | φ <u>∠ 1∠,∠01,30 l</u> | ψ311,131,219 | ψ 4 ∠3,403,447 | φυ ∠ υ,440,460 | φυ <i>ა</i> υ,υ40,ა90 | φ142,003,111 | φ040, <i>1</i> 30,029 | φ314,42U,34 I |
| | | | | | | | | | | | |

All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.
 RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 5 Year Extension

| | | | | | | | | | | End of: | | | | | | |
|----------------------------------------------------------|------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------------|-------------------------------|-------------------------------|--------------------------------------------------|-------------------------------|
| Habitat Lands/ Cost Items | Factors | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| COSt Items | | | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 |
| ACRES | | | | | | | | | | | | | | | | |
| Land Acuisition Costs Land Acquisition (Annual) | | | | | | | | | | | | | | | | |
| Local | | | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 |
| (less) HANS/JPR Dedications | | | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Total Local | | | 2,806 | 2,806 | 2,806 | 2,806 | 2,806 | 2,806 | 2,806 | 2,806 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 | 4,056 |
| State/Fed | | | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> | <u>2,457</u> |
| Total | | | 5,263 | 5,263 | 5,263 | 5,263 | 5,263 | 5,263 | 5,263 | 5,263 | 6,513 | 6,513 | 6,513 | 6,513 | 6,513 | 6,513 |
| Land Acquisition (Cumulativ Local ¹ | 'e) | | 42.040 | 45,825 | 48,631 | 51,437 | 54,243 | 57,050 | E0.0E0 | 62,662 | 66,719 | 70,775 | 74,831 | 78,887 | 82,944 | 97 000 |
| State/Fed | | | 43,018 24,065 | 45,825 26,521 | 28,978 | 31,434 | 33,891 | 36,347 | 59,856 38,804 | 62,662 41,261 | 43,717 | 70,775 46,174 | 48,630 | 76,667 51,087 | 53,543 | 87,000 56,000 |
| Local - HANS/JPR Dedications | 5 | | <u>1,250</u> | <u>2,500</u> | <u>3,750</u> | 5,000 | 6,250 | <u>7,500</u> | <u>8,750</u> | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | <u>10,000</u> | <u>10,000</u> |
| Total | | | 68,333 | 74,846 | 81,359 | 87,871 | 94,384 | 100,897 | 107,410 | 113,923 | 120,436 | 126,949 | 133,461 | 139,974 | 146,487 | 153,000 |
| Management and Monitoring | <u>Costs</u> | | | | | | | | | | | | | | | |
| Reserve Summary | Financi: | ol Booneneibilit | | | | | | | | | | | | | | |
| | Financia Monitoring | al Responsibility Management | | | | | | | | | | | | | | |
| State/ Federal | J | - | | | | | | | | | | | | | | |
| PQP ARL | RCA RCA | State/ Fed State | 282,000 24,065 | 282,000 26,521 | 282,000 28,978 | 282,000 31,434 | 282,000 33,891 | 282,000 36,347 | 282,000 38,804 | 282,000 41,261 | 282,000 43,717 | 282,000 46,174 | 282,000 48,630 | 282,000 51,087 | 282,000 53,543 | 282,000 56,000 |
| Total | NOA | State | 306,065 | 308,521 | 310,978 | 313,434 | 315,891 | 318,347 | 320,804 | 323,261 | 325,717 | 328,174 | 330,630 | 333,087 | 335,543 | 338,000 |
| <u>Local</u> | | | | | | | | | | | | | | | | |
| PQP ARL | RCA RCA | Non-RCA Local RCA | 65,000 44,268 | 65,000 48,325 | 65,000 52,381 | 65,000 56,437 | 65,000 60,493 | 65,000 64,550 | 65,000 68,606 | 65,000 72,662 | 65,000 76,719 | 65,000 80,775 | 65,000 84,831 | 65,000 88,887 | 65,000 92,944 | 65,000 97,000 |
| Total | RCA | KOA | 109,268 | 113,325 | 117,381 | 121,437 | 125,493 | 129,550 | 133,606 | 137,662 | 141,719 | 145,775 | 149,831 | 153,887 | 157,944 | 162,000 |
| | | | | • | · | · | | | | · | | , | | | | |
| Total Acres under RCA Mana Total Acres under RCA Moni | • | | 44,268 415,333 | 48,325 421,846 | 52,381 428,359 | 56,437 434,871 | 60,493 441,384 | 64,550 447,897 | 68,606 454,410 | 72,662 460,923 | 76,719 467,436 | 80,775 473,949 | 84,831 480,461 | 88,887 486,974 | 92,944 493,487 | 97,000 500,000 |
| | | | , | ,. | , | | , | , | , | ,. | , | , | | | , | |
| COSTS (all constant 2019 do Land Acquisition Costs | ollars) | | | | | | | | | | | | | | | |
| Local, ARL, Annual | \$14,288 | \$/Acre | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$40,096,188 | \$57,956,178 | \$57,956,178 | \$57,956,178 | \$57,956,178 | \$57,956,178 | \$57,956,178 |
| Land Transaction Costs | 5% | of acquisition costs | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,004,809 | \$2,897,809 | \$2,897,809 | \$2,897,809 | \$2,897,809 | \$2,897,809 | \$2,897,809 |
| Total, Land Acquisition Costs Local, ARL, Cumulative | | | \$42,100,997 \$42,100,997 | \$42,100,997 \$84,201,995 | \$42,100,997 \$126,302,992 | \$42,100,997 \$168,403,990 | \$42,100,997 \$210,504,987 | \$42,100,997 \$252,605,985 | \$42,100,997 \$294,706,982 | \$42,100,997 \$336,807,979 | \$60,853,987 \$397,661,967 | \$60,853,987 \$458,515,954 | \$60,853,987 \$519,369,941 | \$60,853,987 \$580,223,928 | \$60,853,987 \$641,077,915 | \$60,853,987 \$701,931,902 |
| | | | , -, · · · · , · · · · | 4 ,, | * , | * 100, 100, | 4 _ 10,00 1,001 | , | 4 ,, | 4 ,, | 4 001,001,001 | + · · · · · · · · · · · · · · · · · · · | 4 0.0,000,000 | ***** | * 0 * * * , 0 * * , 0 * * 0 | 4.5. ,55.,55. |
| Management and Monitoring Management, Annual | 1 Costs \$32.70 | \$/Acre | \$1,447,647 | \$1,580,295 | \$1,712,942 | \$1,845,589 | \$1,978,237 | \$2,110,884 | \$2,243,532 | \$2,376,179 | \$2,508,826 | \$2,641,474 | \$2,774,121 | \$2,906,768 | \$3,039,416 | \$3,172,063 |
| Management Cumulative | ψ32.70 | ψ/Acic | \$1,447,647 | \$3,027,942 | \$4,740,884 | \$6,586,474 | \$8,564,710 | \$10,675,595 | \$12,919,126 | \$15,295,305 | \$17,804,131 | \$20,445,605 | \$23,219,726 | \$26,126,494 | \$29,165,910 | \$32,337,973 |
| Manitarian Annual | #2.04 | C /A | \$4.054.007 | Φ4 074 0F4 | #4 000 000 | Φ4 040 F07 | #4.000.404 | ¢4 040 704 | #4 200 200 | Φ4 200 04 <i>E</i> | #4 400 C44 | #4 400 000 | Φ4 44 7 005 | Φ4 4C7 F00 | ¢4 407 440 | Φ4 F0C 77C |
| Monitoring, Annual Monitoring Cumulative | \$3.01 | \$/Acre | \$1,251,627 \$1,251,627 | \$1,271,254 \$2,522,880 | \$1,290,880 \$3,813,761 | \$1,310,507 \$5,124,268 | \$1,330,134 \$6,454,402 | \$1,349,761 \$7,804,163 | \$1,369,388 \$9,173,551 | \$1,389,015 \$10,562,566 | \$1,408,641 \$11,971,207 | \$1,428,268 \$13,399,476 | \$1,447,895 \$14,847,371 | \$1,467,522 \$16,314,893 | \$1,487,149 \$17,802,041 | \$1,506,776 \$19,308,817 |
| | | | | | | | | | | | | | | | | |
| Endowment Costs Net Endowment Funding, Annu | ual | | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 |
| Net Endowment Funding, Cum | | | \$13,180,608 | \$26,361,215 | \$39,541,823 | \$52,722,430 | \$65,903,038 | \$79,083,645 | \$92,264,253 | \$105,444,860 | \$118,625,468 | \$131,806,076 | \$144,986,683 | \$158,167,291 | \$171,347,898 | \$184,528,506 |
| Administrative Costs ² | | | | | | | | | | | | | | | | |
| RCA Staff Costs | | | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 |
| Professional Services | | | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 |
| Loan Repayment ³ | | | \$1,000,000 \$400,254 | \$1,000,000 \$400,354 | \$0 \$400.254 | \$0 \$400.354 | \$0 \$400.354 | \$0 \$400.354 | \$0 \$400.254 | \$0 \$400.354 | \$0 \$400.354 | \$0 \$400.254 | \$0 \$400.354 | \$0 \$400.354 | \$0 \$400.354 | \$0 \$400.254 |
| Other Total Annual Costs | | | \$400,254 \$5,154,811 | \$400,254 \$5,154,811 | \$400,254 \$4,154,811 | \$400,254 \$4,154,811 | \$400,254 \$4,154,811 | \$400,254 \$4,154,811 | \$400,254 \$4,154,811 |
| Cumulative Costs | | | \$5,154,811 | \$10,309,622 | \$14,464,433 | \$18,619,244 | \$22,774,055 | \$26,928,866 | \$31,083,677 | \$35,238,488 | \$39,393,299 | \$43,548,111 | \$47,702,922 | \$51,857,733 | \$56,012,544 | \$60,167,355 |
| TOTAL ALL COSTS | | | | | | | | | | | | | | | | |
| TOTAL Annual | | | \$63,135,690 | \$63,287,964 | \$62,440,239 | \$62,592,513 | \$62,744,787 | \$62,897,061 | \$63,049,335 | \$63,201,610 | \$82,106,873 | \$82,259,148 | \$82,411,422 | \$82,563,696 | \$82,715,970 | \$82,868,244 |
| TOTAL Cumulative | | | \$63,135,690 | \$126,423,655 | \$188,863,893 | \$251,456,406 | \$314,201,193 | \$377,098,254 | \$440,147,590 | \$503,349,199 | \$585,456,073 | \$667,715,220 | \$750,126,642 | \$832,690,338 | \$915,406,308 | \$998,274,552 |

^{1.} All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 10 Year Extension

| | | | | | | | | | | | | End of: | | | | | | | | | |
|------------------------------------------------|--------------|----------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Habitat Lands/ Cost Items | Factors | | 17 2020 | 18 2021 | 19 2022 | 20 2023 | 21 2024 | 22 2025 | 23 2026 | 24 2027 | 25 2028 | 26 2029 | 27 2030 | | 29 2032 | 30 2033 | | | 33 2036 | | 35 2038 |
| | | | 2020 | 2021 | 2022 | 2020 | 2021 | 2020 | 2020 | 2021 | 2020 | 2020 | 2000 | 2001 | 2002 | 2000 | 2001 | 2000 | 2000 | 2001 | 2000 |
| ACRES | | | | | | | | | | | | | | | | | | | | | |
| Land Acuisition Costs Land Acquisition (Annu | ıal\ | | | | | | | | | | | | | | | | | | | | |
| Local | iai) | | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 |
| (less) Anheuser Busch pu | urchase | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (less) HANS/JPR Dedica | tions | | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>-1,250</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Total Local | | | 1,739 | 1,739 | 1,739 | 1,739 | 1,739 | 1,739 | 1,739 | 1,739 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 | 2,989 |
| State/Fed | | | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> | <u>1,810</u> |
| Total | | | 3,549 | 3,549 | 3,549 | 3,549 | 3,549 | 3,549 | 3,549 | 3,549 | 4,799 | 4,799 | 4,799 | 4,799 | 4,799 | 4,799 | 4,799 | | 4,799 | 4,799 | 4,799 |
| Land Acquisition (Cum | ulative) | | | | | | | | | | | | | | | | | | | | |
| Local ¹ State/Fed | | | 41,951 23,418 | 43,690 25,228 | 45,429 27,038 | 47,167 | 48,906 30,659 | 50,645 32,469 | 52,384 34,279 | 54,123 36,089 | 57,112 37,899 | 60,100 39,709 | 63,089 41,519 | , | 69,067 45,139 | 72,056 46,949 | 75,045 48,760 | , | 81,022 52,380 | 84,011 54,190 | 87,000 56,000 |
| Local - HANS/JPR Dedication | ations | | 1,250 | 25,226 2,500 | 3,750 | 28,848 <u>5,000</u> | 6,250 | 7,500 | 8,750 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Total | | | 66,619 | 71,418 | 76,217 | 81,016 | 85,815 | 90,614 | 95,413 | 100,212 | 105,011 | 109,809 | 114,608 | | 124,206 | 129,005 | 133,804 | 138,603 | 143,402 | 148,201 | 153,000 |
| M | | | | | | | | | | | | | | | | | | | | | |
| Management and Monit Reserve Summary | | Responsibility | | | | | | | | | | | | | | | | | | | |
| Acces to cullillary | | Management | | | | | | | | | | | | | | | | | | | |
| State/ Federal | · | | | _ | _ | | _ | _ | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | | |
| PQP ARL | RCA RCA | State/ Fed State | 282,000 23,418 | 282,000 25,228 | 282,000 27,038 | 282,000 28,848 | 282,000 30,659 | 282,000 32,469 | 282,000 34,279 | 282,000 36,089 | 282,000 37,899 | 282,000 39,709 | 282,000 41,519 | 282,000 43,329 | 282,000 45,139 | 282,000 46,949 | 282,000 48,760 | 282,000 50,570 | 282,000 52,380 | 282,000 54,190 | 282,000 56,000 |
| Total | RCA | State | 305,418 | 307,228 | 309,038 | 310,848 | 312,659 | 314,469 | 316,279 | 318,089 | 319,899 | 321,709 | 323,519 | 325,329 | 327,139 | 328,949 | 330,760 | 332,570 | 334,380 | 336,190 | 338,000 |
| <u>Local</u> | | | 303,410 | 307,220 | 309,030 | 310,040 | 312,039 | 314,409 | 310,279 | 310,009 | 313,033 | 321,709 | 323,313 | 323,329 | 327,139 | 320,949 | 330,700 | 332,370 | 334,300 | 330,190 | 330,000 |
| PQP | RCA | Non-RCA Local | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 |
| ARL | RCA | RCA | 43,201 | 46,190 | 49,179 | 52,167 | <u>55,156</u> | 58,145 | 61,134 | 64,123 | 67,112 | 70,100 | 73,089 | 76,078 | 79,067 | 82,056 | 85,045 | 88,033 | 91,022 | 94,011 | 97,000 |
| Total | | | 108,201 | 111,190 | 114,179 | 117,167 | 120,156 | 123,145 | 126,134 | 129,123 | 132,112 | 135,100 | 138,089 | 141,078 | 144,067 | 147,056 | 150,045 | 153,033 | 156,022 | 159,011 | 162,000 |
| Total Acres under RCA | Management | | 43,201 | 46,190 | 49,179 | 52,167 | 55,156 | 58,145 | 61,134 | 64,123 | 67,112 | 70,100 | 73,089 | 76,078 | 79,067 | 82,056 | 85,045 | 88,033 | 91,022 | 94,011 | 97,000 |
| Total Acres under RCA | Monitoring | | 413,619 | 418,418 | 423,217 | 428,016 | 432,815 | 437,614 | 442,413 | 447,212 | 452,011 | 456,809 | 461,608 | 466,407 | 471,206 | 476,005 | 480,804 | 485,603 | 490,402 | 495,201 | 500,000 |
| COSTS (all constant 20 | 19 dollars) | | | | | | | | | | | | | | | | | | | | |
| Land Acquisition Costs | | | | | | | | | | | | | | | | | | | | | |
| Local, ARL, Annual | \$14,288 | | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$24,844,562 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 | \$42,704,552 |
| Land Transaction Costs | 5% | of acquisition costs | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$1,242,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 | \$2,135,228 |
| Total, Land Acquisition C | osts | | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$26,086,790 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 | \$44,839,780 |
| Local, ARL, Cumulative | | | \$26,086,790 | \$52,173,581 | \$78,260,371 | \$104,347,161 | \$130,433,952 | \$156,520,742 | \$182,607,532 | \$208,694,323 | \$253,534,102 | \$298,373,882 | \$343,213,662 | \$388,053,442 | \$432,893,222 | \$477,733,002 | \$522,572,782 | \$567,412,562 | \$612,252,342 | \$657,092,122 | \$701,931,902 |
| Management and Monit | toring Costs | | | | | | | | | | | | | | | | | | | | |
| Management, Annual | \$32.70 | \$/Acre | \$1,412,740 | \$1,510,480 | \$1,608,220 | \$1,705,961 | \$1,803,701 | \$1,901,441 | \$1,999,181 | \$2,096,921 | \$2,194,661 | \$2,292,402 | \$2,390,142 | \$2,487,882 | \$2,585,622 | \$2,683,362 | \$2,781,102 | \$2,878,843 | \$2,976,583 | \$3,074,323 | \$3,172,063 |
| Management Cumulative | • | | \$1,412,740 | \$2,923,220 | \$4,531,441 | \$6,237,402 | \$8,041,102 | \$9,942,543 | \$11,941,725 | \$14,038,646 | \$16,233,307 | \$18,525,709 | \$20,915,851 | \$23,403,733 | \$25,989,355 | \$28,672,717 | \$31,453,819 | \$34,332,662 | \$37,309,245 | \$40,383,568 | \$43,555,631 |
| Monitoring, Annual | \$3.01 | \$/Acre | \$1,246,462 | \$1,260,924 | \$1,275,386 | \$1,289,847 | \$1,304,309 | \$1,318,771 | \$1,333,233 | \$1,347,695 | \$1,362,157 | \$1,376,619 | \$1,391,081 | \$1,405,542 | \$1,420,004 | \$1,434,466 | \$1,448,928 | \$1,463,390 | \$1,477,852 | \$1,492,314 | \$1,506,776 |
| Monitoring Cumulative | ψ5.01 | Ψ/Ασισ | \$1,246,462 | \$2,507,386 | \$3,782,771 | \$5,072,619 | \$6,376,928 | \$7,695,699 | \$9,028,932 | \$10,376,627 | \$11,738,784 | \$13,115,403 | \$14,506,484 | \$15,912,026 | \$17,332,030 | \$18,766,497 | \$20,215,425 | \$21,678,815 | \$23,156,667 | \$24,648,980 | \$26,155,756 |
| - | | | | | | | | | | | | | | | | | | | | | |
| Endowment Costs | Ammund | | CO OCC 440 | fp.000.440 | CO OCC 440 | ¢0.000.440 | CO OCC 440 | CO OCC 440 | PR 000 440 | CD OCC 440 | CO OCC 440 | ¢0.000.440 | CO OCC 440 | ¢0.000.440 |
| Net Endowment Funding. Net Endowment Funding. | | | \$8,966,410 \$8,966,410 | \$8,966,410 \$17,932,819 | \$8,966,410 \$26,899,229 | \$8,966,410 \$35,865,639 | \$8,966,410 \$44,832,049 | \$8,966,410 \$53,798,458 | \$8,966,410 \$62,764,868 | \$8,966,410 \$71,731,278 | \$8,966,410 \$80,697,687 | \$8,966,410 \$89,664,097 | \$8,966,410 \$98,630,507 | \$8,966,410 \$107,596,917 | \$8,966,410 \$116,563,326 | \$8,966,410 \$125,529,736 | \$8,966,410 \$134,496,146 | \$8,966,410 \$143,462,556 | \$8,966,410 \$152,428,965 | \$8,966,410 \$161,395,375 | \$8,966,410 \$170,361,785 |
| - | , | | . , , | . , , | . , , | . , , | . , , | | . , , , | | . , , | . , , , | | | , , , | | | . , , | | | |
| Administrative Costs 2 | | | #0.052.125 | 40.000.100 | #0.000.10 = | #0.000.10 = | #0.032.12 | 00.000.105 | 00.000.10= | # 0 000 10= | #0.022.12 | 00.000.10= | 40.633.15 = | 00.000.10= | Фо осо 10- | A O 022 12= | 00.000.15= | 00.000.15= | 00.000.10= | # 0.000.105 | 00.000.105 |
| RCA Staff Costs Professional Services | | | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 | \$2,288,495 \$1,466,062 |
| Loan Repayment ³ | | | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,400,002 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 | \$1,466,062 |
| Other | | | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 | \$400,254 |
| Total Annual Costs | | | \$5,154,811 | \$5,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 | \$4,154,811 |
| Cumulative Costs | | | \$5,154,811 | \$10,309,622 | \$14,464,433 | \$18,619,244 | \$22,774,055 | \$26,928,866 | \$31,083,677 | \$35,238,488 | \$39,393,299 | \$43,548,111 | \$47,702,922 | \$51,857,733 | \$56,012,544 | \$60,167,355 | \$64,322,166 | \$68,476,977 | \$72,631,788 | \$76,786,599 | \$80,941,410 |
| TOTAL ALL COSTS | | | | | | | | | | | | | | | | | | | | | |
| TOTAL Annual | | | \$42,867,213 | \$42,979,415 | \$42,091,617 | \$42,203,819 | \$42,316,021 | \$42,428,223 | \$42,540,425 | \$42,652,627 | \$61,517,819 | \$61,630,021 | \$61,742,223 | \$61,854,425 | \$61,966,627 | \$62,078,829 | \$62,191,031 | \$62,303,233 | \$62,415,435 | \$62,527,637 | \$62,639,839 |
| TOTAL Cumulative | | | \$42,867,213 | \$85,846,628 | \$127,938,245 | \$170,142,065 | \$212,458,086 | \$254,886,309 | \$297,426,735 | \$340,079,362 | \$401,597,181 | \$463,227,202 | \$524,969,425 | \$586,823,850 | \$648,790,477 | \$710,869,307 | \$773,060,338 | \$835,363,571 | \$897,779,006 | \$960,306,644 | \$1,022,946,483 |
| | | | | | | | | | | | | | | | | | | | | | |

All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.
 RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.
 Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 15 Year Extension

| | | | | | | | | | | | | | | | End of: | | | | | | | | | | | |
|---------------------------------|------------------|---------------------|----------------------------|------------------------------|-----------------------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Habitat Lands | s/ Factors | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| Cost Items | | | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 |
| ACRES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Land Acquisition Land Acquisit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Local | | | 2,366 | 2,366 | 2,366 | | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 |
| (less) HANS/JI Total Local | PR Dedication: | S | <u>-1,250</u> 1,116 | <u>-1,250</u> 1,116 | <u>-1,250</u> 1,116 | <u>-1,250</u> 1,116 | <u>-1,250</u> 1,116 | | <u>-1,250</u> 1,116 | <u>-1,250</u> 1,116 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | <u>0</u> 2,366 | 2,366 | <u>0</u> 2,366 | 2,366 | 2,366 | 2,366 | 2,366 | <u>0</u> 2,366 |
| State/Fed | | | 1,433 | 1,433 | <u>1,433</u> | 1,433 | 1,433 | 1,433 | 1,433 | 1,433 | 1,433 | 1,433 | <u>1,433</u> | 1 422 | <u>1,433</u> | 1,433 | 1 422 | 1,433 | <u>1,433</u> | 1,433 | <u>1,433</u> | 1,433 | 1,433 | 1,433 | 1,433 | 1,433 |
| Total | | | 2,549 | 2,549 | 2,549 | | 2,549 | | 2,549 | 2,549 | 3,799 | 3,799 | 3,799 | <u>1,433</u> 3,799 | 3,799 | 3,799 | 1,433 3,799 | 3,799 | 3,799 | | 3,799 | | 3,799 | 3,799 | 3,799 | 3,799 |
| Land Acquisit Local 1 | tion (Cumulat | tive) | 41,328 | 42,444 | 43,561 | 44,677 | 45,793 | 46,909 | 48,025 | 49,141 | 51,508 | 53,874 | 56,240 | 58,606 | 60,972 | 63,338 | 65,705 | 68,071 | 70,437 | 72,803 | 75,169 | 77,535 | 79,902 | 82,268 | 84,634 | 87,000 |
| State/Fed | | | 23,041 | 24,474 | 25,907 | 27,340 | 28,773 | 30,206 | 31,639 | 33,072 | 34,505 | 35,938 | 37,371 | 38,804 | 40,237 | 41,670 | 43,103 | 44,536 | 45,969 | 47,402 | 48,835 | 50,268 | 51,701 | 53,134 | 54,567 | 56,000 |
| Local - HANS/. Total | JPR Dedication | ns | <u>1,250</u> 65,619 | <u>2,500</u> 69,418 | 3,750 73,218 | | 6,250 80,816 | <u>7,500</u> 84,615 | <u>8,750</u> 88,414 | <u>10,000</u> 92,213 | 10,000 96,013 | <u>10,000</u> 99,812 | <u>10,000</u> 103,611 | <u>10,000</u> 107,410 | <u>10,000</u> 111,209 | 10,000 115,008 | 10,000 118,808 | <u>10,000</u> 122,607 | 10,000 126,406 | 10,000 130,205 | 10,000 134,004 | 10,000 137,803 | 10,000 141,603 | 10,000 145,402 | <u>10,000</u> 149,201 | <u>10,000</u> 153,000 |
| | | 0 | | , | -, - | ,- | | - , | | - , - | ,- | ,- | | | , | -, | -, | , | ., | , | - , | . , | ,,,,, | -, - | -, - | , |
| Management Reserve | and Monitorin | ng Costs | | | | | | | | | | | | | | | | | | | | | | | | |
| Summary | | Responsibility | | | | | | | | | | | | | | | | | | | | | | | | |
| State/ Federal | Monitorin | ng Management | | | | | | | | | | | | | | | | | | | | | | | | |
| PQP ARL | RCA RCA | State/ Fed State | 282,000 23,041 | 282,000 24,474 | 282,000 25,907 | 282,000 27,340 | 282,000 28,773 | 282,000 30,206 | 282,000 31,639 | 282,000 33,072 | 282,000 34,505 | 282,000 35,938 | 282,000 37,371 | 282,000 38,804 | 282,000 40,237 | 282,000 41,670 | 282,000 43,103 | 282,000 44,536 | 282,000 45,969 | 282,000 47,402 | 282,000 48,835 | 282,000 50,268 | 282,000 51,701 | 282,000 53,134 | 282,000 54,567 | 282,000 <u>56,000</u> |
| Total | 11071 | Oldio | 305,041 | 306,474 | 307,907 | 309,340 | 310,773 | 312,206 | 313,639 | 315,072 | 316,505 | 317,938 | 319,371 | 320,804 | 322,237 | 323,670 | 325,103 | 326,536 | 327,969 | 329,402 | 330,835 | 332,268 | 333,701 | 335,134 | 336,567 | 338,000 |
| <u>Local</u> | DO4 | Non-RCA | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 | 05.000 |
| PQP ARL | RCA RCA | Local RCA | 65,000 42,578 | 65,000 44,944 | 65,000 47,311 | 65,000 49,677 | 65,000 52,043 | 65,000 54,409 | 65,000 56,775 | 65,000 59,141 | 65,000 61,508 | 65,000 <u>63,874</u> | 65,000 | 65,000 68,606 | 65,000 <u>70,972</u> | 65,000 <u>73,338</u> | 65,000 75,705 | 65,000 <u>78,071</u> | 65,000 <u>80,437</u> | 65,000 <u>82,803</u> | 65,000 <u>85,169</u> | 65,000 87,535 | 65,000 89,902 | 65,000 <u>92,268</u> | 65,000 94,634 | 65,000 <u>97,000</u> |
| Total | NOA | NOA | 107,578 | 109,944 | 112,311 | 114,677 | 117,043 | 119,409 | 121,775 | 124,141 | 126,508 | 128,874 | 66,240 131,240 | 133,606 | 135,972 | 138,338 | 140,705 | 143,071 | 145,437 | 147,803 | 150,169 | 152,535 | 154,902 | 157,268 | 159,634 | 162,000 |
| Total Acres I | under RCA Ma | inagement | 42,578 | 44,944 | 47.311 | 49.677 | 52,043 | 54,409 | 56,775 | 59,141 | 61,508 | 63,874 | 66,240 | 68,606 | 70,972 | 73,338 | 75,705 | 78,071 | 80,437 | 82,803 | 85,169 | 87,535 | 89,902 | 92,268 | 94,634 | 97,000 |
| | under RCA Mo | | 412,619 | 416,418 | 420,218 | - 1 - | 427,816 | 431,615 | 435,414 | 439,213 | 443,013 | 446,812 | 450,611 | 454,410 | 458,209 | 462,008 | 465,808 | 469,607 | 473,406 | 477,205 | 481,004 | 484,803 | 488,603 | 492,402 | 496,201 | 500,000 |
| COSTS (all co | onstant 2019 o | dollars) | | | | | | | | | | | | | | | | | | | | | | | | |
| Land Acquisit Local, ARL, | tion Costs | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annual | \$14,2 | 88 \$/Acre | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$15,947,780 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 | \$33,807,771 |
| Land Transact | tion | 5% of acquisition | \$797,389 | \$797,389 | \$797.389 | \$797,389 | \$797,389 | \$797,389 | \$797,389 | \$797,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 | \$1,690,389 |
| Costs | | costs | | | , , , , , , , , , , , , , , , , , , , , | | | | | | | | | | | | | | | | | | | | | |
| Total, Land Ac Local, ARL, | equisition Costs | 5 | , ., . | \$16,745,170 \$33,490,339 | \$16,745,170 \$50,235,509 | , ., | \$16,745,170 | \$16,745,170 \$100,471,017 | \$16,745,170 \$117,216,187 | \$16,745,170 \$133,961,356 | \$35,498,159 \$169,459,515 | \$35,498,159 \$204,957,674 | \$35,498,159 \$240,455,833 | \$35,498,159 \$275,953,992 | \$35,498,159 \$311,452,152 | \$35,498,159 \$346,950,311 | \$35,498,159 \$382,448,470 | \$35,498,159 \$417,946,629 | \$35,498,159 \$453,444,788 | \$35,498,159 \$488,942,947 | \$35,498,159 \$524,441,106 | \$35,498,159 \$559,939,265 | \$35,498,159 \$595,437,424 | \$35,498,159 \$630,935,583 | \$35,498,159 \$666,433,743 | \$35,498,159 \$701,931,902 |
| Cumulative | | | \$10,745,170 | \$33,49U,339 | \$50,235,509 | \$66,980,678 | \$83,725,848 | \$100,471,017 | \$117,210,107 | \$133,901,330 | \$109,459,515 | \$204,957,674 | \$240,455,655 | \$275,953,992 | \$311,452,152 | \$346,950,311 | \$302,440,47U | \$417,946,629 | \$455,444,766 | \$400,942,94 <i>1</i> | \$524,441,106 | Ф 559,959,265 | \$595,437,424 | \$03U,933,303 | \$666,433,743 | \$701,931,902 |
| | and Monitorin | ng Costs | | | | | | | | | | | | | | | | | | | | | | | | |
| Management, Annual | \$32. | 70 \$/Acre | \$1,392,378 | \$1,469,755 | \$1,547,133 | \$1,624,511 | \$1,701,888 | \$1,779,266 | \$1,856,643 | \$1,934,021 | \$2,011,399 | \$2,088,776 | \$2,166,154 | \$2,243,532 | \$2,320,909 | \$2,398,287 | \$2,475,664 | \$2,553,042 | \$2,630,420 | \$2,707,797 | \$2,785,175 | \$2,862,553 | \$2,939,930 | \$3,017,308 | \$3,094,685 | \$3,172,063 |
| Management | | | \$1,392,378 | \$2,862,133 | \$4,409,266 | \$6,033,776 | \$7,735,664 | \$9,514,930 | \$11,371,574 | \$13,305,595 | \$15,316,993 | \$17,405,770 | \$19,571,923 | \$21,815,455 | \$24,136,364 | \$26,534,651 | \$29,010,315 | \$31,563,357 | \$34,193,777 | \$36,901,574 | \$39,686,749 | \$42,549,302 | \$45,489,232 | \$48,506,540 | \$51,601,225 | \$54,773,288 |
| Cumulative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monitoring, Annual | \$3.0 | 01 \$/Acre | \$1,243,449 | \$1,254,898 | \$1,266,347 | \$1,277,796 | \$1,289,245 | \$1,300,694 | \$1,312,143 | \$1,323,592 | \$1,335,041 | \$1,346,490 | \$1,357,939 | \$1,369,388 | \$1,380,837 | \$1,392,286 | \$1,403,735 | \$1,415,184 | \$1,426,633 | \$1,438,082 | \$1,449,531 | \$1,460,980 | \$1,472,429 | \$1,483,878 | \$1,495,327 | \$1,506,776 |
| Monitoring | | | \$1,243,449 | \$2,498,347 | \$3,764,694 | \$5,042,490 | \$6,331,735 | \$7,632,429 | \$8,944,572 | \$10,268,163 | \$11,603,204 | \$12,949,694 | \$14,307,633 | \$15,677,021 | \$17,057,857 | \$18,450,143 | \$19,853,878 | \$21,269,062 | \$22,695,694 | \$24,133,776 | \$25,583,307 | \$27,044,286 | \$28,516,715 | \$30,000,593 | \$31,495,919 | \$33,002,695 |
| Cumulative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endowment C Net Endowmen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Funding, Annu | ıal | | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 |
| Net Endowmer Funding, | nt | | \$6.541.714 | \$13.083.429 | \$19.625.143 | \$26,166,857 | \$32,708,572 | \$39,250,286 | \$45,792,000 | \$52,333,715 | \$58,875,429 | \$65,417,143 | \$71,958,858 | \$78,500,572 | \$85,042,286 | \$91,584,001 | \$98,125,715 | \$104,667,429 | \$111,209,144 | \$117,750,858 | \$124,292,572 | \$130,834,286 | \$137,376,001 | \$143,917,715 | \$150,459,429 | \$157,001,144 |
| Cumulative | | | **,***,*** | * , | ***,*=*,*** | * , ·, · | **-,, | ***,=**,=** | *,, | *** ,****,*** | *************************************** | ***,, | * 1,000,000 | *,, | ****,***=,==** | ***,**** | ***, *=*, ** | *,, | *****,===,*** | ***** | *,, | ***** | ***** | * | ****** | *************************************** |
| Administrativ | e Costs 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCA Staff Cos | sts | | \$2,288,495 | \$2,288,495 | \$2,288,495 | | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 | \$2,288,495 |
| Professional S Loan Repayme | | | \$1,466,062 \$1,000,000 | \$1,466,062 \$1,000,000 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 | \$1,466,062 \$0 |
| Other | | | \$400,254 | \$400,254 | \$400,254 \$4.154.811 | | \$400,254 | \$400,254 \$4,154,911 | \$400,254 | \$400,254 \$4,154,911 | \$400,254 | \$400,254 \$4 154 811 | \$400,254 | \$400,254 | \$400,254 | \$400,254 \$4 154 911 | \$400,254 | \$400,254 \$4.154.811 | \$400,254 \$4.154.811 | \$400,254 \$4.154.911 | \$400,254 | \$400,254 | \$400,254 \$4.154.811 | \$400,254 | \$400,254 | \$400,254 |
| Total Annual C Cumulative Co | | | \$5,154,811 \$5,154,811 | \$5,154,811 \$10,309,622 | \$4,154,811 \$14,464,433 | \$4,154,811 \$18,619,244 | \$4,154,811 \$22,774,055 | \$4,154,811 \$26,928,866 | \$4,154,811 \$31,083,677 | \$4,154,811 \$35,238,488 | \$4,154,811 \$39,393,299 | \$4,154,811 \$43,548,111 | \$4,154,811 \$47,702,922 | \$4,154,811 \$51,857,733 | \$4,154,811 \$56,012,544 | \$4,154,811 \$60,167,355 | \$4,154,811 \$64,322,166 | \$4,154,811 \$68,476,977 | \$4,154,811 \$72,631,788 | \$4,154,811 \$76,786,599 | \$4,154,811 \$80,941,410 | \$4,154,811 \$85,096,221 | \$4,154,811 \$89,251,032 | \$4,154,811 \$93,405,843 | \$4,154,811 \$97,560,654 | \$4,154,811 \$101,715,465 |
| TOTAL ALL C | COSTS | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL Annua | ıl | | | | | \$30,344,001 | \$30,432,828 | | \$30,610,481 | \$30,699,308 | \$49,541,124 | | \$49,718,777 | \$49,807,604 | \$49,896,430 | \$49,985,257 | \$50,074,084 | \$50,162,910 | \$50,251,737 | | \$50,429,390 | | \$50,607,043 | \$50,695,870 | \$50,784,697 | \$50,873,523 |
| TOTAL Cumul | lative | | \$31,077,521 | \$62,243,870 | \$92,499,044 | \$122,843,046 | \$153,275,874 | \$183,797,528 | \$214,408,009 | \$245,107,317 | \$294,648,441 | \$344,278,392 | \$393,997,169 | \$443,804,773 | \$493,701,203 | \$543,686,460 | \$593,760,544 | \$643,923,454 | \$694,175,191 | \$744,515,754 | \$794,945,144 | \$845,463,361 | \$896,070,404 | \$946,766,274 | \$997,550,971 | \$1,048,424,494 |

All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.
 RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.
 Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

APPENDIX II:

Detailed Time Series of Endowment Funding



Annual Cost Estimate for Management and Monitoring, Constant 2019\$

| Cost Categories | Annual Cost by Last Year of Land Acquisition Period | Adjustment | Annual Post-Land Acquisition Cost |
|-----------------------------|--------------------------------------------------------------|------------|--------------------------------------|
| Ongoing Habitat Management | \$3,172,063 | 100% | \$3,172,063 |
| Ongoing Habitat Monitoring | \$1,506,776 | 100% | \$1,506,776 |
| Administration ¹ | \$4,154,811 | 50% | \$2,077,406 |
| Total | \$8,833,650 | | \$6,756,244 |

^{1.} Adminsitration includes salaries and benefits, accounting, auditing and reporting, contracts, etc.. Assumes less administration is needed following the land acquisition period; ongoing adminsitrative needs include oversight, auditing and reporting, and board staffing.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.



Endowment Funding – No Extension Scenario

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Post-Permit |
|-------------------------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|-------------|
| New Impact Acres (avg. annual) | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | |
| Average Per Acre Endowment Fee | \$9,845 | \$9,845 | \$9,845 | \$9,845 | \$9,845 | \$9,845 | \$9,845 | \$9,845 | \$9,845 | |
| Annual Endowment Funding | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | \$22,168,105 | |
| Endowment Balance | \$22,168,105 | \$44,336,210 | \$67,169,359 | \$90,687,502 | \$114,911,189 | \$139,861,586 | \$165,560,496 | \$192,030,373 | \$219,294,346 | |
| Annual Interest | \$0 | \$665,043 | \$1,350,038 | \$2,055,582 | \$2,782,293 | \$3,530,804 | \$4,301,772 | \$5,095,868 | \$5,913,787 | |
| Cumulative Interest Earnings | \$0 | \$665,043 | \$2,015,081 | \$4,070,663 | \$6,852,955 | \$10,383,760 | \$14,685,531 | \$19,781,399 | \$25,695,187 | |
| Total Endowment | \$22,168,105 | \$45,001,254 | \$68,519,396 | \$92,743,083 | \$117,693,481 | \$143,392,391 | \$169,862,268 | \$197,126,241 | \$225,208,133 | |
| Average Annual Post Permit Interest | | | | | | | | | | \$6,756,244 |

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

<u>Assumptions</u>

20,265 impact acres developed

9 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate

\$9,845 Endowment Funding Per Acre of Conservation

Endowment Funding – 5 Year Extension Scenario

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Post-Permit |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| New Impact Acres (avg. annual) | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | |
| Average Per Acre Endowment Fee | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | \$5,854 | |
| Annual Endowment Funding | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | \$13,180,608 | |
| Endowment Balance | \$13,180,608 | \$26,361,215 | \$39,937,241 | \$53,920,547 | \$68,323,353 | \$83,158,243 | \$98,438,180 | \$114,176,514 | \$130,386,999 | \$147,083,799 | \$164,281,502 | \$181,995,136 | \$200,240,180 | \$219,032,574 | |
| Annual Interest | \$0 | \$395,418 | \$802,699 | \$1,222,198 | \$1,654,282 | \$2,099,329 | \$2,557,727 | \$3,029,877 | \$3,516,192 | \$4,017,096 | \$4,533,027 | \$5,064,436 | \$5,611,787 | \$6,175,559 | |
| Cumulative Interest Earnings | \$0 | \$395,418 | \$1,198,117 | \$2,420,315 | \$4,074,598 | \$6,173,927 | \$8,731,654 | \$11,761,531 | \$15,277,723 | \$19,294,819 | \$23,827,846 | \$28,892,281 | \$34,504,069 | \$40,679,628 | |
| Total Endowment | \$13,180,608 | \$26,756,633 | \$40,739,940 | \$55,142,746 | \$69,977,636 | \$85,257,572 | \$100,995,907 | \$117,206,392 | \$133,903,191 | \$151,100,894 | \$168,814,529 | \$187,059,572 | \$205,851,967 | \$225,208,133 | |
| Average Annual Post Permit Interes | t | | | | | | | | | | | | | | \$6,756,24 |

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

<u>Assumptions</u>

31,523 impact acres developed

14 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate

\$5,854 Endowment Funding Per Acre of Conservation

Endowment Funding – 10 Year Extension Scenario

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Post-Permit |
|-------------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| New Impact Acres (avg. annual) | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | |
| Average Per Acre Endowment Fee | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | \$3,982 | |
| Annual Endowment Funding | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | \$8,966,410 | |
| Endowment Balance | \$8,966,410 | \$17,932,819 | \$27,168,221 | \$36,680,686 | \$46,478,524 | \$56,570,297 | \$66,964,823 | \$77,671,185 | \$88,698,738 | \$100,057,118 | \$111,756,249 | \$123,806,354 | \$136,217,962 | \$149,001,918 | \$162,169,393 | \$175,731,892 | \$189,701,266 | \$204,089,722 | \$218,909,831 | |
| Annual Interest | \$0 | \$268,992 | \$546,054 | \$831,428 | \$1,125,363 | \$1,428,117 | \$1,739,952 | \$2,061,143 | \$2,391,970 | \$2,732,721 | \$3,083,695 | \$3,445,198 | \$3,817,547 | \$4,201,065 | \$4,596,089 | \$5,002,964 | \$5,422,046 | \$5,853,699 | \$6,298,303 | |
| Cumulative Interest Earnings | \$0 | \$268,992 | \$815,047 | \$1,646,475 | \$2,771,838 | \$4,199,955 | \$5,939,907 | \$8,001,051 | \$10,393,020 | \$13,125,742 | \$16,209,437 | \$19,654,635 | \$23,472,182 | \$27,673,247 | \$32,269,336 | \$37,272,301 | \$42,694,347 | \$48,548,046 | \$54,846,349 | |
| Total Endowment | \$8,966,410 | \$18,201,812 | \$27,714,276 | \$37,512,114 | \$47,603,887 | \$57,998,413 | \$68,704,775 | \$79,732,328 | \$91,090,708 | \$102,789,839 | \$114,839,944 | \$127,251,552 | \$140,035,508 | \$153,202,983 | \$166,765,482 | \$180,734,856 | \$195,123,312 | \$209,943,421 | \$225,208,133 | |
| Average Annual Post Permit Interest | | | | | | | | | | | | | | | | | | | | \$6,756,244 |

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

Assumptions 42,782 impact acres developed 19 year plan
3% interest rate (real, net)
\$6,756,244 annual post-permit cost estimate
\$3,982 Endowment Funding Per Acre of Conservation

Endowment Funding – 15 Year Extension Scenario

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| New Impact Acres (avg. annual) | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 |
| Average Per Acre Endowment Fee | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 |
| Annual Endowment Funding | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 |
| Endowment Balance | \$6,541,714 | \$13,083,429 | \$19,821,394 | \$26,761,499 | \$33,909,807 | \$41,272,564 | \$48,856,204 | \$56,667,353 | \$64,712,836 | \$72,999,684 | \$81,535,138 | \$90,326,655 | \$99,381,917 | \$108,708,838 | \$118,315,566 |
| Annual Interest | \$0 | \$196,251 | \$398,390 | \$606,594 | \$821,043 | \$1,041,925 | \$1,269,435 | \$1,503,769 | \$1,745,134 | \$1,993,739 | \$2,249,803 | \$2,513,548 | \$2,785,206 | \$3,065,014 | \$3,353,216 |
| Cumulative Interest Earnings | \$0 | \$196,251 | \$594,642 | \$1,201,235 | \$2,022,278 | \$3,064,204 | \$4,333,638 | \$5,837,407 | \$7,582,541 | \$9,576,280 | \$11,826,083 | \$14,339,631 | \$17,124,837 | \$20,189,851 | \$23,543,067 |
| Total Endowment | \$6,541,714 | \$13,279,680 | \$20,219,785 | \$27,368,093 | \$34,730,850 | \$42,314,490 | \$50,125,639 | \$58,171,122 | \$66,457,970 | \$74,993,424 | \$83,784,941 | \$92,840,203 | \$102,167,123 | \$111,773,852 | \$121,668,781 |

Average Annual Post Permit Interest

| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Post-Permit |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | 2,252 | |
| \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | \$2,905 | |
| \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | \$6,541,714 | |
| \$128,210,496 | \$138,402,273 | \$148,899,805 | \$159,712,262 | \$170,849,092 | \$182,320,028 | \$194,135,092 | \$206,304,607 | \$218,839,209 | |
| \$3,650,063 | \$3,955,817 | \$4,270,743 | \$4,595,116 | \$4,929,221 | \$5,273,349 | \$5,627,801 | \$5,992,887 | \$6,368,925 | |
| \$27,193,130 | \$31,148,947 | \$35,419,689 | \$40,014,806 | \$44,944,027 | \$50,217,377 | \$55,845,178 | \$61,838,065 | \$68,206,990 | |
| \$131,860,559 | \$142,358,090 | \$153,170,547 | \$164,307,378 | \$175,778,314 | \$187,593,377 | \$199,762,893 | \$212,297,494 | \$225,208,133 | |

\$6,756,244

Assumptions

54,040 impact acres developed

24 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate

\$2,905 Endowment Funding Per Acre of Conservation

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

Appendix G - TUMF 2016 Program Update Disposition of Network Change Requests

As part of the 2024 update of the TUMF Nexus Study, the list of proposed improvements to mitigate the cumulative regional impacts of new development in the TUMF Network Cost Estimate table included in the previously adopted Nexus Study was reviewed for accuracy. In particular, the Network Cost table was reviewed to ensure the included projects were consistent with the mitigation needs identified by the RivCoM future year no-build traffic conditions.

To assist in the review of the Network Cost Estimate table, participating local jurisdictions, private developers and the Riverside County Transportation Commission were asked to submit requests for changes to the TUMF Network. The various requests for network changes were subsequently reviewed for consistency with the program guidelines for inclusion on the TUMF Network and to determine if future traffic impacts would be sufficient to require mitigation primarily utilizing the RivCoM future no-build scenario outputs to quantify impacts as well as screening the various qualitative measures that have guided the TUMF Network development since program inception.

Based on the findings of the review of the entire TUMF network, elements of specific projects were revised to reflect only necessary network corrections, modifications to project assumptions and to incorporate a limited number of additional improvements. The preliminary results of the network review and the associated screening of specific requested projects was presented to the WRCOG Public Works Directors Committee (PWC) in August 2023. Updated screening results were presented to the PWC in February 2024 and the findings endorsed confirming the TUMF Network as the basis for the Draft 2024 Nexus Study that was subsequently presented to the PWC for review and comment in April 2024. A matrix summarizing the disposition of the specific project requests received as part of the 2024 TUMF Nexus Update is included as **Exhibit G-1** in this Appendix.

With the release of the Draft 2024 Nexus Update Study Report for a formal review period commencing on May 14, 2024, and ending on June 10, 2024, additional comments were provided to WRCOG staff by thirteen participating jurisdictions or other stakeholders. These comments were reviewed by WRCOG staff and responses were provided to each of the parties that submitted comments. The responses included several changes to the TUMF network to remedy typographical errors contained in the draft report, including misreporting in the number of existing lanes, project percent complete and interchange project type for approximately 10 TUMF network segments. The recommended network revisions were presented to the PWC on August 8, 2024, and are reflected in the TUMF network cost table included in **Exhibit H-1**.

Northwest Zone

| City/ County | Street Name | From | То | Recommendation |
|-----------------|---------------------|--------------------|--------------|---------------------------------------------------------------------------------------------------|
| Eastvale | Hellman | River Road | Walter | Add to network for continuity and mitigate future v/c deficiency |
| Eastvale | Hellman | Schleisman | Walter | Add to network for continuity and mitigate future v/c deficiency |
| Eastvale | Hellman | Cucamonga Creek | bridge | Add to network for continuity and mitigate future v/c deficiency |
| Eastvale | River Rd | Archibald | Hellman | Add to network for continuity and mitigate future v/c deficiency |
| Eastvale | Limonite ITS | city wide | | Add to network for deficient links with no capacity increase |
| Eastvale | Hamner ITS | city wide | | Add to networks for deficient links with no capacity increase |
| Eastvale | Schliesman ITS | city wide | | Add to networks for deficient links with no capacity increase |
| Eastvale | Archibald ITS | city wide | | Add to networks for deficient links with no capacity increase |
| Eastvale | Limonite | Cucamonga Creek | bridge | Bridge length increased to 500' |
| Riverside | 3rd | Chicago | Iowa | Do not add - no V/C deficiency and interchange overcrossing reconstructed to 4 lanes in 2006-2007 |
| Riverside | La Sierra ITS | SR-91 | Victoria | Add to network for deficient links with no capacity increase |
| Riverside | Madison ITS | SR-91 | Victoria | Add to network for deficient links with no capacity increase |
| Riverside | University ITS | Market St | Canyon Crest | Add to network for deficient links with no capacity increase |
| Riverside | Tyler ITS | California Ave | Indiana Ave | Do not add - no V/C deficiency |
| Riverside | Alessandro Blvd ITS | Fairview Ave | Meridian | Add to network for deficient links with no capacity increase |
| County | Markham St | Mockingbird Canyon | Wood Rd | Do not add - no regional connectivity or V/C deficiency |

| al Zone | | | | |
|-----------------|----------------|--------------------|-------------------|------------------------------------------------------------------|
| City/ County | Street Name | From | То | Recommendation |
| Menifee | Garbani | Haun | Antelope | Do not add - no future v/c deficiency |
| Menifee | Garbani | I-215 | interchange | Add to network to mitigate future v/c deficiency |
| Menifee | Garbani | I-215 | Menifee | Do not add - no future v/c deficiency |
| Menifee | Garbani | Menifee | Briggs | Do not add - no future v/c deficiency |
| Menifee | Holland | City Limits (West) | Murrieta | Do not add - no future v/c deficiency |
| Menifee | Holland | Murrieta | Bradley | Add to network for continuity and mitigate future v/c deficiency |
| Menifee | Holland | Bradley | Haun | Add to network for continuity and mitigate future v/c deficiency |
| Menifee | Holland | Antelope | Muenifee | Add to network for continuity and mitigate future v/c deficiency |
| Menifee | Scott | Haun | Menifee | Already on TUMF Network |
| Menifee | Scott | Menifee | Briggs | Already on TUMF Network |
| Menifee | Scott | Sunset | Murrieta | Already on TUMF Network |
| Menifee | Briggs | Simpson | Angler | Already on TUMF Network |
| Menifee | Briggs | Salt Creek | bridge | Already on TUMF Network |
| Perris | Ethanac | Bridge | San Jacinto River | Already on TUMF Network |
| Unincorporated | Grand Ave | Briggs Rd | SR-79 | Do not add - no future v/c deficiency |

San Jacinto Zone

| City/ County | Street Name | From | То | Recommendation |
|-----------------|----------------|----------------------------|-----------------------|---------------------------------------------------------|
| Hemet | Stetson | Warren | 0.85 Miles w/o Warren | Do not add - no regional connectivity or V/C deficiency |
| San Jacinto | 7th St | Western Terminus | Warren Rd | Do not add - no future v/c deficiency |
| San Jacinto | 7st St | Channel adjacent to Warren | bridge | Do not add - no future v/c deficiency |

Pass Zone

| City/ County | Street Name | From | То | Recommendation |
|-----------------|------------------|------------------|---------------|--------------------------------------------------|
| Banning | Highland Springs | Cherry Valley | Oak Valley | Already on TUMF Network - no v/c deficiency |
| Banning | Cottonwood | I-10 | interchange | Do not add - no connectivity to regional network |
| Banning | Wilson | Highland Springs | Highland Home | Already on TUMF Network - no v/c deficiency |
| Banning | Sun Lakes | Smith Creek | bridge | Segment already on TUMF Network - Bridge added |

Southwest Z

| t Zone | | | | |
|-----------------|--------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------|
| City/ County | Street Name | From | То | Recommendation |
| Lake Elsinore | Camino del Norte | Summerhill | Main | Do not add - no connectivity to regional network |
| Lake Elsinore | Summerhill | Railroad Canyon | Greenwald | Do not add - no regional connectivity or V/C deficiency |
| Lake Elsinore | Nichols | I-15 | Lake | Already on TUMF Network |
| Wildomar | Inland Valley Dr | I-15 | bridge | Do not add - no connectivity to regional network |
| Wildomar | Palomar | Starbuck | Washington | Already on TUMF Network |
| Wildomar | Bundy Canyon | I-15 | City Limits (Sunset) | Already on TUMF Network |
| Murrieta | Orange Springs Parkway | Clinton Keith | Scott | Do not add - no regional connectivity or V/C deficiency |
| Murrieta | Calle del Oso Oro | Vineyard Pkwy | Washington | Do not add - no regional connectivity or V/C deficiency |
| Murrieta | Calle del Oso Oro | 1500 w/o Vineyard Pkwy | bridge | Do not add - no regional connectivity or V/C deficiency |
| Murrieta | Adams | Murrieta Hot Springs/Hawthorne | Cherry | Do not add - no regional connectivity or V/C deficiency |
| Temecula | Ynez Road | Rancho California | Santiago | Do not add - no connectivity to regional network |
| Temecula | Ynez Road/DePortola Road | Santiago | Margarita | Do not add - no connectivity to regional network |
| Temecula | ITS | Major Arterials (Winchester, Rancho California, Butterfield Stage, Temecula Pkwy, Margarita, Jefferson | City limits | Add to network for deficient links with no capacity increase |

Appendix H - TUMF Network Cost Estimate and Evaluation

For the purpose of calculating the "fair share" fee to be applied to new development under the TUMF program, a planning level cost estimate was developed to reflect the cost to complete improvements to the Regional System of Highways and Arterials to adequately accommodate future traffic growth. The planning level cost estimate was established by applying the unit cost values (presented in **Table 4.1**) to the proposed changes identified for the future Regional System of Highways and Arterials. The resultant cost value was tabulated for each unique segment of the network, by improvement type, based on the proposed list of improvements recommended following the review of the TUMF Network (as described in **Section 4.3**, **Appendix E** and **Appendix G**). A separate cost estimate was generated for regional transit improvements based on information provided by RTA and added to the summary table. The TUMF Network cost estimate table is summarized in **Table 4.4** of the Nexus Report. The detailed TUMF Network cost estimate table is included in this Appendix as **Exhibit H-1**. The detailed TUMF transit cost estimate table is included as **Table 4.5** of the Nexus Report.

Where existing obligated funding has previously been secured through traditional funding sources to complete necessary improvements to the TUMF Network, the cost of these improvements will not be recaptured from future developments through the TUMF program. As a result, the TUMF network cost was adjusted accordingly to reflect the availability of obligated funds.

WRCOG staff, in consultation with RCTC staff, reviewed the current Regional Transportation Improvement Program (RTIP) to identify transportation projects on the TUMF network that had previously secured alternate sources of funding. **Exhibit H-2** identifies those projects included on the TUMF Network having previously obligated funding.

To account for existing needs in the original TUMF Nexus Study, the cost for facilities identified as currently experiencing LOS E or F was adjusted by extracting the share of the cost to improve the portion of those facilities identified in the 2018 Baseline network scenario with a volume to capacity ratio of greater than 0.90, which is the threshold for LOS E. The adjustment to account for existing need as part of the TUMF Nexus Study provides for the mitigation of incremental traffic growth on those facilities with existing need.

The following approach was applied to account for incremental traffic growth associated with new development as part of the existing need methodology:

- 1. 1. Facilities with an existing need were identified by reviewing the RivCoM 2018 Baseline scenario assigned traffic on the 2021 existing network and delineating those facilities included on the TUMF Cost Fee Summary Table that have an average directional v/c exceeding 0.90.
 - a. Weighted directional v/c values were used to determine existing need for network segments, which was calculated by:

- i. Determining the length for the portion of each segment (model link), and calculating the ratio of link length to the overall segment length
- ii. Generating the average directional v/c for each link, for both directions in AM and PM periods, and multiplying by link/segment length ratio
- iii. Determining the maximum peak-period peak-direction v/c for each link, representing the highest directional v/c in either AM or PM
- iv. Calculating weighted average v/c for each TUMF segment, based on the sum of all weighted max v/c values of each link within a segment
- b. A similar method was used to determine existing need for spot improvements including interchanges, railroad crossings and bridges. However, no weighting was used in the calculation of existing need for spot improvements. For these facilities, the peak-period peak-direction v/c values (highest directional v/c in either AM or PM) were utilized in the existing need calculation. This was based on the individual link within a network segment where a bridge or railroad crossing is located, or on-and off-ramps in the case of interchanges.
- 2. Initial costs of addressing the existing need were calculated by estimating the share of a particular roadway segments "new lane" cost, or individual spot improvement cost (including all associated ROW and soft costs).
- 3. Incremental growth in v/c was determined by comparing the average directional base year v/c for the TUMF facilities (delineated under step one) with the horizon year v/c for the corresponding segments and spot improvements calculated based on the RivCoM 2045 No-Build scenario assigned traffic on the 2021 existing network using the same methodology as the base year v/c.
- 4. The proportion of the incremental growth attributable to new development was determined by dividing the result of step three with the total 2045 No-Build scenario v/c in excess of LOS E.
- 5. For those segments experiencing a net increase in v/c over the base year, TUMF will 'discount' the cost of existing need improvements by the proportion of the incremental v/c growth through 2045 No-Build compared to the 2018 Baseline v/c (up to a maximum of 100%).

Exhibit H-2 includes a detailed breakdown of the existing highway improvement needs on the TUMF network, including the associated unfunded improvement cost estimate for each segment experiencing unacceptable LOS.

For transit service improvements, the cost to provide for existing demand was determined by multiplying the total transit component cost by the share of future

projected daily bus transit ridership representing existing demand. **Exhibit H-3** reflects the calculation of the existing transit need share and the existing transit need cost.

To validate the effectiveness of the TUMF Network improvements to mitigate the cumulative regional transportation impacts of new development in Western Riverside County, the future TUMF Network was evaluated. The proposed improvements to the Regional System of Highways and Arterials were coded on the 2021 existing network derived from RivCoM and the model was run to determine the relative impacts on traffic conditions. To quantify the impacts of the TUMF Network improvements, the various traffic measures of effectiveness described in **Section 3.1** for the 2018 Baseline and 2045 No-Build scenarios were calculated for the 2045 TUMF Build network scenario. The results for VMT, VHT, VHD, and total VMT experiencing unacceptable level of service (LOS E) were then compared to the results presented in **Table 3.1** for the no-build conditions. The consolidated results are provided in **Table 4.6**.

Updated: July 23, 2024

| AREA PLAN D | | STREETNAME | SEGMENTFROM | SEGMENTTO | NETWORK | MILES EXISTINGL | N FUTURELN | % COMPLETE INCREA | ASELN MILES TOPO | LANDUSE INTERCHO | BRIDGE | RRXING ITS | NE | EWLNCOST RO | OWCOST IN | ITCHGCOST | BRDGCOST RRXC | COST ITSCOST | PLN | NG ENG | ; CO | ONTIG TO | | XIMUM TUMF SHARE |
|------------------------|--------------------------------|--------------------------------------------------|---------------------------------------------|--------------------------------------------------|----------------------|-----------------|------------|-------------------|------------------|------------------|--------|--------------|----|----------------------------|----------------------------|--------------|---------------------|---------------------|------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|
| Central Central | Menifee Menifee | Ethanac Ethanac | Goetz Murrieta | Murrieta I-215 | Backbone Backbone | 0.99 0.90 | 4 4 | 0% 0% | 0.00 | 1 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Menifee | Ethanac | I-215 | interchange | Backbone | 0.00 | 0 0 | 0% | 0.00 | 1 2 | 3 | 0 0 | 0 | \$0 | \$0 \$0 | \$22,550,000 | \$0 | \$O | \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$32,698,000 |
| Central Central | Menifee Menifee | Ethanac Ethanac | Sherman BNSF San Jacinto Branch | Matthews railroad crossina | Backbone Backbone | 0.61 | 2 4 | 0% 0% | 1.23 0.00 | 1 3 | 0 | 0 0 | 0 | \$1,388,000 | \$601,000 | \$0 | \$0 \$0 | \$0 \$72,800,000 | \$0 \$0 | \$139,000 \$7,280,000 | \$347,000 \$18,200,000 | \$199,000 \$7,280,000 | \$2,674,000 \$105,560,000 | \$2,674,000 \$105,560,000 |
| Central | Menifee | Menifee | SR-74 (Pinacate) | Simpson | Backbone | 2.50 | 2 4 | 88% | 0.60 | 1 3 | 0 | 0 0 | 0 | \$678,000 | \$294,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$68,000 | \$170,000 | \$97,000 | \$1,307,000 | \$1,307,000 |
| Central | Menifee Menifee | Menifee Menifee | Salt Creek | bridge | Backbone | 0.00 | 2 4 | 0% | 0.00 | 1 3 | 0 | 315 0 | 0 | \$0 | \$0 | \$0 | | \$0 | \$0 | \$302,000 | \$756,000 | \$302,000 | \$4,384,000 | \$4,384,000 |
| Central Central | Menifee | Menifee | Simpson Aldergate | Aldergate Newport | Backbone Backbone | 0.64 | 4 4 | 0% 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Menifee | Menifee | Newport | Holland | Backbone | 1.07 | 4 4 | 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Menifee Menifee | Menifee Menifee | Holland Garbani | Garbani Scott | Backbone Backbone | 1.03 | 4 4 | 0% 0% | 0.00 2.00 | 1 3 | 0 | 0 0 | 0 | \$2,260,000 | \$0 \$978,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$226,000 | \$0 \$565,000 | \$0 \$324,000 | \$0 \$4,353,000 | \$0 \$4,353,000 |
| Central | Menifee | Menifee/Whitewood | Scott | Murrieta City Limit | Backbone | 0.53 | 4 4 | 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Menifee Menifee | Newport Newport | Goetz Murrieta | Murrieta I-215 | Backbone Backbone | 1.81 | 6 6 | 0% 87% | 0.00 0.52 | 1 3 | 0 | 0 0 | 0 | \$586,000 | \$0 \$254,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$59,000 | \$0 \$147,000 | \$0 \$84,000 | \$0 \$1,130,000 | \$0 \$1,130,000 |
| Central | Menifee | Newport | I-215 | Menifee | Backbone | 1.02 | 6 6 | 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Menifee Menifee | Newport Newport | Menifee Lindenberger | Lindenberger SR-79 (Winchester) | Backbone Backbone | 0.77 3.58 | 6 6 | 0% 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Menifee | Scott | I-215 | Briggs | Backbone | 1.98 | 4 6 | 0% | 3.96 | 1 3 | 0 | 0 0 | Ō | \$4,483,000 | \$1,941,000 | \$0 | \$0 | \$0 | \$0 | \$448,000 | \$1,121,000 | \$642,000 | \$8,635,000 | \$8,635,000 |
| Central Central | Menifee Menifee | Scott Scott | I-215 Sunset | interchange Murrieta | Backbone Backbone | 0.00 1.01 | 0 0 | 0% 0% | 0.00 2.01 | 1 3 | 0 | 0 0 | 0 | \$0 \$2,278,000 | \$0 \$986,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$228,000 | \$0 \$570,000 | \$0 \$326,000 | \$0 \$4,388,000 | \$0 \$4,388,000 |
| Central | Menifee | Scott | Murrieta | 1-215 | Backbone | 1.94 | 2 6 | 0% | 7.77 | 1 3 | 0 | 0 0 | 0 | \$8,799,000 | \$3,809,000 | \$0 | \$0 | \$0 | \$0 | \$880,000 | \$2,200,000 | \$1,261,000 | \$16,949,000 | \$12,949,000 |
| Central Central | Menifee Moreno Valle | SR-74 Alessandro | Matthews I-215 | Briggs Perris | Backbone Backbone | 1.89 3.52 | 4 6 | 0% 75% | 3.79 1.76 | 1 3 | 0 | 0 0 | 0 | \$4,285,000 \$1,992,000 | \$1,855,000 \$9,574,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$429,000 \$199,000 | \$1,071,000 \$498,000 | \$614,000 \$1,157,000 | \$8,254,000 \$13,420,000 | \$8,254,000 \$13,420,000 |
| Central | Moreno Valle | / Alessandro | Perris | Nason | Backbone | 2.00 | 2 2 | 0% | 0.00 | 1 2 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valle Moreno Valle | | Nason Moreno Beach | Moreno Beach Gilman Springs | Backbone Backbone | 0.99 4.13 | 2 2 | 0% 0% | 0.00 8.26 | 1 2 | 0 | 0 0 | 0 | \$9,355,000 | \$0 \$4,049,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$936,000 | \$2,339,000 | \$0 \$1,340,000 | \$0 \$18,019,000 | \$0 \$18,019,000 |
| Central | Moreno Valle | Gilman Springs | SR-60 | Alessandro | Backbone | 1.67 | 2 4 | 0% | 3.34 | 1 3 | 0 | 0 0 | 0 | \$3,785,000 | \$1,639,000 | \$0 | \$0 | \$0 | \$0 | \$379,000 | \$946,000 | \$542,000 | \$7,291,000 | \$7,291,000 |
| Central Central | Moreno Valle Moreno Valle | Gilman Springs Perris | SR-60 Reche Vista | interchange Ironwood | Backbone Backbone | 0.00 2.09 | 0 0 | 0% 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valle | Perris | Ironwood | Sunnymead | Backbone | 0.52 | 4 4 | 80% | 0.00 | 1 2 | 0 | 0 0 | Ō | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valle Moreno Valle | | SR-60 Sunnymead | interchange Cactus | Backbone Backbone | 0.00 2.00 | 0 0 | 0% 25% | 0.00 | 1 2 | 3 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$22,550,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$2,255,000 \$0 | \$5,638,000 \$0 | \$2,255,000 \$0 | \$32,698,000 \$0 | \$11,192,000 \$0 |
| Central | Moreno Valle | / Perris | Cactus | Harley Knox | Backbone | 3.64 | 6 6 | 0% | 0.00 | 1 2 | Ö | 0 0 | ő | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valle Perris | Reche Vista 11th/Case | Country Perris | Heacock Goetz | Backbone Backbone | 0.44 0.30 | 2 4 | 0% 0% | 0.88 0.60 | 2 2 | 0 | 0 0 | 0 | \$1,531,000 \$680,000 | \$4,787,000 \$3,269,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$153,000 \$68,000 | \$383,000 \$170,000 | \$632,000 \$395,000 | \$7,486,000 \$4,582,000 | \$3,799,000 \$4,582,000 |
| Central | Perris | Case | Goetz | 1-215 | Backbone | 2.36 | 2 4 | 42% | 2.74 | 1 2 | 0 | 0 0 | 0 | \$3,099,000 | \$14,893,000 | \$0 | \$0 | \$O | \$0 | \$310,000 | \$775,000 | \$1,799,000 | \$20,876,000 | \$20,876,000 |
| Central Central | Perris Perris | Case Ethanac | San Jacinto River Keystone | bridge Goetz | Backbone Backbone | 0.00 2.24 | 2 4 | 0% 38% | 0.00 2.78 | 1 2 | 0 | 125 0 | 0 | \$0 \$3,144,000 | \$0 \$1,361,000 | \$0 \$0 | \$1,200,000 | \$0 \$0 | \$0 \$0 | \$120,000 \$314,000 | \$300,000 \$786,000 | \$120,000 \$451,000 | \$1,740,000 \$6,056,000 | \$1,235,000 \$6,056,000 |
| Central | Perris | Ethanac | San Jacinto River | bridge | Backbone | 0.00 | 0 2 | 0% | 0.00 | 1 3 | 0 | 400 0 | 0 | \$3,144,000 | \$0 | \$0 | \$3,840,000 | \$O | \$0 | \$384,000 | \$960,000 | \$384,000 | \$5,568,000 | \$5,568,000 |
| Central Central | Perris Perris | Ethanac Goetz | I-215 Case | Sherman Ethanac | Backbone Backbone | 0.35 2.16 | 2 4 | 0% 84% | 0.70 0.69 | 1 2 | 0 | 0 0 | 0 | \$789,000 \$782,000 | \$3,793,000 \$339,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$79,000 \$78,000 | \$197,000 \$196,000 | \$458,000 \$112,000 | \$5,316,000 \$1,507,000 | \$5,316,000 \$999,000 |
| Central | Perris | Goetz | San Jacinto River | bridge | Backbone | 0.00 | 2 4 | 0% | 0.00 | 1 3 | 0 | 400 0 | 0 | \$782,000 | \$337,000 \$0 | \$0 | \$3,840,000 | \$0 \$0 | \$0 \$0 | \$384,000 | \$960,000 | \$384,000 | \$5,568,000 | \$3,398,000 |
| Central | Perris | Mid-County (Placentia) | I-215 | Perris | Backbone | 0.87 | 0 4 | 41% | 2.05 | 1 2 | 0 | 0 0 | 0 | \$2,324,000 | \$11,169,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$232,000 | \$581,000 \$0 | \$1,349,000 | \$15,655,000 | \$15,655,000 |
| Central Central | Perris Perris | Mid-County (Placentia) Mid-County (Placentia) | I-215 Perris | interchange Evans | Backbone Backbone | 1.57 | 0 4 | 0% 52% | 3.01 | 1 2 | 0 | 0 0 | 0 | \$0 \$3,412,000 | \$16,398,000 | \$C | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$341,000 | \$853,000 | \$0 \$1,981,000 | \$0 \$22,985,000 | \$22,985,000 |
| Central | Perris | Mid-County (Placentia) | Perris Valley Storm Channel | | Backbone | 0.00 | 0 4 | 0% | 0.00 | 1 2 | 0 | 300 0 | 0 | \$0 | \$0 | \$0 | \$5,760,000 | \$0 | \$0 | \$576,000 \$0 | \$1,440,000 | \$576,000 | \$8,352,000 | \$8,352,000 \$0 |
| Central Central | Perris Perris | Perris Perris | Harley Knox Ramona | Ramona Citrus | Backbone Backbone | 1.00 2.49 | 4 6 | 0% 35% | 3.24 | 1 3 | 0 | 0 0 | 0 | \$3,667,000 | \$1,587,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$367,000 | \$0 \$917,000 | \$0 \$525,000 | \$0 \$7,063,000 | \$7,063,000 |
| Central | Perris | Perris | Citrus | Nuevo | Backbone | 0.50 | 6 6 | 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Perris Perris | Perris Perris | Nuevo I-215 overcrossing | 11th bridge | Backbone Backbone | 1.75 0.00 | 4 4 | 74% 0% | 0.91 0.00 | 1 2 | 0 | 300 0 | 0 | \$1,028,000 \$0 | \$4,942,000 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$103,000 \$0 | \$257,000 \$0 | \$597,000 \$0 | \$6,927,000 \$0 | \$6,927,000 \$0 |
| Central | Perris | Ramona | I-215 | Perris | Backbone | 1.44 | 4 6 | 77% | 0.66 | 1 2 | 0 | 0 0 | 0 | \$748,000 | \$3,595,000 | \$0 | \$0 | \$0 | \$0 | \$75,000 | \$187,000 | \$434,000 | \$5,039,000 | \$5,039,000 |
| Central Central | Perris Perris | Ramona Ramona | I-215 Perris | interchange Evans | Backbone Backbone | 0.00 1.00 | 6 6 | 0% 0% | 0.00 | 1 2 | 3 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$22,550,000 | \$0 | \$0 \$0 | \$0 \$0 | \$2,255,000 \$0 | \$5,638,000 \$0 | \$2,255,000 \$0 | \$32,698,000 \$0 | \$7,725,000 \$0 |
| Central | Perris | Ramona | Evans | Mid-County (2,800 ft E of Rider) | Backbone | 2.62 | 4 4 | 0% | 0.00 | 1 2 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Perris Unincorporate | SR-74 (4th) | Ellis SR-74 | I-215 Kevstone | Backbone Backbone | 2.33 1.07 | 4 4 | 0% 0% | 0.00 2.14 | 1 2 | 0 | 0 0 | 0 | \$0 \$2,422,000 | \$0 \$1,049,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$242,000 | \$0 \$606,000 | \$0 \$347,000 | \$0 \$4,666,000 | \$0 \$4,666,000 |
| Central | Unincorporate | ed Gilman Springs | Alessandro | Bridge Road | Backbone | 5.00 | 2 4 | 0% | 9.99 | 2 3 | 0 | 0 0 | 0 | \$17,389,000 | \$4,897,000 | \$0 | \$0 | \$0 | \$0 | \$1,739,000 | \$4,347,000 | \$2,229,000 | \$30,601,000 | \$30,601,000 |
| Central Central | Unincorporate Unincorporate | | Nuevo Evans | SR-74 (Pinacate) Ramona (2,800 ft E of Rider) | Backbone Backbone | 4.07 0.77 | 2 4 | 6% 0% | 7.65 3.08 | 1 3 3 | 0 | 0 0 | 0 | \$8,662,000 \$7,238,000 | \$3,749,000 \$1,509,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$866,000 \$724,000 | \$2,166,000 \$1,810,000 | \$1,241,000 \$875,000 | \$16,684,000 \$12,156,000 | \$16,684,000 \$12,156,000 |
| Central | Unincorporate | ed Mid-County (Ramona) | Ramona (2,800 ft E of Rider) | Pico Avenue | Backbone | 0.44 | 4 4 | 0% | 0.00 | 1 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | | ed Mid-County (Ramona) ed Mid-County (Ramona) | Pico Avenue San Jacinto River | Bridge Road bridge | Backbone Backbone | 5.95 0.00 | 2 6 | 8% 0% | 21.91 0.00 | 1 3 | 0 1. | 0 0 300 0 | 0 | \$24,800,000 \$0 | \$10,735,000 \$0 | \$0 \$0 | \$0 \$24,960,000 | \$0 \$0 | \$0 \$0 | \$2,480,000 \$2,496,000 | \$6,200,000 \$6,240,000 | \$3,554,000 \$2,496,000 | \$47,769,000 \$36,192,000 | \$47,769,000 \$36,192,000 |
| Central | Unincorporate | ed Reche Canyon | San Bernardino County | Reche Vista | Backbone | 3.35 | 2 2 | 0% | 0.00 | 3 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Unincorporate Unincorporate | | Reche Canyon Briaas | Country SR-79 (Winchester) | Backbone Backbone | 1.22 3.04 | 2 2 | 0% 0% | 0.00 | 2 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Unincorporate | | Ethanac | Ellis | Backbone | 2.72 | 4 4 | 0% | 0.00 | 2 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Cajalco Cajalco | I-15 I-15 | Temescal Canyon interchange | Backbone Backbone | 0.50 0.00 | 4 4 | 0% 0% | 0.00 | 1 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Foothill | Paseo Grande | Lincoln | Backbone | 2.60 | 4 4 | 0% | 0.00 | 3 3 | 0 | 0 0 | Ō | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Foothill Foothill | Wardlow Wash Lincoln | bridge California | Backbone Backbone | 0.00 2.81 | 4 4 | 0% 0% | 0.00 | 3 3 | 0 | 300 0 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Foothill | California | I-15 | Backbone | 0.89 | 4 4 | 0% | 0.00 | 1 2 | 0 | 0 0 | Ō | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Green River Green River | SR-91 Dominguez Ranch | Dominguez Ranch Palisades | Backbone Backbone | 0.52 0.56 | 6 6 | 0% 0% | 0.00 | 1 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Green River | Palisades | Paseo Grande | Backbone | 2.01 | 4 4 | 0% | 0.00 | 2 2 | ō | o ŏ | ő | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Eastvale Eastvale | Schleisman Schleisman | San Bernardino County | 600' e/o Cucamonga Creek bridge | Backbone Backbone | 0.65 | 6 6 | 0% 0% | 0.00 | 1 2 | 0 | 0 0 200 0 | 1 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$446,000 \$0 | \$45,000 \$0 | \$112,000 \$0 | \$45,000 \$0 | \$648,000 \$0 | \$648,000 \$0 |
| Northwest | Eastvale | Schleisman | Cucamonga Creek 600' e/o Cucamonga Creek | | Backbone | 0.87 | 6 6 | 0% | 0.00 | 1 2 | 0 | 0 0 | 1 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$597,000 | \$60,000 | \$149,000 | \$60,000 | \$866,000 | \$866,000 |
| Northwest Northwest | Eastvale Eastvale | Schleisman Schleisman | Harrison Sumner | Sumner Scholar | Backbone Backbone | 0.49 0.50 | 4 4 | 0% 0% | 0.00 1.00 | 1 2 | 0 | 0 0 | 1 | \$0 \$1,132,000 | \$0 \$5,440,000 | \$0 \$0 | \$0 | \$0 \$0 | \$336,000 \$0 | \$34,000 \$113,000 | \$84,000 \$283,000 | \$34,000 \$657,000 | \$488,000 \$7,625,000 | \$488,000 \$7,625,000 |
| Northwest | Eastvale | Schleisman | Scholar | A Street | Backbone | 0.31 | 5 6 | 95% | 0.02 | 1 2 | 0 | 0 0 | 0 | \$18,000 | \$84,000 | \$0 | \$0 | \$O | \$0 | \$2,000 | \$5,000 | \$10,000 | \$119,000 | \$119,000 |
| Northwest Northwest | Eastvale Jurupa Valley | Schleisman | A Street SR-60 | Hamner Bellegrave | Backbone Backbone | 0.27 1.57 | 4 6 | 95% 0% | 0.03 3.14 | 1 2 | 0 | 0 0 | 0 | \$31,000 \$3,552,000 | \$149,000 \$17,071,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$3,000 \$355,000 | \$8,000 \$888,000 | \$18,000 \$2,062,000 | \$209,000 \$23,928,000 | \$209,000 \$10,461,000 |
| Northwest | Jurupa Valley | | Bellegrave | Santa Ana River | Backbone | 3.99 | 4 6 | 0% | 7.99 | 1 2 | 0 | 0 0 | 0 | \$9,041,000 | \$43,446,000 | \$0 | \$0 | \$O | \$0 | \$904,000 | \$2,260,000 | \$5,249,000 | \$60,900,000 | \$0 |
| Northwest | Riverside | Alessandro | Arlington | Trautwein | Backbone | 2.42 | 6 6 | 0% | 0.00 | 2 2 | 0 | 0 0 | 1 | \$0 | \$0 | \$0 | \$0 | \$0 \$1 | 1,662,000 \$0 | \$166,000 | \$416,000 | \$166,000 | \$2,410,000 | \$2,410,000 |
| Northwest Northwest | Riverside Riverside | Arlington Arlington | La Sierra Magnolia | Magnolia Alessandro | Backbone Backbone | 5.84 2.73 | 4 4 | 0% 0% | 0.00 5.46 | 2 2 | 0 | 0 0 | 0 | \$9,504,000 | \$29,713,000 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$950,000 | \$0 \$2,376,000 | \$0 \$3,922,000 | \$0 \$46,465,000 | \$0 \$46,465,000 |
| Northwest | Riverside | Van Buren | Santa Ana River | SR-91 | Backbone | 3.81 | 4 6 | 91% | 0.69 | 1 2 | 0 | 0 0 | 0 | \$776,000 | \$3,731,000 | \$0 | \$0 | \$0 \$0 | \$0 | \$78,000 | \$194,000 | \$451,000 | \$5,230,000 | \$4,392,000 |
| Northwest Northwest | Riverside Riverside | Van Buren Van Buren | SR-91 Wood | Mockingbird Canyon Trautwein | Backbone Backbone | 3.08 0.43 | 6 6 | 16% 0% | 5.18 0.00 | 1 2 | 0 | 0 0 | 0 | \$5,863,000 \$0 | \$28,174,000 \$0 | \$0 \$0 | \$U \$0 | \$0 \$0 | \$0 \$0 | \$586,000 \$0 | \$1,466,000 \$0 | \$3,404,000 \$0 | \$39,493,000 \$0 | \$21,292,000 \$0 |
| Northwest | Riverside | Van Buren | Trautwein | Orange Terrace | Backbone | 1.27 | 5 6 | 22% | 0.99 | 1 2 | 0 | 0 0 | 0 | \$1,124,000 | \$5,404,000 | \$0 | \$0 | \$0 | \$0 | \$112,000 | \$281,000 | \$653,000 | \$7,574,000 | \$7,574,000 |
| Northwest Northwest | Unincorporate Unincorporate | | Trautwein Vista Grande | Vista Grande I-215 | Backbone Backbone | 1.22 1.26 | 6 6 | 0% 0% | 0.00 | 2 2 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$U \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Unincorporate | ed Cajalco | El Sobrante | Harley John | Backbone | 0.86 | 2 6 | 0% | 3.46 | 2 3 | 0 | 0 0 | 0 | \$6,012,000 | \$1,693,000 | \$0 | \$0 | \$0 | \$0 | \$601,000 | \$1,503,000 | \$771,000 | \$10,580,000 | \$9,817,000 |
| Northwest Northwest | Unincorporate Unincorporate | | Harley John Harvil | Harvil I-215 | Backbone Backbone | 5.81 0.28 | 4 6 | 6% 0% | 21.83 0.57 | 1 2 | 0 | 0 0 | 0 | \$24,716,000 \$643,000 | \$118,776,000 \$278,000 | \$0 \$0 | \$U \$0 | \$0 \$0 | \$0 \$0 | \$2,472,000 \$64,000 | \$6,179,000 \$161,000 | \$14,349,000 \$92,000 | \$166,492,000 \$1,238,000 | \$166,492,000 \$1,238,000 |
| Northwest | Unincorporate | ed Cajalco | Temescal Canyon | La Sierra | Backbone | 3.21 | 2 6 | 2% | 12.57 | 3 3 | 0 | 0 0 | 0 | \$29,533,000 | \$6,158,000 | \$0 | \$0 | \$0 | \$0 | \$2,953,000 | \$7,383,000 | \$3,569,000 | \$49,596,000 | \$35,953,000 |
| Northwest Northwest | Unincorporate Unincorporate | | Temescal Wash La Sierra | bridge El Sobrante | Backbone Backbone | 0.00 6.11 | 2 6 | 0% 0% | 0.00 24.44 | 3 3 | 0 | 175 0 0 0 | 0 | \$0 \$57,434,000 | \$0 \$11,976,000 | \$0 \$0 | \$3,360,000 \$0 | \$0 \$0 | \$0 \$0 | \$336,000 \$5,743,000 | \$840,000 \$14,359,000 | \$336,000 \$6,941,000 | \$4,872,000 \$96,453,000 | \$1,907,000 \$96,453,000 |
| Northwest | Unincorporate | ed Van Buren | Mockingbird Canyon | Wood | Backbone | 4.42 | 4 6 | 0% | 8.84 | 1 2 | 0 | 0 0 | 0 | \$10,010,000 | \$48,104,000 | \$0 | | \$0 | \$0 | \$1,001,000 | \$2,503,000 | \$5,811,000 | \$67,429,000 | \$67,429,000 |
| Northwest | Unincorporate | an Ardu Rrieu | Orange Terrace | 1-215 | Backbone | 1.89 | 0 6 | 0% | 0.00 | 1 2 | U | 0 0 | U | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

| ARFA PLAN [| | STREETNAME | SEGMENTFROM | SEGMENTTO | NETWORK A | AII ES EXISTINO | SIN FIITHREIN | % COMPLETE INCRE | ASELN MILES TOPO | LANDUSE | INTERCHG | BRIDGE | RRXING | ITS | NEWLNCOST | ROWCOST | INTCHGCOST | BRDGCOST | ZII TZOOXAR | COST | PLNG E | NG C | ONTIG TO | -1 | AXIMUM TUMF SHARE |
|----------------------------|----------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------|----------------------|-----------------|---------------|------------------|------------------|---------|----------|--------|--------|--------|--------------------------------|----------------------------|---------------------|---------------------|------------------------------------------|-------------|----------------------------|----------------------------|----------------------------|------------------------------|-----------------------------|
| Pass | Banning | Highland Springs | Wilson (8th) | Sun Lakes | Backbone | 0.76 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$(| \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | Banning | Highland Springs | I-10 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 1 | 2 | 2 | 0 | 0 | 0 \$0 | \$0 | \$43,490,000 | \$0 | \$0 | \$0 | \$4,349,000 | \$10,873,000 | \$4,349,000 | \$63,061,000 | \$32,516,000 |
| Pass | Banning | Highland Springs | Oak Valley (14th) | Wilson (8th) | Backbone | 0.73 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass Pass | Banning Bannina | Highland Springs I-10 Bypass South | Cherry Valley I-10 | Oak Valley (14th) Morongo Trail (Apache Trail) | Backbone Backbone | 1.53 | 2 | 2 0% | 0.00 6.57 | 1 | 2 | 0 | 0 | D D | 0 \$7,439,000 | \$35,748,000 | \$0 | \$(|) \$0 | \$0 | \$0 \$744.000 | \$0 \$1.860.000 | \$4.319.000 | \$0 \$50.110.000 | \$0 \$50,110,000 |
| Pass | Banning | I-10 Bypass South | I-10 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | i | 2 | 2 | 0 | 0 | 0 \$7,437,000 | \$03,740,000 | \$43,490,000 | \$(| 5 \$0 | \$0 | \$4,349,000 | \$10,873,000 | \$4,317,000 | \$63,061,000 | \$63,061,000 |
| Pass | Banning | I-10 Bypass South | San Gorgonio | bridge | Backbone | 0.00 | Ō | 2 0% | 0.00 | i | 2 | 0 3 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$2,880,000 | \$0 | \$0 | \$288,000 | \$720,000 | \$288,000 | \$4,176,000 | \$4,176,000 |
| Pass | Banning | I-10 Bypass South | UP/Hargrave | railroad crossing | Backbone | 0.00 | 0 | 2 0% | 0.00 | 1 | 2 | 0 | 0 | 1 | 0 \$0 | \$0 | \$0 | \$0 | \$36,400,000 | \$0 | \$3,640,000 | \$9,100,000 | \$3,640,000 | \$52,780,000 | \$52,780,000 |
| Pass | Beaumont | Beaumont | Oak Valley (14th) | I-10 | Backbone | 1.37 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass Pass | Beaumont | Potrero Potrero | Oak Valley (San Timoteo Co SR-60 | any SR-60 interchange | Backbone Backbone | 0.72 0.00 | 2 | 4 65% 0 0% | 0.50 | 1 | 3 | 0 | 0 | 0 | 0 \$571,000 | \$247,000 \$0 | \$0 \$43,490,000 | \$0 | \$0 | \$0 | \$57,000 \$4,349,000 | \$143,000 \$10,873,000 | \$82,000 \$4,349,000 | \$1,100,000 \$63,061,000 | \$1,100,000 \$29,561,000 |
| Pass | Beaumont Beaumont | Potrero | IIP | railroad crossina | Backbone | 0.00 | 4 | 4 0% | 0.00 | i | 3 | 0 | 0 | 2 | 0 \$0 | \$0 \$0 | \$43,470,000 \$0 | φ(12 | \$27.600.000 | \$0 \$0 | \$2,760,000 | \$6,900,000 | \$2,760,000 | \$40,020,000 | \$40,020,000 |
| Pass | Beaumont | Potrero | Noble Creek | bridge | Backbone | 0.00 | 4 | 4 0% | 0.00 | i | 3 | 0 5 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | Beaumont | Potrero | SR-60 | 4th | Backbone | 0.45 | 4 | 4 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | Beaumont | SR-79 (Beaumont) | I-10 | California | Backbone | 1.15 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | Beaumont | SR-79 (Beaumont) | I-10 I-10 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 1 | 2 | 2 | 0 | 0 | 0 \$0 | \$0 | \$43,490,000 | \$0 | \$0 | \$0 | \$4,349,000 \$4,349,000 | \$10,873,000 | \$4,349,000 \$4,349,000 | \$63,061,000 | \$7,408,000 |
| Pass Pass | Calimesa Calimesa | Cherry Valley Cherry Valley | Roberts St | interchange Roberts Rd | Backbone Backbone | 0.00 | 2 | 0 0% 4 0% | 1.40 | 1 | 3 | 0 | 0 | D D | 0 \$1.585.000 | \$686.000 | \$43,490,000 | \$(\$) | ר ב ר ב | \$U \$0 | \$4,349,000 \$1.59.000 | \$10,873,000 \$396,000 | \$4,349,000 | \$63,061,000 \$3,053,000 | \$59,773,000 \$3,053,000 |
| Pass | | led Cherry Valley | Bellflower | Noble | Backbone | 1.47 | 0 | 2 0% | 2.94 | i | 3 | 0 | 0 | 0 | 0 \$3.328.000 | \$1,441,000 | \$0 | \$(| \$0 | \$0 | \$333,000 | \$832,000 | \$477,000 | \$6,411,000 | \$6,411,000 |
| Pass | | ted Cherry Valley | Highland Springs | Bellflower | Backbone | 0.44 | 2 | 2 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | Unincorporat | ted Cherry Valley | Noble | Roberts St | Backbone | 3.25 | 2 | 2 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass | | ted Cherry Valley | San Timoteo Wash | bridge | Backbone | 0.00 | 2 | 2 0% | 0.00 | 1 | 3 | 0 3 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pass San Jacinto | Unincorporat Hemet | led SR-79 (Lamb Canyon) Domenigoni | California Warren | Gilman Springs Sanderson | Backbone Backbone | 5.23 | 4 | 4 0% 6 0% | 0.00 3.54 | 2 | 3 | 0 | 0 | D D | 0 \$4,011,000 | \$1.736.000 | \$0 | \$(|) \$0 | \$0 \$0 | \$401,000 | \$1,003,000 | \$0 \$575,000 | \$0 \$7,726,000 | \$7,726,000 |
| San Jacinto | Hemet | Domenigoni | Sanderson | State | Backbone | 2.14 | 4 | 4 0% | 0.00 | i | 3 | 0 | 0 | n n | 0 \$4,011,000 | \$1,736,000 | \$0 | φ(12 |) \$0) | \$0 \$0 | \$401,000 \$0 | \$1,003,000 | \$575,000 | \$7,726,000 \$0 | \$7,726,000 \$0 |
| San Jacinto | Hemet | SR-74 | Winchester | Warren | Backbone | 2.59 | 4 | 6 11% | 4.62 | i | 2 | 0 | 0 | 0 | 0 \$5,227,000 | \$25,117,000 | \$0 | \$0 | \$0 | \$0 | \$523,000 | \$1,307,000 | \$3,034,000 | \$35,208,000 | \$35,208,000 |
| San Jacinto | San Jacinto | Mid-County (Ramona) | Warren | Sanderson | Backbone | 1.73 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| San Jacinto | San Jacinto | Mid-County (Ramona) | Sanderson/SR-79 (Hemet By | | Backbone | 0.00 | 0 | 0 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| San Jacinto | San Jacinto | Ramona | Sanderson | State | Backbone | 2.39 | 6 | 6 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| San Jacinto San Jacinto | San Jacinto San Jacinto | Ramona Ramona | State Main | Main Cedar | Backbone Backbone | 2.66 2.40 | 4 | 4 0% 4 57% | 0.00 4.13 | 1 | 2 | 0 | 0 | 0 | 0 \$4,679,000 | \$22.485.000 | \$0 | \$(| \$0 | \$0 | \$0 \$468.000 | \$1,170,000 | \$0 \$2,716,000 | \$0 \$31,518,000 | \$26,928,000 |
| San Jacinto | San Jacinto | Ramona | Cedar | SR-74 | Backbone | 1.10 | 4 | 4 0% | 0.00 | i | 2 | 0 | 0 | 0 | 0 \$4,677,000 | \$22,463,000 | \$0 | \$(| 5 \$0 | \$0 | \$400,000 | \$1,170,000 | \$0 | \$01,510,000 | \$20,720,000 |
| San Jacinto | | ted Domenigoni | SR-79 (Winchester) | Warren | Backbone | 3.10 | 4 | 6 0% | 6.20 | i | 3 | 0 | 0 | 0 | 0 \$7,013,000 | \$3,036,000 | \$0 | \$0 | \$0 | \$0 | \$701,000 | \$1,753,000 | \$1,005,000 | \$13,508,000 | \$13,508,000 |
| San Jacinto | Unincorporat | led Domenigoni | San Diego Aqueduct | bridge | Backbone | 0.00 | 4 | 6 0% | 0.00 | 1 | 3 | 0 3 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$2,880,000 | \$0 | \$0 | \$288,000 | \$720,000 | \$288,000 | \$4,176,000 | \$4,176,000 |
| San Jacinto | | ted Gilman Springs | Bridge | Sanderson | Backbone | 2.95 | 2 | 2 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| San Jacinto | | ted Mid-County (Ramona) | Bridge | Warren SR-79 (Winchester) | Backbone | 2.35 3.54 | 2 | 4 10% 6 0% | 4.23 7.07 | 1 | 3 | 0 | 0 | 0 | 0 \$4,787,000 0 \$8,004,000 | \$2,072,000 \$3,465,000 | \$0 | \$0 | \$0 | \$0 | \$479,000 \$800,000 | \$1,197,000 \$2.001.000 | \$686,000 \$1,147,000 | \$9,221,000 \$15,417,000 | \$9,221,000 \$15,417,000 |
| San Jacinto San Jacinto | Unincorporat | ted SR-74 ted SR-79 (Hemet Bypass) | Briggs SR-74 (Florida) | Domeniaoni | Backbone Backbone | 3.54 | 0 | 2 1% | 6.38 | 1 | 3 | 0 | 0 | D D | 0 \$8,004,000 | \$3,124,000 | \$U \$0 | \$(\$) | ר בי | \$U \$0 | \$722,000 | \$1,804,000 | \$1,147,000 | \$13,901,000 | \$13,901,000 |
| San Jacinto | | led SR-79 (Hemet Bypass) | San Diego Aqueduct | bridge | Backbone | 0.00 | 0 | 2 0% | 0.00 | i | 3 | 0 3 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$2.880.000 | \$0 | \$0 | \$288,000 | \$720.000 | \$288,000 | \$4,176,000 | \$4,176,000 |
| San Jacinto | | ted SR-79 (Hemet Bypass) | Domenigoni | Winchester | Backbone | 1.50 | 0 | 2 0% | 3.00 | 1 | 3 | 0 | 0 | 0 | 0 \$3,396,000 | \$1,470,000 | \$0 | \$0 | \$0 | \$0 | \$340,000 | \$849,000 | \$487,000 | \$6,542,000 | \$6,542,000 |
| San Jacinto | | ted SR-79 (San Jacinto Bypass) | Mid-County (Ramona) | SR-74 (Florida) | Backbone | 6.50 | 0 | 4 0% | 26.00 | 1 | 3 | 0 | 0 | 0 | 0 \$29,432,000 | \$12,740,000 | \$0 | \$0 | 0 \$0 | \$0 | \$2,943,000 | \$7,358,000 | \$4,217,000 | \$56,690,000 | \$56,690,000 |
| San Jacinto | | ted SR-79 (Sanderson) | Gilman Springs | Ramona | Backbone | 1.58 | 4 | 6 0% | 3.16 | 1 | 3 | 0 | 0 | 0 | 0 \$3,582,000 | \$1,550,000 | \$0 | \$(| \$0 | \$0 | \$358,000 | \$896,000 | \$513,000 | \$6,899,000 | \$2,555,000 |
| San Jacinto San Jacinto | | ted SR-79 (Sanderson) ted SR-79 (Winchester) | San Jacinto River Domeniaoni | bridge Keller | Backbone Backbone | 0.00 | 4 | 6 0% 6 13% | 0.00 8.53 | 1 | 3 | 0 1,4 | 00 | D D | 0 \$9.653.000 | \$46.387.000 | \$0 | \$13,440,000 \$0 | | \$0 \$0 | \$1,344,000 \$965,000 | \$3,360,000 \$2.413.000 | \$1,344,000 \$5,604,000 | \$19,488,000 \$65,022,000 | \$7,651,000 \$65,022,000 |
| Southwest | Canvon Lake | | Railroad Canvon | Newport | Backbone | 0.50 | 4 | 4 0% | 0.00 | 2 | 2 | 0 | 0 | 0 | 0 \$7,055,000 | \$40,367,000 | \$0 | \$(| 5 \$0 | \$0 | \$00,000 | \$2,413,000 | \$0,004,000 | \$03,022,000 | \$05,022,000 |
| Southwest | | Railroad Canyon | Canyon Hills | Goetz | Backbone | 1.95 | 6 | 6 0% | 0.00 | 2 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | I-15 | Canyon Hills | Backbone | 2.36 | 6 | 6 50% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | I-15 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Lake Elsinore Murrieta | SR-74 Clinton Keith | I-15 Copper Craft | interchange Toulon | Backbone Backbone | 0.00 | 0 | 0 0% 6 0% | 0.00 | 1 | 3 | 2 | 0 | 0 | 0 \$0 | \$0 | \$43,490,000 | \$0 | \$0 | \$0 | \$4,349,000 | \$10,873,000 | \$4,349,000 | \$63,061,000 | \$24,162,000 |
| Southwest | Murrieta | Clinton Keith | Toulon | I-215 | Backbone | 0.90 | 4 | 6 47% | 0.00 | i | 3 | 0 | 0 | n n | 0 \$1,078,000 | \$466,000 | \$0 | φ(12 |) \$0 50 | \$0 \$0 | \$108,000 | \$270,000 | \$154,000 | \$2,076,000 | \$2,076,000 |
| Southwest | Murrieta | Clinton Keith | I-215 | Whitewood | Backbone | 0.75 | 6 | 6 0% | 0.00 | i | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | French Valley (Date) | Murrieta Hot Springs | Winchester Creek | Backbone | 0.24 | 0 | 4 0% | 0.96 | 1 | 2 | 0 | 0 | 0 | 0 \$1,087,000 | \$5,222,000 | \$0 | \$0 | \$0 | \$0 | \$109,000 | \$272,000 | \$631,000 | \$7,321,000 | \$7,321,000 |
| Southwest | Murrieta | French Valley (Date) | Winchester Creek | Margarita | Backbone | 0.61 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Whitewood | Menifee City Limit | Keller | Backbone | 0.55 | 4 | 4 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Murrieta Temecula | Whitewood French Valley (Cherry) | Keller Jefferson | Clinton Keith | Backbone Backbone | 2.00 0.56 | 4 | 4 0% 2 54% | 0.00 | 1 | 3 | 0 | 0 | D D | 0 \$583,000 | \$2.803.000 | \$U \$0 | \$(|) \$0 J | \$U \$0 | \$58,000 | \$146.000 | \$339.000 | \$3,929,000 | \$3,929,000 |
| Southwest | Temecula | French Valley (Cherry) | Murrieta Creek | bridge | Backbone | 0.00 | 0 | 2 0% | 0.00 | i | 2 | 0 4 | 20 | 0 | 0 \$00,000 | \$2,803,000 | \$0 | \$4.032.000 | 5 \$0 | \$0 | \$403,000 | \$1,008,000 | \$403,000 | \$5,846,000 | \$5,846,000 |
| Southwest | Temecula | French Valley (Date) | Margarita | Ynez | Backbone | 0.91 | 4 | 4 0% | 0.00 | i | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$(| \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | French Valley (Date) | Ynez | Jefferson | Backbone | 0.73 | 0 | 2 55% | 0.66 | 1 | 2 | 0 | 0 | 0 | 0 \$744,000 | \$3,574,000 | \$0 | \$0 | 0 \$0 | \$0 | \$74,000 | \$186,000 | \$432,000 | \$5,010,000 | \$5,010,000 |
| Southwest | Temecula | French Valley (Date) | I-15 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 1 | 2 | 1 | 0 | 0 | 0 \$0 | \$0 | \$84,190,000 | \$0 | \$0 | \$0 | \$8,419,000 | \$21,048,000 | \$8,419,000 | \$122,076,000 | \$122,076,000 |
| Southwest Southwest | Temecula Temecula | SR-79 (Winchester) SR-79 (Winchester) | Murrieta Hot Springs I-15 | Jefferson interchange | Backbone Backbone | 2.71 | 6 | 6 0% 0 0% | 0.00 | 1 | 1 | 0 | 0 | 0 | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$1,860,000 | \$186,000 | \$465,000 | \$186,000 | \$2,697,000 | \$2,697,000 \$0 |
| Southwest | Temecula | Western Bypass (Diaz) | Cherry | Rancho California | Backbone | 2.14 | 0 | 2 93% | 0.00 | i | 2 | 0 | 0 | n n | 0 \$339.000 | \$1.630.000 | \$0 | φ(12 |) \$0 50 | \$0 \$0 | \$34.000 | \$85,000 | \$197,000 | \$2,285,000 | \$2,285,000 |
| Southwest | Temecula | Western Bypass (Vincent Mo | | SR-79 (Front) | Backbone | 1.48 | Ö | 2 15% | 2.52 | 3 | 2 | 0 | 0 | 0 | 0 \$5,913,000 | \$13,687,000 | \$0 | \$0 | \$0 | \$0 | \$591,000 | \$1,478,000 | \$1,960,000 | \$23,629,000 | \$23,629,000 |
| Southwest | Temecula | Western Bypass (Vincent Mo | ro I-15 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 3 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | Western Bypass (Vincent Mo | | bridge | Backbone | 0.00 | 0 | 2 0% | 0.00 | 3 | 2 | 0 3 | 00 | 0 | 0 \$0 | \$0 | \$0 | \$2,880,000 | \$0 | \$0 | \$288,000 | \$720,000 | \$288,000 | \$4,176,000 | \$4,176,000 |
| Southwest | Unincorporat | | SR-79 | Eastern Bypass | Backbone | 2.40 | 2 | 2 0% | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | | ted Clinton Keith ted Clinton Keith | Whitewood Warm Springs Creek | SR-79 bridge | Backbone Backbone | 2.54 | 0 | 4 75% 4 0% | 2.54 | 1 | 3 | 0 1.2 | 0 1 | D D | 0 \$2,875,000 | \$1,245,000 | \$0 | \$(|) \$0 | \$0 | \$288,000 | \$719,000 \$0 | \$412,000 | \$5,539,000 | \$5,539,000 \$0 |
| Southwest | Unincorporat | | I-15 | Ethanac | Backbone | 4.97 | 4 | 6 9% | 9.05 | 2 | 3 | 0 1,2 | 0 | 0 | 0 \$15,740,000 | \$4,433,000 | \$0 | \$(| 5 \$0 | \$0 | \$1.574.000 | \$3,935,000 | \$2,017,000 | \$27,699,000 | \$26,347,000 |
| Southwest | | ted SR-79 (Winchester) | Keller | Thompson | Backbone | 2.47 | 4 | 6 9% | 4.49 | i | 2 | 0 | 0 | 0 | 0 \$5,079,000 | \$24,407,000 | \$0 | \$0 | \$0 | \$0 | \$508,000 | \$1,270,000 | \$2,949,000 | \$34,213,000 | \$34,213,000 |
| Southwest | | ted SR-79 (Winchester) | Thompson | La Alba | Backbone | 1.82 | 4 | 6 0% | 3.63 | 1 | 2 | 0 | 0 | D | 0 \$4,112,000 | \$19,761,000 | \$0 | \$0 | \$0 | \$0 | \$411,000 | \$1,028,000 | \$2,387,000 | \$27,699,000 | \$27,699,000 |
| Southwest | | ted SR-79 (Winchester) | La Alba | Hunter | Backbone | 0.51 | 4 | 6 0% | 1.03 | 1 | 2 | 0 | 0 | 0 | 0 \$1,166,000 | \$5,602,000 | \$0 | \$0 | \$0 | \$0 | \$117,000 | \$292,000 | \$677,000 | \$7,854,000 | \$3,042,000 |
| Southwest Southwest | Unincorporat Wildomar | led SR-79 (Winchester) Bundy Canyon | Hunter I-15 | Murrieta Hot Springs Monte Vista | Backbone Backbone | 1.14 0.22 | 4 | 6 88% 6 0% | 0.27 | 2 | 3 | 0 | 0 | D D | 0 \$309,000 0 \$774,000 | \$134,000 \$218.000 | \$0 | \$0 | \$0 | \$0 | \$31,000 \$77.000 | \$77,000 \$194,000 | \$44,000 \$99,000 | \$595,000 \$1,362,000 | \$442,000 \$1,362,000 |
| Southwest | Wildomar | Bundy Canyon Bundy Canyon | Monte Vista | Sunset | Backbone Backbone | 3.14 | 2 | 4 0% | 6.29 | 3 | 3 | 0 | 0 | 0 | 0 \$14,778,000 | \$218,000 | \$U \$0 | 12 14 | | ΦU na | \$1,478,000 | \$3,695,000 | \$1,786,000 | \$1,362,000 | \$1,362,000 |
| Southwest | Wildomar | Bundy Canyon | I-15 | interchange | Backbone | 0.00 | 0 | 0 0% | 0.00 | 2 | 3 | 3 | 0 | - D | 0 \$0 | \$0 | \$22,550,000 | \$(| \$0 | \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$24,613,000 |
| Southwest | Wildomar | Clinton Keith | Palomar | I-15 | Backbone | 0.55 | 4 | 4 0% | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Wildomar | Clinton Keith | I-15 | Copper Craft | Backbone | 1.96 | 2 | 4 58% | 1.64 | 2 | 3 | 0 | 0 | 0 | 0 \$2,858,000 | \$805,000 | \$0 | \$0 | \$0 | \$0 | \$286,000 | \$715,000 | \$366,000 | \$5,030,000 | \$0 |
| Subtotal | | | | | Backbone | 269.95 | | | 318.02 | | | 11 8,8 | 35 | 3 7.1 | 4 \$438,352,000 | \$682,621,000 | \$435,330,000 | \$74,976,000 | 3 \$136,800,000 | \$4,901,000 | \$109,037,000 | \$272,606,000 | \$177,298,000 | \$2,331,921,000 | \$1,961,707,000 |

| AREA PLAN [| | STREETNAME | SEGMENTFROM | SEGMENTTO | NETWORK A | VILES EXISTINGEN | FUTURELN | % COMPLETE INCREAS | ELN MILES TOPO | LANDUSE INTER | CHG BRIDGE | RRXING ITS | NEWLNCOST | ROWCOST | INTCHGCOST | BRDGCOST RF | RXCOST ITSCOST | PLNG | ENG C | ONTIG TO | <u>.</u> | AXIMUM TUMF SHARE |
|------------------------|--------------------------------|-------------------------------------|-----------------------------------------|--------------------------------------|------------------------|------------------|----------|--------------------|------------------|---------------|------------|----------------|------------------------|---------------------|--------------------|--------------------------------|---------------------|----------------------------------|-----------------------------|----------------------------|-------------------------------|------------------------------|
| Central Central | Menifee Menifee | Briggs Briggs | Newport SR-74 (Pinacate) | Scott Simpson | Secondary Secondary | 3.05 2.54 | 2 2 | 2 0% 4 73% | 0.00 1 1.37 1 | 3 | 0 | 0 0 | 0 \$0 0 \$1,553,000 | \$0 \$672,000 | \$ | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 \$0 \$155,000 | \$0 \$388,000 | \$0 \$223,000 | \$0 \$2,991,000 | \$0 \$2,991,000 |
| Central | Menifee | Briggs | Simpson | Old Newport | Secondary | 1.50 | 0 2 | 2 17% | 2.49 1 | 3 | ő | 0 0 | 0 \$2,819,000 | | \$1 | | \$0 | \$0 \$282,000 | \$705,000 | \$404,000 | \$5,430,000 | \$5,430,000 |
| Central Central | Menifee Menifee | Briggs Garbani | Salt Creek I-215 | bridge interchange | Secondary Secondary | 0.00 | 0 2 | 2 0% 0 0% | 0.00 1 0.00 1 | 3 | 0 | 600 0 | 0 \$0 | \$0 \$0 | \$43,490,00 | | \$0 \$0 | \$0 \$576,000 \$0 \$4,349,000 | \$1,440,000 \$10,873,000 | \$576,000 \$4,349,000 | \$8,352,000 \$63,061,000 | \$8,352,000 \$42,483,000 |
| Central | Menifee | Goetz | Juanita | Lesser Lane | Secondary | 2.61 | 2 | 4 0% | 5.22 1 | 3 | ō | 0 0 | 0 \$5,907,000 | \$2,557,000 | \$1 | 50 | \$0 | \$0 \$591,000 | | \$846,000 | \$11,378,000 | \$11,378,000 |
| Central Central | Menifee Menifee | Goetz Holland | Newport Murrieta | Juanita Bradley | Secondary Secondary | 1.36 1.03 | 2 2 | 2 0% 4 0% | 0.00 1 2.06 1 | 3 | 0 | 0 0 | 0 \$0 0 \$2,332,000 | \$0 \$11,206,000 | \$ | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 \$0 \$233,000 | \$0 \$583,000 | \$0 \$1,354,000 | \$0 \$15,708,000 | \$0 \$15,708,000 |
| Central | Menifee | Holland | Bradley | Haun | Secondary | 0.75 | 2 4 | 4 0% | 1.50 1 | 2 | ō | 0 0 | 0 \$1,698,000 | \$8,160,000 | \$1 | \$0 | \$0 | \$0 \$170,000 | \$425,000 | \$986,000 | \$11,439,000 | \$11,439,000 |
| Central Central | Menifee Menifee | Holland Holland | Haun I-215 overcrossing | Antelope bridge | Secondary Secondary | 0.31 | 0 4 | 4 0% 4 0% | 1.24 1 0.00 1 | 2 | 0 | 0 0 | 0 \$1,404,000 | \$6,746,000 \$0 | \$1 \$1 | 0 \$6,720,000 | \$0 \$0 | \$0 \$140,000 \$0 \$672,000 | \$351,000 \$1,680,000 | \$815,000 \$672,000 | \$9,456,000 \$9,744,000 | \$9,456,000 \$9,744,000 |
| Central | Menifee | Holland | Antelope | Menifee | Secondary | 0.70 | 2 | 4 64% | 0.50 1 | 2 | 0 | 0 0 | 0 \$571,000 | | \$1 | | \$0 | \$0 \$57,000 | \$143,000 | \$331,000 | \$3,844,000 | \$3,844,000 |
| Central Central | Menifee Menifee | McCall McCall | I-215 I-215 | Aspel interchanae | Secondary Secondary | 1.23 0.00 | 0 (| 6 0% 0 0% | 2.46 1 0.00 1 | 3 | 0 | 0 0 | 0 \$2,780,000 0 \$0 | \$1,203,000 \$0 | \$1 \$1 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$278,000 \$0 \$0 | \$695,000 \$0 | \$398,000 \$0 | \$5,354,000 \$0 | \$5,354,000 \$0 |
| Central | Menifee | McCall | Aspel | Menifee | Secondary | 0.95 | 2 | 4 45% | 1.05 1 | 3 | 0 | 0 0 | 0 \$1,188,000 | | \$1 | \$0 | \$0 | \$0 \$119,000 | | \$170,000 \$0 | \$2,288,000 | \$2,288,000 |
| Central Central | Menifee Menifee | Murrieta Murrieta | Ethanac McCall | McCall Newport | Secondary Secondary | 1.95 2.03 | 2 4 | 2 0% 4 10% | 0.00 1 3.65 1 | 3 | 0 | 0 0 | 0 \$0 0 \$4,136,000 | \$0 \$1,790,000 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$0 \$0 \$414,000 | \$0 \$1,034,000 | \$593,000 | \$0 \$7,967,000 | \$0 \$7,967,000 |
| Central | Menifee | Murrieta | Newport | Bundy Canyon | Secondary | 3.00 | 2 2 | 2 0% | 0.00 1 | 3 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | 50 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | I-215 I-215 | Heacock interchange | Secondary Secondary | 2.17 0.00 | 0 (| 6 83% 0 0% | 0.74 1 0.00 1 | 2 | 0 | 0 0 | 0 \$834,000 0 \$0 | \$4,007,000 \$0 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$83,000 \$0 \$0 | \$209,000 \$0 | \$484,000 \$0 | \$5,617,000 \$0 | \$5,617,000 \$0 |
| Central | Moreno Valley | | Ironwood | SR-60 | Secondary | 0.28 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | SR-60 SR-60 | interchange Eucalyptus | Secondary Secondary | 0.00 0.77 | 6 | 0 0% 6 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valley | | I-215 | Towngate | Secondary | 1.00 | 4 | 6 42% | 1.16 1 | 2 | 0 | 0 0 | 0 \$1,313,000 | | \$1 | 50 | \$0 | \$0 \$131,000 | | \$762,000 | \$8,843,000 | \$8,843,000 |
| Central Central | Moreno Valley Moreno Valley | | Towngate Frederick | Frederick Heacock | Secondary Secondary | 0.67 1.01 | 4 4 | 4 0% 4 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valley | | Heacock | Kitching | Secondary | 1.01 | 2 2 | 2 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | Kitching Moreno Beach | Moreno Beach Theodore | Secondary Secondary | 2.42 2.28 | 4 4 | 4 98% 4 47% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valley | | SR-60 | Alessandro | Secondary | 1.63 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | Cactus Reche Vista | San Michele Cactus | Secondary Secondary | 2.79 4.73 | 4 4 | 4 77% 4 92% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 5 \$0 5 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valley | | San Michele | Harley Knox | Secondary | 0.74 | 2 2 | 2 0% | 0.00 1 | 3 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | SR-60 Day | Day Heacock | Secondary Secondary | 2.01 | 4 4 | 4 0% 4 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central | Moreno Valley | | Alessandro | John F Kennedy | Secondary | 1.00 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | 50 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | Moreno Beach | John F Kennedy Reche Canyon | Oleander SR-60 | Secondary Secondary | 3.16 1.23 | 2 4 | 4 0% 4 0% | 0.00 1 2.47 1 | 2 | 0 | 0 0 | 0 \$2,790,000 | \$13,410,000 | \$1 \$1 | 0 \$0 | \$0 \$0 | \$0 \$279,000 | \$698,000 | \$1,620,000 | \$18,797,000 | \$18,797,000 |
| Central | | Moreno Beach | SR-60 overcrossing SR-60 | bridge | Secondary | 0.00 1.51 | 4 | 4 0% 4 0% | 0.00 1 | 2 | 0 | 250 0 | 0 \$0 | \$0 | \$1 | 50 | \$0 | \$0 \$0 \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Moreno Valley Moreno Valley | | Ironwood | Alessandro SR-60 | Secondary Secondary | 0.40 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 5 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central | | Pigeon Pass/CETAP Corridor | | Ironwood | Secondary | 2.66 0.35 | 4 4 | 4 0% 2 0% | 0.00 1 0.00 2 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$1 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central Central | Moreno Valley | Reche Canyon Redlands | Moreno Valley City Limit Locust | Locust Alessandro | Secondary Secondary | 2.75 | 2 4 | 4 5% | 5.22 1 | 2 | 0 | 0 0 | 0 \$5,907,000 | \$28,385,000 | \$ | 5 \$0 | \$0 \$0 | \$0 \$591,000 | \$1,477,000 | \$3,429,000 | \$39,789,000 | \$39,789,000 |
| Central | Moreno Valley | | SR-60 | interchange | Secondary | 0.00 | 0 (| 0 0% | 0.00 1 | 2 | 3 | 0 0 | 0 \$0 | \$0 | \$22,550,00 | | \$0 | \$0 \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$32,698,000 |
| Central Central | Moreno Valley Moreno Valley | | SR-60 SR-60 | Eucalyptus interchange | Secondary Secondary | 0.26 0.00 | 0 (| 4 0% 0 0% | 0.52 1 0.00 1 | 2 | 3 | 0 0 | 0 \$589,000 0 \$0 | \$2,829,000 \$0 | \$22,550,00 | | \$0 \$0 | \$0 \$59,000 \$0 \$2,255,000 | \$147,000 \$5,638,000 | \$342,000 \$2,255,000 | \$3,966,000 \$32,698,000 | \$3,966,000 \$32,698,000 |
| Central | Perris | Ellis | Goetz | Evans | Secondary | 1.27 | 0 4 | 4 14% | 4.37 1 | 3 | 0 | 0 0 | 0 \$4,945,000 | \$2,141,000 | \$1 | \$0 | \$0 | \$0 \$495,000 | \$1,236,000 | \$709,000 | \$9,526,000 | \$9,526,000 |
| Central Central | Perris Perris | Evans Evans | Oleander Ramona | Ramona Morgan | Secondary Secondary | 1.00 0.59 | 4 4 | 4 0% 4 0% | 0.00 1 0.00 1 | 3 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$1 \$1 | 0 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Perris | Evans | Morgan | Rider | Secondary | 0.50 | 4 | 4 0% | 0.00 1 | 3 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Perris Perris | Evans Evans | Rider Placentia | Placentia Nuevo | Secondary Secondary | 0.56 1.52 | 0 4 | 2 79% 4 51% | 0.00 1 2.98 1 | 3 | 0 | 0 0 | 0 \$3,370,000 | \$1,459,000 | \$1 \$1 | 0 \$0 | \$0 \$0 | \$0 \$337,000 | \$843,000 | \$483,000 | \$6,492,000 | \$6,492,000 |
| Central | Perris | Evans | Nuevo | Ellis | Secondary | 2.03 | 0 4 | 4 0% | 8.12 1 | 3 | 0 | 0 0 | 0 \$9,192,000 | | \$1 | 50 | \$0 | \$0 \$919,000 | \$2,298,000 | \$1,317,000 | \$17,705,000 | \$17,705,000 |
| Central Central | Perris Perris | Evans Evans | San Jacinto River I-215 | bridge bridge | Secondary Secondary | 0.00 | 0 4 | 4 0% 4 0% | 0.00 1 0.00 1 | 3 | 0 | 400 0 300 0 | 0 \$0 | \$0 \$0 | \$1 \$1 | 0 \$7,680,000 0 \$5,760,000 | \$0 \$0 | \$0 \$768,000 \$0 \$576,000 | \$1,920,000 \$1,440,000 | \$768,000 \$576,000 | \$11,136,000 \$8,352,000 | \$11,136,000 \$8,352,000 |
| Central | Perris | Goetz | Lesser | Ethanac | Secondary | 2.04 | 2 | 4 12% | 3.60 1 | 3 | 0 | 0 0 | 0 \$4,073,000 | \$1,763,000 | \$1 | \$0 | \$0 | \$0 \$407,000 | \$1,018,000 | \$584,000 | \$7,845,000 | \$7,845,000 |
| Central Central | Perris Perris | Harley Knox Harley Knox | I-215 I-215 | Indian interchange | Secondary Secondary | 1.53 0.00 | 0 (| 4 0% 0 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$1 \$1 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Perris | Harley Knox | Indian | Perris | Secondary | 0.50 | 6 | 6 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | 50 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Perris Perris | Harley Knox Nuevo | Perris I-215 | Redlands Murrieta | Secondary Secondary | 0.50 1.36 | 4 4 | 4 0% 6 18% | 0.00 1 2.23 1 | 2 | 0 | 0 0 | 0 \$2,519,000 | \$12,107,000 | \$1 \$1 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$252,000 | \$630,000 | \$0 \$1,463,000 | \$16,971,000 | \$0 \$16,971,000 |
| Central | Perris | Nuevo | I-215 | interchange | Secondary | 0.00 | 0 (| 0 0% | 0.00 1 | 2 | 3 | 0 0 | 0 \$0 | \$0 | \$22,550,00 | 0 \$0 | \$0 | \$0 \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$19,736,000 |
| Central Central | Perris Perris | Nuevo Nuevo | Murrieta Perris Valley Storm Channel | Dunlap bridge | Secondary Secondary | 1.00 0.00 | 4 4 | 4 0% 4 0% | 2.00 1 0.00 1 | 3 | 0 | 300 0 | 0 \$2,267,000 0 \$0 | \$981,000 \$0 | \$1 \$1 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$227,000 \$0 \$0 | \$567,000 \$0 | \$325,000 \$0 | \$4,367,000 \$0 | \$4,367,000 \$0 |
| Central | Perris | SR-74 (Matthews) | I-215 | Ethanac | Secondary | 1.25 | 4 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Central Central | Perris Unincorporate | SR-74 (Matthews) d Center (Main) | I-215 I-215 | interchange Mt Vernon | Secondary Secondary | 0.00 1.66 | 2 2 | 0 0% 2 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$22,550,000 \$ | | \$0 \$0 | \$0 \$2,255,000 \$0 \$0 | \$5,638,000 \$0 | \$2,255,000 \$0 | \$32,698,000 \$0 | \$21,835,000 \$0 |
| Central | Unincorporate | d Center (Main) | I-215 | interchange | Secondary | 0.00 | 0 (| 0 0% | 0.00 1 | 2 | 3 | 0 0 | 0 \$0 | \$0 | \$22,550,00 | 0 \$0 | \$0 | \$0 \$2,255,000 | | \$2,255,000 | \$32,698,000 | \$11,912,000 |
| Central Central | Unincorporate Unincorporate | d Center (Main) d Ellis | BNSF Post | railroad crossing SR-74 | Secondary Secondary | 0.00 2.65 | 2 2 | 2 0% 4 0% | 0.00 1 5.30 1 | 2 | 0 | 0 2 | 0 \$5,996,000 | \$0 \$2.596.000 | \$1 \$1 | 0 \$0 0 \$0 | \$13,800,000 \$0 | \$0 \$1,380,000 \$0 \$600,000 | \$3,450,000 \$1,499,000 | \$1,380,000 \$859,000 | \$20,010,000 \$11,550,000 | \$20,010,000 \$11,550,000 |
| Central | Unincorporate | d Mount Vernon/CETAP Corric | | Pigeon Pass | Secondary | 0.61 | 2 4 | 4 46% | 0.65 3 | 3 | ō | 0 0 | 0 \$1,537,000 | \$321,000 | \$1 | \$0 | \$0 | \$0 \$154,000 | \$384,000 | \$186,000 | \$2,582,000 | \$2,582,000 |
| Central Central | Unincorporate Unincorporate | | Dunlap San Jacinto River | Menifee bridge | Secondary Secondary | 2.00 0.00 | 2 4 | 4 0% 4 0% | 4.01 1 0.00 1 | 3 | 0 | 0 0 | 0 \$4,536,000 0 \$0 | \$1,963,000 \$0 | \$1 \$1 | 0 \$3,840,000 | \$0 \$0 | \$0 \$454,000 \$0 \$384,000 | \$1,134,000 \$960,000 | \$650,000 \$384,000 | \$8,737,000 \$5,568,000 | \$2,505,000 \$5,568,000 |
| Central | Unincorporate | d Pigeon Pass/CETAP Corridor | Hidden Springs | Mount Vernon | Secondary | 3.95 | 0 2 | 2 74% | 2.05 3 | 3 | 0 | 0 0 | 0 \$4,827,000 | | \$1 | \$0 | \$0 | \$0 \$483,000 | \$1,207,000 | \$583,000 | \$8,106,000 | \$8,106,000 |
| Central Central | Unincorporate Unincorporate | d Post d Reche Canyon | Santa Rosa Mine Reche Vista | Ellis Moreno Valley City Limit | Secondary Secondary | 0.44 3.20 | 0 (| 2 0% 0 0% | 0.00 2 0.00 2 | 3 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$1 \$1 | 50 50 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Unincorporate | d Redlands | San Timoteo Canyon SR-91 | Locust | Secondary | 2.54 | 2 | 2 0% | 0.00 2 | 3 | 0 | 0 0 | 0 \$0 | \$0 | \$ | 50 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | 6th Auto Center | SR-91 Railroad | Magnolia SR-91 | Secondary Secondary | 4.50 0.48 | 4 4 | 4 0% 4 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$\ \$\ | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Cajalco | Bedford Canyon | I-15 | Secondary | 0.15 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | | \$1 | | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Hidden Valley Lincoln | Norco Hills Parkridge | McKinley Ontario | Secondary Secondary | 0.59 3.20 | 4 | 4 0% 4 0% | 0.00 2 0.00 1 | 2 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 | \$1 \$1 | | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Magnolia | 6th | Sherborn | Secondary | 0.46 | 4 | 6 0% | 0.92 1 | 2 | 0 | 0 0 300 0 | 0 \$1,047,000 | | | | \$0 \$0 | \$0 \$105,000 | | \$608,000 | \$7,054,000 | \$6,419,000 |
| Northwest Northwest | Corona Corona | Magnolia Magnolia | Temescal Creek Sherborn | bridge Rimpau | Secondary Secondary | 0.00 0.53 | 6 | 6 0% 6 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$1 \$1 | | \$0 \$0 | \$0 \$288,000 \$0 \$0 | \$720,000 \$0 | \$288,000 \$0 | \$4,176,000 \$0 | \$3,580,000 \$0 |
| Northwest Northwest | Corona Corona | Magnolia Main | Rimpau Grand | Ontario Ontario | Secondary Secondary | 1.17 0.88 | 6 | 6 0% 2 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$1 | \$0 | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 |
| Northwest | Corona | Main | Ontario | Foothill | Secondary | 0.89 | 4 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest Northwest | Corona Corona | Main Main | Hidden Valley | Parkridge SR-91 | Secondary Secondary | 0.35 0.91 | 4 | 6 0% 6 0% | 0.70 1 0.00 1 | 2 | 0 | 0 0 | 0 \$789,000 0 \$0 | \$3,791,000 \$0 | \$1 | | \$0 \$0 | \$0 \$79,000 \$0 \$0 | \$197,000 \$0 | \$458,000 \$0 | \$5,314,000 \$0 | \$4,389,000 \$0 |
| Northwest | Corona | Main | Parkridge SR-91 | S. Grand | Secondary | 0.81 | 4 4 | 4 0% | 0.00 1 | i | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$ | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Corona | McKinley | Hidden Valley | Promenade | Secondary | 0.40 | 4 | 4 0% | 0.00 1 | 2 | 0 | 0 0 | 0 \$0 | \$0 | \$1 | | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | McKinley McKinley | Promenade SR-91 | SR-91 Magnolia | Secondary Secondary | 0.33 0.31 | 4 4 | 6 0% 4 0% | 0.00 1 0.00 1 | 1 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$1 | | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | McKinley | Arlington Channel | bridge | Secondary | 0.00 | 6 | 6 0% | 0.00 1 | į | 0 | 100 0 | 0 \$0 | \$0 | \$1 | 0 \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | McKinley Ontario | BNSF I-15 | railroad crossing El Cerrito | Secondary Secondary | 0.00 0.88 | 4 4 | 4 0% 6 0% | 0.00 1 1.76 1 | 1 2 | 0 | U 1 0 0 | 0 \$0 0 \$1,997,000 | \$0 \$9,596,000 | \$\ \$\ | | \$72,800,000 \$0 | \$0 \$7,280,000 \$0 \$200,000 | \$18,200,000 \$499,000 | \$7,280,000 \$1,159,000 | \$105,560,000 \$13,451,000 | \$0 \$13,451,000 |
| Northwest | Corona | Ontario | Lincoln | Buena Vista | Secondary | 0.32 | 4 | 4 0% | 0.00 1 | 2 | ō | 0 0 | 0 \$0 | \$0 | \$ | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Ontario Ontario | Buena Vista Main | Main Kellogg | Secondary Secondary | 0.65 0.78 | 6 | 6 0% 6 0% | 0.00 1 0.00 1 | 2 | 0 | 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$1 \$1 | ∪ \$0 0 .\$∩ | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Ontario | Kellogg | Fullerton | Secondary | 0.32 | 6 | 6 0% | 0.00 1 | į | 0 | 0 0 | 0 \$0 | \$0 | \$ | 50 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Ontario Ontario | Fullerton Rimpau | Rimpau I-15 | Secondary Secondary | 0.42 0.67 | 6 | 6 0% 6 0% | 0.00 1 0.00 1 | 1 | 0 | U 0 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$1 \$1 | | \$0 \$0 | \$0 \$0 \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Railroad | Auto Club | Buena Vista | Secondary | 2.45 | 4 | 4 0% | 0.00 1 | 2 | ō | 0 0 | 0 \$0 | \$0 | \$1 | 50 \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Corona Corona | Railroad Railroad | BNSF Buena Vista | railroad crossing Main (at Grand) | Secondary Secondary | 0.00 0.58 | 4 2 | 4 0% 2 0% | 0.00 1 0.00 1 | 2 2 | 0 | U 2 0 0 | 0 \$0 0 \$0 | \$0 \$0 | \$1 \$1 | | \$27,600,000 \$0 | \$0 \$2,760,000 \$0 \$0 | \$6,900,000 \$0 | \$2,760,000 \$0 | \$40,020,000 \$0 | \$40,020,000 \$0 |
| Northwest | Corona | River | Corydon | Main | Secondary | 2.28 | 4 | 4 0% | 0.00 1 | 2 | ō | 0 0 | 0 \$0 | \$0 | \$1 | 0 \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Corona | Serfas Club | SR-91 | Green River | Secondary | 0.96 | 4 | 4 0% | 0.00 1 | 2 | 0 | υ 0 | 0 \$0 | \$0 | \$1 | 0 \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |

Updated: July 23, 2024

| EXHIBIT H-1 | TIIME | Network | Detailed | Cost | Estimate |
|-------------|-------|---------|-----------------|------|----------|
| | | | | | |

| EXHIBIT | | Network Detailed | | | | | | | | | | | | | | | | | | | | ated: July 23, 2024 |
|--------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------------------|------------------------|------------------|--------------|---------------------------------------|--------------|---------------|--------------|--------------------------------|-----------------------------|------------------|--------------------|--------------|------------------------|------------------------|------------------------|--------------------------|------------------------------|-----------------------------|
| AREA PLAN D Northwest | T CITY Eastvale | STREETNAME Archibald | SEGMENTFROM Reminaton | SEGMENTTO River | NETWORK 1 Secondary | 3.40 4 | JRELN % COMP | PLETE INCREASELN MILES TO 82% 0.00 | O LANDUSE IN | TERCHG BRIDGE | RRXING ITS | NEWLNCOST F | ROWCOST IN | NTCHGCOST E | SRDGCOST RR: | XCOST ITS | \$2.333.000 | LNG ENG \$233,000 | \$583.000 | NTIG TO \$233,000 | STAL COST MAX \$3,382,000 | \$3,382,000 |
| Northwest | Eastvale | Hamner | Mission | Bellegrave | Secondary | 3.03 6 | 6 | 0% 0.00 | 1 3 | Ö | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Eastvale | Hamner | Bellegrave | Amberhill | Secondary | 0.20 6 | 6 | 0% 0.00 | 1 3 | 0 | 0 0 | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$137,000 | \$14,000 | \$34,000 | \$14,000 | \$199,000 | \$199,000 |
| Northwest Northwest | Eastvale Eastvale | Hamner Hamner | Amberhill Limonite | Limonite Schleisman | Secondary Secondary | 0.71 2 | 6 | 55% 1.28 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$1,447,000 | \$626,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$684,000 | \$145,000 \$68,000 | \$362,000 \$171,000 | \$207,000 \$68.000 | \$2,787,000 \$991,000 | \$2,787,000 \$991,000 |
| Northwest | Eastvale | Hamner | Schleisman | Santa Ana River | Secondary | 0.82 2 | 6 | 23% 2.54 | 1 3 | 0 | 0 0 | 0 \$2,873,000 | \$1,243,000 | \$0 | \$0 | \$0 | \$0 | \$287,000 | \$718,000 | \$412,000 | \$5,533,000 | \$3,675,000 |
| Northwest | Eastvale | Hellman | Schleisman | Walters | Secondary | 0.55 2 | 4 | 90% 0.06 | 1 2 | 0 | 0 0 | 0 \$62,000 | \$299,000 | \$0 | \$0 | \$0 | \$0 | \$6,000 | \$16,000 | \$36,000 | \$419,000 | \$419,000 |
| Northwest Northwest | Eastvale Eastvale | Hellman Hellman | Walters Cucamonga Creek | River bridge | Secondary Secondary | 1.41 2 | 4 | 0% 2.82 0% 0.00 | 1 2 | 0 | 0 0 275 0 | 0 \$3,192,000 | \$15,341,000 \$0 | \$0 \$0 | \$0 \$2,640,000 | \$0 \$0 | \$0 \$0 | \$319,000 \$264,000 | \$798,000 \$660,000 | \$1,853,000 \$264,000 | \$21,503,000 \$3,828,000 | \$21,503,000 \$3,828,000 |
| Northwest | Eastvale | Limonite | I-15 | Eastvale Gateway | Secondary | 0.29 6 | 6 | 0% 0.00 | 1 3 | Ö | 0 0 | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$199,000 | \$20,000 | \$50,000 | \$20,000 | \$289,000 | \$289,000 |
| Northwest | Eastvale | Limonite | I-15 | interchange | Secondary | 0.00 0 | 0 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Eastvale Fastvale | Limonite Limonite | Eastvale Gateway Hamner | Hamner Sumner | Secondary Secondary | 0.26 6 | 6 | 0% 0.00 75% 0.50 | 1 3 | 0 | 0 0 | 0 \$568,000 | \$0 \$246,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$175,000 \$0 | \$18,000 \$57,000 | \$44,000 \$142,000 | \$18,000 \$81,000 | \$255,000 \$1.094,000 | \$255,000 \$1,094,000 |
| Northwest | Eastvale | Limonite | Sumner | Harrison | Secondary | 0.50 6 | 6 | 0.00 | i š | ŏ | ŏ ŏ | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$343,000 | \$34,000 | \$86,000 | \$34,000 | \$497,000 | \$497,000 |
| Northwest Northwest | Eastvale Eastvale | Limonite Limonite | Harrison Archibald | Archibald Hellman (Keller SBD Co.) | Secondary Secondary | 0.49 4 1.15 0 | 4 | 0% 0.00 78% 1.01 | 1 3 | 0 | 0 0 | 0 \$0 0 \$1,146,000 | \$0 \$496,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$115,000 | \$0 \$287,000 | \$0 \$164,000 | \$0 \$2,208,000 | \$0 \$2,208,000 |
| Northwest | Eastvale | Limonite | Cucamonga Creek | bridge | Secondary | 0.00 0 | 4 | 0% 0.00 | 1 3 | 0 | 500 0 | 0 \$1,146,000 | \$476,000 | \$0 \$0 | \$9,600,000 | \$0 | \$0 | \$960,000 | \$2,400,000 | \$960,000 | \$13,920,000 | \$2,200,000 |
| Northwest | Eastvale | River | Hellman | Archibald | Secondary | 0.75 2 | 4 | 48% 0.78 | 1 2 | 0 | 0 0 | 0 \$883,000 | \$4,243,000 | \$0 | \$0 | \$0 | \$0 | \$88,000 | \$221,000 | \$513,000 | \$5,948,000 | \$5,948,000 |
| Northwest | Jurupa Valley | | San Bernardino County | Valley | Secondary | 1.53 2 | 4 | 34% 2.02 | 2 3 | 0 | 0 0 | 0 \$3,518,000 | \$991,000 | \$0 | \$0 | \$0 | \$0 | \$352,000 | \$880,000 | \$451,000 | \$6,192,000 | \$6,192,000 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | Cantu-Galleano Ranch Wineville | Van Buren Bellegrave | Secondary Secondary | 0.29 2 1.82 0 | 2 | 63% 0.21 90% 0.36 | 1 3 | 0 | 0 0 | 0 \$241,000 0 \$412,000 | \$104,000 \$178,000 | \$0 \$0 | \$U .\$O | \$0 \$0 | \$0 \$0 | \$24,000 \$41,000 | \$60,000 \$103,000 | \$35,000 \$59,000 | \$464,000 \$793,000 | \$464,000 \$793,000 |
| Northwest | Jurupa Valley | | Philadelphia | SR-60 | Secondary | 1.05 4 | 6 | 67% 0.69 | 1 3 | 0 | 0 0 | 0 \$786,000 | \$340,000 | \$0 | \$0 | \$0 | \$0 | \$79,000 | \$197,000 | \$113,000 | \$1,515,000 | \$989,000 |
| Northwest Northwest | Jurupa Valley | | SR-60 I-15 | Limonite Wineville | Secondary Secondary | 2.95 4 0.47 6 | 4 | 0% 0.00 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Jurupa Valley Jurupa Valley | | Wineville | Etiwanda | Secondary | 0.47 6 | 4 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Etiwanda | Van Buren | Secondary | 2.73 2 | 4 | 75% 1.37 | 1 3 | 0 | 0 0 | 0 \$1,547,000 | \$670,000 | \$0 | \$0 | \$0 | \$0 | \$155,000 | \$387,000 | \$222,000 | \$2,981,000 | \$2,981,000 |
| Northwest | Jurupa Valley | | Van Buren | Clay | Secondary | 0.79 4 | 4 | 0% 0.00 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | Clay Rubidoux | Riverview Santa Ana River | Secondary Secondary | 2.45 4 1.19 2 | 4 | 0% 0.00 0% 2.38 | 1 3 | 0 | 0 0 | 0 \$2,690,000 | \$1,164,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$269,000 | \$673,000 | \$385,000 | \$5,181,000 | \$0 \$0 |
| Northwest | Jurupa Valley | | Santa Ana River | bridge | Secondary | 0.00 2 | 4 | 0.00 | 1 3 | 0 | 1,000 0 | 0 \$0 | \$0 | \$0 | \$9,600,000 | \$0 | \$0 | \$960,000 | \$2,400,000 | \$960,000 | \$13,920,000 | \$6,204,000 |
| Northwest Northwest | Jurupa Valley | | Milliken SR-60 | SR-60 Santa Ana River | Secondary | 2.10 4 7.24 4 | 4 | 0% 0.00 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Jurupa Valley Jurupa Valley | | Limonite | Mission | Secondary Secondary | 0.95 4 | 4 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Pine | Mission | Secondary | 2.90 4 | 4 | 0.00 | 2 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | SR-60 Armstrong | interchange Mission | Secondary | 0.00 0 0.48 4 | 0 | 0% 0.00 0% 0.00 | 2 3 | 3 | 0 0 | 0 \$0 | \$0 \$0 | \$22,550,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 \$0 | \$9,051,000 |
| Northwest | Norco | 1st | Parkridge | Mountain | Secondary Secondary | 0.26 2 | 2 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Norco | 1st | Mountain | Hamner | Secondary | 0.26 4 | 4 | 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Norco Norco | 2nd 6th | River Hamner | I-15 California | Secondary Secondary | 1.39 2 | 2 | 0% 0.00 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Norco | 6th | I-15 | interchange | Secondary | 0.00 0 | 0 | 0% 0.00 | 1 2 | 3 | 0 0 | 0 \$0 | \$0 | \$22,550,000 | \$0 | \$0 | \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$3,489,000 |
| Northwest | Norco | Arlington | Crestview | Fairhaven | Secondary | 1.00 2 | 4 | 0% 1.99 | 1 3 | 0 | 0 0 | 0 \$2,254,000 | \$976,000 | \$0 | \$0 | \$0 | \$0 | \$225,000 | \$564,000 | \$323,000 | \$4,342,000 | \$4,342,000 |
| Northwest Northwest | Norco Norco | California Corydon | Arlington River | 6th 5th | Secondary Secondary | 1.05 2 | 4 | 5% 2.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$2,262,000 | \$10,870,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$226,000 | \$566,000 \$0 | \$1,313,000 | \$15,237,000 \$0 | \$12,525,000 |
| Northwest | Norco | Hamner | Santa Ana River | bridge | Secondary | 0.00 2 | 6 | 0% 0.00 | 1 3 | 0 | 1,200 0 | 0 \$0 | \$0 | \$0 | \$23,040,000 | \$0 | \$0 | \$2,304,000 | \$5,760,000 | \$2,304,000 | \$33,408,000 | \$11,455,000 |
| Northwest | Norco | Hamner | Santa Ana River | Hidden Valley | Secondary | 3.25 4 | 6 | 0% 6.50 | 1 2 | 0 | 0 0 | 0 \$7,362,000 | \$35,378,000 | \$0 | \$0 | \$0 | \$0 | \$736,000 | \$1,841,000 | \$4,274,000 | \$49,591,000 | \$49,591,000 |
| Northwest Northwest | Norco Norco | Hidden Valley Hidden Valley | I-15 Hamner | Norco Hills I-1.5 | Secondary Secondary | 1.46 4 0.19 4 | 4 | 0% 0.00 0% 0.00 | 2 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Norco | Norco | Corydon | Hamner | Secondary | 1.20 2 | 2 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Norco | North | California | Crestview | Secondary | 0.25 2 | 2 | 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Norco | River 14th | Archibald | Corydon | Secondary | 1.14 2 0.89 4 | 4 | 90% 0.23 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$259,000 | \$1,243,000 | \$0 | \$0 | \$0 | \$0 \$0 | \$26,000 \$0 | \$65,000 \$0 | \$150,000 | \$1,743,000 \$0 | \$1,109,000 |
| Northwest Northwest | Riverside Riverside | 14III 1st | Market Market | Martin Luther King Main | Secondary Secondary | 0.09 4 | 2 | 0% 0.00 | 1 1 | 0 | 0 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | 3rd | SR-91 | I-215 | Secondary | 1.34 3 | 4 | 81% 0.25 | 1 2 | 0 | 0 0 | 0 \$288,000 | \$1,385,000 | \$0 | \$0 | \$0 | \$0 | \$29,000 | \$72,000 | \$167,000 | \$1,941,000 | \$1,941,000 |
| Northwest Northwest | Riverside Riverside | 3rd Adams | BNSF Arlington | railroad crossing SR-91 | Secondary Secondary | 0.00 4 1.56 4 | 4 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 1 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$72,800,000 | \$0 \$0 | \$7,280,000 | \$18,200,000 \$0 | \$7,280,000 | \$105,560,000 \$0 | \$30,560,000 |
| Northwest | Riverside | Adams | SR-91 | Lincoln | Secondary | 0.54 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Adams | SR-91 | interchange | Secondary | 0.00 | 0 | 0.00 | 1 2 | 3 | 0 0 | 0 \$0 | \$0 | \$22,550,000 | \$0 | \$0 | \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$3,262,000 |
| Northwest Northwest | Riverside Riverside | Arlington Buena Vista | Fairhaven Santa Ana River | La Sierra Redwood | Secondary Secondary | 0.61 4 0.30 4 | 4 | 0% 0.00 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Canyon Crest | Martin Luther King | Central | Secondary | 0.95 4 | 4 | 0% 0.00 | 2 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Canyon Crest | Central | Country Club | Secondary | 0.59 4 | 4 | 0% 0.00 | 2 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Canyon Crest Canyon Crest | Country Club Via Vista | Via Vista Alessandro | Secondary Secondary | 0.93 2 0.68 4 | 4 | 12% 1.63 0% 0.00 | 2 3 | 0 | 0 0 | 0 \$2,839,000 | \$799,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$284,000 \$0 | \$710,000 \$0 | \$364,000 \$0 | \$4,996,000 \$0 | \$1,593,000 |
| Northwest | Riverside | Central | Chicago | I-215/SR-60 | Secondary | 2.22 4 | 4 | 0.00 | 1 2 | Ö | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Central | SR-91 | Magnolia | Secondary | 0.73 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Central Central | Alessandro Van Buren | SR-91 Magnolia | Secondary Secondary | 2.09 4 3.53 4 | 4 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Chicago | Alessandro | Spruce | Secondary | 3.43 4 | 4 | 0% 0.00 | 1 2 | Ö | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Chicago | Spruce | Columbia | Secondary | 0.75 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Columbia Columbia | Main I-215 | lowa interchange | Secondary Secondary | 1.09 4 0.00 0 | 0 | 0% 0.00 0% 0.00 | 1 2 | 3 | 0 0 | 0 \$0 | \$0 \$0 | \$22,550,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$2,255,000 | \$5,638,000 | \$2,255,000 | \$32,698,000 | \$9,050,000 |
| Northwest | Riverside | lowa | Center | 3rd | Secondary | 2.26 4 | 6 | 12% 3.97 | 1 2 | Ō | 0 0 | 0 \$4,494,000 | \$21,596,000 | \$0 | \$0 | \$0 | \$0 | \$449,000 | \$1,124,000 | \$2,609,000 | \$30,272,000 | \$30,272,000 |
| Northwest | Riverside | lowa | 3rd | University | Secondary | 0.51 4 | 4 | 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | lowa JFK | University Trautwein | Martin Luther King Wood | Secondary Secondary | 0.51 4 0.48 2 | 4 | 0% 0.00 10% 0.86 | 1 2 | 0 | 0 0 | 0 \$976,000 | \$0 \$422,000 | ΦU 0.8 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$98,000 | \$0 \$244,000 | \$0 \$140,000 | \$0 \$1,880,000 | \$0 \$1,880,000 |
| Northwest | Riverside | La Sierra | Arlington | SR-91 | Secondary | 3.56 4 | 4 | 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside Piverside | La Sierra | SR-91 | Indiana Victoria | Secondary | 0.19 6 0.78 4 | 6 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$133,000 \$536,000 | \$13,000 \$54,000 | \$33,000 \$134,000 | \$13,000 \$54,000 | \$192,000 \$778,000 | \$192,000 \$778,000 |
| Northwest Northwest | Riverside Riverside | La Sierra Lemon (NB One way) | Indiana Mission Inn | Victoria University | Secondary Secondary | 0.78 4 | 2 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$536,000 \$0 | \$54,000 \$0 | \$134,000 \$0 | φ34,000 \$0 | \$778,000 | \$778,000 |
| Northwest | Riverside | Lincoln | Van Buren | Jefferson | Secondary | 2.00 4 | 4 | 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside Piverside | Lincoln | Jefferson Washington | Washington Victoria | Secondary | 1.00 2 | 2 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest Northwest | Riverside Riverside | Lincoln Madison | Washington SR-91 | Victoria Victoria | Secondary Secondary | 1.43 2 0.86 2 | 2 | 0% 0.00 | 1 2 | 0 | 0 0 | 1 \$0 | \$0 \$0 | | \$0 \$0 | \$0 \$0 | \$588,000 | \$59,000 | \$147,000 | \$59,000 | \$853,000 | \$853,000 |
| Northwest | Riverside | Madison | BNSF | railroad crossing | Secondary | 0.00 2 | 2 | 0.00 | 1 2 | ō | 0 2 | 0 \$0 | \$0 | \$0 | \$0 | \$13,800,000 | \$0 | \$1,380,000 | \$3,450,000 | \$1,380,000 | \$20,010,000 | \$20,010,000 |
| Northwest | Riverside | Magnolia | BNSF Railroad BNSF | Tyler | Secondary | 2.70 4 0.00 4 | 4 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest Northwest | Riverside Riverside | Magnolia Magnolia | Tyler | railroad crossing Harrison | Secondary Secondary | 0.65 6 | 6 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Magnolia | Harrison | 14th | Secondary | 5.98 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Main | 1st | San Bernardino County | Secondary | 2.19 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Market Martin Luther King | 14th 14th | Santa Ana River I-215/SR-60 | Secondary Secondary | 2.59 2 2.22 4 | 6 | 76% 1.24 29% 3.15 | 1 2 | 0 | 0 0 | 0 \$1,409,000 0 \$3,567,000 | \$6,771,000 \$17,144,000 | φ0 Ω 2 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$141,000 \$357,000 | \$352,000 \$892,000 | \$818,000 \$2,071,000 | \$9,491,000 \$24,031,000 | \$9,491,000 \$24,031,000 |
| Northwest | Riverside | Mission Inn | Redwood | Lemon | Secondary | 0.79 2 | 2 | 0.00 | 1 3 | ō | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Redwood (SB One way) | Mission Inn | University | Secondary | 0.08 4 | 4 | 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Trautwein Tvler | Alessandro SR-91 | Van Buren Magnolia | Secondary Secondary | 2.19 4 0.43 6 | 4 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$U \$∩ | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Tyler | SR-91 | interchange | Secondary | 0.00 | ő | 0.00 | 1 2 | 2 | 0 0 | 0 \$0 | \$0 \$0 | \$43,490,000 | \$0 | \$0 \$0 | \$0 | \$4,349,000 | \$10,873,000 | \$4,349,000 | \$63,061,000 | \$21,814,000 |
| Northwest | Riverside | Tyler | Magnolia | Hole | Secondary | 0.27 6 | 6 | 0.00 | 1 2 | 0 | 0 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Tyler Tyler | Hole Wells | Wells Arlington | Secondary Secondary | 1.06 4 1.35 2 | 4 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | U \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | University | Redwood | SR-91 | Secondary | 0.86 4 | 4 | 0.00 | 1 3 | ő | o o | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$593,000 | \$59,000 | \$148,000 | \$59,000 | \$859,000 | \$859,000 |
| Northwest | Riverside | University | SR-91 | I-215/SR-60 | Secondary | 2.08 4 | 4 | 0% 0.00 | 1 2 | 0 | 0 0 | 1 \$0 | \$0 | \$0 | \$0 | \$0 | \$1,425,000 | \$143,000 | \$356,000 | \$143,000 | \$2,067,000 | \$2,067,000 |
| Northwest Northwest | Riverside Riverside | Victoria Victoria | Lincoln Madison | Arlington Washington | Secondary Secondary | 0.16 2 0.52 2 | 2 | 0% 0.00 0% 0.00 | 1 2 | 0 | 0 0 | 0 \$0 0 \$0 | 04 02. | \$0 \$∩ | \$U .\$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Washington | Victoria | Hermosa | Secondary | 2.06 2 | 4 | 14% 3.54 | 1 2 | Ō | 0 0 | 0 \$4,011,000 | | \$0 | \$0 | \$0 | \$0 | \$401,000 | \$1,003,000 | \$2,329,000 | \$27,018,000 | \$27,018,000 |
| Northwest Northwest | Riverside Piverside | Wood | JFK Van Buren | Van Buren Bergamont | Secondary | 0.70 2 0.11 4 | 4 | 0% 1.40 0% 0.00 | 1 3 | 0 | 0 0 | 0 \$1,585,000 0 \$0 | \$686,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$159,000 \$0 | \$396,000 \$0 | \$227,000 \$0 | \$3,053,000 \$0 | \$3,053,000 |
| Northwest | Riverside Riverside | Wood Wood | Bergamont | Bergamont Krameria | Secondary Secondary | 0.11 4 | 4 | 0% 0.00 | 1 3 | 0 | 0 | 0 \$0 | \$0 \$0 | φO | фU | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | φU | \$0 \$0 | \$0 \$0 |

Updated: July 23, 2024

| EXHIBIT H-1 | TUMF Network Details | ed Cost Estimate |
|---------------------|----------------------|------------------|
| AREA PLAN DIST CITY | STREETNAME | SEGMENTFROM |

| AREA PLAN D | | SEGMENTFROM | SEGMENTTO | NETWORK | | STINGLN FUTURE | .N % COMPLE | TE INCREASELN MILES TOPO | LANDUSE | INTERCHG | BRIDGE | RRXING | ITS | NEWLNCOST R | OWCOST | INTCHGCOST | BRDGCOST R | RRXCOST | ITSCOST | PLNG | ENG | CONTIG | TOTAL COST | MAXIMUM TUMF SHARE |
|----------------------------|---------------------------------------------------------------------|-------------------------------------------|--------------------------------------|------------------------|--------------|----------------|-------------|--------------------------|---------|----------|--------|----------|-----|------------------------|--------------------|--------------|----------------------------|--------------|---------|---------------------------------------|---------------|--------------|---------------------|---------------------------|
| Northwest Northwest | Unincorporated Cantu-Galleano Ranch | Hamner | Wineville I-15 | Secondary | 0.94 0.17 | 6 | 6 | 0% 0.00 0% 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 9 | 50 | 0 \$0 |
| Northwest | Unincorporated Dos Lagos (Weirick) Unincorporated El Cerrito | Temescal Canyon I-15 | Ontario | Secondary Secondary | 0.17 | 4 | 4 | 0% 0.00 | i | 3 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 .\$0 | \$0 \$0 | | \$0 \$ \$0 \$ | O \$ | 0 5 | NO 5 | 50 \$0 50 \$0 |
| Northwest | Unincorporated El Sobrante | Mockingbird Canyon | Cajalco | Secondary | 1.05 | 2 | 2 | 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 9 | \$O 5 | iO \$0 |
| Northwest | Unincorporated Harley John | Washington | Scottsdale | Secondary | 0.12 | 4 | 4 | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$0 9 | 0 \$0 |
| Northwest | Unincorporated Harley John | Scottsdale | Cajalco | Secondary | 1.19 | 2 | 2 | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 50 \$0 |
| Northwest Northwest | Unincorporated La Sierra Unincorporated La Sierra | Victoria El Sobrante | El Sobrante Cajalco | Secondary Secondary | 2.23 2.36 | 4 | 4 | 0% 0.00 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 3 | \$0 \$0 | O \$0 |
| Northwest | Unincorporated Mockingbird Canyon | Van Buren | El Sobrante | Secondary | 3.41 | 2 | 4 | 0% 6.82 | 2 | 3 | 0 | 0 | 0 | 0 \$11,860,000 | \$3,340,000 | \$0 | \$0 | \$0 | | \$0 \$1,186,00 | 0 \$2,965,00 | 0 \$1,520,00 | 00 \$20,871,00 | 0 \$20,871,000 |
| Northwest | Unincorporated Temescal Canyon | El Cerrito | Tuscany | Secondary | 0.65 | 2 | 4 | 20% 1.03 | 2 | 3 | 0 | 0 | 0 | 0 \$1,800,000 | \$507,000 | \$0 | \$0 | \$0 | | \$0 \$180,00 | 0 \$450,00 | 0 \$231,00 | | |
| Northwest Northwest | Unincorporated Temescal Canyon Unincorporated Temescal Canyon | Tuscany | Dos Lagos Lerov | Secondary Secondary | 0.91 | 4 | 4 | 0% 0.00 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ 0 \$ | 0 5 | 50 | 60 \$0 |
| Northwest | Unincorporated Temescal Carryon | Dos Lagos Leroy | Dawson Canyon | Secondary | 1.10 | 4 | 4 | 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$O | \$0 | | \$0 \$ \$0 \$ | 0 \$ | | NO 5 | iO \$0 |
| Northwest | Unincorporated Temescal Canyon | Dawson Canyon | I-15 | Secondary | 0.49 | 4 | 4 | 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$0 5 | 60 \$0 |
| Northwest | Unincorporated Temescal Canyon | I-15 | interchange | Secondary | 0.00 | 0 | 0 | 0% 0.00 | 2 | 3 | 3 | 0 | 0 | 0 \$0 | \$0 | \$22,550,000 | \$0 | \$0 | | \$0 \$2,255,00 | | | | |
| Northwest Northwest | Unincorporated Temescal Canyon Unincorporated Temescal Canyon | I-15 Park Canyon | Park Canyon Indian Truck Trail | Secondary Secondary | 2.02 2.55 | 2 | 4 | 10% 3.63 0% 0.00 | 3 | 3 | 0 | 0 | 0 | 0 \$8,533,000 | \$1,779,000 | \$0 | \$0 | \$0 | | \$0 \$853,00 | 0 \$2,133,00 | 0 \$1,031,00 | 00 \$14,329,00 | 0 \$14,329,000 |
| Northwest | Unincorporated Washington | Hermosa | Harley John | Secondary | 3.96 | 2 | 4 | 26% 5.86 | 1 | 3 | 0 | 0 | 0 | 0 \$6,638,000 | \$2,874,000 | \$0 | \$0 | \$0 | | \$0 \$664,00 | 0 \$1,660,00 | 0 \$951,00 | 00 \$12,787,00 | 10 \$12,787,000 |
| Northwest | Unincorporated Wood | Krameria | Cajalco | Secondary | 2.99 | 2 | 4 | 4% 5.75 | 1 | 3 | 0 | 0 | 0 | 0 \$6,509,000 | \$2,817,000 | \$0 | \$0 | \$0 | | \$0 \$651,00 | | | | |
| Pass | Banning 8th | Wilson | I-10 | Secondary | 0.54 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 0 \$0 |
| Pass Pass | Banning Lincoln Banning Ramsey | Sunset I-10 | SR-243 8th | Secondary Secondary | 2.01 1.70 | 2 | 2 | 0% 0.00 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | \$0 \$ \$0 \$ | 0 \$ 0 \$ | - | NO S | O \$0 |
| Pass | Banning Ramsey | 8th | Highland Springs | Secondary | 3.55 | 4 | 4 | 0% 0.00 | i | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O 5 | io \$0 \$0 |
| Pass | Banning SR-243 | I-10 | Wesley | Secondary | 0.62 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | - | \$0 9 | 0 \$0 |
| Pass | Banning Sun Lakes | Highland Home | Sunset | Secondary | 1.00 | 0 | 4 | 0% 4.00 0% 0.00 | 1 | 2 | 0 | 0 300 | 0 | 0 \$4,528,000 | \$21,760,000 | \$0 \$0 | \$0 | \$0 | | \$0 \$453,00 | | | | |
| Pass Pass | Banning Sun Lakes Bannina Sun Lakes | Smith Creek Montgomery Creek | bridge bridge | Secondary Secondary | 0.00 | 0 | 4 | 0% 0.00 0% 0.00 | 1 | 2 | | 200 | 0 | 0 \$0 | \$U \$0 | \$U \$0 | \$5,760,000 \$3,840,000 | \$0 \$0 | | \$0 \$576,00 \$0 \$384,00 | | | | |
| Pass | Banning Sun Lakes | Highland Springs | Highland Home | Secondary | 1.33 | 4 | 4 | 0% 0.00 | i | 2 | 0 | 0 | Ö | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | | | βO φο,οσο,ος | |
| Pass | Banning Sunset | Ramsey | Lincoln | Secondary | 0.28 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 | \$0 | 0 \$0 |
| Pass | Banning Sunset | I-10 | interchange | Secondary | 0.00 | 0 | 0 | 0% 0.00 | 1 | 2 | 3 | 0 | 0 | 0 \$0 | \$0 | \$22,550,000 | \$0 | \$0 | | \$0 \$2,255,00 | 0 \$5,638,00 | 0 \$2,255,00 | 00 \$32,698,00 | 0 \$32,698,000 |
| Pass Pass | Banning Wilson Banning Wilson | Highland Home Highland Springs | 8th Highland Home | Secondary Secondary | 2.51 1.01 | 4 | 4 4 | 0% 0.00 00% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 0 \$n | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | ⊅∪ \$ \$0 \$ | ∪ \$ ∩ • | 0 5 | ρυ S SΩ 9 | iO \$0 |
| Pass | Beaumont 1st | Viele | Pennsylvania | Secondary | 1.28 | 2 | 2 | 0% 0.00 | i | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O 5 | io \$0 \$0 |
| Pass | Beaumont 1st | Pennsylvania | Highland Springs | Secondary | 1.10 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$0 9 | 0 \$0 |
| Pass | Beaumont 6th Beaumont Desert Lawn | I-10 Champions | Highland Springs Oak Vallev (STC) | Secondary Secondary | 2.24 0.99 | 4 | 4 | 0% 0.00 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 60 \$0 |
| Pass Pass | Beaumont Desert Lawn Beaumont Oak Valley (14th) | Highland Springs | Pennsylvania | Secondary | 1.13 | 4 | 4 | 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$O | \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 5 | NO 5 | iO \$0 |
| Pass | Beaumont Oak Valley (14th) | Pennsylvania | Oak View | Secondary | 1.40 | 4 | 4 | 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O . | 60 \$0 |
| Pass | Beaumont Oak Valley (14th) | Oak View | I-10 | Secondary | 0.65 | 4 | 4 | 50% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 0 \$0 |
| Pass Pass | Beaumont Oak Valley (14th) Beaumont Oak Valley (STC) | I-10 UP Railroad | interchange Tukwet Canyon | Secondary Secondary | 0.00 2.94 | 0 | 0 | 0% 0.00 0% 0.00 | 1 | 2 | 2 | 0 | 0 | 0 \$0 | \$0 \$0 | \$43,490,000 | \$0 | \$0 \$0 | | \$0 \$4,349,00 | 0 \$10,873,00 | 0 \$4,349,00 | 00 \$63,061,00 | 0 \$62,401,000 |
| Pass | Beaumont Oak Valley (STC) | Tukwet Canvon | I-10 | Secondary | 2.58 | 2 | 2 | 0% 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$O | \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 5 | NO 5 | iO \$0 |
| Pass | Beaumont Pennsylvania | 6th | 1st | Secondary | 0.53 | 2 | 4 | 18% 0.86 | 1 | 2 | 0 | 0 | 0 | 0 \$978,000 | \$4,699,000 | \$0 | \$0 | \$0 | | \$0 \$98,00 | 0 \$245,00 | 0 \$568,00 | 00 \$6,588,00 | 0 \$6,588,000 |
| Pass | Beaumont Pennsylvania | I-10 | interchange | Secondary | 0.00 | 0 | 0 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$0 5 | 60 \$0 |
| Pass Pass | Calimesa Bryant Calimesa Calimesa | County Line County Line | Avenue L I-10 | Secondary Secondary | 0.38 | 2 | 2 | 0% 0.00 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | iO \$0 |
| Pass | Calimesa Calimesa | I-10 | interchange | Secondary | 0.00 | 0 | 0 | 0% 0.00 | i | 2 | 2 | 0 | 0 | 0 \$0 | \$0 | \$43,490,000 | \$0 | \$0 | | \$0 \$4,349,00 | 0 \$10,873,00 | 0 \$4,349,00 | 00 \$63,061,00 | 0 \$63,061,000 |
| Pass | Calimesa County Line | 7th | Bryant | Secondary | 1.83 | 2 | 2 | 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 9 | \$0 9 | iO \$0 |
| Pass | Calimesa County Line | I-10 | interchange | Secondary | 0.00 | 0 | 0 | 0.00 | 1 | 2 | 3 | 0 | 0 | 0 \$0 | \$0 | \$22,550,000 | \$0 | \$0 | | \$0 \$2,255,00 | 0 \$5,638,00 | 0 \$2,255,00 | | |
| Pass Pass | Calimesa Desert Lawn Calimesa Singleton | Palmer Avenue L | Champions Condit | Secondary Secondary | 1.42 | 2 | 2 | 0% 0.00 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 3 | \$0 S | O \$0 |
| Pass | Calimesa Singleton | Condit | Roberts | Secondary | 0.85 | 2 | 4 | 0% 1.70 | 1 | 2 | 0 | 0 | 0 | 0 \$1,926,000 | \$9,253,000 | \$0 | \$0 | \$0 | | \$0 \$193,00 | 0 \$482,00 | 0 \$1,118,00 | 00 \$12,972,00 | 0 \$12,972,000 |
| Pass | Calimesa Singleton | I-10 | interchange | Secondary | 0.00 | 0 | 0 | 0.00 | 1 | 2 | 2 | 0 | 0 | 0 \$0 | \$0 | \$43,490,000 | \$0 | \$0 | | \$0 \$4,349,00 | 0 \$10,873,00 | 0 \$4,349,00 | 00, \$63,061,00 | |
| Pass Pass | Calimesa Tukwet Canyon | Roberts Rd | Palmer | Secondary | 0.25 | 4 | 4 | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | | \$0 \$0 | |
| Pass Pass | Unincorporated Live Oak Canyon Unincorporated San Timoteo Canyon | Oak Valley (STC) San Bernardino County | San Bernardino County UP Railroad | Secondary Secondary | 2.81 5.65 | 2 | 2 | 0% 0.00 0% 0.00 | 2 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 3 | \$0 \$0 | O \$0 |
| Pass | Unincorporated San Timoteo Canyon | UP Railroad | railroad crossing | Secondary | 0.00 | 2 | 2 | 0% 0.00 | 2 | 3 | 0 | 0 | 1 | 0 \$0 | \$0 | \$0 | \$0 | \$36,400,000 | | \$0 \$3,640,00 | 0 \$9,100,00 | 0 \$3,640,00 | 00 \$52,780,00 | 0 \$52,780,000 |
| San Jacinto | Hemet Sanderson | Acacia | Menlo | Secondary | 0.98 | 4 | 4 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 . | \$0 | \$0 |
| San Jacinto | Hemet Sanderson | Domenigoni | Stetson | Secondary | 1.09 | 4 | 4 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 50 \$0 |
| San Jacinto San Jacinto | Hemet Sanderson Hemet Sanderson | RR Crossing Stetson | Acacia RR Crossing | Secondary Secondary | 0.42 | 4 | 4 | 0% 0.00 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$U \$0 | \$U \$0 | \$U \$0 | \$0 | | ֆ∪ ֆ ፍ ∩ ፍ | U \$ | 0 3 | NO S | :O &O |
| San Jacinto | Hemet Sanderson | Menlo | Esplanade | Secondary | 1.00 | 4 | 4 | 0% 0.00 | i | 2 | 0 | 0 | Ö | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O 5 | iO \$0 |
| San Jacinto | Hemet SR-74 (Florida) | Warren | Cawston | Secondary | 1.02 | 4 | 4 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O 5 | 60 \$0 |
| San Jacinto San Jacinto | Hemet SR-74 (Florida) Hemet SR-74/SR-79 (Florida) | Columbia Cawston | Ramona Columbia | Secondary Secondary | 2.58 4.03 | 4 | 4 | 0% 0.00 0% 0.00 | 1 | 2 | U | 0 | 0 | U \$0 | \$0 | \$0 | \$0 | \$0 | | \$U \$ | U \$ | 0 5 | DI S | SU \$0 |
| San Jacinto | Hemet State | Domenigoni | Chambers | Secondary | 1.31 | 4 | 4 | 0% 0.00 | i | 2 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$O | \$0 | | \$0 \$ \$0 \$ | 0 \$ | 0 5 | NO 5 | iO \$0 |
| San Jacinto | Hemet State | Chambers | Stetson | Secondary | 0.51 | 4 | 4 | 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O . | 60 \$0 |
| San Jacinto | Hemet State | Florida | Esplanade | Secondary | 1.74 | 4 | 4 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$0 5 | 60 \$0 |
| San Jacinto San Jacinto | Hemet State Hemet Stetson | Stetson Cawston | Florida State | Secondary Secondary | 1.25 2.52 | 2 | 2 | 0% 0.00 0% 0.00 | 1 | 1 | 0 | 0 | 0 | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | iO \$0 |
| San Jacinto | Hemet Stetson | Warren | Cawston | Secondary | 1.00 | 2 | 4 | 0% 2.00 | i | 3 | 0 | 0 | 0 | 0 \$2,262,000 | \$979,000 | \$0 | \$0 | \$0 | | \$0 \$226,00 | 0 \$566,00 | 0 \$324,00 | 00 \$4,357,00 | 0 \$4,357,000 |
| San Jacinto | Hemet Warren | Esplanade | Domenigoni | Secondary | 5.02 | 2 | 4 | 9% 9.14 | 1 | 3 | 0 | 0 | 0 | 0 \$10,345,000 | \$4,478,000 | \$0 | \$0 | \$0 | | \$0 \$1,035,00 | 0 \$2,586,00 | 0 \$1,482,00 | 00 \$19,926,00 | 10 \$19,926,000 |
| San Jacinto | Hemet Warren | Salt Creek | bridge | Secondary | 0.00 | 2 | 4 | 0% 0.00 0% 0.00 | 1 | 3 | 0 | 300 | 0 | 0 \$0 | \$0 | \$0 | \$2,880,000 | \$0 | | \$0 \$288,00 | 0 \$720,00 | 0 \$288,00 | 00 \$4,176,00 to | |
| San Jacinto San Jacinto | San Jacinto Esplanade San Jacinto Esplanade | Mountain State | State Warren | Secondary Secondary | 2.55 3.53 | 2 | 2 | 0% 0.00 0% 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$U \$0 | \$U \$0 | ΦU Ω* | \$0 \$0 | | ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው | U \$ O \$ | 0 3 | NO S | O \$0 |
| San Jacinto | San Jacinto Sanderson | Ramona | Esplanade | Secondary | 3.55 | 4 | 4 | 0% 0.00 | i | 3 | 0 | ō | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 9 | \$O 5 | iO \$0 |
| San Jacinto | San Jacinto SR-79 (North Ramona) | State | San Jacinto | Secondary | 1.02 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 9 | \$0 | 0 \$0 |
| San Jacinto | San Jacinto SR-79 (San Jacinto) | North Ramona Blvd | 7th | Secondary | 0.25 | 2 | 2 | 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | | 50 | 0 \$0 |
| San Jacinto San Jacinto | San Jacinto SR-79 (San Jacinto) San Jacinto State | 7th Ramona | SR-74 Esplanade | Secondary Secondary | 2.25 1.99 | 4 | 4 | 0% 0.00 0% 0.00 | 1 | 2 | 0 | 0 | 0 | 0 \$0 0 \$n | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | ⊅∪ \$ \$0 \$ | 0 \$ 0 \$ | 0 5 | ρυ S SΩ 9 | iO \$0 |
| San Jacinto | San Jacinto State | Gilman Springs | Quandt Ranch | Secondary | 0.76 | 2 | 4 | 0% 1.52 | i | 3 | 0 | ő | 0 | 0 \$1,722,000 | \$745,000 | \$0 | \$0 | \$0 | | \$0 \$172,00 | 0 \$431,00 | 0 \$247,00 | 00 \$3,317,00 | 0 \$3,317,000 |
| San Jacinto | San Jacinto State | San Jacinto River | bridge | Secondary | 0.00 | 4 | 4 | 0% 0.00 | 1 | 3 | 0 . | 500 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | 50 | 50 \$0 |
| San Jacinto San Jacinto | San Jacinto State San Jacinto Warren | Quandt Ranch Ramona | Ramona Esplanade | Secondary Secondary | 0.70 3.47 | 4 | 4 | 0% 0.00 11% 6.18 | 1 | 3 | U | 0 | 0 | 0 \$0 0 \$6,993,000 | \$0 \$3,027,000 | \$0 | \$0 \$^ | \$0 | | \$0 \$ \$0 \$699,00 | 0 \$1,748,00 | 0 \$1,002,00 | \$0 \$13,469,00 | 60 \$0 10 \$13,469,000 |
| San Jacinto | Unincorporated Gilman Springs | Sanderson | State | Secondary | 2.54 | 2 | 4 | 0% 5.09 | i | 3 | 0 | 0 | 0 | 0 \$5,761,000 | \$2,494,000 | \$O. | \$0 \$0 | \$0 | | \$0 \$576,00 | | | | |
| San Jacinto | Unincorporated Gilman Springs | Massacre Canyon Wash | bridge | Secondary | 0.00 | 2 | 4 | 0% 0.00 | 1 | 3 | 0 | 100 | 0 | 0 \$0 | \$0 | \$0 | \$960,000 | \$0 | | \$0 \$96,00 | | 0 \$96,00 | 00 \$1,392,00 | |
| San Jacinto | Unincorporated SR-79 (Winchester) | SR-74 (Florida) | Domenigoni | Secondary | 3.23 | 2 | 2 | 0.00 | 1 | 3 | 0 | 0 | 0 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 \$ | 0 \$ | 0 5 | \$O 5 | 0 \$0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| PLAN DIST | 0111 | STREETNAME | SEGMENTFROM | SEGMENTTO | NETWORK | VIILLO EXTORNA | GLN FUTURELN | 70 0 0 1411 EETE 111 | ICREASELN MILES TOPO |) LANDUSE | INTERCHG | BRIDGE | RRXING I | TS NEW | | 3110001 11 | NTCHGCOST | BRDGCOST | RRXCOST | ITSCOST | | 1110 | 0011110 1011 | 17 E C C C C C C C C C C C C C C C C C C | XIMUM TUMF |
|--------------|----------------------------------|--------------------------------------------|--------------------------------|-----------------------------------------|------------------------|----------------|--------------|----------------------|----------------------|-----------|----------|---------|----------|----------|----------------------------|-----------------------------|---------------------|----------------|----------------|------------------------|--------------------------|--------------------------|--------------------------|------------------------------------------|-------------------|
| | Lake Elsinore Lake Elsinore | | Mission Mission | Grand I-15 | Secondary Secondary | 1.53 | 2 | 4 50% 6 0% | 1.53 | 1 3 | 3 | 0 | 0 0 | 0 | \$1,732,000 \$0 | \$750,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$173,000 \$0 | \$433,000 \$0 | \$248,000 \$0 | \$3,336,000 \$0 | \$3,3 |
| | Lake Elsinore | Franklin (integral to Railroad | | interchange | Secondary | 0.00 | 0 | 0 0% | 0.00 | 1 3 | 3 | 3 | 0 0 | ő | \$0 | \$0 | \$22,550,000 | \$0 | \$0 | \$0 | Ψ0 | | \$2,255,000 | \$32,698,000 | \$32,6 |
| est | Lake Elsinore | Grand | Lincoln | Toft | Secondary | 1.29 | 4 | 4 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | Lake Elsinore | Grand | Toft | SR-74 (Riverside) | Secondary | 0.86 | 2 | 4 6% | 1.61 | 1 3 | 3 | 0 | 0 0 | 0 | \$1,824,000 | \$789,000 | \$0 | \$0 | \$0 | \$0 | | \$456,000 | \$261,000 | \$3,512,000 | \$3,5 |
| | | | I-15 | Lincoln | Secondary | 3.25 | 2 | 4 28% | 4.68 | 2 2 | 2 | 0 | 0 0 | 0 | \$8,144,000 | \$25,462,000 | \$0 | \$0 | \$0 | \$0 | \$814,000 | \$2,036,000 | \$3,361,000 | \$39,817,000 | \$32,7 |
| | Lake Elsinore | Lake Lake | I-15 Temescal Wash | interchange bridge | Secondary Secondary | 0.00 | 0 | 0 0% | 0.00 | 2 2 | 2 | 3 | 180 0 | 0 | \$0 \$0 | \$0 \$0 | \$22,550,000 \$0 | \$1.728.000 |) \$C | \$0 | T=/==== | \$5,638,000 \$432,000 | \$2,255,000 \$173,000 | \$32,698,000 \$2,506,000 | \$15,7° \$1,1. |
| | Lake Elsinore | Mission | Railroad Canyon | Bundy Canyon | Secondary | 2.39 | 4 | 4 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$1,720,000 | \$0 | \$0 | \$173,000 | \$432,000 | \$173,000 | \$2,308,000 | φ1,1. |
| | Lake Elsinore | Nichols | I-15 | Lake | Secondary | 1.80 | 2 | 4 0% | 3.60 | 1 3 | 3 | Ō | 0 0 | Ō | \$4,075,000 | \$1,764,000 | \$0 | \$0 | \$0 | \$0 | \$408,000 | \$1,019,000 | \$584,000 | \$7,850,000 | \$7,8 |
| | Lake Elsinore | Nichols | Temescal Wash | bridge | Secondary | 0.00 | 2 | 4 0% | 0.00 | 1 3 | 3 | 0 3 | 300 0 | 0 | \$0 | \$0 | \$0 | \$2,880,000 | \$0 | \$0 | \$288,000 | \$720,000 | \$288,000 | \$4,176,000 | \$4,1 |
| | Lake Elsinore | Nichols | I-15 | interchange | Secondary | 0.00 | 0 | 0 0% | 0.00 | 1 3 | 3 | 2 | 0 0 | 0 | \$0 | \$0 | \$43,490,000 | \$0 | \$0 | \$0 | | \$10,873,000 | \$4,349,000 | \$63,061,000 | \$63,0 |
| | Lake Elsinore Lake Elsinore | SR-74 (Collier/Riverside) SR-74 (Grand) | I-15 Riverside | Lakeshore SR-74 (Ortega) | Secondary Secondary | 2.15 0.64 | 2 | 4 26% 4 0% | 3.19 1.28 | 1 2 | 2 | 0 | 0 0 | 0 | \$3,608,000 \$1,445,000 | \$17,337,000 \$6,943,000 | \$0 | \$0 | \$0 | \$0 | \$361,000 \$145,000 | \$902,000 \$361,000 | \$2,095,000 \$839,000 | \$24,303,000 \$9,733,000 | \$24,30 \$3,6 |
| | Lake Elsinore | SR-74 (Grand) SR-74 (Riverside) | Lakeshore | Grand | Secondary | 1.74 | 2 | 4 24% | 2.65 | 1 2 | 2 | 0 | 0 0 | 0 | \$2,995,000 | \$14.392.000 | \$0 \$0 | \$0 | \$0 | \$0 | \$300.000 | \$749,000 | \$1,739,000 | \$20,175,000 | \$20.1 |
| | Lake Elsinore | Temescal Canyon | I-15 | Lake | Secondary | 1.21 | 2 | 4 0% | 2.42 | 2 3 | 3 | 0 | 0 0 | Ö | \$4,211,000 | \$1,186,000 | \$0 | \$0 | \$0 | \$0 | \$421,000 | \$1,053,000 | \$540,000 | \$7,411,000 | \$7,4 |
| | Lake Elsinore | Temescal Canyon | Temescal Wash | bridge | Secondary | 0.00 | 2 | 4 0% | 0.00 | 2 3 | 3 | 0 2 | 250 0 | 0 | \$0 | \$0 | \$0 | \$2,400,000 | \$0 | \$0 | | \$600,000 | \$240,000 | \$3,480,000 | \$3,4 |
| west | Murrieta | California Oaks | Jefferson | I-15 | Secondary | 0.32 | 4 | 4 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | Murrieta Murrieta | California Oaks California Oaks | I-15 Jackson | Jackson Clinton Keith | Secondary Secondary | 0.50 1.76 | 6 | 6 0% 4 0% | 0.00 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | |
| | Murrieta | Jackson | Whitewood | Ynez | Secondary | 0.53 | 4 | 4 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$O | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | |
| est | Murrieta | Jefferson | Palomar | Nutmea | Secondary | 1.02 | o O | 2 75% | 0.51 | 2 3 | 3 | 0 | 0 0 | Ö | \$887,000 | \$250,000 | \$0 | \$0 | \$0 | \$0 | \$89,000 | \$222,000 | \$114.000 | \$1,562,000 | \$1,5 |
| est | Murrieta | Jefferson | Nutmeg | Murrieta Hot Springs | Secondary | 2.37 | 2 | 2 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | \$0 | \$0 | |
| | Murrieta | Jefferson | Murrieta Hot Springs | Cherry | Secondary | 2.26 | 4 | 6 11% | 4.02 | 1 2 | 2 | 0 | 0 0 | 0 | \$4,548,000 | \$21,854,000 | \$0 | \$0 | \$0 | \$0 | \$455,000 | \$1,137,000 | \$2,640,000 | \$30,634,000 | \$30,6 |
| west west | Murrieta Murrieta | Keller Keller | I-215 I-215 | Whitewood | Backbone Backbone | 0.75 | 2 | 2 0% 0 0% | 0.00 | 1 2 | 2 | U | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | |
| | Murrieta | Los Alamos | Jefferson | interchange I-215 | Secondary | 1.77 | 4 | 4 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$U \$0 | \$0 \$0 | \$U \$0 | \$U |) \$C | \$C | \$U .\$O | \$0 \$0 | \$0 \$0 | \$0 \$0 | |
| | Murrieta | Murrieta Hot Springs | Jefferson | I-215 | Secondary | 1.16 | 6 | 6 0% | 0.00 | i 2 | 2 | o o | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | Murrieta | Murrieta Hot Springs | I-215 | Margarita | Secondary | 1.45 | 6 | 6 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | Murrieta | Murrieta Hot Springs | Margarita | SR-79 (Winchester) | Secondary | 1.01 | 4 | 6 8% | 1.86 | 1 3 | 3 | 0 | 0 0 | 0 | \$2,106,000 | \$911,000 | \$0 | \$0 | \$0 | \$0 | \$211,000 | | \$302,000 | \$4,057,000 | \$3,8 |
| | Murrieta | Nutmeg | Jefferson | Clinton Keith | Secondary | 1.97 | 4 | 4 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | \$0 | \$0 | |
| est est | Murrieta Murrieta | Whitewood | Clinton Keith Los Alamos | Los Alamos Murrieta Hot Sprinas | Secondary Secondary | 2.01 1.93 | 3 | 4 56% 2 0% | 0.88 0.00 | 2 3 | 3 | 0 | 0 0 | 0 | \$1,539,000 | \$433,000 \$0 | \$0 | \$0 | \$0 | \$0 | φ101,000 | \$385,000 \$0 | \$197,000 \$0 | \$2,708,000 \$0 | \$2,7 |
| | Murrieta | Whitewood Whitewood | Murrieta Hot Springs | Jackson | Secondary | 0.80 | 0 | 2 66% | 0.54 | 2 2 | 2 | 0 | 0 0 | 0 | \$947,000 | \$2,959,000 | \$0 \$0 | \$0 | \$0 | \$0 | ** | \$237,000 | \$391,000 | \$4,629,000 | \$4,6 |
| rest | Murrieta | Ynez | Jackson | SR-79 (Winchester) | Secondary | 1.22 | 4 | 4 0% | 0.00 | 1 2 | 2 | 0 | 0 0 | Ö | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | Ψ1,0 |
| /est | Temecula | Butterfield Stage | Murrieta Hot Springs | Calle Chapos | Secondary | 0.82 | 4 | 4 0% | 0.00 | 2 3 | 3 | 0 | 0 0 | 1 | \$0 | \$0 | \$0 | \$0 | \$0 | \$563,000 | | \$141,000 | \$56,000 | \$816,000 | \$8 |
| vest | Temecula | Butterfield Stage | Calle Chapos | La Serena | Secondary | 0.70 | 4 | 4 0% | 0.00 | 2 3 | 3 | 0 | 0 0 | 1 | \$0 | \$0 | \$0 | \$0 | \$0 | \$480,000 | | \$120,000 | \$48,000 | \$696,000 | \$6 |
| vest vest | Temecula Temecula | Butterfield Stage Butterfield Stage | La Serena Rancho California | Rancho California | Secondary Secondary | 0.91 | 4 | 4 0% 4 0% | 0.00 | 2 3 | 3 | 0 | 0 0 | 1 | \$0 | \$0 | \$0 | \$0 | \$0 | \$624,000 \$584,000 | | \$156,000 \$146,000 | \$62,000 \$58,000 | \$904,000 \$846.000 | \$9 \$8 |
| west west | Temecula | Butterfield Stage | Pauba | Pauba SR-79 (Temecula Pkwy) | Secondary | 1.69 | 4 | 4 93% | 0.00 | 2 3 | 3 | 0 | 0 0 | 1 | \$412,000 | \$116,000 | \$U \$0 | \$U |) \$C | \$584,000 | \$58,000 \$41,000 | \$146,000 | \$53,000 | \$725,000 | \$8 \$7 |
| vest | Temecula | Jefferson | Cherry | Rancho California | Secondary | 2.29 | 4 | 4 0% | 0.00 | 1 1 | ı İ | 0 | 0 0 | i | \$0 | \$0 | \$0 | \$0 | \$0 | \$1.575.000 | | \$394,000 | \$158,000 | \$2,285,000 | \$2.2 |
| west | Temecula | Margarita | Murrieta Hot Springs | SR-79 (Temecula Pkwy) | Secondary | 7.68 | 4 | 4 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 1 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,272,000 | \$527,000 | \$1,318,000 | \$527,000 | \$7,644,000 | \$7,6 |
| vest | Temecula | Old Town Front | Rancho California | I-15/SR-79 (Temecula Pkwy) | Secondary | 1.45 | 4 | 4 0% | 0.00 | 1 1 | 1 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | ** | \$0 | \$0 | \$0 | |
| vest | Temecula | Pechanga Pkwy | SR-79 (Temecula Pkwy) | Via Gilberto | Secondary | 1.32 | 6 | 6 0% | 0.00 | 1 1 | 1 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | ** | \$0 \$0 | \$0 \$0 | \$0 | |
| vest vest | Temecula Temecula | Pechanga Pkwy Rancho California | Via Gilberto Jefferson | Pechanga Pkwy Maraarita | Secondary Secondary | 1.89 | 4 | 4 0% 6 53% | 0.00 1.78 | 1 1 | ! 1 | 0 | 0 0 | 0 | \$2.015.000 | \$13,938,000 | \$0 \$0 | \$C | \$0 | \$0 | ** | \$504.000 | \$1.595.000 | \$18.254.000 | \$18.1 |
| vest | Temecula | Rancho California | I-15 | interchanae | Secondary | 0.00 | 0 | 0 0% | 0.00 | i i | 1 | 3 | 0 0 | 0 | \$0 | \$0 | \$22.550.000 | \$0 | \$0 | \$0 | 4, | \$5,638,000 | \$2,255,000 | \$32,698,000 | φ10,1 |
| rest | Temecula | Rancho California | Margarita | Butterfield Stage | Secondary | 1.96 | 4 | 4 0% | 0.00 | 1 1 | 1 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| est | Temecula | SR-79 (Temecula Pkwy) | I-15 | Pechanga Pkwy | Secondary | 0.90 | 6 | 6 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| est est | Temecula | SR-79 (Temecula Pkwy) | Pechanga Pkwy Scott | Butterfield Stage SR-79 (Winchester) | Secondary Secondary | 3.08 3.39 | 6 | 6 0% 4 56% | 0.00 2.98 | 1 3 | 3 | 0 | 0 0 | 1 | \$0 \$3,379,000 | \$0 \$1,463,000 | \$0 | \$0 | \$0 | \$2,114,000 | | \$529,000 \$845,000 | \$211,000 \$484,000 | \$3,065,000 \$6,509,000 | \$3,0 \$6,5 |
| | Unincorporate | а впадз d Butterfield Stage | Tucalota Creek | bridge | Secondary | 0.00 | 2 | 4 56% 4 0% | 0.00 | 2 3 | 3 | 0 1 | 200 0 | 0 | \$3,379,000 \$0 | \$1,463,000 \$0 | \$U \$0 | \$U |) \$C | \$C | \$338,000 \$0 | \$845,000 \$0 | \$484,000 \$0 | \$6,509,000 0\$ | \$6,5 |
| | | d Butterfield Stage (Pourroy) | Auld | Murrieta Hot Springs | Secondary | 2.27 | 0 | 4 17% | 7.54 | 2 3 | 3 | 0 | 0 0 | 0 | \$13,113,000 | \$3.693.000 | \$0 | \$0 | \$0 | \$0 | Ψ0 | \$3.278.000 | \$1.681.000 | \$23.076.000 | \$23.0 |
| | Unincorporate | | Ortega | Corydon | Secondary | 4.96 | 2 | 4 10% | 8.92 | 1 2 | 2 | 0 | 0 0 | 0 | \$10,098,000 | \$48,529,000 | \$0 | \$0 | \$0 | \$0 | \$1,010,000 | \$2,525,000 | \$5,863,000 | \$68,025,000 | \$68,0 |
| | | d Horsethief Canyon | Temescal Canyon | I-15 | Secondary | 0.17 | 2 | 2 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$C | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | | d Indian Truck Trail | Temescal Canyon | I-15 | Secondary | 0.18 | 6 | 6 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| est | Unincorporated Unincorporated | d Murrieta Hot Springs | SR-79 (Winchester) Pechanaa | Pourroy San Diego County | Secondary Secondary | 1.75 1.39 | 4 | 4 0% | 0.00 | 1 3 | 3 | 0 | 0 0 | 0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | |
| est | Unincorporate | | SR-79 (Winchester) | Auld | Secondary | 2.28 | 2 | 4 84% | 0.73 | 2 3 | 3 | 0 | 0 0 | 0 | \$1,270,000 | \$358,000 | \$O | \$C | | | \$127,000 | \$318,000 | \$163,000 | \$2,236,000 | \$2,2 |
| | | d Rancho California | Butterfield Stage | Glen Oaks | Secondary | 4.26 | 2 | 4 0% | 8.52 | i i | 1 | Ö | 0 0 | ō | \$9,645,000 | \$66,712,000 | \$0 | \$0 | \$0 | \$0 | | \$2,411,000 | \$7,636,000 | \$87,369,000 | \$87,3 |
| est | Unincorporated | d Temescal Canyon | Horsethief Canyon Wash | bridge | Secondary | 0.00 | 2 | 4 0% | 0.00 | 2 3 | 3 | 0 2 | 240 0 | 0 | \$0 | \$0 | \$0 | \$2,304,000 | \$0 | \$0 | | \$576,000 | \$230,000 | \$3,340,000 | \$3,3 |
| | | d Temescal Canyon | Indian Truck Trail | I-15 | Secondary | 2.57 | 2 | 4 0% | 5.14 | 2 3 | 3 | 0 | 0 0 | 0 | \$8,944,000 | \$2,519,000 | \$0 | \$0 | \$0 | \$0 | | \$2,236,000 | \$1,146,000 | \$15,739,000 | \$15,7 |
| est est | Unincorporated Wildomar | d Temescal Canyon Bundy Canyon | Indian Wash Mission | bridge I-15 | Secondary Secondary | 0.00 | 2 | 4 0% 4 32% | 0.00 1.27 | 2 3 | 5 | 0 1 | 105 0 | 0 | \$0 \$1,441,000 | \$0 \$6,923,000 | \$0 | \$1,008,000 | \$0 | \$0 | \$101,000 \$144,000 | \$252,000 \$360,000 | \$101,000 \$836,000 | \$1,462,000 | \$1,- \$9,3 |
| est est | Wildomar | Grand | Corydon | Wildomar Trail | Secondary | 2.02 | 2 | 4 32% 2 0% | 0.00 | 1 3 | 2 | 0 | 0 0 | 0 | φ1,441,000 \$Ω | \$6,923,000 \$0 | \$U \$0 | \$U |) \$L | \$0 | | \$360,000 \$0 | \$836,000 \$0 | \$9,704,000 \$0 | \$7, |
| st | Wildomar | Mission | Bundy Canyon | Palomar | Secondary | 0.84 | 4 | 4 0% | 0.00 | i | 2 | o o | 0 0 | 0 | \$0 | \$0 | \$O | \$0 \$0 | | | \$0 | \$0 | \$0 | \$0 \$0 | |
| st | Wildomar | Palomar | Clinton Keith | Washington | Secondary | 0.74 | 2 | 4 0% | 1.48 | 1 3 | 3 | 0 | 0 0 | 0 | \$1,675,000 | \$725,000 | \$0 | \$0 | \$0 | \$0 | φ100,000 | \$419,000 | \$240,000 | \$3,227,000 | \$3,3 |
| est | Wildomar | Palomar | Mission | Clinton Keith | Secondary | 2.79 | 2 | 4 21% | 4.41 | 2 3 | 3 | 0 | 0 0 | 0 | \$7,667,000 | \$2,159,000 | \$0 | \$0 | \$0 | \$0 | \$767,000 | \$1,917,000 | \$983,000 | \$13,493,000 | \$13, |
| | Wildomar | Wildomar Trail | I-15 | Baxter | Secondary | 0.29 | 2 | 4 0% | 0.59 | 1 3 | 3 | 0 | 0 0 | 0 | \$665,000 | \$288,000 | \$0 | \$0 | \$0 | \$0 | | \$166,000 | \$95,000 | \$1,281,000 | \$1,2 |
| | Wildomar Wildomar | Wildomar Trail Wildomar Trail | I-15 Baxter | interchange Palomar | Secondary Secondary | 0.00 0.74 | 0 | 0 0% 4 0% | 0.00 1.48 | 1 3 | 5 | 3 | 0 0 | 0 | \$0 \$1,680,000 | \$0 \$8,073,000 | \$22,550,000 | \$0 | \$0 | \$0 | \$2,255,000 \$168,000 | \$5,638,000 \$420,000 | \$2,255,000 \$975,000 | \$32,698,000 \$11,316,000 | \$27, \$11, |
| est | Wildomar | Wildomar Trail | Palomar | Grand | Secondary | 0.51 | 2 | 2 0% | 0.00 | i | 2 | 0 | 0 0 | 0 | \$0 \$0 | \$0,073,000 \$0 | \$O | \$C | | | \$100,000 | φ420,000 \$Ω | \$773,000 | \$0.000 | ,۱۱م |
| ,,,, | | | | | Secondary | 469.28 | | -,- | 240.56 | | 2 | 22 8,6 | 650 6 | 26.75 | \$303,507,000 | \$590,248,000 | \$621,740,000 | \$101,280,000 | \$237,200,000 | \$18,358,000 | \$128,215,000 | \$320,544,000 | \$187,237,000 | \$2,508,329,000 | \$1,913, |
| | Network | | | | | 739.22 | | | 558.58 | | 3 | 33 17,4 | 485 9 | 33.89 \$ | 741,859,000 | 1,272,869,000 \$ | 1,057,070,000 | \$ 176,256,000 | \$ 374,000,000 | \$ 23,259,000 | \$ 237,252,000 | \$ 593,150,000 5 | \$ 364,535,000 \$ | 4,840,250,000 \$ | 3,874,7 |
| | Transit Administration | | | | | | | | | | | | | | | | | | | | | | \$ | 217,870,000 \$ 161,183,000 \$ | 154,8 161,1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding AREA PLAN DIST CITY STREETMARE SEGMENTROM SEGMENTOR
| AREA PLAN D | IST CITY | STREETNAME | SEGMENTFROM | SEGMENTTO | TOTAL COST MA | AXIMUM TUMF SHARE MAX | TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION | % EXIST NEED >2 LA | | FUTURE V/C | TUMF V/C SHARE EXIST NEED OF | ILIGATED UN | NFUND EXIST NEED | MSHCP MSHCP EXIST NE | ED MSHCP UNFUND EXIST NEED CO | MBINED UNFUND EXIST NEED |
|------------------------|------------------------------|--------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|--------------|-------------------------------------|--------------|-----------------------------|-----------------------------------------|-------------------------------|-----------------------------|
| Central | Menifee | Ethanac | Goetz | Murrieta | \$0 | \$0 | \$0 | 0% | 0% 0.27 | 0.87 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central Central | Menifee Menifee | Ethanac Ethanac | Murrieta I-215 | I-215 interchange | \$0 \$32,698,000 | \$0 \$32,698,000 | \$U \$0 | 0% | 0% 0.29 0% 0.62 | 0.77 1.21 | \$0 \$0 | \$U \$0 | \$U \$0 | J \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Central | Menifee | Ethanac | Sherman | Matthews | \$2,674,000 | \$2,674,000 | \$69,000 | 0% | 0% 0.82 | 0.61 | \$0 \$0 | \$O | \$0 | \$69,000 | \$0 \$0 | \$O |
| Central | Menifee | Ethanac | BNSF San Jacinto Branch | railroad crossing | \$105,560,000 | \$105,560,000 | \$3,640,000 | 0% | 0% 0.32 | 0.61 | \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| Central | Menifee | Menifee | SR-74 (Pinacate) | Simpson | \$1,307,000 | \$1,307,000 | \$34,000 Between Rouse and Matthews | 11% | 11% 0.70 | 0.98 | \$0 | \$0 | \$C | | \$0 \$0 | \$0 |
| Central | Menifee | Menifee | Salt Creek | bridge | \$4,384,000 | \$4,384,000 | \$151,000 | 0% | 0% 0.36 | 0.55 | \$0 | \$0 | \$0 | \$151,000 | \$0 \$0 | \$0 |
| Central | Menifee | Menifee | Simpson | Aldergate | \$0 | \$0 | \$0 | 0% | 0% 0.39 | 0.73 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Menifee | Menifee | Aldergate | Newport | \$0 | \$0 \$0 | \$0 \$0 | 0% | 0% 0.45 | 0.63 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central Central | Menifee Menifee | Menifee Menifee | Newport Holland | Holland Garbani | \$0 \$0 | \$U \$0 | \$ O | 0% 0% | 0% 0.44 0% 0.41 | 0.72 0.54 | \$0 \$0 | ֆ∪ \$∩ | \$C \$C |) &U | \$0 \$0 | \$0 |
| Central | Menifee | Menifee | Garbani | Scott | \$4,353,000 | \$4,353,000 | \$113,000 | 0% | 0% 0.64 | 0.96 | \$0 | \$0 | \$0 |) \$113,000 | \$0 \$0 | \$O |
| Central | Menifee | Menifee/Whitewood | Scott | Murrieta City Limit | \$0 | \$0 | \$0 | 0% | 0% 0.44 | 0.76 | \$0 | \$0 | \$C | \$0 | \$0 \$0 | \$0 |
| Central | Menifee | Newport | Goetz | Murrieta | \$0 | \$0 | \$0 | 0% | 0% 0.59 | 0.85 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Menifee | Newport | Murrieta | I-215 | \$1,130,000 | \$1,130,000 | \$29,000 Between Pacific Channel and Winter Hawk, and \$81-215 Exit Ramp and \$81-215 On Ramp | 27% | 27% 0.84 | 1.08 | \$0 | \$0 | \$0 | \$29,000 | \$0 \$0 | \$0 |
| Central | Menifee | Newport | I-215 | Menifee | \$0 | \$0 \$0 | \$0 Between Menifee Lakes to Menifee, and I-215 SB On Ramp to Antelope | 36% 0% | 36% 0.93 | 1.08 | 85% \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central Central | Menifee Menifee | Newport Newport | Menifee Lindenberger | Lindenberger SR-79 (Winchester) | \$0 \$0 | \$O \$U | \$O | 0% | 0% 0.66 0% 0.51 | 0.94 0.69 | \$0 | \$O | \$C |) \$0 | \$0 \$0 | \$O |
| Central | Menifee | Scott | I-215 | Briggs | \$8,635,000 | \$8,635,000 | \$224,000 Between \$B I-215 On Ramp and Antelope | 5% | 5% 0.45 | 0.82 | \$0 | \$0 | \$0 | \$224,000 | \$0 \$0 | \$0 |
| Central | Menifee | Scott | I-215 | interchange | \$0 | \$0 | \$0 | 0% | 0% 1.17 | 1.54 | 57% \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| Central | Menifee | Scott | Sunset | Murrieta | \$4,388,000 | \$4,388,000 | \$114,000 | 0% | 0% 0.94 | 1.32 | 91% \$0 | \$0 | \$0 | \$114,000 | \$0 \$0 | \$0 |
| Central | Menifee | Scott | Murrieta | I-215 | \$16,949,000 | \$12,949,000 | \$336,000 | 0% | 0% 0.72 | 1.03 | \$0 | \$4,000,000 | \$0 | | \$0 \$0 | \$0 |
| Central Central | Menifee Moreno Valle | SR-74 | Matthews I-215 | Briggs Perris | \$8,254,000 \$13,420,000 | \$8,254,000 \$13,420,000 | \$214,000 \$100,000 | 0% 0% | 0% 0.72 0% 0.61 | 0.98 0.80 | \$0 \$0 | ֆ∪ \$∩ | \$0 \$0 | \$214,000 \$100,000 | \$0 \$0 | \$0 |
| Central | Moreno Valle | | Perris | Nason | \$0 | \$10,420,000 | \$0 | 0% | 0% 0.55 | 0.75 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Moreno Valle | • | Nason | Moreno Beach | \$0 | \$0 | \$0 | 0% | 0% 0.22 | 0.48 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Moreno Valle | | Moreno Beach | Gilman Springs | \$18,019,000 | \$18,019,000 | \$468,000 | 0% | 0% 0.24 | 0.66 | \$0 | \$0 | \$0 | \$468,000 | \$0 \$0 | \$0 |
| Central | | y Gilman Springs | SR-60 | Alessandro | \$7,291,000 | \$7,291,000 | \$189,000 | 0% | 0% 0.65 | 0.73 | \$0 | \$0 | \$0 | \$189,000 | \$0 \$0 | \$0 |
| Central | | y Gilman Springs | SR-60 Peche Vista | interchange Ironwood | \$0 | \$0 | \$0 \$0 | 0% | 0% 0.60 0% 0.34 | 0.76 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 \$0 | \$0 *^ |
| Central Central | Moreno Valle Moreno Valle | | Reche Vista Ironwood | Ironwood Sunnymead | ΦU \$0 | \$O | \$0 \$0 | 0% 0% | 0% 0.34 0% 0.74 | 0.46 0.93 | \$0 \$0 | ⊅∪ Ω≱ | \$U \$n |) &U | \$0 \$0 | \$0 \$0 |
| Central | Moreno Valle | | SR-60 | interchange | \$32,698,000 | \$11,192,000 | \$0 | 0% | 0% 2.03 | 2.62 | 34% \$21,506,000 | \$0 | \$21,506,000 | \$0 | \$0 ,50 | \$21,506,000 |
| Central | Moreno Valle | y Perris | Sunnymead | Cactus | \$0 | \$0 | \$0 | 0% | 0% 0.62 | 0.76 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Moreno Valle | | Cactus | Harley Knox | \$0 | \$0 | \$0 Between Nandina and Harley Knox | 18% | 18% 0.69 | 1.01 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | | y Reche Vista | Country | Heacock | \$7,486,000 | \$3,799,000 | \$39,000 Moreno Valley City Limit to Heacock | 100% | 100% 0.92 | 0.95 | 51% \$3,687,000 | \$0 | \$3,687,000 | | 000 \$38,000 | \$3,725,000 |
| Central Central | Perris Perris | 11th/Case Case | Perris Goetz | Goetz I-215 | \$4,582,000 \$20,876,000 | \$4,582,000 \$20,876,000 | \$34,000 \$155,000 Between Blis and Munietta | 0% 40% | 0% 0.76 40% 0.80 | 0.85 1.18 | \$0 | \$U \$0 | \$0 | \$34,000 \$155,000 | \$0 \$0 | \$0 |
| Central | Perris | Case | San Jacinto River | bridge | \$20,876,000 | \$1,235,000 | \$135,000 Between Ellis and Murrietta \$43,000 | 40% 0% | 40% 0.80 0% 1.18 | 1.88 | 71% \$505,000 | фU .\$О | \$505,000 | | \$0 \$1 | \$505,000 |
| Central | Perris | Ethanac | Keystone | Goetz | \$6,056,000 | \$6,056,000 | \$157,000 | 0% | 0% 0.07 | 0.30 | \$0 | \$0 | \$0 | \$157,000 | \$0 \$0 | \$0 |
| Central | Perris | Ethanac | San Jacinto River | bridge | \$5,568,000 | \$5,568,000 | \$192,000 | 0% | 0% 0.07 | 0.30 | \$0 | \$0 | \$0 | \$192,000 | \$0 \$0 | \$0 |
| Central | Perris | Ethanac | I-215 | Sherman | \$5,316,000 | \$5,316,000 | \$39,000 | 0% | 0% 0.53 | 1.15 | \$0 | \$0 | \$00,000 | | \$0 \$0 | \$0 |
| Central | Perris | Goetz | Case | Ethanac | \$1,507,000 | \$999,000 | \$26,000 Between Case and Ethanac \$117,000 | 100% | 100% 1.06 | 1.38 | 66% \$508,000 | \$0 | \$508,000 \$2,170,000 | | 000 \$13,000 | \$521,000 \$2,170,000 |
| Central Central | Perris Perris | Goetz Mid-County (Placentia) | San Jacinto River I-215 | bridge Perris | \$5,568,000 \$15,655,000 | \$3,398,000 \$15,655,000 | \$116,000 | 0% 0% | 0% 1.13 0% 0.05 | 1.50 0.21 | 61% \$2,170,000 \$0 | ֆ∪ \$∩ | \$2,170,000 | \$192,000 \$116,000 | \$0 \$0 | \$2,170,000 |
| Central | Perris | Mid-County (Placentia) | I-215 | interchange | \$0 | \$0 | \$0 | 0% | 0% 0.46 | 0.85 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Perris | Mid-County (Placentia) | Perris | Evans | \$22,985,000 | \$22,985,000 | \$171,000 | 0% | 0% 0.03 | 0.11 | \$0 | \$0 | \$C | \$171,000 | \$0 \$0 | \$0 |
| Central | Perris | Mid-County (Placentia) | Perris Valley Storm Channe | | \$8,352,000 | \$8,352,000 | \$288,000 | 0% | 0% 0.03 | 0.11 | \$0 | \$0 | \$0 | \$288,000 | \$0 \$0 | \$0 |
| Central | Perris | Perris | Harley Knox | Ramona | \$0 | \$0 | \$0 | 0% | 0% 0.86 | 1.04 | \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| Central Central | Perris Perris | Perris Perris | Ramona Citrus | Citrus Nuevo | \$7,063,000 \$0 | \$7,063,000 | \$183,000 Between Ramona and Dawes, and Rider and Water | 39% 0% | 39% 0.83 0% 0.66 | 1.06 0.97 | \$0 \$0 | \$U \$0 | \$C \$C | | \$0 \$0 | \$0 \$0 |
| Central | Perris | Perris | Nuevo | 11th | \$6,927,000 | \$6,927,000 | \$51,000 | 0% | 0% 0.66 0% 0.72 | 0.99 | \$0 \$0 | \$O | \$0 | • • | \$0 \$0 | \$0 \$0 |
| Central | Perris | Perris | I-215 overcrossing | bridge | \$0 | \$0 | \$0 | 0% | 0% 0.78 | 1.10 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Perris | Ramona | I-215 | Perris | \$5,039,000 | \$5,039,000 | \$37,000 Between NB I-215 On Ramp and Webster | 26% | 26% 0.77 | 0.79 | \$0 | \$0 | \$0 | \$37,000 | \$0 \$0 | \$0 |
| Central | Perris | Ramona | I-215 | interchange | \$32,698,000 | \$7,725,000 | \$0 | 0% | 0% 1.80 | 2.08 | 24% \$24,973,000 | \$0 | \$24,973,000 | \$0 | \$0 \$0 | \$24,973,000 |
| Central Central | Perris Perris | Ramona Ramona | Perris Evans | Evans Mid-County (2,800 ft E of Rider) | \$0 \$0 | \$0 60 | \$0 \$0 | 0% 0% | 0% 0.67 0% 0.62 | 0.82 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Perris | SR-74 (4th) | Filis | I-215 | \$0 \$0 | \$O \$U | \$0 Between Navajo and S A St | 22% | 0% 0.62 22% 0.78 | 1.06 1.03 | \$0 | \$O | \$C |) \$0 | \$0 \$0 | \$O |
| Central | Unincorporate | | SR-74 | Kevstone | \$4,666,000 | \$4,666,000 | \$121,000 | 0% | 0% 0.04 | 0.19 | \$0 | \$0 \$0 | \$0 | \$121,000 | \$0 \$0 | \$0 \$0 |
| Central | | ec Gilman Springs | Alessandro | Bridge Road | \$30,601,000 | \$30,601,000 | \$869,000 Between Olive and Jackrabbit | 41% | 41% 0.87 | 1.43 | \$0 | \$0 | \$0 | \$869,000 | \$0 \$0 | \$0 |
| Central | Unincorporate | | Nuevo | SR-74 (Pinacate) | \$16,684,000 | \$16,684,000 | \$433,000 | 0% | 0% 0.69 | 0.98 | \$0 | \$0 | \$0 | \$433,000 | \$0 \$0 | \$0 |
| Central | Unincorporate | | Evans | Ramona (2,800 ft E of Rider) | \$12,156,000 | \$12,156,000 | \$362,000 | 0% | 0% 0.08 | 0.45 | \$0 | \$0 | \$0 | \$362,000 | \$0 \$0 | \$0 |
| Central Central | | ec Mid-County (Ramona) | Ramona (2,800 ft E of Ride Pico Avenue | r) Pico Avenue Bridge Road | \$0 \$47,769,000 | \$0 \$47,769,000 | \$0 \$1,240,000 | 0% 0% | 0% 0.37 0% 0.82 | 0.96 1.43 | \$0 \$0 | \$0 \$0 | \$0 | \$0 3 \$1,240,000 | \$0 \$0 | \$0 \$0 |
| Central | | ec Mid-County (Ramona) ec Mid-County (Ramona) | San Jacinto River | bridge kodd bridge | \$36,192,000 | \$36,192,000 | \$1,248,000 | 0% | 0% 0.78 | 1.33 | \$0 \$0 | \$0 | \$0 | \$1,248,000 | \$0 \$0 | \$O |
| Central | | ec Reche Canyon | San Bernardino County | Reche Vista | \$0 | \$0 | \$0 | 0% | 0% 0.84 | 0.91 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | | ec Reche Vista | Reche Canyon | Country | \$0 | \$0 | \$0 | 0% | 0% 0.81 | 0.83 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central | Unincorporate | | Briggs | SR-79 (Winchester) | \$0 | \$0 | \$0 | 0% | 0% 0.12 | 0.53 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Central Northwest | Unincorporate | | Ethanac | Ellis Tomoscal Carrier | \$0 | \$0 | \$0 Between Ethanac and Theda, and Mountain and Sofie | 34% 0% | 34% 0.87 0% 0.47 | 1.17 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Corona Corona | Cajalco Cajalco | I-15 I-15 | Temescal Canyon interchange | Ω¢ Ω\$ | şu «n | \$0 \$0 | 0% | 0% 0.47 0% 1.59 | 0.62 2.08 | 42% \$0 | φυ ¢n | \$U \$n |) &U | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Foothill | Paseo Grande | Lincoln | \$0 | \$0 | \$0 | 0% | 0% 0.45 | 0.61 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Corona | Foothill | Wardlow Wash | bridge | \$0 | \$0 | \$0 | 0% | 0% 0.47 | 0.63 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Corona | Foothill | Lincoln | California | \$0 | \$0 | \$0 #6 | 0% | 0% 0.30 | 0.42 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest Northwest | Corona Corona | Foothill Green River | California SR-91 | I-15 Dominguez Ranch | \$0 \$0 | \$O \$0 | \$O \$∩ | U% 0% | 0% 0.29 0% 0.53 | 0.42 0.61 | \$0 •0 | \$U \$.0 | \$0 |) \$U | \$0 \$0 | \$0 \$0 |
| Northwest | Corona | Green River | Dominguez Ranch | Palisades | .\$∩ | \$O | \$0 | 0% | 0% 0.53 | 0.60 | \$O | ф0 .\$O | \$U | , 40) \$0 | \$0 \$1 | ≵ U |
| Northwest | Corona | Green River | Palisades | Paseo Grande | \$0 | \$0 | \$0 | 0% | 0% 0.66 | 0.77 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Eastvale | Schleisman | San Bernardino County | 600' e/o Cucamonga Creek | \$648,000 | \$648,000 | \$0 | 0% | 0% 0.65 | 1.23 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 |
| Northwest | Eastvale | Schleisman | Cucamonga Creek | bridge | \$0 | \$0 | \$0 #6 | 0% | 0% 0.72 | 1.27 | \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| Northwest Northwest | Eastvale Eastvale | Schleisman Schleisman | 600' e/o Cucamonga Cree Harrison | ek Harrison Sumner | \$866,000 \$488,000 | \$866,000 \$488,000 | \$U \$0 ************************************ | 0% 18% | 0% 0.69 18% 0.62 | 1.17 0.96 | \$0 \$0 | \$0 \$0 | \$C \$C | | \$0 \$0 \$0 | \$0 \$0 |
| Northwest | Fastvale | Schleisman Schleisman | Sumner | Scholar | \$7,625,000 | \$7,625,000 | \$0 Between Spicewood and Sumner \$57,000 | 18% | 0.62 0% 0.85 | 0.96 | \$∪ ¢ ∩ | Φ∪ \$Ω | \$U \$0 | • • | \$0 \$0 | \$0 \$0 |
| Northwest | Eastvale | Schleisman | Scholar | A Street | \$119,000 | \$119,000 | \$1,000 | 0% | 0% 0.50 | 0.80 | \$0 | \$0 | \$0 | \$1,000 | \$0 \$0 | \$0 \$0 |
| Northwest | Eastvale | Schleisman | A Street | Hamner | \$209,000 | \$209,000 | \$2,000 | 0% | 0% 0.50 | 0.84 | \$0 | \$0 | \$0 | \$2,000 | \$0 \$0 | \$0 |
| Northwest | Jurupa Valley | | SR-60 | Bellegrave | \$23,928,000 | \$10,461,000 | \$78,000 Between SR-60 and Bellegrave | 100% | 100% 1.02 | 1.10 | 44% \$13,467,000 | \$0 | \$13,467,000 | | | \$13,567,000 |
| Northwest | Jurupa Valley | | Bellegrave | Santa Ana River | \$60,900,000 | \$0 | \$0 Between Limonite and Santa Ana River, and Rutile and Bellegrave | 59% | 59% 1.03 | 1.13 | 44% \$19,851,000 | \$60,900,000 | \$0 | | | \$0 \$0 |
| Northwest Northwest | Riverside Riverside | Alessandro Arlington | Arlington La Sierra | Trautwein Magnolia | \$2,410,000 \$0 | \$2,410,000 \$0 | \$0 Between Arlington and Via Vista, and Canyon Crest and Trautwein \$0 Between Ben Lomond and 300 ft East of Pegasus | 73% 13% | 73% 1.03 13% 0.68 | 1.16 0.77 | 48% \$0 \$0 | \$U \$.0 | \$0 \$0 | | \$0 \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Arlington | Magnolia | Alessandro | \$46,465,000 | \$46,465,000 | \$475,000 Between Victoria and Alessandro | 36% | 36% 0.80 | 0.93 | \$0 \$0 | \$0 | \$0 | ** | \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Van Buren | Santa Ana River | SR-91 | \$5,230,000 | \$4,392,000 | \$33,000 Between Santa Ana River and Cypress | 58% | 58% 0.94 | 1.05 | 72% \$838,000 | \$0 | \$838,000 | \$39,000 \$6,0 | 000 \$6,000 | \$844,000 |
| Northwest | Riverside | Van Buren | SR-91 | Mockingbird Canyon | \$39,493,000 | \$21,292,000 | \$158,000 Between Mockingbird Canyon and Rudicill, and Indiana to SR-91 | 95% | 95% 1.00 | 1.10 | 51% \$18,201,000 | \$0 | \$18,201,000 | | | \$18,336,000 |
| Northwest | Riverside | Van Buren | Wood | Trautwein | \$0 | \$0 | \$0 | 0% | 0% 0.79 | 0.85 | \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| Northwest Northwest | Riverside Unincorporate | Van Buren ec Alessandro | Trautwein Trautwein | Orange Terrace Vista Grande | \$7,574,000 \$0 | \$7,574,000 \$0 | \$56,000 \$0 | 0% 0% | 0% 0.69 0% 0.79 | 0.89 0.93 | \$0 \$2 | \$0 \$0 | \$0 \$0 | | \$0 \$0 \$0 | \$0 \$0 |
| Northwest | Unincorporate | | Vista Grande | I-215 | \$0 \$0 | \$O | \$0 | 0% | 0% 0.79 | 1.04 | \$∩ \$ | ф0 .\$O | \$U | · • • • • • • • • • • • • • • • • • • • | \$0 \$0 | ¢ U ⊅0 |
| Northwest | Unincorporate | | El Sobrante | Harley John | \$10,580,000 | \$9,817,000 | \$279,000 Between 8 Sobrante and Gavilan | 40% | 20% 0.95 | 1.04 | 64% \$763,000 | \$0 | \$763,000 | | | \$785,000 |
| Northwest | Unincorporate | ec Cajalco | Harley John | Harvil | \$166,492,000 | \$166,492,000 | \$1,236,000 Between Harley John and Wood, and Cole and Alexander, and Carroll and Seaton | 63% | 31% 0.87 | 1.05 | \$0 | \$0 | \$0 | \$1,236,000 | \$0 \$0 | \$0 |
| Northwest | Unincorporate | | Harvil | I-215 | \$1,238,000 | \$1,238,000 | \$32,000 | 0% | 0% 0.78 | 0.84 | \$0 | \$0 | \$10,740,000 | | \$0 \$0 | \$0 |
| Northwest Northwest | Unincorporate Unincorporate | | Temescal Canyon Temescal Wash | La Sierra bridge | \$49,596,000 \$4,872,000 | \$35,953,000 \$1,907,000 | \$1,071,000 Between Temesacal Canyon and Sierra \$66,000 | 100% 0% | 50% 1.06 0% 1.13 | 1.19 1.27 | 45% \$13,643,000 39% \$2,965,000 | \$0 \$0 | \$13,643,000 \$2,965,000 | | 000 \$406,000 \$0 \$0 | \$14,049,000 \$2,965,000 |
| Northwest | Unincorporate | , | La Sierra | El Sobrante | \$4,872,000 \$96,453,000 | \$1,907,000 | \$2,872,000 | 0% | 0% 1.13 0% 0.78 | 0.85 | 57/0 \$∠,703,000 \$∩ | \$0 \$0 | \$2,965,000 | | \$0 \$0 | \$2,965,000 \$0 |
| Northwest | Unincorporate | | Mockingbird Canyon | Wood | \$67,429,000 | \$67,429,000 | \$501,000 Between Washington and Wood | 47% | 47% 0.89 | 1.04 | \$0 | \$0 | \$0 | \$501,000 | \$0 \$0 | \$0 |
| Northwest | Unincorporate | ec Van Buren | Orange Terrace | I-215 | \$0 | \$0 | \$0 | 0% | 0% 0.71 | 0.99 | \$0 | \$0 | \$0 | | \$0 \$0 | \$0 |
| | | | | | | | | | | | | | | | | |

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding Updated: July 23, 2024

| THE COLOR OF THE C | AREA PLAN DI | | STREETNAME | SEGMENTEROM | SEGMENTTO DIIGUIEC | | ANVILLY LIIVVE CH V LE VV V | (TUMF MSHCP SHARE | % EYIST NEED | >2 LANE ADJST | FYIST V/C | FUTURE V/C T | TUMF V/C SHARE EXIST NEED OBLIGATED L | INFIIND EXIST NEED MSHC | `P 64 | SHOP EXIST NEED WAS | HCD LINELIND EXIST NEED CO | OMBINED UNFUND EXIST NEED |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-----------------------------------------|---------------------------|--------------------|---------------------|-----------------------------|-----------------------------------------------------------------------------------------------------|--------------|---------------|-----------|--------------|---------------------------------------|-------------------------|-------------------------|---------------------|----------------------------|---------------------------|
| Mary | Pass | | *************************************** | | | \$0 | \$0 | \$0 | % EXIST NEED | | | | \$0 \$0 | \$0 | \$0 | SO SO | SO | O\$. |
| The content of the co | Pass | | | | | \$63,061,000 | \$32,516,000 | \$0 | 09 | | | | 52% \$30,545,000 \$14,698,000 | \$15,847,000 | \$0 | \$0 | \$0 | \$15,847,000 |
| See | Pass | Banning | Highland Springs | Oak Valley (14th) | | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Margine Marg | Pass | | | | | \$0 | \$0 | \$0 | | | | 0.50 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Mary | Pass | | | | | | | \$372,000 | | | | | \$0 \$0 | \$0 | \$372,000 | \$0 | \$0 | \$0 |
| March Marc | | | | | | | | \$1 | | | | | \$0 \$0 | \$0 | \$144,000 | \$0 | \$0 | \$0 |
| Marcel M | Pass | | | | | | | | | | | | \$0 \$0 | \$0 \$0 | | \$0 | \$0 \$0 | \$0 |
| Mary | Pass | | | | | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Mary | Pass | | | | ar SR-60 | \$1,100,000 | \$1,100,000 | \$29,000 | 09 | | | | \$0 \$0 | \$0 | \$29,000 | \$0 | \$0 | \$0 |
| The control of the co | Pass | | | | | | | \$0 | 0% | | | | \$0 \$33,500,000 | \$0 | \$0 | \$0 | \$0 | \$0 |
| The control of the co | Pass | | | O1 | | | \$40,020,000 | \$1,380,000 | 09 | | | | \$0 \$0 | \$0 | \$1,380,000 | \$0 | \$0 | \$0 |
| 19 | Pass | | | | | \$0 | \$0 | \$0 | 0,1 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| The control of the co | | | | | **** | \$0 | \$0 | \$0 | | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Mary | | | | | | | 40 | 3□ Between I-10 WB On Ramp and California \$○ | | | | | 10/0 40 40 | \$55.453.000 | \$U \$0 | \$0 | \$0 | \$55.453.000 |
| Control Cont | Pass | | | | | | | \$0 | | | | | | | \$0 | \$0 | \$0 | |
| See | Pass | | | Roberts St | | | | \$79,000 | 09 | | | | \$0 \$0 | \$0 | \$79,000 | \$0 | \$0 | \$0 |
| Martin | Pass | Unincorporate | c Cherry Valley | Bellflower | Noble | \$6,411,000 | \$6,411,000 | \$166,000 | 09 | | | 0.23 | \$0 \$0 | \$0 | \$166,000 | \$0 | \$0 | \$0 |
| Company Comp | Pass | | | | | \$0 | \$0 | \$0 | 0% | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| The state of the s | Pass | | | | | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Second S | | | | | | \$0 | \$0 | \$0 | | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| STATE OF THE PARTY | | | | | | \$7.724.000 | \$7.724.000 | \$201,000 | | | | | 42% \$U \$U | \$O \$U | \$201.000 | \$U \$0 | \$0 | \$0 |
| Second S | San Jacinto | | | | | \$0,000 \$0 | \$0,000 \$0 | \$0 | | | | | \$0 \$0 | \$O | \$0 \$0 | \$O | .\$∩ | \$ U |
| 5 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | San Jacinto | | | | | \$35.208.000 | \$35,208.000 | \$261,000 Between Warren and 650 ff East of Cordoba | | | | | \$0 \$0 | \$0 | \$261.000 | \$0 | \$0 | .\$0 |
| The state of the s | San Jacinto | | | | | \$0 | \$0 | \$0 | 09 | 0% | 0.57 | 0.61 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| To be learned in Section 1 and | San Jacinto | San Jacinto | Mid-County (Ramona) | Sanderson/SR-79 (Hemet By | pı interchange | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Second S | San Jacinto | | | | | \$0 | \$0 | \$0 | 0% | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Secondary Company Co | San Jacinto | | | | | \$0 | \$0 | \$0 | 0% | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90 Septim 190 Se | | | | | | \$31,518,000 | \$26,928,000 | \$200,000 Between 7th and Rue Pinot Blanc, and Hernet and Mountain | 68% | | | | 5/% \$4,590,000 \$0 | \$4,590,000 | | \$34,000 | \$34,000 | \$4,624,000 |
| Second S | | | | | OIC / I | \$13.509.000 \$1 | \$13.509.000 | \$351,000 | 07/ | | | | \$0 \$0 | \$O \$U | | \$U \$0 | \$0 | \$0 |
| Microscopies 1.5 | | | | | | | | | 0,1 | | | | \$0 \$0 | \$0 | | \$0 | φυ \$0 | \$O |
| | San Jacinto | | | | | | | | | | | | \$0 \$0 | \$O | | \$0 | \$0 | \$O |
| Internal Internal | San Jacinto | | | Bridge | Warren | \$9,221,000 | \$9,221,000 | \$239,000 | 09 | | | | \$0 \$0 | \$0 | \$239,000 | \$0 | \$0 | \$0 |
| Secondary Seco | San Jacinto | Unincorporate | ec SR-74 | Briggs | SR-79 (Winchester) | \$15,417,000 | \$15,417,000 | \$400,000 Between Briggs and Sultanas | 14% | 14% | 0.63 | 1.06 | \$0 \$0 | \$0 | \$400,000 | \$0 | \$0 | \$0 |
| Microsoffic Reports | San Jacinto | Unincorporate | c SR-79 (Hemet Bypass) | | Domenigoni | | | | 09 | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Ministration Mini | San Jacinto | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Second Company Compa | San Jacinto | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Second Processor Process | | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Secondary Seco | | | | | | | | | | | | | | | | | \$113,000 | |
| Second Composition Compo | | | | | | | | | | | | | \$0 \$11,637,000 \$0 | \$11,037,000 | | \$0 | \$0 \$0 | \$11,637,000 |
| Composition | Southwest | | | | | \$00,022,000 | \$0 | \$0 \$0 | | | | | \$0 \$0 | \$0 | \$0 | \$O | \$0 | \$O |
| See Filter 1.5 See Filter | Southwest | | | | | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Section Company Comp | Southwest | Lake Elsinore | Railroad Canyon | I-15 | Canyon Hills | \$0 | \$0 | \$0 Between NB I-5 On Ramp and Summerhill | 29 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Solument Munifel | Southwest | | | | | \$0 | \$0 | \$0 | 09 | | | 3.04 | | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Murie Curlon Keeps Foundation Curlon Keeps C | Southwest | | | | | | | \$0 | 09 | | | | 38% \$38,899,000 \$0 | \$38,899,000 | \$0 | \$0 | \$0 | \$38,899,000 |
| Southwest Murie Clinfon Keith C15 Whitewood C15 C15 Whitewood C15 | | | | | | | | | | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Marie Mari | | | | | | \$2,076,000 | \$2,076,000 | \$54,000 Between Toulon and Thousand Oaks, and Duster and McBwain | 52% | | | | \$0 \$0 | \$0 | \$54,000 | \$0 | \$0 | \$0 |
| Southwest Murried Mu | Southwest | | | | | \$7.321.000 | \$7.321.000 | \$54 000 | 09 | | | | \$0 \$0 | \$0 \$0 | \$54 000 | \$0 | \$0 \$0 | \$0 |
| Southwest Municip Mu | Southwest | | | | | \$0 .\$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$O | \$O |
| Southwest Temes Lug Fench Volley (Cherry) Heffen on Diaz 3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 \$3,579,00 | Southwest | | | | | \$0 | \$0 | \$0 | 09 | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Temecula Fench Valley (Cherley) Muniferol Creek bridge \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$5,844,000 \$ | Southwest | Murrieta | | | Clinton Keith | \$0 | \$0 | \$0 | 0% | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Femculo Femch Valley (Dote Morganita Femculo Femch Valley (Dote Morganita Femculo Femch Valley (Dote Hospital Femculo Femch Valley (Dote Hospital Hospi | Southwest | | | | | | | | 09 | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Femculum | Southwest | | | | | | 4-1-1-1-1 | \$202,000 | | | | | \$0 \$0 | \$0 | \$202,000 | \$0 | \$0 | \$0 |
| Southwest Femecula Ser-Pg (Winchester) 1-15 Interchange \$12,076,000 \$122,076,000 \$22,970,000 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 | | | | | | | | \$U \$37,000 | | | | | \$0 \$0 | \$0 | \$0 | \$0 | \$0 *^ | \$0 |
| Southwest Temecula SR-77 (Winchester) Munifed tool Springs Jeffenon \$2,697,000 \$2,697,000 \$30 temesh water and sware | | | | | | | | φυ, νου ΦΩ | | | | | \$0 \$0 | фU \$0 | φον, νοφ Ω \$ | \$O | \$U \$U | €U \$0 |
| Southwest Temescula Western Spross (Vincentater) interchange \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ | Southwest | | | | | | | \$0 Between Promenade Mail West and Munieta Hat Springs, and LLS NR On Page to 250 # East of 1 | | | | | 81% \$0 \$0 | \$O | \$0 | \$0 | .\$∩ | \$ U |
| Southwest Temecula Westlem Syposis (Pincer) More Ranch Coliflorinal \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.000 \$2.285.00 | Southwest | | | | | | \$0 | \$0 | | | | | 24% \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Teme-cula Westen Bypass (Vincent More Roncho Colifornia SP-79 (Fronti) \$23,829,000 \$23,829,000 \$23,829,000 \$23,829,000 \$23,829,000 \$23,829,000 \$24,176,000 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,900 \$3,90 | Southwest | Temecula | | Cherry | | | | | 09 | 0% | 0.18 | 0.45 | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Temes of the Bytass Vision Western Bytass Vision Western Bytass Vision Western Bytass Vision Western Bytass Vision | Southwest | | Western Bypass (Vincent M | or Rancho California | | \$23,629,000 | \$23,629,000 | \$296,000 | | 0% | 0.01 | 0.05 | \$0 \$0 | \$0 | \$296,000 | \$0 | \$0 | \$0 |
| Southwest Unincorporates Definion Keith Whitewood SR-79 Earliem Bypass \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ | Southwest | | | | | \$0 | \$0 | \$0 | | | | | 36% \$0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Nouthwest Unincorporate Clinton Keith Whitewood SP-79 \$5,599,000 \$5,599,000 \$5,599,000 \$5,599,000 \$5,599,000 \$5,599,000 \$5,599,000 \$5,599,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 | | | | | | | \$4,176,000 | \$144,000 | | | | 0.05 | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Value Valu | | | | | | | \$0 | \$0 | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Unincorporates SR-74 I-15 Ethanac \$27,699,000 \$26,347,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$34,000 \$3 | | | | | | | | \$144,000 \$0 | | | | | \$U \$U | φu | | φu | ⊅ U | \$0 |
| Southwest Unincorporates SR-79 (Winchester) Keller Inompson \$34,213.000 \$34,213.000 \$254,000 \$0 \$0.50 \$0.50 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 | Southwest | | | | | | | \$749,000 Retween LIS of Dexter, and Congrid and Siverside, and Steele Valley and Reach, and Mandow | | | | | 92% \$1.352.000 \$0 | \$1.352.000 | | \$38.000 | \$38,000 | \$1,390,000 |
| Southwest Unincorporates SR-79 (Winchester) Inomposon Lo Alba \$27,699,000 \$27,699,000 \$27,699,000 \$27,699,000 \$27,699,000 \$27,699,000 \$28,000 \$28,000 \$28,000 \$28,000 \$28,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3, | Southwest | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Unincorporates SR-79 (Winchester) Lo Alba Hurler \$7,854,000 \$3,042,000 \$20,000 \$3,042,000 \$2,000 \$4,812,000 \$4,812,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,0 | Southwest | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Unincorporates SR-79 (Winchester) Hunter Murified Hof Springs \$595.000 \$44,000 \$13,000 84,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$15,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,00 | Southwest | | | | | \$7,854,000 | | \$22,000 Between La Alba and Hunter | 1009 | 100% | 1.10 | | | | \$58,000 | | \$36,000 | |
| Southwest Wildomar Bundy Canyon Monte Vista Sunset \$24,818,000 \$24,818,000 \$739,000 between Monte Vista and dark Circle 37% 37% 0.89 1.18 \$0 \$0 \$0 \$739,000 between Monte Vista and dark Circle 37% 37% 0.89 1.18 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | Southwest | | | | | | | \$11,000 Between Murrieta Hot Springs and Robert Jones, and Borel | | | | | 66% \$153,000 \$0 | \$153,000 | | \$4,000 | \$4,000 | \$157,000 |
| Southwest Wildomar Bundy Canyon I-15 interchange \$32,698,000 \$24,613,000 \$0 \$0 \$0 \$8,085,000 \$0 \$0 \$8,085,000 \$0 \$0 \$8,085,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | Southwest | | | | | | | | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 |
| Southwest Wildomar Clinton Keith Palamar I-15 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | | | | | | | | \$/39,000 Between Monte Vista and Oak Circle | | | | | \$0 \$0 | \$0 | | \$0 | \$0 | \$0 *0.005.000 |
| Southwest Wildomar Clinton Keith 1-15 Copper Craft \$5,030,000 \$0 \$0 between inland valley and 5milin Ranch, and Covington and Copper Craft 60% 60% 0.89 1.01 \$0 \$5,030,000 \$0 \$143,000 \$0 \$0 | | | | | | | \$24,613,UUU \$0 | \$O | | | | | /5% \$8,085,000 \$0 | \$8,U85,UUU 40 | \$U | \$U | 2 0 | \$8,085,000 |
| | Southwest | | | | | | \$O | \$0. Retween Inland Valley and Smith Ponch, and Covington and Connec Conf | | | | 1.00 | φυ φυ \$Ω \$5.030.000 | Φ∪ \$∩ | \$143 000 | \$O | ΦU \$∩ | \$U \$0 |
| | Subtotal | | | | | | \$1,961,707,000 | | | 00/0 | 0.07 | | \$286,635,000 \$118,571.000 | \$251,643,000 | | \$1,092,000 | 945,000 | 252,588.000 |

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding

| AREA PLAN D | | STREETNAME | SEGMENTFROM | SEGMENTIO TOTAL CO | | JM TUMF SHARE MAX TUMF MSHCP SHA | RE EXIST NEED LOS E&F SEGMENT DESCRIPTION | Updated: July 23, 2024 % EXIST NEED >2 LANE ADJST EXIST V/C FUTURE V/C TUMF V/C SHARE EXIST NEED OBLIGATED UNFUND EXIST NEED MSHCP EXIST NEED MSHCP UNFUND EXIST NEED COMBINED UNFUND EXIST NEED WHICH PROVIDED TO THE PROVI |
|------------------------|--------------------------------|----------------------------------------|--------------------------------------|----------------------------------|------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Central | Menifee | Briggs | Newport | Scott | \$0 | \$0 | \$0 | 076 077 0.18 0.48 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Menifee Menifee | Briggs Briggs | SR-74 (Pinacate) Simpson | Simpson Old Newport | \$2,991,000 \$5,430,000 | | 8,000 1,000 | 0% 0% 0.05 0.23 \$0 \$0 \$0 \$78,000 \$0 \$0 \$0 0% 0% 0.35 0.78 \$0 \$0 \$0 \$141,000 \$0 \$0 |
| Central | Menifee | Briggs | Salt Creek | | \$8,352,000 | | 8,000 | 0% 0% 0.41 0.74 \$0 \$0 \$0 \$288,000 \$0 \$0 |
| Central Central | Menifee Menifee | Garbani Goetz | I-215 Juanita | | \$63,061,000 \$11,378,000 | \$42,483,000 \$11,378,000 \$2 | \$U 5,000 | 0% 0% 1,21 1.85 67% \$20,578,000 \$0 \$20,578,000 \$0 \$0 \$0 \$20,578,000 0% 0% 0.70 0.94 \$0 \$0 \$0 \$0 \$20,578,000 \$0 \$0 \$0 |
| Central | Menifee | Goetz | Newport | Juanita | \$0 | \$0 | \$0 | 0% 0% 0.65 0.97 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Menifee Menifee | Holland Holland | Murrieta Bradley | | \$15,708,000 \$11,439,000 | | 7,000 5,000 | 0% 0% 0.52 0.87 \$0 \$0 \$0 \$117,000 \$0 \$0 \$0 \$0 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% |
| Central | Menifee | Holland | Haun | Antelope | \$9,456,000 | \$9,456,000 \$ | 0,000 | 0% 0% 0.74 0.96 \$0 \$0 \$0 \$70,000 \$0 \$0 \$0 |
| Central Central | Menifee Menifee | Holland Holland | I-215 overcrossing Antelope | bridge Menifee | \$9,744,000 \$3,844,000 | | 6,000 9,000 | 0% 0% 0.76 0.96 \$0 \$0 \$0 \$336,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Menifee | McCall | I-215 | Aspel | \$5,354,000 | | 9,000 | 0% 0% 0.14 0.65 \$0 \$0 \$0 \$139,000 \$0 \$0 \$0 |
| Central | Menifee | McCall | I-215 | interchange | \$0 | \$0 | \$0 | 0% 0% 1.58 2.02 39% \$0 \$0 \$0 \$0 \$0 |
| Central Central | Menifee Menifee | McCall Murrieta | Aspel Ethanac | Menifee McCall | \$2,288,000 \$0 | \$2,288,000 \$ \$0 | 9,000 \$0 | 0% 0% 0.38 0.71 \$0 \$0 \$0 \$59,000 \$0 \$0 \$0 0% 0% 0.52 0.84 \$0 \$0 \$0 \$0 \$0 |
| Central | Menifee | Murrieta | McCall | Newport | \$7,967,000 | | 7,000 | 0% 0% 0.60 0.84 \$0 \$0 \$0 \$207,000 \$0 \$0 \$0 |
| Central Central | Menifee Moreno Valley | Murrieta | Newport I-215 | Bundy Canyon Heacock | \$0 \$5,617,000 | \$0 \$5,617,000 \$ | \$0 2,000 Between Goldencrest and Arial, and Frontage Road and 250 ft East | 0% 0% 0.43 0.69 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | Cactus | I-215 | interchange | \$0 | \$0 | \$0 | 0% 0% 1.22 1.43 40% \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | Ironwood | SR-60 | \$0 | \$0 \$0 | \$0 | 0% 0% 0.53 0.63 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 1.03 1.21 60% \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | SR-60 SR-60 | interchange Eucalyptus | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 1.03 1.21 00% \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | I-215 | Towngate | \$8,843,000 | \$8,843,000 \$ | 6,000 | 0% 0% 0.52 0.72 \$0 \$0 \$0 \$66,000 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | Towngate Frederick | Frederick Heacock | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.43 0.69 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.51 0.67 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | Eucalyptus | Heacock | Kitching | \$0 | \$0 | \$0 | 0% 0% 0.53 0.71 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | Kitching Moreno Beach | Moreno Beach Theodore | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.19 0.28 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | Frederick | SR-60 | Alessandro | \$0 | \$0 | \$0 Between SR-60 and Sunnymead | 5% 5% 0.42 0.59 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | Cactus Reche Vista | San Michele Cactus | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.56 0.96 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | San Michele | Harley Knox | \$0 | \$0 | \$0 | 0% 0% 0.11 0.22 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | SR-60 | Day | \$0 | \$0 | \$0 | 0% 0% 0.82 1.02 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | Day Alessandro | Heacock John F Kennedy | \$0 \$0 | \$0 \$0 | \$U \$0 | 0% 0% 0.69 0.84 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.68 0.79 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | Lasselle | John F Kennedy | Oleander | \$0 | \$0 | \$0 Between Via Xavier and Krameria | 13% 13% 0.72 1.01 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | | Moreno Beach Moreno Beach | Reche Canyon SR-60 overcrossing | SR-60 bridge | \$18,797,000 \$0 | \$18,797,000 \$1 | 0,000 Between SR-60 and SR-60 WB Exit Ramp \$0 | 5% 5% 0.32 0.65 \$0 \$0 \$0 \$140,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | SR-60 | Alessandro | \$0 | \$0 | \$0 | 0% 0% 0.66 0.83 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Moreno Valley | Pigeon Pass Pigeon Pass/CETAP Corridor | Ironwood | SR-60 Ironwood | \$0 \$0 | \$0 \$0 | \$0 Between SR-60 and SR-60 WB On Ramp, and Hemlock and Iranwood | 87% 87% 0.94 1.07 7.4% \$0 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.40 0.48 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | | Reche Canyon | Moreno Valley City Limit | Locust | \$0 | \$0 | \$0 | 0% 0% 0.02 0.19 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Moreno Valley | | Locust | | \$39,789,000 | | 5,000 Between Locust and Iranwood | 27% 27% 0.80 0.97 \$0 \$0 \$0 \$295,000 \$0 \$0 |
| Central Central | Moreno Valley Moreno Valley | | SR-60 SR-60 | | \$32,698,000 \$3,966,000 | \$32,698,000 \$3,966,000 \$ | 9,000 | 0% 0% 0.47 0.51 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.46 0.99 \$0 \$0 \$0 \$29,000 \$0 \$0 |
| Central | Moreno Valley | Theodore | SR-60 | interchange | \$32,698,000 | \$32,698,000 | \$0 | 0% 0% 0.44 0.75 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Perris Perris | Ellis Evans | Goetz Oleander | Evans Ramona | \$9,526,000 \$0 | \$9,526,000 \$2 | 7,000 \$0 | 0% 0% 0.08 0.14 \$0 \$0 \$0 \$247,000 \$0 \$0 \$0 \$0 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% |
| Central | Perris | Evans | Ramona | Morgan | \$0 | \$0 | \$0 | 0% 0% 0.80 1.15 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Perris Perris | Evans | Morgan | Rider | \$0 | \$0 \$0 | \$0 Between Morgan and Sinclair | 50% 50% 0.83 1.06 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Perris | Evans Evans | Rider Placentia | Placentia Nuevo | \$6,492,000 | 4- | \$0 Between Placentia and 350 ft North 9,000 Between Placentia and 220 ft South, and Moraga and Sunset | 11% 11% 0.55 0.69 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Perris | Evans | Nuevo | | \$17,705,000 | \$17,705,000 \$4 | 0,000 | 0% 0% 0.00 0.33 \$0 \$0 \$0 \$460,000 \$0 \$0 \$0 |
| Central Central | Perris Perris | Evans Evans | San Jacinto River I-215 | bridge bridge | \$11,136,000 \$8,352,000 | | 4,000 8,000 | 0% 0% 0,00 0.13 \$0 \$0 \$0 \$384,000 \$0 \$0 \$0 0% 0% 0.00 0.13 \$0 \$0 \$0 \$288,000 \$0 \$0 |
| Central | Perris | Goetz | Lesser | | \$7,845,000 | | 4,000 Between Ethanac and Ruffian | 7% 7% 0,79 1.13 \$0 \$0 \$0 \$204,000 \$0 \$0 |
| Central Central | Perris Perris | Harley Knox Harley Knox | I-215 I-215 | Indian interchange | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.31 0.38 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Perris | Harley Knox | Indian | Perris | \$0 | \$0 | \$0 | 0% 0% 0.11 0.15 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Perris | Harley Knox | Perris | Redlands | \$0 | \$0 | \$0 | 0% 0% 0.25 0.47 \$0 \$0 \$0 \$0 \$0 |
| Central Central | Perris Perris | Nuevo Nuevo | I-215 I-215 | | \$16,971,000 \$32,698,000 | \$16,971,000 \$1 \$19,736,000 | 6,000 \$0 | 0% 0% 0.51 0.83 \$0 \$0 \$0 \$126,000 \$0 \$0 \$0 0% 0% 1.53 2.50 60% \$12,962,000 \$0 \$12,962,000 \$0 \$0 \$0 \$12,962,000 |
| Central | Perris | Nuevo | Murrieta | Dunlap | \$4,367,000 | \$4,367,000 \$1 | 3,000 | 0% 0% 0.35 0.68 \$0 \$0 \$0 \$113,000 \$0 \$0 |
| Central Central | Perris Perris | Nuevo SR-74 (Matthews) | Perris Valley Storm Channel I-215 | bridge Ethanac | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.35 0.67 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.69 0.98 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Perris | SR-74 (Matthews) | I-215 | | \$32,698,000 | \$21,835,000 | \$0 | 0% 0% 1.41 2.42 67% \$10,863,000 \$0 \$10,863,000 \$0 \$0 \$0 \$0 \$0 \$0 \$10,863,000 |
| Central | | c Center (Main) c Center (Main) | I-215 | Mt Vernon | \$0 | \$0 | \$0 Between I-215 and Highgrave | 4% 4% 0.39 0.67 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 2.38 3.22 36% \$20,786,000 \$0 \$20,786,000 \$0 \$0 \$0 \$20,786,000 |
| Central Central | | c Center (Main) | I-215 BNSF | | \$32,698,000 \$20,010,000 | \$11,912,000 \$20,010,000 \$6 | 0,000 | 0% 0% 2.38 3.22 36% \$20,786,000 \$0 \$20,786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$20,786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0 \$0.786,000 \$0.786,000 \$0 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786,000 \$0.786 |
| Central | Unincorporate | c Ellis | Post | SR-74 | \$11,550,000 | \$11,550,000 \$3 | 0,000 | 0% 0% 0.20 0.46 \$0 \$0 \$0 \$300,000 \$0 \$0 \$0 |
| Central Central | Unincorporate Unincorporate | c Mount Vernon/CETAP Corric c Nuevo | ic Center Dunlap | Pigeon Pass Menifee | \$2,582,000 \$8,737,000 | | 7,000 5,000 Between Dunlap and Menifee | 0% 0% 0.58 0.96 \$0 \$0 \$0 \$77,000 \$0 \$0 \$0 \$0 100% 100% 0.76 1.30 \$0 \$6.232,000 \$0 \$227,000 \$0 \$0 \$0 |
| Central | Unincorporate | c Nuevo | San Jacinto River | bridge | \$5,568,000 | \$5,568,000 \$1 | 2,000 | 0% 0% 0.77 1.36 \$0 \$0 \$0 \$192,000 \$0 \$0 |
| Central Central | Unincorporate Unincorporate | c Pigeon Pass/CETAP Corridor c Post | Hidden Springs Santa Rosa Mine | Mount Vernon Filis | \$8,106,000 \$0 | \$8,106,000 \$2 \$0 | 1,000 \$0 | 0% 0% 1.16 1.33 40% \$0 \$0 \$0 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central | Unincorporate | c Reche Canyon | Reche Vista | Moreno Valley City Limit | \$0 | \$0 | \$0 | 0% 0% 0.02 0.19 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Central Northwest | Unincorporate Corona | c Redlands 6th | San Timoteo Canyon SR-91 | Locust Magnolia | \$0 \$∩ | \$0 \$0 | \$0 Between Locust and San Timoteo \$0 | 100% 100% 1.32 1.51 31% \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Auto Center | Railroad | SR-91 | \$0 | \$0 | \$0 | 0% 0% 0.31 0.32 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Cajalco Hidden Valley | Bedford Canyon | I-15 McKipley | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.51 0.79 \$0 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.52 0.72 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | Hidden Valley Lincoln | Norco Hills Parkridge | McKinley Ontario | \$0 | \$0 | \$0 | 0% 0% 0.58 0.65 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Magnolia | 6th | Sherborn | \$7,054,000 | \$6,419,000 \$ | 7,000 Between 6th and Sherborn | 100% 100% 0.91 1.07 91% \$635,000 \$0 \$635,000 \$52,000 \$5,000 \$5,000 \$5,000 |
| Northwest Northwest | Corona Corona | Magnolia Magnolia | Temescal Creek Sherborn | bridge Rimpau | \$4,176,000 \$0 | \$3,580,000 \$1 \$0 | \$0.000 Setween Rimpau and I-15 S& On Ramp, and Monfecito and Sherborn | 0% 0% 0.93 1.08 86% \$596,000 \$0 \$596,000 \$144,000 \$0 \$0 \$596,000 60% 60% 0.93 1.04 77% \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Magnolia | Rimpau | Ontario | \$0 | \$0 | \$0 | 0% 0% 0.71 0.73 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Main | Grand | Ontario | \$0 \$0 | \$0 \$0 | \$0 | 0% 0% 0.78 0.81 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | Main Main | Ontario Hidden Valley | Foothill Parkridge | \$5,314,000 | | 2,000 Between Hidden Valley and Parkridge | 100% 100% 0.94 1.12 83% \$925,000 \$0 \$925,000 \$39,000 \$7,000 \$7,000 \$932,000 |
| Northwest | Corona | Main | Parkridge | SR-91 | \$0 | \$0 | \$0 Between SR-91 WB On Ramp and Grand | 8% 8% 0.62 0.73 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | Main McKinley | SR-91 Hidden Valley | S. Grand Promenade | \$0 \$0 | \$0 \$0 | \$0 Between 3rd and 4th \$0 | 8% 8% 0.66 0.65 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.70 0.86 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | McKinley | Promenade | SR-91 | \$0 | \$0 | \$0 | 0% 0.61 0.66 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | McKinley McKinley | SR-91 Adjugator Channel | Magnolia | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% 0.76 0.81 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.81 0.89 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | McKinley | Arlington Channel BNSF | bridge railroad crossing \$ | \$105,560,000 | \$0 | \$0 | 0% 0% 0.81 0.89 \$0 \$105,560,000 \$0 \$3,640,000 \$0 \$0 |
| Northwest | Corona | Ontario | I-15 | El Cerrito | \$13,451,000 | | 0,000 Between State and Rising Sun | 32% 32% 0.69 0.93 \$0 \$0 \$0 \$100,000 \$0 \$0 |
| Northwest Northwest | Corona Corona | Ontario Ontario | Lincoln Buena Vista | Buena Vista Main | ≱∪ \$0 | \$0 \$0 | φο \$0 | 0% 0% 0.67 0.71 \$0 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.47 0.47 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Ontario | Main | Kellogg | \$0 | \$0 | \$0 | 0% 0% 0.39 0.41 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | Ontario Ontario | Kellogg Fullerton | Fullerton Rimpau | \$0 \$∩ | \$0 \$0 | \$U \$0 | 0% 0% 0.36 0.42 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.36 0.49 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Ontario | Rimpau | I-15 | \$0 | \$0 | \$0 \$0 Between Compton and I-15SB On Ramp | 7% 7% 0.45 0.57 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Corona Corona | Railroad Railroad | Auto Club BNSF | Buena Vista railroad crossing | \$0 \$40,020,000 | \$0 \$40,020,000 \$1,3 | \$0 0,000 | 0% 0% 0.26 0.30 \$0 \$0 \$0 \$0 \$0 \$0 0% 0% 0.31 0.34 \$0 \$0 \$0 \$1,380,000 \$0 \$0 |
| Northwest | Corona | Railroad | Buena Vista | Main (at Grand) | \$40,020,000 | \$40,020,000 \$1,3 \$0 | \$0 | 0% 0% 0.69 0.73 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | River | Corydon | Main | \$0 | \$0 \$0 | \$0 Between Corydon and 2nd St | 25% 25% 0.71 0.85 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Corona | Serfas Club | SR-91 | Green River | \$0 | ΦU | \$0 | 0% 0% 0.58 0.59 \$0 \$0 \$0 \$0 \$0 \$0 |

Updated: July 23, 2024

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding

| AREA PLAN D | | STREETNAME | SEGMENTFROM | sting Need and Obligated I | | A JOANI JA ALITA KALIKALYA | MAX TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION | % FYIST NIFED >2 I AN | NE AD IST | EYIST V/C | FUTURE V/C T | TUMF V/C SHARE EXIST NEED | OBLIGATED | LINEUND EXIST NEED MS | HCP MS | HCD EXIST NEED | MSHCP LINELIND EXIST NEED | Updated: July 23, 2024 COMBINED UNFUND EXIST NEED |
|------------------------|--------------------------------|-----------------------------------|------------------------------------|------------------------------------------|------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|--------------|--------------|---------------------------|-------------------------|-----------------------|-----------------------|-----------------|---------------------------|---------------------------------------------------|
| Northwest | Eastvale | Archibald | Remington | River | \$3,382,000 | \$3,382,000 | \$0 Between Whispering Hills and Cadenza, and Providence and San Bemardino County | 24% | 24% | 0.62 | 0.93 | ONI V/C STARE EXIST NEED | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Eastvale Fastvale | Hamner Hamner | Mission Bellegrave | Bellegrave Amberhill | \$0 \$199,000 | \$0 \$199.000 | \$0 Between Ontario Ranch and Micro, and Riverside and Mission \$0 | 44% 0% | 44% 0% | 0.86 0.57 | 1.30 1.16 | | 0 \$0 n \$n | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Eastvale | Hamner | Amberhill | Limonite | \$2,787,000 | \$2,787,000 | \$72,000 | 0% | 0% | 0.57 | 1.08 | 9 | 0 \$0 | \$0 | \$72,000 | \$0 | \$0 | \$0 |
| Northwest | Eastvale | Hamner | Limonite | Schleisman | \$991,000 | \$991,000 | \$0 | 0% | 0% | 0.38 | 0.63 | 2207 61.050.00 | 0 \$0 | \$0 | \$0 | \$40,000 | \$0 | \$0 |
| Northwest Northwest | Eastvale Eastvale | Hamner Hellman | Schleisman Schleisman | Santa Ana River Walters | \$5,533,000 \$419,000 | \$3,675,000 \$419,000 | \$96,000 Between Schleisman and Santa Ana River \$3,000 | 100% | 50% 0% | 1.24 0.86 | 1.41 1.69 | 33% \$1,858,00 | 0 \$0 | \$1,858,000 \$0 | \$144,000 \$3,000 | \$48,000 \$0 | | \$1,906,000 \$0 |
| Northwest | Eastvale | Hellman | Walters | River | \$21,503,000 | \$21,503,000 | \$160,000 | 0% | 0% | 0.69 | 1.44 | 5 | 0 \$0 | \$0 | \$160,000 | \$0 | | \$0 |
| Northwest Northwest | Eastvale Eastvale | Hellman Limonite | Cucamonga Creek | bridge Eastvale Gateway | \$3,828,000 \$289,000 | \$3,828,000 \$289,000 | \$132,000 \$0 Between I-15 and Eastvale Gateway | 0% 100% | 0% 100% | 0.69 | 1.44 1.32 | 92% | 0 \$0 | \$0 \$0 | \$132,000 | \$0 | \$0 | \$0 \$0 |
| Northwest | Eastvale | Limonite | I-15 | interchange | \$207,000 | \$0 | \$0 | 0% | 0% | 0.73 | 1.07 | 72/0 | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Eastvale | Limonite | Eastvale Gateway | Hamner | \$255,000 | \$255,000 | \$0 Between Eastvale Gateway and Hamner | 100% | 100% | 0.95 | 1.36 | 90% | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Eastvale Eastvale | Limonite Limonite | Hamner Sumner | Sumner Harrison | \$1,094,000 \$497,000 | \$1,094,000 \$497,000 | \$28,000 Between Hamner and Scholar \$0 | 50% 0% | 50% 0% | 0.80 | 1.16 0.97 | | 0 \$0 0 \$0 | \$0 \$0 | \$28,000 \$0 | \$C \$0 | 50 | \$0 \$0 |
| Northwest | Eastvale | Limonite | Harrison | Archibald | \$0 | \$0 | \$0 | 0% | 0% | 0.55 | 0.70 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Eastvale Eastvale | Limonite Limonite | Archibald Cucamonga Creek | Hellman (Keller SBD Co.) bridge | \$2,208,000 \$13,920,000 | \$2,208,000 \$0 | \$57,000 \$0 | 0% 0% | 0% 0% | 0.00 0.64 | 0.35 0.75 | | 0 \$13,920,000 | \$0 \$0 | \$57,000 \$480,000 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Eastvale | River | Hellman | Archibald | \$5,948,000 | \$5,948,000 | \$44,000 | 0% | 0% | 0.67 | 1.01 | | 0 \$0 | \$0 | \$44,000 | \$0 | \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | San Bernardino County | Valley | \$6,192,000 \$464,000 | \$6,192,000 \$464,000 | \$176,000 Between Sierra and Valley \$12,000 | 33% 0% | 33% 0% | 0.83 | 1.14 0.78 | 5 | 0 \$0 | \$0 \$0 | \$176,000 \$12,000 | \$0 | \$0 | \$0 |
| Northwest | | Cantu-Galleano Ranch | Cantu-Galleano Ranch Wineville | Van Buren Bellegrave | \$793,000 | \$793,000 | \$12,000 | 0% | 0% | 0.43 | 0.27 | | 0 \$0 | \$0 \$0 | \$21,000 | \$0 | \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Philadelphia | SR-60 | \$1,515,000 | \$989,000 | \$25,000 Between San Bernardino County and SR-60 | 100% | 100% | 1.11 | 1.49 | 65% \$526,00 | 0 \$0 | \$526,000 | \$39,000 | \$14,000 | \$14,000 | \$540,000 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | SR-60 I-15 | Limonite Wineville | \$0 \$0 | \$0 \$0 | \$0 Between SR-60 and Riverside, and Contu Galleano Ranch and Coral \$0 Between I-15 and I-15 NB On Ramp | 12% 15% | 12% 15% | 0.61 0.82 | 0.84 0.90 | 3 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 | \$L \$0 |) \$U) \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Wineville | Etiwanda | \$0 | \$0 | \$0 Between Eliwanda and Lorena | 9% | 9% | 0.76 | 0.80 | 3 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | Etiwanda Van Buren | Van Buren Clav | \$2,981,000 | \$2,981,000 | \$77,000 Between Bain and Beach | 23% 0% | 23% 0% | 0.80 0.67 | 0.91 0.84 | | 0 \$0 | \$0 \$0 | \$77,000 | \$0 | \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Clay | Riverview | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% | 0% | 0.64 | 0.79 | | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Jurupa Valley | | Rubidoux | Santa Ana River | \$5,181,000 | \$0 | \$0 Between Rubidoux and Aqua Mansa, and Via Cerro and Santa Ana River | 40% | 40% | 0.86 | 1.06 | | 0 \$5,181,000 | \$0 | \$135,000 | \$0 | \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | Santa Ana River Milliken | bridge SR-60 | \$13,920,000 \$0 | \$6,204,000 \$0 | \$214,000 \$0 Between Milliken and Wineville, and \$8.60 to \$8.60 EB Off Ramp | 0% 58% | 0% 58% | 1.13 0.90 | 1.32 1.06 | 45% \$7,716,00 | U \$U O \$O | \$7,716,000 \$0 | \$480,000 \$0 | \$L \$0 |) \$U) \$0 | \$7,716,000 \$0 |
| Northwest | Jurupa Valley | Mission | SR-60 | Santa Ana River | \$0 | \$0 | \$0. Between Jurupa and Canal, Riverview and Rubidoux, and Crestmore and Santa Ana River | 13% | 13% | 0.57 | 0.78 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Jurupa Valley Jurupa Valley | | Limonite | Mission | \$0 | \$0 | \$0 | 0% 9% | 0% 9% | 0.55 | 0.56 | 9 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Jurupa Valley Jurupa Valley | | Pine SR-60 | Mission interchange | \$0 \$32,698,000 | \$0 \$9,051,000 | \$0 Between SR-60 WB and 30th, and 24th and Market \$0 | 9% 0% | 9% 0% | 0.86 1.61 | 1.11 1.88 | 28% \$23,647,00 | 0 \$0 0 \$0 | \$0 \$23,647,000 | \$0 \$0 | \$0 \$0 | , \$0) \$0 | \$0 \$23,647,000 |
| Northwest | Jurupa Valley | Valley | Armstrong | Mission | \$0 | \$0 | \$0 Between Armstrong and Mission | 100% | 100% | 1.22 | 1.47 | 44% | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Norco Norco | 1st 1st | Parkridge Mountain | Mountain Hamner | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% 0% | 0% 0% | 0.75 0.38 | 0.89 0.51 | 5 | ບ \$0 ດ \$ ດ | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 | \$0 \$0 |
| Northwest | Norco | 2nd | River | I-15 | \$0 | \$0 \$0 | \$0 \$0 Between Hamner and I-1.5 SB On Ramp | 7% | 7% | 0.74 | 0.85 | | 0 \$0 | \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Norco | 6th | Hamner | California | \$0 | \$0 | \$0 Between Hamner and I-15 NB On Ramp | 9% | 9% | 0.68 | 0.76 | 1107 000 000 00 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Norco Norco | 6th Arlington | I-15 Crestview | interchange Fairhaven | \$32,698,000 \$4,342,000 | \$3,489,000 \$4,342,000 | \$U \$113,000 Between Crestview and Fairhaven | 0% 100% | 0% 100% | 2.57 0.79 | 2.77 0.94 | 11% \$29,209,00 | 0 \$0 0 \$0 | \$29,209,000 \$0 | \$0 \$113,000 | \$U \$0 |) \$U) \$0 | \$29,209,000 \$0 |
| Northwest | Norco | California | Arlington | 6th | \$15,237,000 | \$12,525,000 | \$93,000 Between Arlington and 7th, and Green Tree ans 6th | 78% | 78% | 0.96 | 1.14 | 77% \$2,712,00 | 0 \$0 | \$2,712,000 | \$113,000 | \$20,000 | \$20,000 | \$2,732,000 |
| Northwest Northwest | Norco | Corydon Hamner | River | 5th | \$0 \$33,408,000 | \$0 \$11.455.000 | \$0 \$395,000 | 0% 0% | 0% 0% | 0.52 | 0.78 1.67 | 34% \$21,953,00 | 0 \$0 | \$0 \$332,000 | \$0 \$1,152,000 | \$0 | \$0 | \$0 \$332,000 |
| Northwest | Norco Norco | Hamner | Santa Ana River Santa Ana River | bridge Hidden Valley | \$33,408,000 \$49,591,000 | \$49,591,000 | \$368,000 Between Detroit and Santa Ana River | 0% 6% | 6% | 0.65 | 0.80 | 34% \$21,933,00 | 0 \$21,621,000 0 \$0 | \$332,000 | \$368,000 | \$(\$(| 50 \$0 | \$332,000 \$0 |
| Northwest | Norco | Hidden Valley | I-15 | Norco Hills | \$0 | \$0 | \$0 Between I-15 to I-15 NB On Ramp | 3% | 3% | 0.55 | 0.70 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Norco Norco | Hidden Valley Norco | Hamner Corydon | I-15 Hamner | \$0 \$0 | \$0 \$0 | \$0 Between Hamner and I-15 | 100% 0% | 100% 0% | 1.14 0.33 | 1.23 0.48 | 27% | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 | \$0 \$0 |
| Northwest | Norco | North | California | Crestview | \$0 | \$0 | \$0 Between California and Crestview | 100% | 100% | 0.96 | 1.19 | 80% | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Norco | River | Archibald | Corydon | \$1,743,000 | \$1,109,000 | \$8,000 Between Archibald and Sundance | 79% | 79% | 1.20 | 1.56 | 54% \$634,00 | 0 \$0 | \$634,000 | \$13,000 | \$5,000 | \$5,000 | \$639,000 |
| Northwest Northwest | Riverside Riverside | 14th 1st | Market Market | Martin Luther King Main | \$0 \$0 | \$0 \$0 | \$U \$0 | 0% 0% | 0% 0% | 0.66 | 0.76 0.50 | | U \$U O \$0 | \$0 \$0 | \$0 \$0 | \$L \$0 |) \$0) \$0 | \$0 \$0 |
| Northwest | Riverside | 3rd | SR-91 | I-215 | \$1,941,000 | \$1,941,000 | \$14,000 | 0% | 0% | 0.49 | 0.59 | 9 | 0 \$0 | \$0 | \$14,000 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | 3rd Adams | BNSF Arlington | railroad crossing SR-91 | \$105,560,000 | \$30,560,000 | \$1,054,000 \$0 | 0% 0% | 0% 0% | 0.77 0.49 | 0.90 0.48 | | 0 \$75,000,000 | \$0 \$0 | \$3,640,000 | \$0 | \$0 | \$0 \$0 |
| Northwest | Riverside | Adams | SR-91 | Lincoln | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% | 0% | 0.44 | 0.64 | | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest | Riverside | Adams | SR-91 | interchange | \$32,698,000 | \$3,262,000 | \$0 | 0% | 0% | 1.46 | 1.52 | 10% \$29,436,00 | 0 \$935,000 | \$28,501,000 | \$0 | \$0 | \$0 | \$28,501,000 |
| Northwest Northwest | Riverside Riverside | Arlington Buena Vista | Fairhaven Santa Ana River | La Sierra Redwood | \$U \$0 | \$0 \$0 | \$0 \$0 | 0% 0% | 0% 0% | 0.68 0.83 | 0.77 1.17 | 3 | 0 \$0 0 \$0 | \$0 \$0 | \$0 \$0 | \$L \$0 |) \$U) \$0 | \$0 \$0 |
| Northwest | Riverside | Canyon Crest | Martin Luther King | Central | \$0 | \$0 | \$0 Between Martin Luther King and El Cerrito | 71% | 71% | 1.02 | 1.16 | 55% | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Canyon Crest Canyon Crest | Central Country Club | Country Club Via Vista | \$0 \$4,996,000 | \$0 \$1,593,000 | \$0 \$45,000 Between Country Club and Via Vista | 0% 100% | 0% 100% | 0.70 | 0.77 1.48 | 32% \$3,403,00 | 0 \$0 n \$n | \$0 \$3,403,000 | \$0 \$142,000 | \$0 \$97,000 | \$0 \$97,000 | \$0 \$3,500,000 |
| Northwest | Riverside | Canyon Crest | Via Vista | Alessandro | \$0 | \$0 | \$0 | 0% | 0% | 0.59 | 0.72 | 02/0 \$0,400,00 | 0 \$0 | \$0 | \$0 | \$77,000 | \$0 | \$0 |
| Northwest | Riverside | Central | Chicago | I-215/SR-60 | \$0 | \$0 | \$0 Between Chicago and Chapala, and Canyon Crest and Quail Run | 32% | 32% | 0.80 | 0.96 | 5 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Central Central | SR-91 Alessandro | Magnolia SR-91 | \$0 \$0 | \$0 \$0 | \$0 Between SR-91 and SR-91 SB On Ramp \$0 Between SR-91 and SR-91 NB On Ramp, and Nottingham and 420 ft West | 6% 5% | 6% 5% | 0.64 0.75 | 0.71 0.87 | 3 | 0 \$0 | \$0 \$0 | \$0 \$0 | \$L \$0 |) \$U) \$0 | \$0 \$0 |
| Northwest | Riverside | Central | Van Buren | Magnolia | \$0 | \$0 | \$0 | 0% | 0% | 0.43 | 0.53 | 9 | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Chicago Chicago | Alessandro Spruce | Spruce Columbia | \$0 \$0 | \$0 \$0 | \$0 Between Martin Luther King and Ransom | 43% 0% | 43% 0% | 0.85 0.72 | 0.99 0.85 | | 0 \$0 n \$n | \$0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Riverside | Columbia | Main | lowa | \$0 | \$0 \$0 | \$0 | 0% | 0% | 0.62 | 0.71 | | 0 \$0 | \$0 \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest Northwest | Riverside Riverside | Columbia | I-215 Center | interchange 3rd | \$32,698,000 \$30,272,000 | \$9,050,000 \$30,272,000 | \$0 \$225,000 Between Palmyrita and Columbia | 0% 11% | 0% 11% | 2.96 0.82 | 3.74 | 28% \$23,648,00 | 0 \$0 | \$23,648,000 \$0 | \$0 \$225,000 | \$0 | \$0 | \$23,648,000 \$0 |
| Northwest | Riverside | lowa | 3rd | University | \$0 \$0 | φου,2/2,000 \$0 | \$0 венчен катупа ала соштова | 0% | 0% | 0.82 | 0.93 0.73 | | 0 \$0 | \$0 | \$225,000 \$0 | \$C | \$0 | \$0 \$0 |
| Northwest | Riverside | lowa | University | Martin Luther King | \$0 | \$0 | \$0 | 0% | 0% | 0.24 | 0.36 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | JFK La Sierra | Trautwein Arlington | Wood SR-91 | \$1,880,000 \$0 | \$1,880,000 \$0 | \$49,000 \$0 | 0% 0% | 0% 0% | 0.54 0.43 | 0.68 0.51 | 5 | ∪ \$0 0 .\$∩ | \$U \$0 | \$49,000 \$0 | \$0 .\$0 | , \$0) \$0 | \$0 \$0 |
| Northwest | Riverside | La Sierra | SR-91 | Indiana | \$192,000 | \$192,000 | \$0 | 0% | 0% | 0.77 | 0.85 | | 0 \$0 | \$0 | \$0 | \$0 | · · | \$0 |
| Northwest Northwest | Riverside Riverside | La Sierra Lemon (NB One way) | Indiana Mission Inn | Victoria University | \$778,000 \$0 | \$778,000 \$0 | \$0 \$0 | 0% 0% | 0% 0% | 0.71 | 0.80 0.15 | | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 .\$0 | | \$0 \$0 |
| Northwest | Riverside | Lincoln | Van Buren | Jefferson | \$0 | \$0 \$0 | \$0 | 0% | 0% | 0.11 | 0.15 | 3 | 0 \$0 | \$0 | \$0 \$0 | \$C | \$0 | \$0 \$0 |
| Northwest | Riverside | Lincoln | Jefferson | Washington | \$0 | \$0 | \$0 #2 | 0% | 0% | 0.26 | 0.49 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest Northwest | Riverside Riverside | Lincoln Madison | Washington SR-91 | Victoria Victoria | \$0 \$853,000 | \$0 \$853,000 | \$U \$0 | 0% 0% | 0% 0% | 0.39 0.65 | 0.56 0.66 | | ບ \$0 0 \$∩ | \$0 \$0 | \$0 .\$0 | \$0 \$0 |) \$0) \$n | \$0 \$0 |
| Northwest | Riverside | Madison | BNSF | railroad crossing | \$20,010,000 | \$20,010,000 | \$690,000 | 0% | 0% | 0.81 | 0.80 | | 0 \$0 | \$0 | \$690,000 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Magnolia Magnolia | BNSF Railroad BNSF | Tyler | \$0 \$0 | \$0 \$0 | \$0 Between Buchanan and SR-91 EB On Ramp, and SR-91 to La Sierra | 53% 0% | 53% 0% | 0.82 | 0.96 1.04 | | 0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | | \$0 \$0 |
| Northwest | Riverside | Magnolia | Tyler | railroad crossing Harrison | \$0 \$0 | \$0 \$0 | \$0 | 0% | 0% | 0.90 | 0.66 | | 0 \$0 | \$0 \$0 | \$0 \$0 | \$(| | \$0 \$0 |
| Northwest | Riverside | Magnolia | Harrison | 14th | \$0 | \$0 | \$0 | 0% | 0% | 0.62 | 0.79 | | 0 \$0 | \$0 | \$0 | \$0 | · · | \$0 |
| Northwest Northwest | Riverside Riverside | Main Market | lst l4th | San Bernardino County Santa Ana River | \$0 \$9,491,000 | \$0 \$9,491,000 | \$0 Between Columbia and San Bernardino County, and SR-60 WB On Ramp to SR-60 EB On Ramp \$70,000 Between Rivera and Santa Ana River | 43% 21% | 43% 21% | 0.76 0.72 | 0.94 0.92 | | ບ \$0 ດ •ດ | \$0 \$0 | \$0 \$70,000 | \$0 \$0 | | \$0 \$0 |
| Northwest | Riverside | Martin Luther King | 14th | I-215/SR-60 | \$24,031,000 | \$24,031,000 | \$178,000 Between Rivera and Santa Ana River \$178,000 Between Victoria and Sedgwick, and Iowa and I-215 SB On Ramp | 41% | 41% | 0.72 | 0.87 | | 0 \$0 | \$0 \$0 | \$178,000 | \$0 | | \$0 \$0 |
| Northwest | Riverside | Mission Inn | Redwood | Lemon | \$0 | \$0 | \$0 \$0 | 0% | 0% | 0.26 | 0.47 | | 0 \$0 | \$0 | \$0 | \$0 | | \$0 |
| Northwest Northwest | Riverside Riverside | Redwood (SB One way) Trautwein | Mission Inn Alessandro | University Van Buren | \$0 \$0 | \$0 \$0 | \$0 \$0 Between Mission Grove and Crange Terrace | 0% 43% | 0% 43% | 0.59 0.88 | 0.74 1.04 | 5 | ∪ \$0 0 .\$∩ | \$0 \$0 | \$U \$0 | \$0 \$0 | | \$0 \$0 |
| Northwest | Riverside | Tyler | SR-91 | Magnolia | \$0 | \$0 | \$0 | 0% | 0% | 0.31 | 0.37 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | Tyler Tyler | SR-91 Magnolia | interchange Hole | \$63,061,000 \$0 | \$21,814,000 \$0 | \$0 \$0 | 0% 0% | 0% 0% | 1.56 | 1.90 | 35% \$41,247,00 | 0 \$0 | \$41,247,000 \$0 | \$0 | \$0 \$0 | | \$41,247,000 \$0 |
| Northwest | Riverside | Tyler | Magnolia Hole | Wells | \$0 \$0 | \$0 \$0 | \$0 | 0% | 0% | 0.30 | 0.30 0.53 | | 0 \$0 | \$0 \$0 | \$0 \$0 | \$C |) \$0 \$0 | \$0 \$0 |
| Northwest | Riverside | Tyler | Wells | Arlington | \$0 | \$0 | \$0 #2 | 0% | 0% | 0.59 | 0.62 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Northwest Northwest | Riverside Riverside | University University | Redwood SR-91 | SR-91 I-215/SR-60 | \$859,000 \$2,067,000 | \$859,000 \$2,067,000 | \$0 \$0 Between SR-60 and SR-60 SB On Ramp | 0% 2% | 0% 2% | 0.60 0.52 | 0.71 0.65 | 5 | ∪ \$0 0 ¢∩ | \$0 \$0 | \$0 \$0 | \$(er | \$0 | \$0 \$0 |
| Northwest | Riverside | Victoria | Lincoln | Arlington | \$2,067,000 | \$2,067,000 | \$0 \$0 | 0% | 0% | 0.86 | 1.11 | | 0 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Northwest | Riverside | Victoria | Madison | Washington | \$0 | \$0 | \$0 | 0% | 0% | 0.36 | 0.55 | | 0 \$0 | \$0 | \$0 | \$0 | | \$0 |
| Northwest Northwest | Riverside Riverside | Washington Wood | Victoria JFK | Hermosa Van Buren | \$27,018,000 \$3,053,000 | \$27,018,000 \$3,053,000 | \$201,000 Between Dufferin and Overlook, and Bradley and Hermosa \$79,000 | 34% 0% | 34% 0% | 0.83 | 0.94 1.03 | | ∪ \$0 0 \$∩ | \$0 \$0 | \$201,000 \$79,000 | \$0 \$0 | | \$0 \$0 |
| Northwest | Riverside | Wood | Van Buren | Bergamont | \$0 | \$0 | \$0 | 0% | 0% | 0.50 | 0.69 | 5 | 0 \$0 | \$0 | \$0 | \$0 | | \$0 |
| Northwest | Riverside | Wood | Bergamont | Krameria | \$0 | \$0 | \$0 | 0% | 0% | 0.55 | 0.77 | 5 | υ \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding

| EXHIBIT H | H-2 TUMF Network Detailed | Cost Estimate - Exi | sting Need and Obligate | ed Funding | | | Updated: July 2 |
|------------------------|----------------------------------------------------------|--------------------------|-------------------------|------------------------------------------|---------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREA PLAN D | | SEGMENTFROM | SEGMENTTO | TOTAL COST | MAXIMUM TUMF SHARE MAX 1 | TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION | % EXIST NEED >2 LANE ADJST EXIST V/C FUTURE V/C TUMF V/C SHARE EXIST NEED OBLIGATED UNFUND EXIST NEED MSHCP |
| Northwest | Unincorporatec Cantu-Galleano Ranch | Hamner | Wineville | \$ | \$0 \$0 | \$0 | 0% 0% 0.47 0.95 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Dos Lagos (Weirick) | Temescal Canyon | I-15 | \$ | \$0 \$0 | \$0 Between I-15 and I-15 NB On Ramp | 22% 22% 0.52 0.72 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec El Cerrito | I-15 | Ontario | \$ | \$0 \$0 | \$0 | 0% 0% 0.15 0.26 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec El Sobrante | Mockingbird Canyon | Cajalco | \$ | \$0 \$0 \$0 \$0 | \$U *0 | 0% 0% 0.62 0.78 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest Northwest | Unincorporatec Harley John Unincorporatec Harley John | Washington Scottsdale | Scottsdale Cajalco | Į. | 50 \$0 | \$O | 0% 0% 0.38 0.65 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec La Sierra | Victoria | El Sobrante | 4 | 50 \$0 | \$0 Between Victoria and Orchard View | 40% 40% 0.85 1.03 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec La Sierra | El Sobrante | Caialco | \$ | 50 \$0 | \$0 | 0% 0.50 0.83 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporated Mockingbird Canyon | Van Buren | El Sobrante | \$20,871,00 | 00 \$20,871,000 | \$593,000 Between Van Buren and Lindina | 31% 31% 0.76 0.97 \$0 \$0 \$0 \$593,000 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | El Cerrito | Tuscany | \$3,168,00 | | \$0 | 0% 0% 0.68 1.07 \$0 \$3,168,000 \$0 \$90,000 \$0 |
| Northwest | Unincorporatec Temescal Canyon | Tuscany | Dos Lagos | \$ | \$0 \$0 | \$0 | 0% 0% 0.72 1.08 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | Dos Lagos | Leroy | \$ | \$0 \$0 | \$O | 0% 0% 0.48 0.74 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | Leroy | Dawson Canyon | \$ | \$0 \$0 | \$0 | 0% 0% 0.46 0.71 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | Dawson Canyon | I-15 | \$ | \$0 \$0 | \$0 Between I-15 NB On Ramp and 1000 ft North | 43% 43% 0.66 1.01 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | I-15 | interchange | \$32,698,00 | | \$0 | 0% 0% 0.85 1.35 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | I-15 | Park Canyon | \$14,329,00 | 00 \$14,329,000 | \$427,000 Between I-15 SB On Ramp and Squaw Mountain | 27% 27% 0.69 1.02 \$0 \$0 \$0 \$427,000 \$0 \$0 |
| Northwest | Unincorporatec Temescal Canyon | Park Canyon | Indian Truck Trail | 4 4 | \$U \$U | \$0 | 0% 0% 0.02 0.12 \$0 \$0 \$0 \$0 \$0 |
| Northwest | Unincorporatec Washington | Hermosa | Harley John | \$12,787,00 | | \$332,000 | 0% 0% 0.73 0.92 \$0 \$0 \$0 \$332,000 \$0 \$0 |
| Northwest | Unincorporatec Wood | Krameria | Cajalco I-10 | \$12,537,00 | 00 \$12,537,000 | \$325,000 Between Krameria and Mariposa | 17% 17% 0.56 0.83 \$0 \$0 \$0 \$225.000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass Pass | Banning 8th Bannina Lincoln | Wilson Sunset | SR-243 | D. D | to &0 | \$0 \$0 | 0% 0% 0.25 0.37 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Emcorri | I-10 | 3K-243 8th | Į. | to \$0 | \$O | 0% 0% 0.10 0.13 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Ramsey | 8th | Highland Springs | 4 | ko \$0 | \$0 | 0% 0% 0.24 0.33 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning SR-243 | I-10 | Wesley | 4 | k0 \$0 | \$0 | 0% 0% 0.24 0.35 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Sun Lakes | Highland Home | Sunset | \$30,502,00 | 00 \$30,502,000 | \$226,000 | 0% 0% 0.10 0.11 \$0 \$0 \$0 \$226,000 \$0 \$0 |
| Pass | Banning Sun Lakes | Smith Creek | bridge | \$8,352,00 | | \$288,000 | 0% 0% 0.10 0.11 \$0 \$0 \$0 \$288,000 \$0 \$0 |
| Pass | Banning Sun Lakes | Montgomery Creek | bridge | \$5,568,00 | | \$192,000 | 0% 0.10 0.11 \$0 \$0 \$0 \$192,000 \$0 \$0 |
| Pass | Banning Sun Lakes | Highland Springs | Highland Home | \$ | | \$0 | 0% 0% 0.04 0.05 \$0 \$0 \$0 \$0 |
| Pass | Banning Sunset | Ramsey | Lincoln | \$ | \$0 \$0 | \$0 | 0% 0% 0.13 0.23 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Sunset | I-10 | interchange | \$32,698,00 | 00 \$32,698,000 | \$0 | 0% 0% 0.53 0.91 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Wilson | Highland Home | 8th | \$ | \$0 \$0 | \$0 | 0% 0% 0.06 0.12 \$0 \$0 \$0 \$0 \$0 |
| Pass | Banning Wilson | Highland Springs | Highland Home | \$ | \$0 \$0 | \$0 | 0% 0% 0.14 0.24 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont 1st | Viele | Pennsylvania | \$ | \$0 \$0 | \$0 | 0% 0% 0.48 0.57 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont 1st | Pennsylvania | Highland Springs | \$ | \$0 \$0 | \$0 | 0% 0% 0.51 0.71 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont 6th | I-10 | Highland Springs | \$ | \$0 \$0 | \$0 | 0% 0% 0.23 0.47 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Desert Lawn | Champions | Oak Valley (STC) | \$ | \$0 \$0 | \$0 | 0% 0% 0.45 0.80 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Oak Valley (14th) | Highland Springs | Pennsylvania | \$ | \$0 \$0 | \$0 | 0% 0% 0.05 0.11 \$0 \$0 \$0 \$0 \$0 |
| Pass Pass | Beaumont Oak Valley (14th) Beaumont Oak Valley (14th) | Pennsylvania Oak View | Oak View I-10 | Ď. | D 50 | \$O | 0% 0% 0.14 0.26 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Oak Valley (14th) | I-10 | interchange | \$63,061,00 | 00 \$62,401,000 | \$O | 0% 0% 0.90 1.14 99% \$660,000 \$0 \$660,000 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Oak Valley (STC) | UP Railroad | Tukwet Canyon | \$00,001,000 \$ | 00 \$62,401,000 to \$0 | \$O | 0% 0% 0.01 0.23 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Oak Valley (STC) | Tukwet Canyon | I-10 | Ψ \$ | \$O \$O | φ0 \$Ω | 0% 0% 0.09 0.38 \$0 \$0 \$0 \$0 |
| Pass | Beaumont Pennsylvania | 6th | 1st | \$6,588,00 | 00 \$6,588,000 | \$49,000 | 0% 0% 0.52 0.74 \$0 \$0 \$0 \$49,000 \$0 \$0 |
| Pass | Beaumont Pennsylvania | I-10 | interchange | \$ | \$0 \$0,500,000 \$0 | \$0 | 0% 0% 0.51 0.63 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Bryant | County Line | Avenue L | \$ | \$O \$O | \$0 | 0% 0% 0.38 0.61 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Calimesa | County Line | I-10 | \$ | 50 \$0 | \$0 | 0% 0% 0.13 0.38 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Calimesa | I-10 | interchange | \$63,061,00 | 00 \$63,061,000 | \$0 | 0% 0% 0.54 1.59 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa County Line | 7th | Bryant | \$ | \$0 \$0 | \$0 Between I-10 WB On Ramp and Calimesa, and Park and 5th | 13% 13% 0.54 0.71 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa County Line | I-10 | interchange | \$32,698,00 | 00 \$32,698,000 | \$0 | 0% 0% 0.88 1.26 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Desert Lawn | Palmer | Champions | \$ | \$0 \$0 | \$0 | 0% 0% 0.04 0.44 \$0 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Singleton | Avenue L | Condit | \$ | \$0 \$0 | \$0 | 0% 0% 0.43 0.64 \$0 \$0 \$0 \$0 \$0 |
| Pass | Calimesa Singleton | Condit | Roberts | \$12,972,00 | | \$96,000 | 0% 0% 0.74 1.14 \$0 \$0 \$0 \$96,000 \$0 \$0 |
| Pass | Calimesa Singleton | I-10 | interchange | \$63,061,00 | 00 \$0 | \$0 | 0% 0% 1.04 0.99 0% \$63,061,000 \$0 \$63,061,000 \$0 \$0 \$0 |
| Pass | Calimesa Tukwet Canyon | Roberts Rd | Palmer | \$ | \$0 \$0 | \$0 | 0% 0% 0.71 1.37 \$0 \$0 \$0 \$0 \$0 |
| Pass | Unincorporatec Live Oak Canyon | Oak Valley (STC) | San Bernardino County | \$ | \$0 \$0 | \$0 | 0% 0% 0.36 0.47 \$0 \$0 \$0 \$0 \$0 |
| Pass | Unincorporatec San Timoteo Canyon | San Bernardino County | UP Railroad | 450 700 00 | \$U \$U | \$0 Between San Bernardino County and Redlands | 22% 22% 0.31 0.66 \$0 \$0 \$0 \$0 \$0 |
| Pass San Jacinto | Unincorporatec San Timoteo Canyon | UP Railroad | railroad crossing | \$52,780,00 | 00 \$52,780,000 | \$1,820,000 | 0% 0% 0.08 0.49 \$0 \$0 \$0 \$1.820.000 \$0 \$0 0% 0% 0.74 0.92 \$0 \$0 \$0 \$0 |
| San Jacinto | Hemet Sanderson Hemet Sanderson | Acacia Domeniaoni | Menlo Stetson | ф Ф | ρυ φυ 0.80 | \$0 Between Stetson and Thornton | 0% 0% 0.74 0.92 \$0 \$0 \$0 \$0 \$0 \$0 2.6% 2.6% 0.79 1.11 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | RR Crossing | Acacia | ф e | 50 \$0 | φ∪ setween stesson and inormition \$∩ | 26% 26% U.77 1.11 3U 3U 3U 3U 3U 3U 3U 0% 0% 0% 0.82 0.97 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | Stetson | RR Crossing | Ψ .\$ | 50 \$0 | \$0 | 0% 0% 0.77 1.11 \$0 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | Menlo | Esplanade | \$ | 50 \$0 | \$0 | 0% 0% 0.72 0.95 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | Hemet SR-74 (Florida) | Warren | Cawston | \$ | \$0 \$0 | \$0 | 0% 0% 0.62 0.96 \$0 \$0 \$0 \$0 |
| San Jacinto | Hemet SR-74 (Florida) | Columbia | Ramona | \$ | \$0 \$0 | \$O | 0% 0% 0.47 0.57 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | Cawston | Columbia | \$ | \$0 \$0 | \$0 | 0% 0% 0.38 0.63 \$0 \$0 \$0 \$0 |
| San Jacinto | | Domenigoni | Chambers | \$ | \$0 \$0 | \$0 | 0% 0% 0.44 0.92 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | Chambers | Stetson | \$ | \$0 \$0 | \$0 | 0% 0% 0.51 0.93 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | | Florida | Esplanade | \$ | \$0 \$0 | \$0 | 0% 0% 0.33 0.53 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | Hemet State | Stetson | Florida | \$ | \$0 \$0 | \$0 | 0% 0% 0.57 0.80 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | Hemet Stetson | Cawston | State | \$ | \$0 \$0 | \$0 | 0% 0% 0.49 0.68 \$0 \$0 \$0 \$0 |
| San Jacinto | | Warren | Cawston | \$4,357,00 | | \$113,000 | 0% 0% 0.59 0.96 \$0 \$0 \$113,000 \$0 \$0 |
| San Jacinto | | Esplanade | Domenigoni | \$19,926,00 | | \$517,000 Between Devonshire and Stetson | 31% 31% 0.79 1.10 \$0 \$0 \$0 \$\$17,000 \$0 \$0 |
| San Jacinto | | Salt Creek | bridge State | \$4,176,00 \$ | 00 \$4,176,000 \$0 \$0 | \$144,000 \$0 | 0% 0% 0.64 1.05 \$0 \$0 \$0 \$144.000 \$0 \$0 0% 0% 0.33 0.39 \$0 \$0 \$0 \$0 \$0 |
| San Jacinto | San Jacinto Esplanade San Jacinto Esplanade | Mountain State | State Warren | Ф Ф | to \$0 | \$O | |
| | San Jacinto Esplanade San Jacinto Sanderson | State Ramona | Esplanade | ф Ф | ρυ φυ 0.80 | \$0 \$0 | 0% 0% 0.57 0.55 |
| | San Jacinto SR-79 (North Ramona) | State | San Jacinto | \$ | | \$0 \$0 | 0% 0% 0.55 0.70 \$0 \$0 \$0 \$0 \$0 |
| | San Jacinto SR-79 (San Jacinto) | North Ramona Blvd | 7th | \$ | | \$0 | 0% 0% 0.70 0.80 \$0 \$0 \$0 \$0 |
| | San Jacinto SR-79 (San Jacinto) | 7th | SR-74 | | 50 \$0 | \$0 | 0% 0% 0.32 0.46 \$0 \$0 \$0 \$0 |
| | San Jacinto State | Ramona | Esplanade | \$ | | \$0 | 0% 0% 0.60 0.78 \$0 \$0 \$0 \$0 \$0 |
| | San Jacinto State | Gilman Springs | Quandt Ranch | \$3,317,00 | | \$86,000 | 0% 0% 0.82 1.01 \$0 \$0 \$0 \$86,000 \$0 \$0 |
| | San Jacinto State | San Jacinto River | bridge | \$ | | \$0 | 0% 0% 0.86 1.03 \$0 \$0 \$0 \$0 |
| | San Jacinto State | Quandt Ranch | Ramona | \$ | | \$0 | 0% 0% 0.39 0.46 \$0 \$0 \$0 \$0 \$0 |
| | San Jacinto Warren | Ramona | Esplanade | \$13,469,00 | | \$350,000 | 0% 0% 0.67 0.89 \$0 \$0 \$0 \$350,000 \$0 \$0 |
| | Unincorporatec Gilman Springs | Sanderson | State | \$11,097,00 | 00 \$11,097,000 | \$288,000 | 0% 0% 0.83 1.07 \$0 \$0 \$0 \$288,000 \$0 \$0 |
| San Jacinto | Unincorporatec Gilman Springs | Massacre Canyon Wash | bridge | \$1,392,00 | | \$48,000 | 0% 0% 0.85 1.11 \$0 \$0 \$0 \$0 \$48,000 \$0 \$0 |
| San Jacinto | Unincorporatec SR-79 (Winchester) | SR-74 (Florida) | Domenigoni | \$ | \$0 \$0 | \$0 | 0% 0% 0.66 1.05 \$0 \$0 \$0 \$0 \$0 |
| | | | | | | | |

EXHIBIT H-2 TUMF Network Detailed Cost Estimate - Existing Need and Obligated Funding Updated: July 23, 2024

| | | | | ting Need and Obligo | | | | | | | | | | | | | | Updated: July 23, 2024 |
|------------------------|--------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|--------------|--------------------|-----------------------------|---------------|--------------------------------|------------------------|---------------------|-----------------------|-----------------------------|
| AREA PLAN D | | STREETNAME | SEGMENTFROM | SEGMENTTO | | | AX TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION | % EXIST NEED >2 L | ANE ADJST EXIST V/C | | C TUMF V/C SHARE E | EXIST NEED | OBLIGATED | UNFUND EXIST NEED MSHCP | | CP EXIST NEED MSHCF | UNFUND EXIST NEED COM | ABINED UNFUND EXIST NEED |
| Southwest Southwest | Lake Elsinore Lake Elsinore | | Mission Mission | Grand I-15 | \$3,336,000 | \$3,336,000 | \$87,000 | 0% 0% | 0% 0.73 0% 0.73 | 1.02 0.93 | | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$87,000 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Southwest | Lake Elsinore | | d (1-15 | interchange | \$32,698,000 | \$32,698,000 | \$0 | 0% | 0% 0.75 | 1.25 | | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | Lincoln | Toff | \$0 | \$0 | \$0 | 0% | 0% 0.47 | 0.65 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | Toft | SR-74 (Riverside) | \$3,512,000 | \$3,512,000 | \$91,000 | 0% | 0% 0.68 | 0.92 | | \$0 | \$0 | \$0 | \$91,000 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | I-15 | Lincoln | \$39,817,000 | \$32,726,000 | \$335,000 Between Orange Grove and the I-15 SB On Ramp | 76% | 76% 0.99 | 1.28 | 77% | \$7,091,000 | \$0 | \$7,091,000 | \$407,000 | \$73,000 | \$73,000 | \$7,164,000 |
| Southwest Southwest | Lake Elsinore Lake Elsinore | | I-15 Temescal Wash | interchange bridge | \$32,698,000 \$2,506,000 | \$15,771,000 \$1,150,000 | \$0 \$39,000 | 0% 0% | 0% 1.08 0% 1.12 | 1.25 1.31 | 48% 46% | \$16,927,000 \$1,356,000 | \$0 \$0 | \$16,927,000 \$1,356,000 | \$0 \$86,000 | \$0 \$0 | \$0 \$0 | \$16,927,000 \$1,356,000 |
| Southwest | Lake Elsinore | | Railroad Canyon | Bundy Canyon | \$0 | \$0 | \$0 | 0% | 0% 0.48 | 0.74 | 40/0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | Nichols | I-15 | Lake | \$7,850,000 | \$7,850,000 | \$204,000 | 0% | 0% 0.59 | 0.96 | | \$0 | \$0 | \$0 | \$204,000 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | Temescal Wash | bridge | \$4,176,000 | \$4,176,000 | \$144,000 | 0% | 0% 0.63 | 1.12 | | \$0 | \$0 | \$0 | \$144,000 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | 141011013 | I-15 | interchange | \$63,061,000 | \$63,061,000 | \$0 | 0% 31% | 0% 0.63 | 1.12 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Lake Elsinore Lake Elsinore | | I-15 Riverside | Lakeshore SR-74 (Ortega) | \$24,303,000 \$9,733,000 | \$24,303,000 \$3.691,000 | \$180,000 Between Strickland and Collier \$27,000 Between Riverside and Ortega | 100% | 31% 0.86 100% 1.19 | 1.05 1.37 | 38% | \$6,042,000 | \$U \$0 | \$6,042,000 | \$180,000 \$72,000 | \$45,000 | \$45.000 | \$6,087,000 |
| Southwest | Lake Elsinore | | Lakeshore | Grand | \$20,175,000 | \$20,175,000 | \$150,000 Between Lakeshore and Raven | 31% | 31% 0.78 | 0.91 | 00/0 | \$0 | \$0 | \$0 | \$150,000 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | Temescal Canyon | I-15 | Lake | \$7,411,000 | \$7,411,000 | \$211,000 | 0% | 0% 0.64 | 1.17 | | \$0 | \$0 | \$0 | \$211,000 | \$0 | \$0 | \$0 |
| Southwest | Lake Elsinore | | Temescal Wash | bridge | \$3,480,000 | \$3,480,000 | \$120,000 | 0% | 0% 0.85 | 1.28 | | \$0 | \$0 | \$0 | \$120,000 | \$0 | \$0 | \$0 |
| Southwest Southwest | Murrieta Murrieta | California Oaks California Oaks | Jefferson I-15 | I-15 Jackson | \$0 \$0 | \$0 \$0 | \$0 \$0 | 0% | 0% 0.47 0% 0.76 | 0.61 0.89 | | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Southwest | Murrieta | California Oaks | Jackson | Clinton Keith | \$0 \$0 | \$0 | \$O | 0% | 0% 0.65 | 0.77 | | \$0 | \$O | \$0 | \$0 | \$0 | \$0 | \$0 \$0 |
| Southwest | Murrieta | Jackson | Whitewood | Ynez | \$0 | \$0 | \$0 | 0% | 0% 0.32 | 0.62 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Jefferson | Palomar | Nutmeg | \$1,562,000 | \$1,562,000 | \$44,000 | 0% | 0% 0.07 | 0.10 | | \$0 | \$0 | \$0 | \$44,000 | \$0 | \$0 | \$0 |
| Southwest Southwest | Murrieta Murrieta | Jefferson Jefferson | Nutmeg | Murrieta Hot Springs Cherry | \$0 \$30,634,000 | \$0 \$30,634,000 | \$0 \$227,000 | 0% 0% | 0% 0.46 0% 0.47 | 0.63 | | \$0 | \$0 | \$0 | \$0 \$227,000 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Keller | Murrieta Hot Springs I-215 | Whitewood | \$30,634,000 \$0 | \$30,634,000 \$0 | \$227,000 \$0 | 0% | 0% 0.47 0% 0.20 | 0.80 | | \$U \$0 | ΦU Ω# | \$O | \$227,000 \$0 | \$O | \$0 \$0 | \$0 \$0 |
| Southwest | Murrieta | Keller | I-215 | interchange | \$0 | \$0 | \$0 | 0% | 0% 0.20 | 0.06 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Los Alamos | Jefferson | I-215 | \$0 | \$0 | \$0 | 0% | 0% 0.24 | 0.38 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Murrieta Hot Springs | Jefferson | I-215 | \$0 | \$0 | \$0 Between Hancock and I-215 | 17% | 17% 0.62 | 0.90 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Murrieta Murrieta | Murrieta Hot Springs Murrieta Hot Springs | I-215 Margarita | Margarita SR-79 (Winchester) | \$0 \$4,057,000 | \$0 \$3,899,000 | \$0 Between I-215 and I-215 NB On Ramp, and Alta Murrieta and St. Maria \$101,000 Between Margarita and Calle del Lago | 11% 57% | 11% 0.82 57% 0.93 | 1.08 1.33 | 93% | \$0 \$158,000 | \$0 \$0 | \$0 \$158,000 | \$0 \$105,000 | \$0 \$4,000 | \$0 \$4,000 | \$0 \$162,000 |
| Southwest | Murrieta | Nutmeg | Jefferson | Clinton Keith | \$4,037,000 | \$0,877,000 | \$0 | 0% | 0% 0.45 | 0.69 | 73/6 | \$138,000 | \$0 \$0 | \$138,000 | \$103,000 | \$0 | \$0 | \$162,000 |
| Southwest | Murrieta | Whitewood | Clinton Keith | Los Alamos | \$2,708,000 | \$2,708,000 | \$77,000 | 0% | 0% 0.45 | 0.76 | | \$0 | \$0 | \$0 | \$77,000 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Whitewood | Los Alamos | Murrieta Hot Springs | \$0 | \$0 | \$0 | 0% | 0% 0.45 | 0.75 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Murrieta | Whitewood Ynez | Murrieta Hot Springs | Jackson | \$4,629,000 \$0 | \$4,629,000 | \$47,000 | 0% 0% | 0% 0.15 0% 0.62 | 0.16 1.00 | | \$0 | \$0 | \$0 | \$47,000 \$0 | \$0 *0 | \$0 | \$0 |
| Southwest Southwest | Murrieta Temecula | Butterfield Stage | Jackson Murrieta Hot Springs | SR-79 (Winchester) Calle Chapos | \$816,000 | \$816.000 | \$U ΦΩ | 0% | 0% 0.62 0% 0.61 | 1.15 | | \$0 | \$0 \$0 | \$O | \$0 | \$O | \$0 \$0 | \$O |
| Southwest | Temecula | Butterfield Stage | Calle Chapos | La Serena | \$696,000 | \$696,000 | \$0 | 0% | 0% 0.58 | 0.93 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | Butterfield Stage | La Serena | Rancho California | \$904,000 | \$904,000 | \$0 Between La Serena and Rancho California | 100% | 100% 0.95 | 1.21 | 85% | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | Butterfield Stage | Rancho California | Pauba | \$846,000 | \$846,000 | \$0 Between Rancho California and Creek | 5% | 5% 0.55 | 0.88 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Temecula Temecula | Butterfield Stage Jefferson | Pauba Cherry | SR-79 (Temecula Pkwy) Rancho California | \$725,000 \$2,285,000 | \$725,000 \$2,285,000 | \$21,000 | 0% 0% | 0% 0.49 0% 0.34 | 0.84 0.92 | | \$0 \$0 | \$0 \$0 | \$0 \$0 | \$21,000 \$0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Southwest | Temecula | Maraarita | Murrieta Hot Springs | SR-79 (Temecula Pkwy) | \$7,644,000 | \$7,644,000 | \$0 Between Winchester and Campos Verdes, and Solana and 250 ft North of Ramsey | 5% | 5% 0.65 | 1.04 | | \$0 | \$0 | \$0 | \$0 | \$0 \$0 | \$0 | \$0 |
| Southwest | Temecula | Old Town Front | Rancho California | I-15/SR-79 (Temecula Pkwy) | \$0 | \$0 | \$0 | 0% | 0% 0.68 | 1.37 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | Pechanga Pkwy | SR-79 (Temecula Pkwy) | Via Gilberto | \$0 | \$0 | \$0 | 0% | 0% 0.72 | 1.02 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | Pechanga Pkwy | Via Gilberto | Pechanga Pkwy | \$0 \$18,254,000 | \$0 | \$0 | 0% 40% | 0% 0.42 40% 0.90 | 0.52 1.37 | 99% | \$0 \$73,000 | \$0 | \$0 \$73,000 | \$0 \$101,000 | \$0 | \$0 | \$0 \$73,000 |
| Southwest Southwest | Temecula Temecula | Rancho California Rancho California | Jefferson I-15 | Margarita interchange | \$18,254,000 \$32,698,000 | \$18,181,000 \$0 | \$101,000 Between I-15 SB On Ramp and I-15, and Moraga and Cosmic | 40% 0% | 40% 0.90 0% 1.55 | 2.67 | 63% | \$12,098,000 | \$32,698,000 | | \$101,000 | \$O | \$0 \$0 | \$/3,000 \$0 |
| Southwest | Temecula | Rancho California | Margarita | Butterfield Stage | \$0 | \$0 | \$0 | 0% | 0% 0.63 | 0.74 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | SR-79 (Temecula Pkwy) | I-15 | Pechanga Pkwy | \$0 | \$0 | \$0 Between I-15 and Pechanga | 100% | 100% 1.08 | 1.42 | 65% | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Temecula | SR-79 (Temecula Pkwy) | Pechanga Pkwy | Butterfield Stage | \$3,065,000 | \$3,065,000 | \$0 | 0% | 0% 0.65 | 0.88 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Unincorporat | тес впggs tec Butterfield Stage | Scott Tucalota Creek | SR-79 (Winchester) bridge | \$6,509,000 \$0 | \$6,509,000 \$0 | \$169,000 \$0 | 0% 0% | 0% 0.41 0% 0.41 | 0.70 0.70 | | \$U \$0 | \$U \$0 | \$O \$0 | \$169,000 \$0 | \$O | \$0 \$0 | \$ 0 |
| Southwest | | tec Butterfield Stage (Pourroy) | Auld | Murrieta Hot Springs | \$23,076,000 | \$23,076,000 | \$656,000 Between Auld and Honey Pine | 23% | 12% 0.88 | 0.99 | | \$0 | \$0 | \$0 | \$656,000 | \$0 | \$0 | \$0 |
| Southwest | Unincorporat | tec Grand | Ortega | Corydon | \$68,025,000 | \$68,025,000 | \$505,000 Between Zinck and Stoneman, and Ontario and Corydon | 16% | 16% 0.80 | 1.06 | | \$0 | \$0 | \$0 | \$505,000 | \$0 | \$0 | \$0 |
| Southwest | | tec Horsethief Canyon | Temescal Canyon | I-15 | \$0 | \$0 | \$0 | 0% | 0% 0.81 | 0.64 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | | tec Indian Truck Trail tec Murrieta Hot Springs | Temescal Canyon SR-79 (Winchester) | I-15 Pourrov | \$0 \$0 | \$0 \$0 | \$0 \$0. Between Winchester and Vons | 0% 4% | 0% 0.15 4% 0.46 | 0.21 0.86 | | \$0 \$0 | \$0 \$0 | \$U \$0 | \$0 \$0 | \$O \$0 | \$0 \$0 | \$0 \$0 |
| Southwest | Unincorporat | | Pechanga | San Diego County | \$0 | \$0 | \$0 Between Winchester and Vons | 48% | 48% 0.88 | 1.48 | | \$0 | \$0 \$0 | \$0 | \$ 0 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| Southwest | Unincorporat | tec Pourroy | SR-79 (Winchester) | Auld | \$2,236,000 | \$2,236,000 | \$64,000 | 0% | 0% 0.42 | 0.57 | | \$0 | \$0 | \$0 | \$64,000 | \$0 | \$0 | \$0 |
| Southwest | | tec Rancho California | Butterfield Stage | Glen Oaks | \$87,369,000 | \$87,369,000 | \$482,000 | 0% | 0% 0.65 | 0.93 | | \$0 | \$0 | \$0 | \$482,000 | \$0 | \$0 \$7 | \$0 |
| Southwest Southwest | | tec Temescal Canyon tec Temescal Canvon | Horsethief Canyon Wash Indian Truck Trail | bridge I-15 | \$3,340,000 \$15,739,000 | \$3,340,000 \$15,739,000 | \$115,000 \$447,000 | 0% 0% | 0% 0.66 0% 0.64 | 0.86 | | \$0 | \$0 | \$0 \$0 | \$115,000 \$447,000 | \$0 \$0 | \$0 \$0 | \$0 |
| Southwest | | tec Temescal Canyon tec Temescal Canyon | Indian Iruck Iraii Indian Wash | I-15 bridge | \$15,739,000 \$1,462,000 | \$15,739,000 | \$447,000 \$50,000 | 0% 0% | 0% 0.64 0% 0.61 | 0.97 | | \$U .\$O | \$U .\$n | Φ∪ .\$Ω | \$447,000 \$50.000 | ΦU .\$O | φ∪ .\$Ω | \$0 \$0 |
| Southwest | Wildomar | Bundy Canyon | Mission | I-15 | \$9,704,000 | \$9,704,000 | \$72,000 | 0% | 0% 0.60 | 0.90 | | \$0 | \$0 | \$0 | \$72,000 | \$0 | \$0 | \$0 |
| Southwest | Wildomar | Grand | Corydon | Wildomar Trail | \$0 | \$0 | \$0 | 0% | 0% 0.72 | 0.89 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest | Wildomar | Mission | Bundy Canyon | Palomar | \$0 | \$0 | \$0 | 0% | 0% 0.20 | 0.43 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Southwest Southwest | Wildomar Wildomar | Palomar Palomar | Clinton Keith Mission | Washington Clinton Keith | \$3,227,000 \$13,493,000 | \$3,227,000 \$13,493,000 | \$84,000 \$383,000 | 0% | 0% 0.59 0% 0.60 | 0.88 | | \$0 | \$0 | \$U | \$84,000 \$383,000 | \$U | \$0 •n | \$0 •^ |
| Southwest | Wildomar | Wildomar Trail | I-15 | Baxter | \$13,493,000 | \$13,493,000 | \$33,000 Between I-1558 On Ramp to Baxter | 73% | 73% 0.87 | 1.06 | | φU .\$Ω | ⊅∪ Ω≹: | \$0 | \$33,000 | \$0 | | \$0 \$0 |
| Southwest | Wildomar | Wildomar Trail | I-15 | interchange | \$32,698,000 | \$27,858,000 | \$0 | 0% | 0% 0.94 | 1.15 | 85% | \$4,840,000 | \$0 | \$4,840,000 | \$0 | \$0 | \$0 | \$4,840,000 |
| Southwest | Wildomar | Wildomar Trail | Baxter | Palomar | \$11,316,000 | \$11,316,000 | \$84,000 Between Baxter and Cervera | 35% | 35% 0.82 | 0.94 | | \$0 | \$0 | \$0 | \$84,000 | \$0 | \$0 | \$0 |
| Southwest Subtotal | Wildomar | Wildomar Trail | Palomar | Grand | \$0 \$2,508,329,000 | \$0 \$1,913,028,000 | \$0 \$23,597,000 | 0% 13.2% | 0% 0.87 | 1.03 | | \$365,640,000 | \$264.315.000 | \$0 \$330,986,000 | \$0 \$32.098.000 | \$0 \$318.000 | \$0 \$318,000 | \$0 \$331,304,000 |
| Totals | Network | | | | \$ 4,840,250,000 \$ | 3,874,735,000 | 53,859,000 | | ork Unfunded Existing Need Ac | diustment | | | \$382,886,000 | | 64,606,000 \$ | 1,410,000 \$ | 1,263,000 \$ | 583,892,000 |
| | Transit | | | | \$ 217,870,000 \$ | 154,831,000 | 00,007,000 | | t Existing Need Adjustment | _, | ` | 02,2, 0,000 | - 002,000,000 | \$ 63,039,000 | ,000,000 ¥ | .,ο,οοο φ | .,200,000 g | 555,072,000 |
| | Administration | n | | | \$ 161,183,000 \$ | 161,183,000 | | | | | | | | | | | | |
| | MSHCP TOTAL | | | | \$ 64,606,000 \$ \$ 5,283,909,000 \$ | 53,859,000 4,244,608,000 | | 10.007 + | Unfunded Existing Need Adju: | rtmont | | | | \$ 1,263,000 \$ 646,931,000 | | | | |
| | IOIAL | | | | y 3,233,707,000 3 | 7,277,000,000 | | 12.2/0 1010 | ornorided Existing Need Adju | um for II | | | | y 040,701,000 | | | | |
| | | | | | | | | | | | | | | | | | | |

EXHIBIT H-3 Regional Transit Existing Need Share

Summary of Transit Trip Change

| Year | Western Riverside Daily Transit Trips |
|----------------------|------------------------------------------|
| 2023* | 16,575 |
| 2045** | 57,282 |
| Growth 2023 - 2045 | 40,707 |
| Existing Need Share: | 28.9% |
| Future Growth Share: | 71.1% |

Notes:

 * - 2023 actual average weekday daily ridership provided by RTA staff December 1, 2023

** - 2045 forecast average weekday daily ridership obtained from SCAG 2020 RTP/SCS Model as provided by Fehr and Peers November

Maximum TUMF Transit Component Value

| RTA Transit Full Mitigation Cost | Existing Need Cost | MAX TUMF TRANSIT VALUE |
|-------------------------------------|--------------------|------------------------|
| \$217,870,000 | \$63,039,000 | \$154,831,000 |
| Total MAX TUMF VALUE | | \$4,297,490,440 |
| Transit Share of MAX TU | IMF VALUE | 3.6% |

Appendix I - Western Riverside County Regional Trip Distribution

In order to ensure an equitable regional/zonal distribution of potential TUMF revenues, the distribution of trips in the WRCOG region was analyzed to determine the distribution between local (intra-zonal) and regional (inter-zonal) trips. This analysis was completed using the Year 2040 No-Build scenario Origin-Destination (O-D) vehicle trip tables from RivCoM. The analysis of vehicle trips based on the respective trip ends as stratified by zone is considered sufficient to establish the rough proportionality between local (intrazonal) and regional (inter-zonal) trips because this measure is intended to only serve as a guide in the distribution of potential TUMF revenues between regional and local projects, and is not intended to serve as the basis for quantifying the relative magnitude of the impacts of different types of new development on the TUMF network (as described in **Appendix J**)

The first step in the analysis was to create a correspondence table between the traffic analysis zones (TAZ's) in the RivCoM model and the five WRCOG TUMF zones: Northwest, Central, Pass Area, Hemet/San Jacinto, and Southwest. A table detailing the TAZ correspondence for each WRCOG TUMF zone is included as **Exhibit I-1** in this Appendix. The vehicle trip tables by TAZ were aggregated to obtain the trip summary between six districts (five WRCOG TUMF Zones and one for the rest of Southern California region included in the model analysis area)

Table 5.1 and **5.2** of the Nexus Study produce a matrix of total combined AM and PM peak period vehicle trips between the six districts. This information is subsequently weighted by TUMF future network lane miles in **Table 5.3** to determine the relative share of trips that can be allocated between the backbone network and secondary network. **Exhibits I-2** through **I-9** provide the corresponding peak period vehicle trip matrices for each of the four time periods analyzed by the RivCoM model (AM peak, midday, PM peak and overnight) as well as total daily trips between the six districts.

EXHIBIT I-1
RIVCOM TAZ Correspondence by WRCOG TUMF Zone - Hemet/San Jacinto

| Central | Menifee |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central Cent | Mentree Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Mentree Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| Central | Menifee |
| es central | Menifee |
| Central | Menifee |
| e Central | Menifee |
| e Central | Menifee |
| general genera | Menifee |
| Central Cent | Menifee |
| Central | Menifee |
| central services of centra | Mentree Menifee |
| e Central | Menifee |
| e Central e Cent | Menifee |
| e Central | Menifee |
| e Central e Cent | Menifee |
| e Central e Cent | Menifee |
| e Central | Menifee |
| e Central | Menifee |
| e Central | Menifee |
| e Central | Menifee Menifee Menifee Menifee Menifee Menifee Menifee Menifee Menifee |
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| e (Central | Menitee |
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| e Central | Moreno Valley |
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| e Central e Central e Central e Central e Central e Central | Moreno Valley Moreno Valley Moreno Valley Moreno Valley |
| e Central | Moreno Valley Moreno Valley Moreno Valley Moreno Valley Moreno Valley Moreno Valley |
| e Central | Moreno Valley |
| e Central | Moreno Valley |
| de de de | de Central |

| n Jacinto | | | |
|----------------------------------------------|------------------------|--------------------|-------------------------------------------------|
| TAZ | County | WRCOG Zone | City |
| | Riverside | Central | Moreno Valley |
| 1198 | Riverside Riverside | Central Central | Moreno Valley Moreno Valley |
| 1200 | Riverside | Central | Moreno Valley |
| 1201 | Riverside | Central | Moreno Valley |
| 1202 | Riverside | Central | Moreno Valley |
| 1203 | Riverside | Central | Moreno Valley |
| 1204 | Riverside | Central | Moreno Valley |
| 1205 | Riverside | Central | Moreno Valley |
| 1206 | Riverside | | Moreno Valley |
| 1207 | Riverside | Central | Moreno Valley |
| 1208 | Riverside | Central | Moreno Valley |
| 1209 | Riverside | Central | Moreno Valley |
| 1210 | Riverside | Central | Moreno Valley |
| 1211 | Riverside Riverside | Central | Moreno Valley Moreno Valley |
| 1212 | Riverside | Central | Moreno Valley |
| 1213 1214 1215 | Riverside Riverside | Central Central | Moreno Valley Moreno Valley |
| 1216 | Riverside | Central | Moreno Valley |
| 1217 | Riverside | Central | Moreno Valley |
| 1218 | Riverside | Central | Moreno Valley |
| 1219 | Riverside | Central | Moreno Valley |
| 1220 | Riverside | Central | Moreno Valley |
| 1221 | Riverside | | Moreno Valley |
| 1222 | Riverside | Central | Moreno Valley |
| 1223 | Riverside | Central | Moreno Valley |
| 1224 | Riverside | Central | Moreno Valley |
| | Riverside | Central | Moreno Valley |
| 1226 | Riverside | Central | Moreno Valley Moreno Valley |
| 1227 | Riverside | Central | |
| 1228 | Riverside | Central | Moreno Valley |
| 1230 | Riverside | Central | Moreno Valley |
| | Riverside | Central | Moreno Valley |
| 1232 | Riverside Riverside | Central | Moreno Valley Moreno Valley |
| 1233 | Riverside | Central | Moreno Valley |
| 1234 | Riverside | Central | Moreno Valley |
| 1235 | Riverside | Central | Moreno Valley |
| 1234 | Riverside | Central | Moreno Valley |
| 1235 1236 1237 1238 1239 1240 | Riverside Riverside | Central Central | Moreno Valley |
| 1239 | Riverside | Central | Moreno Valley Moreno Valley Moreno Valley |
| 1241 | Riverside Riverside | l Central | Moreno Valley |
| 1242 | Riverside | Central | Moreno Valley |
| 1243 | Riverside | Central | Moreno Valley |
| 1244 | Riverside | Central | Moreno Valley |
| 1245 | Riverside | Central | Moreno Valley |
| 1246 1247 | Riverside Riverside | Central | Moreno Valley |
| 1248 | Riverside Riverside | Central | Moreno Valley Moreno Valley Moreno Valley |
| 1249 1250 1251 | Riverside Riverside | Central Central | Moreno Valley Moreno Valley |
| 1252 | Riverside | Central | Moreno Valley |
| 1253 | Riverside | Central | Moreno Valley |
| 1254 | Riverside | Central | Moreno Valley |
| 1255 | Riverside | Central | Moreno Valley |
| 1256 | Riverside | Central | Moreno Valley |
| 1257 | Riverside | Central | Moreno Valley |
| 1258 | Riverside | | Moreno Valley |
| 1259 | Riverside | Central | Moreno Valley |
| 1260 | Riverside | Central | Moreno Valley |
| 1261 | Riverside | Central | Moreno Valley |
| 1262 1263 | Riverside Riverside | Central | Moreno Valley Moreno Valley |
| 1263 1264 1265 | Riverside Riverside | Central Central | Moreno Valley Moreno Valley |
| 1266 | Riverside | Central | Moreno Valley |
| 1267 | Riverside | Central | Moreno Valley |
| 1268 | Riverside | Central | Moreno Valley Moreno Valley |
| 1269 | Riverside | Central | |
| 1270 | Riverside | Central | Moreno Valley |
| 1271 | Riverside | Central | Moreno Valley |
| 1272 | Riverside | Central | Moreno Valley |
| 1273 | Riverside | Central | Moreno Valley |
| 1274 | Riverside Riverside | Central | Moreno Valley |
| 1275 | Riverside | Central | Moreno Valley |
| 1276 | | Central | Moreno Valley |
| 1277 | Riverside | Central | Moreno Valley |
| 1279 | Riverside | Central | Moreno Valley |
| 1280 | Riverside | Central | Moreno Valley |
| 1281 | Riverside | Central | Moreno Valley |
| 1282 | Riverside | Central | Moreno Valley |
| 1283 | Riverside | Central | Moreno Valley |
| 1284 | Riverside | Central | Moreno Valley |
| 1285 | Riverside | Central | Moreno Valley |
| 1793 | Riverside | Central | Perris |
| 1794 | | Central | Perris |
| 1795 | Riverside Riverside | Central | Perris |
| 1796 | Riverside | Central | Perris |
| 1797 | Riverside | Central | Perris |
| 1798 | Riverside | Central | Perris |
| 1799 | Riverside | | Perris |
| 1800 | Riverside | Central | Perris |
| 1801 | Riverside | Central | Perris |
| 1802 | Riverside | Central | Perris |
| 1803 | Riverside | Central | Perris |
| 1804 | Riverside | Central | Perris |
| 1805 | Riverside | | Perris |
| 1806 | Riverside | Central | Perris |
| 1807 | Riverside | Central | Perris |
| 1808 | Riverside | Central | Perris |
| | Riverside | Central | Perris |
| 1810 | Riverside | Central | Perris Perris |
| 1812 | Riverside Riverside | Central | Perris |
| 1814 | Riverside | Central | Perris |
| | Riverside | Central | Perris |
| 1815 | Riverside | Central | Perris |
| 1816 | Riverside | Central | Perris |
| 1817 | Riverside | Central | Perris |
| 1818 | Riverside | Central | Perris |
| 1819 | Riverside | Central | Perris |
| 1820 | Riverside | | Perris |
| 1821 1822 | Riverside | Central | Perris Perris |
| 1823 | Riverside Riverside | Central | Perris |
| 1824 | Riverside | Central | Perris |
| 1825 | Riverside | | Perris |
| 1826 | Riverside | Central | Perris |
| 1827 | Riverside | Central | Perris |
| 1828 | Riverside | Central | Perris |
| 1829 | Riverside | Central | Perris |
| 1830 | Riverside | Central | Perris |
| 1831 | Riverside | Central | Perris |
| 1832 | Riverside | Central | Perris |
| 1833 | Riverside | Central | Perris |
| 1834 | Riverside | Central | Perris |
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| 1836 | Riverside | Central | Perris |
| 1837 | Riverside | Central | Perris |
| 1837 1838 1839 | Riverside | Central | Perris |
| 1840 | Riverside Riverside | Central | Perris Perris |
| 1841 | Riverside | Central | Perris |
| 1842 | Riverside | Central | Perris |
| 1843 | Riverside | Central | Perris |
| 1844 | Riverside | Central | Perris |
| 1845 | Riverside | Central | Perris |
| 1846 | Riverside | Central | Perris |
| 1847 | Riverside | Central | Perris |
| 1848 | Riverside | Central | Perris |
| 1849 | Riverside | Central | Perris |
| 1850 | Riverside | Central | Perris |
| 1851 | Riverside | Central | Perris |
| 1852 | Riverside | Central | Perris |
| 1853 | Riverside | Central | Perris |

| TAZ 1857 | County | WRCOG Zone | City |
|-----------------|------------------------|--------------------|----------------------------------|
| | Riverside | Central | Perris |
| 1858 | Riverside | Central | Perris |
| 1859 | Riverside | Central | Perris |
| 1860 | Riverside | Central | Perris |
| 1861 | Riverside | Central | Perris |
| 1862 | Riverside | Central | Perris |
| 1863 | Riverside | Central | Perris |
| 1864 | Riverside | Central | Perris |
| 1865 | Riverside | Central | Perris |
| 1866 | Riverside | | Perris |
| 1867 | Riverside | Central | Perris |
| 1868 | Riverside | Central | Perris |
| 1869 | Riverside | Central | Perris |
| 1870 | Riverside | Central | Perris |
| 1871 | Riverside | Central | Perris |
| 1872 1873 | Riverside | Central | Perris |
| 1874 | Riverside Riverside | Central | Perris Perris |
| 1875 | Riverside | Central | Perris |
| 1876 | Riverside | Central | Perris |
| 1877 | Riverside | Central | Perris |
| 1878 | Riverside | Central | Perris |
| 1879 | Riverside | Central | Perris |
| 2126 | Riverside | Central | Riverside |
| 2127 | Riverside | Central | Riverside |
| 2128 | Riverside | Control | Riverside |
| 2320 | Riverside | | Unincorporated |
| 2327 | Riverside | Central | Unincorporated Unincorporated |
| 2328 | Riverside | Central | |
| 2329 | Riverside Riverside | Central Central | Unincorporated Unincorporated |
| 2331 | Riverside Riverside | Central | Unincorporated |
| 2333 | Riverside | Central | Unincorporated Unincorporated |
| 2334 | Riverside Riverside | Central Central | Unincorporated Unincorporated |
| 2336 | Riverside | Central | Unincorporated Unincorporated |
| 2337 | Riverside | Central | |
| 2339 | Riverside | Central | Unincorporated |
| 2341 | Riverside Riverside | Central Central | Unincorporated Unincorporated |
| 2344 | Riverside | Central | Unincorporated Unincorporated |
| 2345 | Riverside | Central | |
| 2350 | Riverside | Central | Unincorporated Unincorporated |
| 2351 | Riverside | Central | |
| 2352 | Riverside Riverside | Central Central | Unincorporated Unincorporated |
| 2354 | Riverside | Central | Unincorporated |
| 2359 | Riverside | Central | Unincorporated Unincorporated |
| 2668 | Riverside | Central | |
| 2669 | Riverside | Central | Unincorporated |
| 2673 | Riverside | Central | Unincorporated |
| 2675 | Riverside | Central | Unincorporated Unincorporated |
| 2676 | Riverside | Central | |
| 2677 | Riverside | Central | Unincorporated |
| 2678 | Riverside | Central | Unincorporated Unincorporated |
| 2682 | Riverside | Central | |
| 2683 | Riverside | Central | Unincorporated Unincorporated |
| 2684 | Riverside | Central | |
| 2685 | Riverside | Central | Unincorporated Unincorporated |
| 2686 | Riverside | Central | |
| 2687 | Riverside | Central | Unincorporated Unincorporated |
| 2688 | Riverside | Central | |
| 2689 | Riverside | Central | Unincorporated |
| 2690 | Riverside | Central | Unincorporated Unincorporated |
| 2691 | Riverside | Central | |
| 2692 | Riverside | Central | Unincorporated |
| 2693 | Riverside | Central | Unincorporated |
| 2694 | Riverside | Central | Unincorporated |
| 2709 | Riverside | Central | Unincorporated |
| 2710 | Riverside | Central | Unincorporated |
| | Riverside | Central | Unincorporated |
| 2712 | Riverside | Central | Unincorporated |
| 2713 | Riverside | Central | Unincorporated |
| 2714 | Riverside | Central | Unincorporated |
| 2715 | Riverside | Central | Unincorporated Unincorporated |
| 2716 | Riverside | Central | |
| 2717 | Riverside | Central | Unincorporated Unincorporated |
| 2719 | Riverside | Central | |
| 2721 | Riverside | Central | Unincorporated Unincorporated |
| 2722 | Riverside | Central | |
| 2723 | Riverside | Central | Unincorporated Unincorporated |
| 2724 | Riverside | Central | |
| 2725 | Riverside | Central | Unincorporated |
| 2727 | Riverside | Central | Unincorporated |
| 2728 | Riverside | Central | Unincorporated |
| 2729 | Riverside | Central | Unincorporated Unincorporated |
| 2733 | Riverside | Central | |
| 2744 | Riverside | Central | Unincorporated |
| 2745 | Riverside | Central | Unincorporated |
| 2746 2747 | Riverside | Central | Unincorporated |
| 2748 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 2752 | Riverside | Central | Unincorporated Unincorporated |
| 2753 | Riverside | Central | |
| 2754 | Riverside | Central | Unincorporated Unincorporated |
| 2755 | Riverside | Central | |
| 2756 | Riverside | Central | Unincorporated Unincorporated |
| 2757 | Riverside | Central | |
| 2758 | Riverside | Central | Unincorporated |
| 2759 | Riverside | Central | |
| 2760 | Riverside | Central | Unincorporated Unincorporated |
| 2761 2762 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 2780 | Riverside | Central | Unincorporated Unincorporated |
| 2781 | Riverside | Central | |
| 2782 | Riverside | Central | Unincorporated |
| 2783 | Riverside | Central | Unincorporated |
| 2784 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 2786 | Riverside | Central | Unincorporated Unincorporated |
| 2787 | Riverside | Central | |
| 2788 | Riverside | Central | Unincorporated |
| 2789 | Riverside | Central | Unincorporated Unincorporated |
| 2793 | Riverside | Central | |
| 2794 | Riverside | Central | Unincorporated |
| 2795 | Riverside | Central | Unincorporated |
| 2796 | Riverside | Central | Unincorporated |
| 2797 | Riverside | | Unincorporated |
| 2802 2804 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 2807 | Riverside | Central | Unincorporated |
| 2809 | Riverside | Central | Unincorporated Unincorporated |
| 2825 | Riverside | Central | |
| 2853 | Riverside | Central | Unincorporated Unincorporated |
| 2857 | Riverside | Central | |
| 2862 | Riverside | Central | Unincorporated Unincorporated |
| 2863 | Riverside | Central | |
| 2864 | Riverside | Central | Unincorporated Unincorporated |
| 2869 | Riverside | Central | |
| 2870 2872 | Riverside | Central | Unincorporated |
| 2875 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 2877 | Riverside | Central | Unincorporated Unincorporated |
| 2878 | Riverside | Central | |
| 2879 | Riverside | Central | Unincorporated Unincorporated |
| 2880 | Riverside | Central | |
| 2905 | Riverside | Central | Unincorporated Unincorporated |
| 2906 | Riverside | Central | |
| 2907 | Riverside | Central Central | Unincorporated |
| 3177 | Riverside Riverside | Central | Unincorporated Unincorporated |
| 3225 | Riverside | Central | Unincorporated Unincorporated |
| 3227 | Riverside | Central | |
| 3228 | Riverside | Central | Unincorporated Unincorporated |
| 3229 | Riverside | Central | |
| 3230 | Riverside | Central | Unincorporated Unincorporated |
| 3231 | Riverside | Central | |
| 3232 | Riverside | Central | Unincorporated Unincorporated |
| 3233 | Riverside | Central | |
| 3235 | Riverside | Central | Unincorporated |
| 3236 | Riverside | Central | Unincorporated |
| | | | |

EXHIBIT I-1 (continued)
RivCoM TAZ Correspondence by WRCOG TUMF Zone - Hemet/San Jacinto

| | | | l eu |
|-----|-----------|-------------------|-------|
| TAZ | County | WRCOG Zone | City |
| 642 | Riverside | Hemet/San Jacinto | Hemet |
| 643 | Riverside | Hemet/San Jacinto | Hemet |
| 644 | Riverside | Hemet/San Jacinto | Hemet |
| 645 | Riverside | Hemet/San Jacinto | Hemet |
| 646 | Riverside | Hemet/San Jacinto | Hemet |
| 647 | Riverside | Hemet/San Jacinto | Hemet |
| 648 | Riverside | Hemet/San Jacinto | Hemet |
| 649 | Riverside | Hemet/San Jacinto | Hemet |
| 650 | Riverside | Hemet/San Jacinto | Hemet |
| 651 | Riverside | Hemet/San Jacinto | Hemet |
| 652 | Riverside | Hemet/San Jacinto | Hemet |
| 653 | Riverside | Hemet/San Jacinto | Hemet |
| 654 | Riverside | Hemet/San Jacinto | Hemet |
| 655 | Riverside | Hemet/San Jacinto | Hemet |
| 656 | Riverside | Hemet/San Jacinto | Hemet |
| 657 | Riverside | Hemet/San Jacinto | Hemet |
| 658 | Riverside | Hemet/San Jacinto | Hemet |
| 659 | Riverside | Hemet/San Jacinto | Hemet |
| 660 | Riverside | Hemet/San Jacinto | Hemet |
| 661 | Riverside | Hemet/San Jacinto | Hemet |
| 662 | Riverside | Hemet/San Jacinto | Hemet |
| 663 | Riverside | Hemet/San Jacinto | Hemet |
| 664 | Riverside | Hemet/San Jacinto | Hemet |
| 665 | Riverside | Hemet/San Jacinto | Hemet |
| 666 | Riverside | Hemet/San Jacinto | Hemet |
| 667 | Riverside | Hemet/San Jacinto | Hemet |
| | | | |
| 668 | Riverside | Hemet/San Jacinto | Hemet |
| 669 | Riverside | Hemet/San Jacinto | Hemet |
| 670 | Riverside | Hemet/San Jacinto | Hemet |
| 671 | Riverside | Hemet/San Jacinto | Hemet |
| 672 | Riverside | Hemet/San Jacinto | Hemet |
| 673 | Riverside | Hemet/San Jacinto | Hemet |
| 674 | Riverside | Hemet/San Jacinto | Hemet |
| 675 | Riverside | Hemet/San Jacinto | Hemet |
| 676 | Riverside | Hemet/San Jacinto | Hemet |
| 677 | Riverside | Hemet/San Jacinto | Hemet |
| 678 | Riverside | Hemet/San Jacinto | Hemet |
| 679 | Riverside | Hemet/San Jacinto | Hemet |
| 680 | Riverside | Hemet/San Jacinto | Hemet |
| 681 | Riverside | Hemet/San Jacinto | Hemet |
| 682 | Riverside | Hemet/San Jacinto | Hemet |
| 683 | Riverside | Hemet/San Jacinto | Hemet |
| 684 | Riverside | Hemet/San Jacinto | Hemet |
| 685 | Riverside | Hemet/San Jacinto | Hemet |
| 686 | Riverside | Hemet/San Jacinto | Hemet |
| 687 | Riverside | Hemet/San Jacinto | Hemet |
| 688 | Riverside | Hemet/San Jacinto | Hemet |
| 689 | Riverside | Hemet/San Jacinto | Hemet |
| 690 | Riverside | Hemet/San Jacinto | Hemet |
| 691 | Riverside | Hemet/San Jacinto | Hemet |
| 692 | Riverside | Hemet/San Jacinto | Hemet |
| 693 | Riverside | Hemet/San Jacinto | Hemet |
| 694 | Riverside | | Hemet |
| 695 | Riverside | Hemet/San Jacinto | Hemet |
| 696 | Riverside | Hemet/San Jacinto | Hemet |
| | | Hemet/San Jacinto | |
| 697 | Riverside | Hemet/San Jacinto | Hemet |
| 698 | Riverside | Hemet/San Jacinto | Hemet |
| 699 | Riverside | Hemet/San Jacinto | Hemet |
| 700 | Riverside | Hemet/San Jacinto | Hemet |
| 701 | Riverside | Hemet/San Jacinto | Hemet |
| 702 | Riverside | Hemet/San Jacinto | Hemet |
| 703 | Riverside | Hemet/San Jacinto | Hemet |
| 704 | Riverside | Hemet/San Jacinto | Hemet |
| 705 | Riverside | Hemet/San Jacinto | Hemet |
| 706 | Riverside | Hemet/San Jacinto | Hemet |
| 707 | Riverside | Hemet/San Jacinto | Hemet |
| 708 | Riverside | Hemet/San Jacinto | Hemet |
| 709 | Riverside | Hemet/San Jacinto | Hemet |
| 710 | Riverside | Hemet/San Jacinto | Hemet |
| 711 | Riverside | Hemet/San Jacinto | Hemet |
| 712 | Riverside | Hemet/San Jacinto | Hemet |
| 713 | Riverside | Hemet/San Jacinto | Hemet |
| 714 | Riverside | Hemet/San Jacinto | Hemet |
| 715 | Riverside | Hemet/San Jacinto | Hemet |
| 716 | Riverside | Hemet/San Jacinto | Hemet |
| 717 | Riverside | Hemet/San Jacinto | Hemet |
| 718 | Riverside | Hemet/San Jacinto | Hemet |
| 719 | Riverside | Hemet/San Jacinto | Hemet |
| 720 | Riverside | Hemet/San Jacinto | Hemet |
| 721 | Riverside | Hemet/San Jacinto | Hemet |
| 722 | Riverside | Hemet/San Jacinto | Hemet |
| 723 | Riverside | Hemet/San Jacinto | Hemet |
| 724 | Riverside | Hemet/San Jacinto | Hemet |
| 725 | Riverside | Hemet/San Jacinto | Hemet |
| 726 | Riverside | Hemet/San Jacinto | Hemet |
| 727 | | | |
| | Riverside | Hemet/San Jacinto | Hemet |
| 728 | Riverside | Hemet/San Jacinto | Hemet |
| 729 | Riverside | Hemet/San Jacinto | Hemet |
| 730 | Riverside | Hemet/San Jacinto | Hemet |
| 731 | Riverside | Hemet/San Jacinto | Hemet |
| 732 | Riverside | Hemet/San Jacinto | Hemet |
| 733 | Riverside | Hemet/San Jacinto | Hemet |
| 734 | Riverside | Hemet/San Jacinto | Hemet |
| 735 | Riverside | Hemet/San Jacinto | Hemet |
| 736 | Riverside | Hemet/San Jacinto | Hemet |
| 737 | Riverside | Hemet/San Jacinto | Hemet |
| | Riverside | Hemet/San Jacinto | Hemet |
| 738 | | | |

| TAZ | County | WRCOG Zone | City |
|--------------|------------------------|----------------------------------------|-------------------------------|
| 2135 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2136 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2137 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2138 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2139 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2140 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2141 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2142 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2143 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2144 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2145 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2146 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2147 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2148 | Riverside Riverside | Hemet/San Jacinto Hemet/San Jacinto | San Jacinto San Jacinto |
| 2150 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2151 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2152 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2153 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2154 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2155 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2156 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2157 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2158 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2159 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2160 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2161 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2162 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2163 2164 | Riverside Riverside | Hemet/San Jacinto Hemet/San Jacinto | San Jacinto San Jacinto |
| 2165 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2166 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2167 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2168 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2169 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2170 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2171 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2172 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2173 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2174 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2175 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2176 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2177 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2178 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2179 2180 | Riverside Riverside | Hemet/San Jacinto Hemet/San Jacinto | San Jacinto San Jacinto |
| 2181 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2182 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2183 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2184 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2185 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2186 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2187 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2188 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2189 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2190 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2191 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2192 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2193 2194 | Riverside | Hemet/San Jacinto | San Jacinto |
| 2194 | Riverside | Hemet/San Jacinto Hemet/San Jacinto | San Jacinto San Jacinto |
| 2196 | Riverside Riverside | Hemet/San Jacinto | San Jacinto |
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| 2200 | Riverside | Hemet/San Jacinto | San Jacinto |
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| 150 151 | Riverside Riverside | Pass Pass | Calimesa Calimesa |
| 152 | Riverside | Pass | Calimesa |
| 153 | Riverside | Pass | Calimesa |
| 154 | Riverside | Pass | Calimesa |
| 1278 | Riverside | Pass | Moreno Valley |
| 2323 2355 | Riverside Riverside | Pass Pass | Unincorporated Unincorporated |
| 2356 | Riverside | Pass | Unincorporated |
| 2357 | Riverside | Pass | Unincorporated |
| 2363 | Riverside | Pass | Unincorporated |
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| 2627 | Riverside | Pass | Unincorporated |
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| TAZ 1351 | County Riverside | WRCOG Zone | City Murrieta |
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| TAZ 1531 | County Riverside | Southwest | City Murrieta |
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| 2253 2254 2255 | Riverside Riverside | Southwest Southwest | Temecula Temecula |
| 2255 2256 2257 | Riverside Riverside | Southwest Southwest | Temecula Temecula |
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| 2665 | Riverside | Southwest | Unincorporated |
| 2695 | Riverside | Southwest | Unincorporated Unincorporated |
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| 207 Riverside Outside TUMF Zones Coachella 268 Riverside Outside TUMF Zones Coachella 269 Riverside Outside TUMF Zones Coachella 270 Riverside Outside TUMF Zones Coachella 271 Riverside Outside TUMF Zones Coachella | 920 Riverside Outside TUMF Zones La Quinta 921 Riverside Outside TUMF Zones La Quinta 921 Riverside Outside TUMF Zones La Quinta 922 Riverside Outside TUMF Zones La Quinta 923 Riverside Outside TUMF Zones La Quinta | 1777 Avenade Outside Tulin Zones Palm Springs 1780 Riverside Outside Tulin Zones Palm Springs 1781 Riverside Outside Tulin Zones Palm Springs 1782 Riverside Outside Tulin Zones Palm Springs 1783 Riverside Outside Tulin Zones Palm Springs | 3077 Riverside Outside TUMF Zones Unincorporated 3021 Riverside Outside TUMF Zones Unincorporated 3021 Riverside Outside TUMF Zones Unincorporated 3022 Riverside Outside TUMF Zones Unincorporated 3023 Riverside Outside TUMF Zones Unincorporated |
| 272 Riverside Outside TUMF Zones Coachella 273 Riverside Outside TUMF Zones Coachella 274 Riverside Outside TUMF Zones Coachella | 924 Riverside Outside TUMF Zones La Quinta 925 Riverside Outside TUMF Zones La Quinta 926 Riverside Outside TUMF Zones La Quinta | 1784 Riverside Outside TUMF Zones Palm Springs 1785 Riverside Outside TUMF Zones Palm Springs 1786 Riverside Outside TUMF Zones Palm Springs | 3024 Riverside Outside TUMF Zones Unincorporated 3025 Riverside Outside TUMF Zones Unincorporated 3026 Riverside Outside TUMF Zones Unincorporated |
| 275 Riverside Outside TUMF Zones Coachella 276 Riverside Outside TUMF Zones Coachella 277 Riverside Outside TUMF Zones Coachella 278 Riverside Outside TUMF Zones Coachella | 927 Riverside Outside TUMF Zones La Quinta 928 Riverside Outside TUMF Zones La Quinta 929 Riverside Outside TUMF Zones La Quinta 930 Riverside Outside TUMF Zones La Quinta | 1787 Riverside Outside TUMF Zones Palm Springs 1788 Riverside Outside TUMF Zones Palm Springs 1789 Riverside Outside TUMF Zones Palm Springs 1790 Riverside Outside TUMF Zones Palm Springs | 3027 Riverside Outside TUMF Zones Unincorporated 3028 Riverside Outside TUMF Zones Unincorporated 3029 Riverside Outside TUMF Zones Unincorporated 3030 Riverside Outside TUMF Zones Unincorporated Unincorporated |
| 279 Riverside Outside TUMF Zones Coachella 280 Riverside Outside TUMF Zones Coachella 281 Riverside Outside TUMF Zones Coachella 282 Riverside Outside TUMF Zones Coachella | 931 Riverside Outside TUMF Zones La Quinta 932 Riverside Outside TUMF Zones La Quinta 933 Riverside Outside TUMF Zones La Quinta 934 Riverside Outside TUMF Zones La Quinta | 1791 Riverside Outside TUMF Zones Palm Springs 1792 Riverside Outside TUMF Zones Palm Springs 1880 Riverside Outside TUMF Zones Rancho Mirage 1881 Riverside Outside TUMF Zones Rancho Mirage | 3031 Riverside Outside TUMF Zones Unincorporated 3032 Riverside Outside TUMF Zones Unincorporated 3033 Riverside Outside TUMF Zones Unincorporated 3034 Riverside Outside TUMF Zones Unincorporated |
| 283 Riverside Outside TUMF Zones Coachella 284 Riverside Outside TUMF Zones Coachella 285 Riverside Outside TUMF Zones Coachella 286 Riverside Outside TUMF Zones Coachella | 935 Riverside Outside TUMF Zones La Quinta 936 Riverside Outside TUMF Zones La Quinta 937 Riverside Outside TUMF Zones La Quinta 1569 Riverside Outside TUMF Zones Palm Desert | 1882 Riverside Outside TUMF Zones Rancho Mirage 1883 Riverside Outside TUMF Zones Rancho Mirage 1884 Riverside Outside TUMF Zones Rancho Mirage 1885 Riverside Outside TUMF Zones Rancho Mirage | 3035 Riverside Outside TUMF Zones Unincorporated 3036 Riverside Outside TUMF Zones Unincorporated 3037 Riverside Outside TUMF Zones Unincorporated 3038 Riverside Outside TUMF Zones Unincorporated |
| 287 Riverside Outside TUMF Zones Coachella 288 Riverside Outside TUMF Zones Coachella 289 Riverside Outside TUMF Zones Coachella 290 Riverside Outside TUMF Zones Coachella | 1570 Riverside Outside TUMF Zones Palm Desert 1571 Riverside Outside TUMF Zones Palm Desert 1572 Riverside Outside TUMF Zones Palm Desert 1573 Riverside Outside TUMF Zones Palm Desert | 1886 Riverside Outside TUMF Zones Rancho Mirage 1887 Riverside Outside TUMF Zones Rancho Mirage 1888 Riverside Outside TUMF Zones Rancho Mirage 1889 Riverside Outside TUMF Zones Rancho Mirage | 3039 Riverside Outside TUMF Zones Unincorporated 3040 Riverside Outside TUMF Zones Unincorporated 3041 Riverside Outside TUMF Zones Unincorporated 3043 Riverside Outside TUMF Zones Unincorporated |
| 291 Riverside Outside TUMF Zones Coachella 292 Riverside Outside TUMF Zones Coachella 293 Riverside Outside TUMF Zones Coachella 294 Riverside Outside TUMF Zones Coachella | 1574 Riverside Outside TUMF Zones Palm Desert 1575 Riverside Outside TUMF Zones Palm Desert 1576 Riverside Outside TUMF Zones Palm Desert 1577 Riverside Outside TUMF Zones Palm Desert | 1890 Riverside Outside TUMF Zones Rancho Mirage 1891 Riverside Outside TUMF Zones Rancho Mirage 1892 Riverside Outside TUMF Zones Rancho Mirage 1893 Riverside Outside TUMF Zones Rancho Mirage | 3044 Riverside Outside TUMF Zones Unincorporated 3045 Riverside Outside TUMF Zones Unincorporated 3046 Riverside Outside TUMF Zones Unincorporated 3047 Riverside Outside TUMF Zones Unincorporated |
| 295 Riverside Outside TUMF Zones Coachella 296 Riverside Outside TUMF Zones Coachella 297 Riverside Outside TUMF Zones Coachella 298 Riverside Outside TUMF Zones Coachella | 1578 Riverside Outside TUMF Zones Palm Desert 1579 Riverside Outside TUMF Zones Palm Desert 1580 Riverside Outside TUMF Zones Palm Desert 1581 Riverside Outside TUMF Zones Palm Desert | 1894 Riverside Outside TUMF Zones Rancho Mirage 1895 Riverside Outside TUMF Zones Rancho Mirage 1896 Riverside Outside TUMF Zones Rancho Mirage 1897 Riverside Outside TUMF Zones Rancho Mirage | 3048 Riverside Outside TUMF Zones Unincorporated 3049 Riverside Outside TUMF Zones Unincorporated 3050 Riverside Outside TUMF Zones Unincorporated 3051 Riverside Outside TUMF Zones Unincorporated |
| 299 Riverside Outside TUMF Zones Coachella 300 Riverside Outside TUMF Zones Coachella 301 Riverside Outside TUMF Zones Coachella 302 Riverside Outside TUMF Zones Coachella | 1582 Riverside Outside TUMF Zones Palm Desert 1583 Riverside Outside TUMF Zones Palm Desert 1584 Riverside Outside TUMF Zones Palm Desert 1585 Riverside Outside TUMF Zones Palm Desert | 1898 Riverside Outside TUMF Zones Rancho Mirage 1899 Riverside Outside TUMF Zones Rancho Mirage 1900 Riverside Outside TUMF Zones Rancho Mirage 1901 Riverside Outside TUMF Zones Rancho Mirage | 3052 Riverside Outside TUMF Zones Unincorporated 3053 Riverside Outside TUMF Zones Unincorporated 3054 Riverside Outside TUMF Zones Unincorporated 3055 Riverside Outside TUMF Zones Unincorporated |
| 303 Riverside Outside TUMF Zones Coachella 304 Riverside Outside TUMF Zones Coachella 305 Riverside Outside TUMF Zones Coachella 306 Riverside Outside TUMF Zones Coachella | 1586 Riverside Outside TUMF Zones Palm Desert 1587 Riverside Outside TUMF Zones Palm Desert 1588 Riverside Outside TUMF Zones Palm Desert 1589 Riverside Outside TUMF Zones Palm Desert | 1902 Riverside Outside TUMF Zones Rancho Mirage 1903 Riverside Outside TUMF Zones Rancho Mirage 1904 Riverside Outside TUMF Zones Rancho Mirage 1905 Riverside Outside TUMF Zones Rancho Mirage | 3056 Riverside Outside TUMF Zones Unincorporated 3057 Riverside Outside TUMF Zones Unincorporated 3058 Riverside Outside TUMF Zones Unincorporated 3059 Riverside Outside TUMF Zones Unincorporated |
| 305 Riverside Outside TUMF Zones Coachella 308 Riverside Outside TUMF Zones Coachella 309 Riverside Outside TUMF Zones Coachella 310 Riverside Outside TUMF Zones Coachella 310 Riverside Outside TUMF Zones Coachella | 1590 Riverside Outside TUMF Zones Palm Desert 1591 Riverside Outside TUMF Zones Palm Desert 1592 Riverside Outside TUMF Zones Palm Desert 1593 Riverside Outside TUMF Zones Palm Desert | 1906 Riverside Outside TUMF Zones Rancho Mirage 1907 Riverside Outside TUMF Zones Rancho Mirage 1908 Riverside Outside TUMF Zones Rancho Mirage 1909 Riverside Outside TUMF Zones Rancho Mirage | 3060 Riverside Outside TUMF Zones Unincorporated 3061 Riverside Outside TUMF Zones Unincorporated 3062 Riverside Outside TUMF Zones Unincorporated 3063 Riverside Outside TUMF Zones Unincorporated |
| 311 Riverside Outside TUMF Zones Coachella 312 Riverside Outside TUMF Zones Coachella 313 Riverside Outside TUMF Zones Coachella 314 Riverside Outside TUMF Zones Coachella | 1.594 Riverside Outside TUMF Zones Palm Desert 1.595 Riverside Outside TUMF Zones Palm Desert 1.596 Riverside Outside TUMF Zones Palm Desert 1.597 Riverside Outside TUMF Zones Palm Desert | 2366 Riverside Outside TUMF Zones Unincorporated 2367 Riverside Outside TUMF Zones Unincorporated 2368 Riverside Outside TUMF Zones Unincorporated 2369 Riverside Outside TUMF Zones Unincorporated | 3064 Riverside Outside TUMF Zones Unincorporated 3065 Riverside Outside TUMF Zones Unincorporated 3066 Riverside Outside TUMF Zones Unincorporated 3067 Riverside Outside TUMF Zones Unincorporated |
| 315 Riverside Outside TUMF Zones Coachella 316 Riverside Outside TUMF Zones Coachella 317 Riverside Outside TUMF Zones Coachella 318 Riverside Outside TUMF Zones Coachella 318 Riverside Outside TUMF Zones Coachella | 1599 Riverside Outside TUMF Zones Palm Desert 1599 Riverside Outside TUMF Zones Palm Desert 1600 Riverside Outside TUMF Zones Palm Desert 1601 Riverside Outside TUMF Zones Palm Desert | 2415 Riverside Outside TUMF Zones Unincorporated 2416 Riverside Outside TUMF Zones Unincorporated 2417 Riverside Outside TUMF Zones Unincorporated 2417 Riverside Outside TUMF Zones Unincorporated 2418 Riverside Outside TUMF Zones Unincorporated | 3068 Riverside Outside TUMF Zones Unincorporated 3069 Riverside Outside TUMF Zones Unincorporated 3070 Riverside Outside TUMF Zones Unincorporated 3071 Riverside Outside TUMF Zones Unincorporated |
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| 323 Riverside Outside ITUMF Zones Coachella 324 Riverside Outside TUMF Zones Coachella 325 Riverside Outside TUMF Zones Coachella 326 Riverside Outside TUMF Zones Coachella 326 Riverside Outside TUMF Zones Coachella | 1606 Riverside Outside TUMF Zones Palm Desert 1607 Riverside Outside TUMF Zones Palm Desert 1608 Riverside Outside TUMF Zones Palm Desert 1609 Riverside Outside TUMF Zones Palm Desert | 2431 Riverside Outside TUMF Zones Unincorporated 2432 Riverside Outside TUMF Zones Unincorporated 2433 Riverside Outside TUMF Zones Unincorporated 2434 Riverside Outside TUMF Zones 2434 Riverside Outside TUMF Zones 2434 Riverside Outside TUMF Zones | 3077 Riverside Outside TUMF Zones Unincorporated 3077 Riverside Outside TUMF Zones Unincorporated 3078 Riverside Outside TUMF Zones Unincorporated 3079 Riverside Outside TUMF Zones Unincorporated |
| 327 Riverside Outside TUMF Zones Coachella 328 Riverside Outside TUMF Zones Coachella 329 Riverside Outside TUMF Zones Coachella 329 Riverside Outside TUMF Zones Coachella 330 Riverside Outside TUMF Zones Coachella | 1610 Riverside Outside TUMF Zones Palm Desert 1611 Riverside Outside TUMF Zones Palm Desert 1612 Riverside Outside TUMF Zones Palm Desert 1613 Riverside Outside TUMF Zones Palm Desert | 2435 Riverside Outside TUMF Zones Unincorporated 2436 Riverside Outside TUMF Zones Unincorporated 2437 Riverside Outside TUMF Zones Unincorporated 2437 Riverside Outside TUMF Zones Unincorporated 2438 Riverside Outside TUMF Zones 2438 Riverside Outside TUMF Zones | 3080 Riverside Outside TUMF Zones Unincorporated 3081 Riverside Outside TUMF Zones Unincorporated 3082 Riverside Outside TUMF Zones Unincorporated |
| 331 Riverside Outside TUMF Zones Coachella 570 Riverside Outside TUMF Zones Desert Hot Springs 571 Riverside Outside TUMF Zones Desert Hot Springs | 1614 Riverside Outside TUMF Zones Palm Desert 1615 Riverside Outside TUMF Zones Palm Desert 1616 Riverside Outside TUMF Zones Palm Desert | 2439 Riverside Outside TUMF Zones Unincorporated 2440 Riverside Outside TUMF Zones Unincorporated 2441 Riverside Outside TUMF Zones Unincorporated | 3083 Riverside Outside TUMF Zones Unincorporated 3084 Riverside Outside TUMF Zones Unincorporated 3085 Riverside Outside TUMF Zones Unincorporated 3086 Riverside Outside TUMF Zones Unincorporated 3087 Riverside Outside TUMF Zones Unincorporated |
| 573 Riverside Outside TUMF Zones Desert Hot Springs 574 Riverside Outside TUMF Zones Desert Hot Springs 575 Riverside Outside TUMF Zones Desert Hot Springs | 1617 Riverside Outside TUMF Zones Palm Desert 1618 Riverside Outside TUMF Zones Palm Desert 1619 Riverside Outside TUMF Zones Palm Desert 1620 Riverside Outside TUMF Zones 1620 Riverside Outside TUMF Zones 1621 Riverside Outside TUMF Zones 1621 Riverside Outside TUMF Zones 1621 Riverside Outside TUMF Zones Palm Desert | 2442 Riverside Outside TUMF Zones Unincorparated 2443 Riverside Outside TUMF Zones Unincorparated 2444 Riverside Outside TUMF Zones Unincorparated 2445 Riverside Outside TUMF Zones Unincorparated 2445 Riverside Outside TUMF Zones Unincorparated | 3088 Riverside Outside TUMF Zones Unincorporated 3089 Riverside Outside TUMF Zones Unincorporated 3090 Riverside Outside TUMF Zones Unincorporated |
| 577 Riverside Outside TUMF Zones Desert Hot Springs 578 Riverside Outside TUMF Zones Desert Hot Springs 579 Riverside Outside TUMF Zones Desert Hot Springs | 1622 Riverside Outside TUMF Zones Palm Desert 1623 Riverside Outside TUMF Zones Palm Desert 1624 Riverside Outside TUMF Zones Palm Desert | 2447 Riverside Outside TUMF Zones Unincorporated 2448 Riverside Outside TUMF Zones Unincorporated 2449 Riverside Outside TUMF Zones Unincorporated | 3107 Riverside Outside TUMF Zones Unincorporated 3139 Riverside Outside TUMF Zones Unincorporated 3140 Riverside Outside TUMF Zones Unincorporated 3141 Riverside Outside TUMF Zones Unincorporated Unincorporated |
| Riverside Outside TUMF Zones Desert Hot Springs | 1625 Riverside Outside TUMF Zones Palm Desert 1626 Riverside Outside TUMF Zones Palm Desert 1627 Riverside Outside TUMF Zones Palm Desert 1628 Riverside Outside TUMF Zones Palm Desert 1628 Riverside Outside TUMF Zones Palm Desert | 2450 Riverside Outside TUMF Zones Unincorporated 2451 Riverside Outside TUMF Zones Unincorporated 2452 Riverside Outside TUMF Zones Unincorporated 2453 Riverside Outside TUMF Zones Unincorporated 2453 Riverside Outside TUMF Zones Unincorporated | 3142 Riverside Outside TUMF Zones Unincorporated 3143 Riverside Outside TUMF Zones Unincorporated 3144 Riverside Outside TUMF Zones Unincorporated 3151 Riverside Outside TUMF Zones Unincorporated 3151 Riverside Outside TUMF Zones Unincorporated |
| S84 Riverside Outside TUMF Zones Desert Hot Springs S85 Riverside Outside TUMF Zones Desert Hot Springs S86 Riverside Outside TUMF Zones Desert Hot Springs Riverside Outside TUMF Zones Desert Hot Springs | 1629 Riverside Outside TUMF Zones Polm Desert 1630 Riverside Outside TUMF Zones Polm Desert 1631 Riverside Outside TUMF Zones Polm Desert 1632 Riverside Outside TUMF Zones Polm Desert | 2454 Riverside Outside TUMF Zones Unincorporated 2455 Riverside Outside TUMF Zones Unincorporated 2456 Riverside Outside TUMF Zones Unincorporated 2457 Riverside Outside TUMF Zones Unincorporated Unincorporated | 3153 Riverside Outside TUMF Zones Unincorporated 3154 Riverside Outside TUMF Zones Unincorporated 3155 Riverside Outside TUMF Zones Unincorporated 3162 Riverside Outside TUMF Zones Unincorporated Unincorporated |
| 588 Riverside Outside TUMF Zones Desert Hot Springs 589 Riverside Outside TUMF Zones Desert Hot Springs 590 Riverside Outside TUMF Zones Desert Hot Springs 591 Riverside Outside TUMF Zones Desert Hot Springs | 1633 Riverside Outside TUMF Zones Palm Desert 1634 Riverside Outside TUMF Zones Palm Desert 1635 Riverside Outside TUMF Zones Palm Desert 1636 Riverside Outside TUMF Zones Palm Desert | 2458 Riverside Outside TUMF Zones Unincorporated 2459 Riverside Outside TUMF Zones Unincorporated 2460 Riverside Outside TUMF Zones Unincorporated 2461 Riverside Outside TUMF Zones Unincorporated | 3163 Riverside Outside TUMF Zones Unincorporated 3165 Riverside Outside TUMF Zones Unincorporated 3166 Riverside Outside TUMF Zones Unincorporated 3167 Riverside Outside TUMF Zones Unincorporated |
| S72 Riverside Outside TUMF Zones Desert Hot Springs S73 Riverside Outside TUMF Zones Desert Hot Springs S74 Riverside Outside TUMF Zones Desert Hot Springs Riverside Outside TUMF Zones Desert Hot Springs | 1637 Riverside Outside TUMF Zones Palm Desert 1638 Riverside Outside TUMF Zones Palm Desert 1639 Riverside Outside TUMF Zones Palm Desert 1640 Riverside Outside TUMF Zones Palm Desert | 2462 Riverside Outside TUMF Zones Unincorporated 2463 Riverside Outside TUMF Zones Unincorporated 2464 Riverside Outside TUMF Zones Unincorporated 2468 Riverside Outside TUMF Zones Unincorporated 2468 Riverside Outside TUMF Zones Unincorporated | 3168 Riverside Outside TUMF Zones Unincorporated 3169 Riverside Outside TUMF Zones Unincorporated 3170 Riverside Outside TUMF Zones Unincorporated 3171 Riverside Outside TUMF Zones Unincorporated |
| 596 Riverside Outside TUMF Zones Desert Hot Springs 597 Riverside Outside TUMF Zones Desert Hot Springs 598 Riverside Outside TUMF Zones Desert Hot Springs 599 Riverside Outside TUMF Zones Desert Hot Springs | 1641 Riverside Outside TUMF Zones Palm Desert 1642 Riverside Outside TUMF Zones Palm Desert 1643 Riverside Outside TUMF Zones Palm Desert 1644 Riverside Outside TUMF Zones Palm Desert | 2469 Riverside Outside TUMF Zones Unincorporated 2470 Riverside Outside TUMF Zones Unincorporated 2482 Riverside Outside TUMF Zones Unincorporated 2482 Riverside Outside TUMF Zones Unincorporated 2483 Riverside Outside TUMF Zones Unincorporated | 3172 Riverside Outside TUMF Zones Unincorporated 3173 Riverside Outside TUMF Zones Unincorporated 3175 Riverside Outside TUMF Zones Unincorporated 3178 Riverside Outside TUMF Zones Unincorporated |
| 600 Riverside Outside TUMF zones Desert Hot Springs 601 Riverside Outside TUMF zones Desert Hot Springs 602 Riverside Outside TUMF zones Desert Hot Springs 602 Riverside Outside TUMF zones Desert Hot Springs | 1644 Riverside Outside TUMF Zones Faim Desert 1645 Riverside Outside TUMF Zones Palm Desert 1646 Riverside Outside TUMF Zones Palm Desert 1647 Riverside Outside TUMF Zones Palm Desert 1648 Riverside Outside TUMF Zones Palm Desert | 2483 Riverside Outside TuMF Zones Unincorporated 2484 Riverside Outside TuMF Zones Unincorporated 2485 Riverside Outside TuMF Zones Unincorporated 2486 Riverside Outside TuMF Zones Unincorporated 2487 Riverside Outside TuMF Zones Unincorporated | 3175 kiverside Outside tuMr Zones unincorporated 3179 Riverside Outside TUMF Zones Unincorporated 3180 Riverside Outside TUMF Zones Unincorporated 3181 Riverside Outside TUMF Zones Unincorporated 3182 Riverside Outside TUMF Zones Unincorporated |
| | 1648 Kiversiade Outside TUMF-Zones Palm Desert 1649 Riverside Outside TUMF-Zones Palm Desert 1650 Riverside Outside TUMF-Zones Palm Desert 1651 Riverside Outside TUMF-Zones Palm Desert 1652 Riverside Outside TUMF-Zones Palm Desert | 2487 Kverside Outside IUMF Zones Unincorporated 2488 Riverside Outside TUMF Zones Unincorporated 2489 Riverside Outside TUMF Zones Unincorporated 2490 Riverside Outside TUMF Zones Unincorporated 2502 Riverside Outside TUMF Zones Unincorporated | 3182 Riverside Outside LUMF Zones Unincorporated 3184 Riverside Outside TUMF Zones Unincorporated 3208 Riverside Outside TUMF Zones 3209 Riverside Outside TUMF Zones Unincorporated 3210 Riverside Outside TUMF Zones Unincorporated |
| | 1652 Niverside Outside TUMF Zones Falm Desert 1653 Riverside Outside TUMF Zones Palm Desert 1654 Riverside Outside TUMF Zones Palm Desert 1655 Riverside Outside TUMF Zones Palm Desert 1656 Riverside Outside TUMF Zones Palm Desert | 2502 kiverside Outside TuMF Zones Unincorporated 2503 Kiverside Outside TuMF Zones Unincorporated 2504 Kiverside Outside TuMF Zones Unincorporated 2505 Kiverside Outside TuMF Zones Unincorporated 2506 Kiverside Outside TuMF Zones Unincorporated | 3211 Riverside Outside tuMr Zones Unincorporated 3211 Riverside Outside TuMF Zones Unincorporated 3215 Riverside Outside TuMF Zones Unincorporated |
| | 1656 Kiversiade Outside IUMF zones Palm Desert 1657 Riverside Outside IUMF zones Palm Desert 1658 Riverside Outside IUMF zones Palm Desert 1659 Riverside Outside IUMF zones Palm Desert 1660 Riverside Outside IUMF zones Palm Desert | 2506 Kiverside Outside TUMF Zones Unincorporated 2507 Riverside Outside TUMF Zones Unincorporated 2508 Riverside Outside TUMF Zones Unincorporated 2513 Riverside Outside TUMF Zones Unincorporated 2514 Riverside Outside TUMF Zones Unincorporated | |
| | Total Investigate Cotalue Tumr Zones Fraim Desert | 2514 Riverside Outside TUMF Zones Unincorporated 2515 Riverside Outside TUMF Zones Unincorporated | |

EXHIBIT I-1 (confinued)
RivCoM TAZ Correspondence by WRCOG TUMF Zones - Outside Riverside County

| TAZ | County | WRCOG Zone |
|------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 3300 | Orange | Outside TUMF 7ones |
| 3301 | Orange | Outside TUMF Zones |
| 3302 | Orange | Outside TUMF Zones |
| 3303 | Orange | Outside TUMF Zones |
| 3304 | - | |
| 000 . | | |
| 3305 | orarigo | O O ISINGO TOTTI E DITIOS |
| 3306 | Orange | Outside TUMF Zones |
| 3307 | Orange | Outside TUMF Zones |
| 3308 | Orange | Outside TUMF Zones |
| 3309 | Orange | Outside TUMF Zones |
| 3310 | Orange | Outside TUMF Zones |
| 3311 | Orange | Outside TUMF Zones |
| 3312 | Orange | Outside TUMF Zones |
| 3313 | Orange | Outside TUMF Zones |
| 3314 | Orange | Outside TUMF Zones |
| 3315 | Orange | Outside TUMF Zones |
| 3316 | | Outside TUMF Zones |
| | orango | |
| 0017 | Orange | Outside TUMF Zones |
| 3318 | Orange | Outside TUMF Zones |
| 3319 | Orange | Outside TUMF Zones |
| 3320 | Orange | Outside TUMF Zones |
| 3321 | Orange | Outside TUMF Zones |
| 3322 | Orange | Outside TUMF Zones |
| 3323 | Orange | Outside TUMF Zones |
| 3324 | Orange | Outside TUMF Zones |
| 3325 | orange - | |
| | crange | |
| 0020 | Ordingo | Colsido form Zonios |
| 3327 | Orange | Outside TUMF Zones |
| 3328 | Orange | Outside TUMF Zones |
| 3329 | Orange | Outside TUMF Zones |
| 3330 | Orange | Outside TUMF Zones |
| 3331 | Orange | Outside TUMF Zones |
| 3332 | Orange | Outside TUMF Zones |
| 3333 | Orange | Outside TUMF Zones |
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| 3346 | Orange | |
| | orango | O CISIGO TOTTI ECITOS |
| 3347 | Orange | Outside TUMF Zones |
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| 3356 | Orange | Outside TUMF Zones |
| 3357 | | |
| | orange | |
| 0000 | Ordingo | Outside TUMF Zones |
| 3359 | Orange | Outside TUMF Zones |
| 3360 | Orange | Outside TUMF Zones |
| | Orange | Outside TUMF Zones |
| 3361 | | Outside TUMF Zones |
| | Orange | |
| 3361 | orarigo | |
| 3361 3362 | Orange | Outside TUMF Zones |
| 3361 3362 3363 3364 | Orange Orange | Outside TUMF Zones Outside TUMF Zones |
| 3361 3362 3363 3364 3365 | Orange Orange Orange | Outside TUMF Zones Outside TUMF Zones Outside TUMF Zones |
| 3361 3362 3363 3364 3365 3366 | Orange Orange Orange Orange | Outside TUMF Zones Outside TUMF Zones Outside TUMF Zones Outside TUMF Zones |
| 3361 3362 3363 3364 3365 3366 3367 | Orange Orange Orange Orange Orange Orange | Outside TUMF Zones |
| 3361 3362 3363 3364 3365 3366 | Orange Orange Orange Orange | Outside TUMF Zones Outside TUMF Zones Outside TUMF Zones Outside TUMF Zones |

| TAZ | County | WRCOG Zone |
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| 3384 3385 | San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3386 | San Bernardino San Bernardino | Outside TUMF Zones |
| 3387 | San Bernardino | Outside TUMF Zones |
| 3388 | San Bernardino | Outside TUMF Zones |
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| 3397 | San Bernardino | Outside TUMF Zones |
| 3398 3399 | San Bernardino | Outside TUMF Zones |
| 3400 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3401 | San Bernardino | Outside TUMF Zones |
| 3402 | San Bernardino | Outside TUMF Zones |
| 3403 | San Bernardino | Outside TUMF Zones |
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| 3408 | San Bernardino | Outside TUMF Zones |
| 3409 | San Bernardino | Outside TUMF Zones |
| 3410 | San Bernardino | Outside TUMF Zones |
| 3411 | San Bernardino | Outside TUMF Zones |
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| 3414 | San Bernardino San Bernardino | Outside TUMF Zones |
| 3416 | San Bernardino | Outside TUMF Zones |
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| 3434 3435 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3436 | San Bernardino | Outside TUMF Zones |
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| 3440 | San Bernardino | Outside TUMF Zones |
| 3441 3442 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
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| 3445 | San Bernardino | Outside TUMF Zones |
| 3446 | San Bernardino | Outside TUMF Zones |
| 3447 3448 | San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3448 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3450 | San Bernardino | Outside TUMF Zones |
| 3451 | San Bernardino | Outside TUMF Zones |
| 3452 | San Bernardino | Outside TUMF Zones |
| 3453 | San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3454 3455 | San Bernardino San Bernardino | Outside TUMF Zones |
| 3456 | San Bernardino | Outside TUMF Zones |
| 3457 | San Bernardino | Outside TUMF Zones |
| 3458 | San Bernardino | Outside TUMF Zones |
| 3459 | San Bernardino | Outside TUMF Zones |
| 3460 3461 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3462 | San Bernardino | Outside TUMF Zones |
| 3463 | San Bernardino | Outside TUMF Zones |
| 3464 | San Bernardino | Outside TUMF Zones |
| 3465 | San Bernardino | Outside TUMF Zones |
| 3466 | San Bernardino | Outside TUMF Zones |
| 3467 3468 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3469 | San Bernardino | Outside TUMF Zones |
| 3470 | San Bernardino | Outside TUMF Zones |
| 3471 | San Bernardino | Outside TUMF Zones |
| 3472 | San Bernardino | Outside TUMF Zones |
| 3473 | San Bernardino | Outside TUMF Zones |
| 3474 3475 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| 3476 | San Bernardino | Outside TUMF Zones |
| 3477 | San Bernardino | Outside TUMF Zones |
| 3478 | San Bernardino | Outside TUMF Zones |
| 3479 | San Bernardino | Outside TUMF Zones |
| 3480 | San Bernardino | Outside TUMF Zones |
| 3481 3482 | San Bernardino San Bernardino | Outside TUMF Zones Outside TUMF Zones |
| | , | , |

| TAZ | County | WRCOG Zone |
|------|-----------|--------------------|
| 3370 | San Diego | Outside TUMF Zones |
| 3371 | San Diego | Outside TUMF Zones |
| 3372 | San Diego | Outside TUMF Zones |
| 3373 | San Diego | Outside TUMF Zones |
| 3374 | San Diego | Outside TUMF Zones |
| 3375 | San Diego | Outside TUMF Zones |
| 3376 | San Diego | Outside TUMF Zones |
| 3377 | San Diego | Outside TUMF Zones |
| 3378 | San Diego | Outside TUMF Zones |
| 3379 | San Diego | Outside TUMF Zones |
| 3380 | San Diego | Outside TUMF Zones |
| 3381 | San Diego | Outside TUMF Zones |
| 3382 | San Diego | Outside TUMF Zones |
| 3383 | San Diego | Outside TUMF Zones |

EXHIBIT I-2 - 2045 AM Peak Period Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 187,280 | 10,596 | 40,037 | 2,900 | 24,865 | 25,446 | 291,124 |
| Hemet/San Jacinto | 13,060 | 93,350 | 3,815 | 3,847 | 7,263 | 8,090 | 129,424 |
| Northwest | 26,655 | 1,189 | 333,593 | 1,239 | 4,956 | 86,710 | 454,342 |
| Pass Area | 3,663 | 3,372 | 2,768 | 49,166 | 402 | 14,458 | 73,828 |
| Southwest | 25,061 | 7,304 | 14,708 | 914 | 298,362 | 27,954 | 374,302 |
| Outside WRCOG | 15,413 | 3,353 | 86,546 | 11,208 | 14,949 | | 131,469 |
| TOTAL | 271,131 | 119,163 | 481,467 | 69,274 | 350,797 | 162,658 | 1,454,490 |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-3 - 2045 AM Peak Period Percent Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-------|
| Central | 64.3% | 3.6% | 13.8% | 1.0% | 8.5% | 8.7% | 100% |
| Hemet/San Jacinto | 10.1% | 72.1% | 2.9% | 3.0% | 5.6% | 6.3% | 100% |
| Northwest | 5.9% | 0.3% | 73.4% | 0.3% | 1.1% | 19.1% | 100% |
| Pass Area | 5.0% | 4.6% | 3.7% | 66.6% | 0.5% | 19.6% | 100% |
| Southwest | 6.7% | 2.0% | 3.9% | 0.2% | 79.7% | 7.5% | 100% |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-4 - 2045 PM Peak Period Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 230,328 | 12,878 | 49,743 | 3,401 | 30,237 | 32,112 | 358,698 |
| Hemet/San Jacinto | 16,341 | 115,656 | 4,833 | 4,586 | 8,818 | 9,988 | 160,221 |
| Northwest | 31,923 | 1,495 | 409,641 | 1,448 | 6,076 | 109,331 | 559,914 |
| Pass Area | 4,405 | 4,214 | 3,346 | 61,219 | 506 | 17,876 | 91,566 |
| Southwest | 30,752 | 8,928 | 18,144 | 1,062 | 368,893 | 34,759 | 462,537 |
| Outside WRCOG | 18,495 | 4,221 | 106,166 | 13,282 | 18,918 | | 161,080 |
| TOTAL | 332,244 | 147,391 | 591,872 | 84,997 | 433,447 | 204,065 | 1,794,017 |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-5 - 2045 PM Peak Period Percent Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-------|
| Central | 64.2% | 3.6% | 13.9% | 0.9% | 8.4% | 9.0% | 100% |
| Hemet/San Jacinto | 10.2% | 72.2% | 3.0% | 2.9% | 5.5% | 6.2% | 100% |
| Northwest | 5.7% | 0.3% | 73.2% | 0.3% | 1.1% | 19.5% | 100% |
| Pass Area | 4.8% | 4.6% | 3.7% | 66.9% | 0.6% | 19.5% | 100% |
| Southwest | 6.6% | 1.9% | 3.9% | 0.2% | 79.8% | 7.5% | 100% |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-6 - 2045 Off-Peak Period Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 313,691 | 17,511 | 64,577 | 3,948 | 39,446 | 41,718 | 480,890 |
| Hemet/San Jacinto | 21,579 | 162,035 | 5,659 | 6,318 | 10,987 | 11,533 | 218,110 |
| Northwest | 43,461 | 1,848 | 565,759 | 1,528 | 7,406 | 160,552 | 780,554 |
| Pass Area | 6,068 | 6,269 | 4,125 | 91,253 | 631 | 24,354 | 132,700 |
| Southwest | 40,442 | 11,861 | 22,506 | 1,132 | 508,327 | 40,698 | 624,964 |
| Outside WRCOG | 25,307 | 5,301 | 145,054 | 16,534 | 23,061 | | 215,257 |
| TOTAL | 450,546 | 204,825 | 807,679 | 120,712 | 589,859 | 278,854 | 2,452,475 |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

Table I-7 - 2045 Off-Peak Period Percent Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-------|
| Central | 65.2% | 3.6% | 13.4% | 0.8% | 8.2% | 8.7% | 100% |
| Hemet/San Jacinto | 9.9% | 74.3% | 2.6% | 2.9% | 5.0% | 5.3% | 100% |
| Northwest | 5.6% | 0.2% | 72.5% | 0.2% | 0.9% | 20.6% | 100% |
| Pass Area | 4.6% | 4.7% | 3.1% | 68.8% | 0.5% | 18.4% | 100% |
| Southwest | 6.5% | 1.9% | 3.6% | 0.2% | 81.3% | 6.5% | 100% |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-8 - 2045 Daily Vehicle Trips by WRCOG Zone*

| FROM TO | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 731,298 | 40,985 | 154,356 | 10,249 | 94,547 | 99,276 | 1,130,712 |
| Hemet/San Jacinto | 50,980 | 371,040 | 14,306 | 14,750 | 27,068 | 29,611 | 507,755 |
| Northwest | 102,039 | 4,532 | 1,308,993 | 4,215 | 18,439 | 356,593 | 1,794,811 |
| Pass Area | 14,136 | 13,855 | 10,239 | 201,638 | 1,539 | 56,688 | 298,095 |
| Southwest | 96,254 | 28,093 | 55,358 | 3,108 | 1,175,582 | 103,410 | 1,461,804 |
| Outside WRCOG | 59,214 | 12,874 | 337,766 | 41,024 | 56,927 | | 507,806 |
| TOTAL | 1,053,921 | 471,379 | 1,881,018 | 274,984 | 1,374,103 | 645,578 | 5,700,982 |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-9 - 2045 Percent Daily Vehicle Trips by WRCOG Zone*

| TO FROM | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-------|
| Central | 64.7% | 3.6% | 13.7% | 0.9% | 8.4% | 8.8% | 100% |
| Hemet/San Jacinto | 10.0% | 73.1% | 2.8% | 2.9% | 5.3% | 5.8% | 100% |
| Northwest | 5.7% | 0.3% | 72.9% | 0.2% | 1.0% | 19.9% | 100% |
| Pass Area | 4.7% | 4.6% | 3.4% | 67.6% | 0.5% | 19.0% | 100% |
| Southwest | 6.6% | 1.9% | 3.8% | 0.2% | 80.4% | 7.1% | 100% |

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

Appendix J - Western Riverside County Regional Trip Purpose

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law, fundamentally changing the way that transportation impacts are to be assessed pursuant to the California Environmental Quality Act (CEQA). The new law requires CEQA guidelines to be amended to provide an alternative to Level of Service for evaluating transportation impacts. The intent of the change is to introduce alternate criteria that "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." (New Public Resources Code Section 21099(b)(1).) The primary effect of the new law is to establish the use of vehicle miles of travel (VMT) as the preferred basis for measuring traffic impacts, in recognition of the fact that VMT more accurately reflects traffic impacts as it takes into account both the number of trips being made and the distance of those trips. Although CEQA and the specific provision of SB 743 do not generally apply directly to impact fee programs (which are governed by the provision of the Mitigation Fee Act), the reasoning behind SB 743 establishing VMT as the preferred basis for CEQA traffic impact measurement is sound and equally applicable for impact fee nexus determination.

Linking the TUMF to VMT does enable developers to continue to use TUMF participation as demonstration of partial mitigation for their cumulative regional transportation impacts under the new SB 743 requirements. Furthermore, consistent with SB 743, consideration of travel impacts in terms of peak period VMT more accurately reflects the realities of travel behavior as the basis for determining impacts on the regional transportation system by reflecting the peak demands on the system based on the number of trips and the cumulative distance these trips occupy facilities in the system. Variation in trip length for different trip purposes is important to quantify since the impact associated with a trip is not limited to whether a trip occurs or not. A longer distance trip occupies more roadways over a longer period of time (all else being equal), and therefore goes through more intersections and consumes more capacity, thus requiring greater levels of mitigation. As the purpose of the TUMF is to mitigate the cumulative regional traffic impacts of future growth, a VMT based approach to defining the rough proportionality of impacts resulting from various differing types of new development better aligns with this purpose.

RivCoM is the primary analytical toll used to forecast VMT in Riverside County. RivCoM was developed based on the SCAG regional travel demand model, whose underlying model travel characteristics were developed based on national and regional travel behavior surveys, including the U.S. Census and the California Household Travel Survey. The methodology for using travel demand models, including RivCoM, as the basis for calculating and measuring VMT is consistent with NEPA and CEQA guidance, and accepted transportation planning practice.

The RivCoM model produces person-trips (irrespective of mode choice) on the basis of five trip purposes including home-based-work (HBW), home-based-other (HBO), home-based-school (HBS), home-based-university (HBU), and non-home based (NHB). Peak period, off-peak period and daily vehicle trips and VMT are derived from the person-trip productions based on mode choice assignments and differing trip length

characteristics embedded on the model parameters. Daily VMT results were aggregated into home-based VMT and non-home-based VMT for each scenario to represent the level of travel demand and impact on the transportation system attributable to each trip purpose.

The attribution of VMT associated with home-based trip purposes to residential land uses and non-home-based trips to non-residential land uses is consistent with the provisions of NCHRP Report #187 Quick Response Urban Travel Estimation Techniques and Transferable Parameters User's Guide (Transportation Research Board, 1978), a widely-referenced source for travel estimation techniques used for travel demand modeling. Chapter 2 of this report, which details trip generation estimation, states that "HBW (Home Based Work) and HBNW (Home Based Non Work) trips are generated at the households, whereas the NHB (Non-Home Based) trips are generated elsewhere." Consistent with NCHRP Report #187, aggregating person trip productions and associated VMT into home-based (combining home-based-work, home-based-other and home-based-school) and non-home-based (combining work-based-other, and other-based-other) represents an appropriate way to allocate trip generation and associated impacts between residential and non-residential land uses for the purpose of estimating the rough proportionality of the TUMF fee.

Exhibits J-1 through **J-36** of this Appendix include the RivCoM model data aggregated for peak period, off-peak period and daily person VMT for each trip purpose between the respective TUMF zones, and for both model year scenarios. The growth in daily VMT for each trip purpose was calculated as the difference between the daily VMT in the 2018 Existing scenario and the daily VMT in the 2045 No Build scenario. The growth in home-based daily VMT represents 77.7% of the total growth in daily VMT, and the growth in non-home-based daily VMT represents 22.3% of the total growth in daily VMT, as shown in **Table 5.4**. The relative share of the growth in daily VMT summarized in **Table 5.4** provides the basis for estimating the rough proportionality of the TUMF network impacts and related mitigation costs (and associated fees) attributable to new residential and non-residential development, respectively.

EXHIBIT J-1 VMT BY WRCOG TUMF ZONE TOTAL PEAK PERIOD TRIPS FOR ALL PURPOSES - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-------------|
| Central | 1,084,569 | 176,144 | 919,950 | 98,767 | 494,843 | 1,672,280 | 4,446,553 |
| Hemet/San Jacinto | 202,282 | 474,270 | 189,620 | 93,211 | 207,871 | 736,736 | 1,903,990 |
| Northwest | 471,239 | 62,909 | 3,082,883 | 69,489 | 235,185 | 3,500,199 | 7,421,903 |
| Pass Area | 86,956 | 66,611 | 120,609 | 230,246 | 31,017 | 531,753 | 1,067,192 |
| Southwest | 474,113 | 188,640 | 635,435 | 61,535 | 1,822,831 | 2,240,495 | 5,423,048 |
| Outside WRCOG | 833,664 | 293,941 | 3,584,150 | 403,303 | 1,245,556 | 129,717,014 | 136,077,627 |
| TOTAL | 3,152,824 | 1,262,514 | 8,532,646 | 956,551 | 4,037,302 | 138,398,477 | 156,340,314 |

EXHIBIT J-2 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 165,241 | 58,992 | 411,439 | 65,622 | 197,893 | 1,220,777 | 2,119,965 |
| Hemet/San Jacinto | 70,807 | 53,805 | 128,758 | 48,898 | 103,290 | 567,394 | 972,951 |
| Northwest | 143,340 | 37,259 | 674,676 | 53,185 | 136,185 | 1,920,635 | 2,965,279 |
| Pass Area | 25,983 | 15,665 | 65,646 | 34,287 | 18,981 | 304,632 | 465,194 |
| Southwest | 165,236 | 76,537 | 376,007 | 49,330 | 410,382 | 1,721,102 | 2,798,594 |
| Outside WRCOG | 420,948 | 169,433 | 1,777,239 | 260,161 | 753,400 | 45,139,830 | 48,521,011 |
| TOTAL | 991,555 | 411,691 | 3,433,764 | 511,483 | 1,620,131 | 50,874,369 | 57,842,994 |

EXHIBIT J-3 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 673,880 | 84,730 | 364,070 | 26,370 | 227,784 | 361,436 | 1,738,269 |
| Hemet/San Jacinto | 100,994 | 306,411 | 50,898 | 33,509 | 84,214 | 146,284 | 722,311 |
| Northwest | 239,023 | 20,386 | 1,679,367 | 13,441 | 81,648 | 1,178,130 | 3,211,995 |
| Pass Area | 45,133 | 33,006 | 42,321 | 129,128 | 10,013 | 167,567 | 427,168 |
| Southwest | 234,369 | 82,255 | 197,098 | 10,679 | 1,016,873 | 402,898 | 1,944,172 |
| Outside WRCOG | 326,013 | 98,751 | 1,241,409 | 108,093 | 389,492 | 54,404,000 | 56,567,758 |
| TOTAL | 1,619,412 | 625,538 | 3,575,162 | 321,221 | 1,810,024 | 56,660,315 | 64,611,673 |

EXHIBIT J-4 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 110,735 | 3,642 | 21,950 | 387 | 16,486 | 6,055 | 159,255 |
| Hemet/San Jacinto | 8,004 | 43,231 | 162 | 666 | 2,726 | 70 | 54,859 |
| Northwest | 20,225 | 79 | 221,291 | 28 | 2,091 | 56,821 | 300,535 |
| Pass Area | 1,326 | 1,697 | 103 | 16,564 | 7 | 4,939 | 24,635 |
| Southwest | 19,735 | 3,035 | 4,593 | 7 | 138,861 | 1,084 | 167,315 |
| Outside WRCOG | 6,136 | 402 | 60,940 | 5,117 | 10,948 | 5,978,607 | 6,062,150 |
| TOTAL | 166,161 | 52,086 | 309,039 | 22,769 | 171,120 | 6,047,576 | 6,768,750 |

EXHIBIT J-5 VMT BY WRCOG TUMF ZONE PEAK PERIOD NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 116,617 | 17,407 | 82,092 | 6,004 | 49,146 | 58,568 | 329,833 |
| Hemet/San Jacinto | 20,422 | 60,529 | 6,881 | 9,918 | 17,117 | 18,684 | 133,551 |
| Northwest | 61,455 | 2,779 | 414,635 | 2,683 | 14,253 | 282,505 | 778,310 |
| Pass Area | 12,768 | 11,566 | 8,715 | 49,680 | 1,935 | 47,061 | 131,725 |
| Southwest | 40,694 | 13,037 | 27,856 | 1,225 | 237,362 | 49,558 | 369,732 |
| Outside WRCOG | 65,953 | 13,263 | 341,047 | 28,498 | 87,982 | 22,327,971 | 22,864,713 |
| TOTAL | 317,908 | 118,582 | 881,227 | 98,008 | 407,795 | 22,784,346 | 24,607,865 |

EXHIBIT J-6 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 18,096 | 11,373 | 40,399 | 384 | 3,534 | 25,445 | 99,231 |
| Hemet/San Jacinto | 2,056 | 10,293 | 2,922 | 220 | 523 | 4,304 | 20,318 |
| Northwest | 7,195 | 2,406 | 92,914 | 152 | 1,007 | 62,109 | 165,784 |
| Pass Area | 1,747 | 4,677 | 3,824 | 587 | 80 | 7,554 | 18,470 |
| Southwest | 14,080 | 13,775 | 29,881 | 293 | 19,353 | 65,853 | 143,236 |
| Outside WRCOG | 14,614 | 12,092 | 163,514 | 1,433 | 3,734 | 1,866,606 | 2,061,994 |
| TOTAL | 57,788 | 54,616 | 333,455 | 3,070 | 28,232 | 2,031,871 | 2,509,032 |

EXHIBIT J-7 VMT BY WRCOG TUMF ZONE TOTAL OFF PEAK TRIPS FOR ALL PURPOSES - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-------------|
| Central | 801,662 | 128,869 | 640,224 | 56,860 | 339,965 | 988,339 | 2,955,918 |
| Hemet/San Jacinto | 140,692 | 363,274 | 109,533 | 65,159 | 132,656 | 415,778 | 1,227,093 |
| Northwest | 340,558 | 37,798 | 2,341,566 | 37,213 | 141,992 | 2,394,837 | 5,293,964 |
| Pass Area | 67,550 | 54,436 | 80,501 | 191,165 | 19,798 | 353,246 | 766,697 |
| Southwest | 330,176 | 130,997 | 414,647 | 31,788 | 1,358,749 | 1,284,306 | 3,550,663 |
| Outside WRCOG | 569,970 | 187,134 | 2,517,328 | 247,784 | 764,704 | 97,045,358 | 101,332,277 |
| TOTAL | 2,250,608 | 902,509 | 6,103,800 | 629,968 | 2,757,864 | 102,481,863 | 115,126,612 |

EXHIBIT J-8 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

| T From | O Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 64,053 | 23,015 | 164,150 | 25,429 | 78,516 | 519,620 | 874,784 |
| Hemet/San Jacinto | 27,710 | 20,523 | 51,954 | 19,949 | 40,698 | 244,713 | 405,547 |
| Northwest | 57,811 | 15,473 | 261,251 | 21,801 | 56,354 | 811,368 | 1,224,059 |
| Pass Area | 10,592 | 6,429 | 27,063 | 12,994 | 8,220 | 128,530 | 193,828 |
| Southwest | 65,794 | 29,706 | 153,862 | 20,870 | 157,689 | 724,854 | 1,152,774 |
| Outside WRCOG | 187,105 | 76,293 | 763,815 | 115,048 | 322,353 | 17,962,924 | 19,427,539 |
| TOTAL | 413,065 | 171,439 | 1,422,095 | 216,091 | 663,831 | 20,392,010 | 23,278,531 |

EXHIBIT J-9 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 518,247 | 66,043 | 291,090 | 21,528 | 180,073 | 324,734 | 1,401,715 |
| Hemet/San Jacinto | 77,692 | 230,275 | 41,945 | 28,302 | 64,944 | 130,834 | 573,991 |
| Northwest | 181,766 | 15,629 | 1,296,905 | 11,001 | 63,383 | 1,010,885 | 2,579,569 |
| Pass Area | 35,416 | 25,064 | 34,290 | 99,409 | 8,287 | 138,571 | 341,037 |
| Southwest | 181,290 | 62,892 | 165,057 | 8,746 | 793,860 | 357,826 | 1,569,671 |
| Outside WRCOG | 262,051 | 76,387 | 1,010,627 | 87,034 | 296,373 | 42,030,568 | 43,763,040 |
| TOTAL | 1,256,461 | 476,289 | 2,839,914 | 256,020 | 1,406,920 | 43,993,419 | 50,229,023 |

EXHIBIT J-10 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 29,899 | 1,018 | 5,963 | 112 | 4,495 | 1,879 | 43,367 |
| Hemet/San Jacinto | 2,171 | 11,723 | 46 | 212 | 743 | 22 | 14,915 |
| Northwest | 5,315 | 22 | 59,984 | 8 | 572 | 16,387 | 82,287 |
| Pass Area | 367 | 460 | 31 | 4,489 | 2 | 1,358 | 6,707 |
| Southwest | 5,242 | 828 | 1,239 | 2 | 37,812 | 304 | 45,428 |
| Outside WRCOG | 1,679 | 106 | 16,999 | 1,337 | 2,522 | 1,608,845 | 1,631,488 |
| TOTAL | 44,671 | 14,158 | 84,261 | 6,159 | 46,147 | 1,628,796 | 1,824,191 |

EXHIBIT J-11 VMT BY WRCOG TUMF ZONE OFF PEAK NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 171,868 | 26,165 | 127,774 | 9,573 | 74,861 | 103,539 | 513,780 |
| Hemet/San Jacinto | 31,023 | 89,467 | 11,465 | 16,561 | 25,978 | 33,500 | 207,994 |
| Northwest | 88,808 | 4,136 | 620,263 | 4,317 | 21,165 | 472,709 | 1,211,397 |
| Pass Area | 19,327 | 17,223 | 13,991 | 73,960 | 3,239 | 74,839 | 202,580 |
| Southwest | 61,789 | 19,268 | 45,891 | 1,951 | 356,701 | 84,988 | 570,589 |
| Outside WRCOG | 103,831 | 20,636 | 536,313 | 43,581 | 141,283 | 33,374,718 | 34,220,361 |
| TOTAL | 476,647 | 176,895 | 1,355,697 | 149,943 | 623,228 | 34,144,292 | 36,926,701 |

EXHIBIT J-12 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 17,594 | 12,628 | 51,247 | 218 | 2,019 | 38,566 | 122,272 |
| Hemet/San Jacinto | 2,097 | 11,286 | 4,124 | 136 | 292 | 6,709 | 24,645 |
| Northwest | 6,858 | 2,539 | 103,163 | 86 | 517 | 83,488 | 196,652 |
| Pass Area | 1,849 | 5,259 | 5,127 | 313 | 49 | 9,947 | 22,544 |
| Southwest | 16,062 | 18,302 | 48,598 | 219 | 12,688 | 116,334 | 212,202 |
| Outside WRCOG | 15,304 | 13,712 | 189,575 | 784 | 2,172 | 2,068,303 | 2,289,850 |
| TOTAL | 59,764 | 63,727 | 401,834 | 1,755 | 17,738 | 2,323,347 | 2,868,164 |

EXHIBIT J-13 VMT BY WRCOG TUMF ZONE TOTAL DAILY TRIPS FOR ALL PURPOSES - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|------------|-----------|-----------|------------------|-------------|
| Central | 1,886,231 | 305,013 | 1,560,174 | 155,627 | 834,808 | 2,660,619 | 7,402,471 |
| Hemet/San Jacinto | 342,975 | 837,544 | 299,154 | 158,370 | 340,527 | 1,152,514 | 3,131,082 |
| Northwest | 811,797 | 100,707 | 5,424,449 | 106,702 | 377,177 | 5,895,035 | 12,715,867 |
| Pass Area | 154,507 | 121,047 | 201,110 | 421,411 | 50,814 | 884,999 | 1,833,889 |
| Southwest | 804,289 | 319,636 | 1,050,082 | 93,323 | 3,181,580 | 3,524,801 | 8,973,711 |
| Outside WRCOG | 1,403,634 | 481,075 | 6,101,478 | 651,086 | 2,010,260 | 226,762,371 | 237,409,905 |
| TOTAL | 5,403,432 | 2,165,023 | 14,636,446 | 1,586,519 | 6,795,166 | 240,880,340 | 271,466,925 |

EXHIBIT J-14 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 229,295 | 82,007 | 575,590 | 91,051 | 276,409 | 1,740,397 | 2,994,749 |
| Hemet/San Jacinto | 98,516 | 74,328 | 180,712 | 68,847 | 143,988 | 812,107 | 1,378,498 |
| Northwest | 201,151 | 52,731 | 935,927 | 74,986 | 192,540 | 2,732,003 | 4,189,337 |
| Pass Area | 36,574 | 22,095 | 92,709 | 47,281 | 27,201 | 433,163 | 659,022 |
| Southwest | 231,030 | 106,243 | 529,869 | 70,200 | 568,071 | 2,445,955 | 3,951,368 |
| Outside WRCOG | 608,054 | 245,727 | 2,541,054 | 375,209 | 1,075,753 | 63,102,754 | 67,948,550 |
| TOTAL | 1,404,620 | 583,131 | 4,855,859 | 727,574 | 2,283,962 | 71,266,379 | 81,121,525 |

EXHIBIT J-15 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-------------|
| Central | 1,192,127 | 150,772 | 655,160 | 47,898 | 407,857 | 686,170 | 3,139,984 |
| Hemet/San Jacinto | 178,686 | 536,686 | 92,843 | 61,811 | 149,158 | 277,118 | 1,296,302 |
| Northwest | 420,789 | 36,015 | 2,976,272 | 24,442 | 145,031 | 2,189,015 | 5,791,564 |
| Pass Area | 80,549 | 58,070 | 76,610 | 228,537 | 18,300 | 306,138 | 768,205 |
| Southwest | 415,659 | 145,147 | 362,155 | 19,425 | 1,810,733 | 760,724 | 3,513,843 |
| Outside WRCOG | 588,064 | 175,138 | 2,252,036 | 195,127 | 685,865 | 96,434,568 | 100,330,798 |
| TOTAL | 2,875,873 | 1,101,828 | 6,415,076 | 577,241 | 3,216,945 | 100,653,734 | 114,840,696 |

EXHIBIT J-16 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 140,634 | 4,660 | 27,913 | 499 | 20,981 | 7,934 | 202,622 |
| Hemet/San Jacinto | 10,175 | 54,954 | 207 | 877 | 3,469 | 92 | 69,775 |
| Northwest | 25,540 | 101 | 281,274 | 36 | 2,663 | 73,208 | 382,822 |
| Pass Area | 1,692 | 2,157 | 134 | 21,053 | 9 | 6,297 | 31,343 |
| Southwest | 24,977 | 3,864 | 5,832 | 9 | 176,673 | 1,388 | 212,743 |
| Outside WRCOG | 7,814 | 508 | 77,939 | 6,454 | 13,470 | 7,587,452 | 7,693,638 |
| TOTAL | 210,832 | 66,244 | 393,299 | 28,928 | 217,266 | 7,676,372 | 8,592,941 |

EXHIBIT J-17 VMT BY WRCOG TUMF ZONE DAILY NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 288,485 | 43,572 | 209,866 | 15,577 | 124,008 | 162,106 | 843,613 |
| Hemet/San Jacinto | 51,445 | 149,996 | 18,346 | 26,479 | 43,095 | 52,184 | 341,544 |
| Northwest | 150,263 | 6,915 | 1,034,898 | 7,000 | 35,418 | 755,213 | 1,989,708 |
| Pass Area | 32,095 | 28,790 | 22,706 | 123,641 | 5,174 | 121,900 | 334,305 |
| Southwest | 102,482 | 32,305 | 73,748 | 3,176 | 594,063 | 134,546 | 940,320 |
| Outside WRCOG | 169,784 | 33,899 | 877,360 | 72,079 | 229,264 | 55,702,689 | 57,085,075 |
| TOTAL | 794,554 | 295,477 | 2,236,924 | 247,951 | 1,031,023 | 56,928,638 | 61,534,566 |

EXHIBIT J-18 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 35,690 | 24,001 | 91,646 | 601 | 5,553 | 64,011 | 221,503 |
| Hemet/San Jacinto | 4,153 | 21,580 | 7,046 | 356 | 815 | 11,012 | 44,963 |
| Northwest | 14,054 | 4,945 | 196,077 | 238 | 1,525 | 145,596 | 362,435 |
| Pass Area | 3,596 | 9,936 | 8,951 | 900 | 129 | 17,502 | 41,014 |
| Southwest | 30,142 | 32,078 | 78,478 | 512 | 32,040 | 182,188 | 355,438 |
| Outside WRCOG | 29,918 | 25,804 | 353,089 | 2,217 | 5,906 | 3,934,909 | 4,351,844 |
| TOTAL | 117,553 | 118,344 | 735,288 | 4,825 | 45,970 | 4,355,218 | 5,377,197 |

EXHIBIT J-19 VMT BY WRCOG TUMF ZONE TOTAL PEAK PERIOD TRIPS FOR ALL PURPOSES - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|------------|-----------|-----------|------------------|-------------|
| Central | 1,799,333 | 331,707 | 1,246,839 | 150,237 | 725,077 | 2,074,041 | 6,327,234 |
| Hemet/San Jacinto | 419,876 | 828,755 | 285,137 | 155,667 | 345,759 | 1,006,889 | 3,042,083 |
| Northwest | 719,180 | 87,427 | 3,652,429 | 90,736 | 283,636 | 3,816,550 | 8,649,959 |
| Pass Area | 166,143 | 123,928 | 189,122 | 408,274 | 39,950 | 805,993 | 1,733,411 |
| Southwest | 823,445 | 350,410 | 894,926 | 84,115 | 3,062,054 | 3,170,545 | 8,385,495 |
| Outside WRCOG | 1,208,763 | 420,070 | 4,001,373 | 598,622 | 1,482,553 | 151,663,404 | 159,374,786 |
| TOTAL | 5,136,740 | 2,142,297 | 10,269,827 | 1,487,652 | 5,939,029 | 162,537,422 | 187,512,968 |

EXHIBIT J-20 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 373,364 | 119,251 | 639,446 | 100,864 | 284,454 | 1,576,209 | 3,093,588 |
| Hemet/San Jacinto | 172,286 | 134,504 | 208,376 | 88,310 | 169,783 | 827,421 | 1,600,680 |
| Northwest | 244,964 | 48,849 | 905,169 | 66,860 | 143,376 | 2,007,531 | 3,416,748 |
| Pass Area | 69,297 | 34,601 | 118,258 | 72,874 | 25,101 | 465,215 | 785,345 |
| Southwest | 346,327 | 152,164 | 600,641 | 69,322 | 654,211 | 2,572,563 | 4,395,228 |
| Outside WRCOG | 627,554 | 220,846 | 2,057,129 | 369,322 | 678,800 | 52,699,890 | 56,653,540 |
| TOTAL | 1,833,791 | 710,214 | 4,529,019 | 767,551 | 1,955,725 | 60,148,829 | 69,945,130 |

EXHIBIT J-21 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 1,062,642 | 154,854 | 432,156 | 38,451 | 340,614 | 392,364 | 2,421,080 |
| Hemet/San Jacinto | 190,962 | 506,337 | 65,022 | 49,916 | 143,277 | 154,174 | 1,109,688 |
| Northwest | 352,592 | 31,203 | 1,941,227 | 19,896 | 116,947 | 1,347,877 | 3,809,741 |
| Pass Area | 73,295 | 60,143 | 56,197 | 230,606 | 12,927 | 245,844 | 679,013 |
| Southwest | 365,033 | 139,169 | 213,955 | 13,093 | 1,806,167 | 430,821 | 2,968,236 |
| Outside WRCOG | 473,253 | 165,371 | 1,354,389 | 176,377 | 669,783 | 64,072,996 | 66,912,168 |
| TOTAL | 2,517,777 | 1,057,076 | 4,062,946 | 528,338 | 3,089,715 | 66,644,076 | 77,899,927 |

EXHIBIT J-22 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 136,895 | 5,994 | 23,940 | 484 | 20,215 | 6,298 | 193,827 |
| Hemet/San Jacinto | 13,675 | 57,088 | 301 | 975 | 4,113 | 107 | 76,259 |
| Northwest | 23,198 | 110 | 237,602 | 33 | 2,279 | 66,566 | 329,788 |
| Pass Area | 1,880 | 2,406 | 139 | 26,717 | 7 | 9,600 | 40,749 |
| Southwest | 24,598 | 3,842 | 4,731 | 7 | 228,422 | 1,295 | 262,895 |
| Outside WRCOG | 6,723 | 624 | 64,150 | 5,947 | 16,481 | 6,271,751 | 6,365,676 |
| TOTAL | 206,969 | 70,065 | 330,863 | 34,163 | 271,517 | 6,355,617 | 7,269,194 |

EXHIBIT J-23 VMT BY WRCOG TUMF ZONE PEAK PERIOD NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 202,038 | 35,728 | 103,488 | 10,029 | 74,959 | 74,079 | 500,322 |
| Hemet/San Jacinto | 40,465 | 115,618 | 8,342 | 16,222 | 27,829 | 20,983 | 229,458 |
| Northwest | 89,752 | 4,817 | 459,879 | 3,793 | 19,949 | 335,223 | 913,414 |
| Pass Area | 19,244 | 20,136 | 9,751 | 77,216 | 1,839 | 73,705 | 201,892 |
| Southwest | 63,376 | 22,555 | 29,308 | 1,251 | 322,054 | 43,941 | 482,484 |
| Outside WRCOG | 88,138 | 21,358 | 372,582 | 45,519 | 113,947 | 26,519,796 | 27,161,341 |
| TOTAL | 503,012 | 220,212 | 983,351 | 154,031 | 560,578 | 27,067,727 | 29,488,911 |

EXHIBIT J-24 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 24,394 | 15,880 | 47,809 | 408 | 4,835 | 25,090 | 118,417 |
| Hemet/San Jacinto | 2,488 | 15,208 | 3,096 | 245 | 757 | 4,204 | 25,998 |
| Northwest | 8,674 | 2,448 | 108,552 | 155 | 1,085 | 59,353 | 180,268 |
| Pass Area | 2,428 | 6,642 | 4,777 | 861 | 76 | 11,629 | 26,412 |
| Southwest | 24,112 | 32,680 | 46,293 | 442 | 51,199 | 121,926 | 276,652 |
| Outside WRCOG | 13,096 | 11,872 | 153,123 | 1,456 | 3,543 | 2,098,971 | 2,282,060 |
| TOTAL | 75,191 | 84,731 | 363,649 | 3,568 | 61,494 | 2,321,174 | 2,909,807 |

EXHIBIT J-25 VMT BY WRCOG TUMF ZONE TOTAL OFF PEAK TRIPS FOR ALL PURPOSES - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-------------|
| Central | 1,318,612 | 243,507 | 855,399 | 90,116 | 512,253 | 1,362,381 | 4,382,268 |
| Hemet/San Jacinto | 307,848 | 620,261 | 182,200 | 112,414 | 232,480 | 632,480 | 2,087,683 |
| Northwest | 514,466 | 58,795 | 2,686,245 | 50,935 | 187,731 | 2,945,148 | 6,443,318 |
| Pass Area | 125,325 | 101,371 | 126,342 | 322,595 | 27,752 | 586,766 | 1,290,151 |
| Southwest | 594,702 | 254,789 | 612,135 | 48,790 | 2,229,187 | 1,999,442 | 5,739,044 |
| Outside WRCOG | 857,986 | 292,176 | 2,897,700 | 380,089 | 960,617 | 114,223,362 | 119,611,929 |
| TOTAL | 3,718,939 | 1,570,899 | 7,360,021 | 1,004,939 | 4,150,019 | 121,749,579 | 139,554,395 |

EXHIBIT J-26 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 139,109 | 48,317 | 252,879 | 40,263 | 116,636 | 745,260 | 1,342,464 |
| Hemet/San Jacinto | 68,574 | 47,643 | 92,129 | 35,673 | 67,839 | 402,851 | 714,710 |
| Northwest | 98,150 | 23,283 | 337,214 | 28,227 | 65,852 | 940,673 | 1,493,399 |
| Pass Area | 28,513 | 15,183 | 50,763 | 26,317 | 12,905 | 221,065 | 354,746 |
| Southwest | 143,010 | 60,883 | 254,955 | 32,890 | 244,955 | 1,155,616 | 1,892,308 |
| Outside WRCOG | 302,064 | 116,183 | 938,244 | 166,464 | 326,211 | 21,226,888 | 23,076,054 |
| TOTAL | 779,420 | 311,492 | 1,926,184 | 329,834 | 834,398 | 24,692,353 | 28,873,681 |

EXHIBIT J-27 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 817,753 | 121,802 | 362,911 | 33,093 | 271,714 | 415,042 | 2,022,315 |
| Hemet/San Jacinto | 161,868 | 374,441 | 65,747 | 46,266 | 116,874 | 172,568 | 937,763 |
| Northwest | 270,238 | 25,096 | 1,486,279 | 16,476 | 90,978 | 1,281,165 | 3,170,231 |
| Pass Area | 61,546 | 47,031 | 50,231 | 174,731 | 11,410 | 223,207 | 568,155 |
| Southwest | 303,367 | 111,492 | 202,017 | 12,889 | 1,405,767 | 465,133 | 2,500,666 |
| Outside WRCOG | 387,066 | 126,440 | 1,130,769 | 140,486 | 452,722 | 49,373,980 | 51,611,462 |
| TOTAL | 2,001,838 | 806,301 | 3,297,953 | 423,940 | 2,349,465 | 51,931,094 | 60,810,592 |

EXHIBIT J-28 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 37,552 | 1,684 | 7,015 | 142 | 5,504 | 2,210 | 54,106 |
| Hemet/San Jacinto | 4,077 | 15,458 | 110 | 341 | 1,168 | 42 | 21,196 |
| Northwest | 6,276 | 32 | 64,909 | 10 | 605 | 20,422 | 92,254 |
| Pass Area | 563 | 684 | 47 | 7,234 | 2 | 2,659 | 11,190 |
| Southwest | 6,927 | 1,090 | 1,449 | 3 | 62,653 | 584 | 72,705 |
| Outside WRCOG | 2,040 | 166 | 19,074 | 1,704 | 3,185 | 1,683,458 | 1,709,627 |
| TOTAL | 57,435 | 19,114 | 92,604 | 9,433 | 73,117 | 1,709,376 | 1,961,079 |

EXHIBIT J-29 VMT BY WRCOG TUMF ZONE OFF PEAK NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 299,738 | 55,092 | 169,871 | 16,381 | 115,948 | 153,204 | 810,234 |
| Hemet/San Jacinto | 70,174 | 166,706 | 18,278 | 29,966 | 46,159 | 47,597 | 378,880 |
| Northwest | 131,414 | 7,633 | 681,134 | 6,136 | 29,764 | 610,663 | 1,466,744 |
| Pass Area | 31,940 | 31,225 | 18,232 | 113,898 | 3,385 | 123,898 | 322,577 |
| Southwest | 104,433 | 36,376 | 55,746 | 2,580 | 484,258 | 98,486 | 781,879 |
| Outside WRCOG | 151,333 | 34,517 | 620,329 | 70,600 | 176,455 | 39,604,640 | 40,657,873 |
| TOTAL | 789,032 | 331,549 | 1,563,590 | 239,561 | 855,969 | 40,638,488 | 44,418,188 |

EXHIBIT J-30 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 24,461 | 16,612 | 62,722 | 237 | 2,451 | 46,666 | 153,148 |
| Hemet/San Jacinto | 3,155 | 16,013 | 5,936 | 169 | 440 | 9,422 | 35,134 |
| Northwest | 8,389 | 2,752 | 116,708 | 85 | 532 | 92,226 | 220,691 |
| Pass Area | 2,763 | 7,248 | 7,069 | 416 | 50 | 15,937 | 33,483 |
| Southwest | 36,965 | 44,949 | 97,968 | 427 | 31,554 | 279,623 | 491,486 |
| Outside WRCOG | 15,482 | 14,869 | 189,285 | 835 | 2,045 | 2,334,396 | 2,556,912 |
| TOTAL | 91,214 | 102,442 | 479,690 | 2,170 | 37,070 | 2,778,268 | 3,490,855 |

EXHIBIT J-31 VMT BY WRCOG TUMF ZONE TOTAL DAILY TRIPS FOR ALL PURPOSES - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|------------|-----------|------------|------------------|-------------|
| Central | 3,117,946 | 575,214 | 2,102,238 | 240,353 | 1,237,329 | 3,436,422 | 10,709,502 |
| Hemet/San Jacinto | 727,723 | 1,449,016 | 467,337 | 268,082 | 578,239 | 1,639,369 | 5,129,767 |
| Northwest | 1,233,645 | 146,222 | 6,338,674 | 141,671 | 471,367 | 6,761,699 | 15,093,278 |
| Pass Area | 291,468 | 225,299 | 315,464 | 730,869 | 67,702 | 1,392,759 | 3,023,562 |
| Southwest | 1,418,147 | 605,199 | 1,507,061 | 132,904 | 5,291,241 | 5,169,987 | 14,124,539 |
| Outside WRCOG | 2,066,749 | 712,246 | 6,899,073 | 978,711 | 2,443,170 | 265,886,766 | 278,986,715 |
| TOTAL | 8,855,679 | 3,713,196 | 17,629,848 | 2,492,590 | 10,089,048 | 284,287,001 | 327,067,363 |

EXHIBIT J-32 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 512,473 | 167,568 | 892,325 | 141,127 | 401,091 | 2,321,469 | 4,436,052 |
| Hemet/San Jacinto | 240,860 | 182,148 | 300,505 | 123,983 | 237,623 | 1,230,272 | 2,315,390 |
| Northwest | 343,114 | 72,132 | 1,242,383 | 95,087 | 209,228 | 2,948,204 | 4,910,147 |
| Pass Area | 97,810 | 49,784 | 169,021 | 99,191 | 38,005 | 686,279 | 1,140,090 |
| Southwest | 489,337 | 213,047 | 855,596 | 102,212 | 899,166 | 3,728,179 | 6,287,536 |
| Outside WRCOG | 929,618 | 337,029 | 2,995,373 | 535,786 | 1,005,010 | 73,926,778 | 79,729,594 |
| TOTAL | 2,613,211 | 1,021,707 | 6,455,203 | 1,097,385 | 2,790,123 | 84,841,182 | 98,818,811 |

EXHIBIT J-33 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|-------------|
| Central | 1,880,395 | 276,656 | 795,067 | 71,544 | 612,328 | 807,406 | 4,443,395 |
| Hemet/San Jacinto | 352,830 | 880,778 | 130,769 | 96,181 | 260,151 | 326,742 | 2,047,451 |
| Northwest | 622,829 | 56,299 | 3,427,506 | 36,372 | 207,925 | 2,629,041 | 6,979,972 |
| Pass Area | 134,842 | 107,173 | 106,427 | 405,337 | 24,337 | 469,052 | 1,247,168 |
| Southwest | 668,400 | 250,661 | 415,972 | 25,982 | 3,211,934 | 895,954 | 5,468,902 |
| Outside WRCOG | 860,319 | 291,810 | 2,485,158 | 316,863 | 1,122,505 | 113,446,976 | 118,523,630 |
| TOTAL | 4,519,614 | 1,863,377 | 7,360,898 | 952,278 | 5,439,180 | 118,575,170 | 138,710,519 |

EXHIBIT J-34 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 174,447 | 7,678 | 30,955 | 627 | 25,718 | 8,507 | 247,933 |
| Hemet/San Jacinto | 17,752 | 72,546 | 411 | 1,316 | 5,281 | 149 | 97,455 |
| Northwest | 29,474 | 142 | 302,511 | 43 | 2,884 | 86,988 | 422,042 |
| Pass Area | 2,443 | 3,091 | 186 | 33,950 | 9 | 12,260 | 51,939 |
| Southwest | 31,524 | 4,932 | 6,180 | 10 | 291,076 | 1,879 | 335,600 |
| Outside WRCOG | 8,764 | 790 | 83,223 | 7,651 | 19,666 | 7,955,209 | 8,075,303 |
| TOTAL | 264,404 | 89,179 | 423,467 | 43,596 | 344,634 | 8,064,992 | 9,230,272 |

EXHIBIT J-35 VMT BY WRCOG TUMF ZONE DAILY NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|-----------|----------------------|-----------|-----------|-----------|------------------|------------|
| Central | 501,776 | 90,820 | 273,360 | 26,410 | 190,907 | 227,284 | 1,310,557 |
| Hemet/San Jacinto | 110,639 | 282,324 | 26,620 | 46,188 | 73,988 | 68,580 | 608,338 |
| Northwest | 221,166 | 12,450 | 1,141,014 | 9,929 | 49,713 | 945,886 | 2,380,158 |
| Pass Area | 51,183 | 51,361 | 27,984 | 191,114 | 5,224 | 197,603 | 524,469 |
| Southwest | 167,809 | 58,931 | 85,053 | 3,831 | 806,312 | 142,426 | 1,264,363 |
| Outside WRCOG | 239,471 | 55,876 | 992,911 | 116,119 | 290,402 | 66,124,436 | 67,819,215 |
| TOTAL | 1,292,044 | 551,761 | 2,546,941 | 393,592 | 1,416,547 | 67,706,215 | 73,907,099 |

EXHIBIT J-36 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

| To From | Central | Hemet/San Jacinto | Northwest | Pass Area | Southwest | Outside WRCOG | TOTAL |
|-------------------|---------|----------------------|-----------|-----------|-----------|------------------|-----------|
| Central | 48,855 | 32,492 | 110,531 | 645 | 7,286 | 71,756 | 271,565 |
| Hemet/San Jacinto | 5,642 | 31,221 | 9,033 | 414 | 1,197 | 13,626 | 61,132 |
| Northwest | 17,063 | 5,200 | 225,260 | 240 | 1,617 | 151,579 | 400,959 |
| Pass Area | 5,191 | 13,890 | 11,846 | 1,278 | 126 | 27,566 | 59,896 |
| Southwest | 61,077 | 77,629 | 144,261 | 870 | 82,752 | 401,549 | 768,138 |
| Outside WRCOG | 28,578 | 26,741 | 342,408 | 2,292 | 5,587 | 4,433,366 | 4,838,972 |
| TOTAL | 166,406 | 187,172 | 843,339 | 5,738 | 98,564 | 5,099,442 | 6,400,662 |

Appendix K - Residential Fee Calculation

In general, the fee for the TUMF program is calculated based on the following formula:



Applying this formula, Unit Cost Assumptions for the various eligible TUMF project types are used to estimate the overall cost to improve the TUMF Network as described in the TUMF Nexus Study. The resultant network improvement cost is then divided proportionally between various residential and non-residential development categories such that each new development type contributes its 'fair share' to the program. Any change in one formula variable has a related impact on the overall TUMF fee, although it is important to note that the resultant impact to the overall fee is not necessarily directly proportional to the formula variable change due to the intricacies of the fee calculation.

The residential fee was calculated by multiplying the estimated TUMF Network improvements cost attributable to mitigating the cumulative regional impacts of new development (**Section 4.0**) by the proportion of all regional trips that are generated by residential land uses (**Section 5.3**), and dividing this number by the projected increase in residential units between 2018 and 2045 (**Table 2.3**).

To account for the difference in trip generation rates between single-family residential units and multi-family residential units, the fee value was normalized for each of these housing types by first multiplying the proposed growth in households between 2018 and 2045 by the existing proportional share of each household type, and then multiplying the resultant values by the respective trip generation rate as published in the Institute of Traffic Engineers <u>Trip Generation Manual</u>, Eleventh Edition, 2021. The respective uniform fee values are presented in **Section 6.1**. **Exhibit K-1** details the calculation of the uniform single-family and multi-family residential fees (and non-residential fees).

On September 28, 2021, California Governor Gavin Newsome signed Assembly Bill 602 (AB 602) approving several changes to the Mitigation Fee Act, including the additional of §66016.5 to the California Government Code (CGC). §66016.5(a)(5)(A) states "A nexus study adopted after July 1, 2022, shall calculate a fee imposed on a housing development project proportionately to the square footage of proposed units of the development...." unless certain findings are made. These findings include:

- "(i) An explanation as to why square footage is not appropriate metric to calculate fees imposed on housing development project.
- (ii) An explanation that an alternative basis of calculating the fee bears a reasonable relationship between the fee charged and the burden posed by the development.

(iii) That other policies in the fee structure support smaller developments, or otherwise ensure that smaller developments are not charged disproportionate fees."

To address these provisions of AB 602, WRCOG analyzed the trip generation characteristics of both single-family and multi-family housing units of various sizes to determine whether there was a variation in trip generation rates based on housing unit size substantiating that TUMF should be imposed based on the square footage of the respective housing type. The findings of the analyses for single-family and multi-family, respectively, were summarized in technical memoranda that are included as **Exhibit K-2** for single-family residential units, and **Exhibit K-3** for multi-family residential units.

The findings of the analysis of single-family residential units, as presented in **Exhibit K-2**, indicates that the trip generation rates for these units do vary by housing size, especially for units of 2,500 square feet or less. The findings also noted that variations in trip generation characteristics tended to be more closely correlated to total household population, number of children and number of workers.

Figure 9 in **Exhibit K-2** illustrates Daily Vehicle Trips per Median Square Footage for Single-Family housing units. The figure generally reflects a linear increase in trip generation rate as housing size increases until the unit size reaches between 2,500 and 2,900 square feet, after which the trip generation rate stabilizes at approximately 10 to 12 trips per day. The figure also indicates some clustering of trip generation rates for housing units below 1,800 square feet, and similarly for housing units between 1,800 and 2,300 square feet. Based on these findings, WRCOG has determined that the fee for single-family residential units should be adjusted in four tiers to correlate to the trip generation characteristics associated with various ranges of single-family housing sizes to demonstrate compliance with AB 602.

To develop these tiers, WRCOG reviewed all single-family permits for which TUMF was assessed in the 2022/2023 Fiscal Year, which totaled 3,875 permits. These permit data indicated the square footage for these units ranged from 900 square feet to over 10,000 square feet with the majority of the units being between 1,800 square feet and 3,000 square feet. According to these data, the average square footage of these units was 2,300 square feet. WRCOG then examined the permit distribution to determine how units of various sizes should be grouped for the purposes of assessing TUMF to account for variations in the trip generation rates for single-family residential units of different sizes. An analysis of the different home sizes determined that it would be reasonable to stratify the home sizes into four tiers as presented in **Table K.1**. As indicated in **Table K.1**, approximately ½ of all single-family permits fall into Tier 1 and Tier 2 while the remaining ½ fall into Tier 3 and Tier 4.

Table K.1 – Single-Family Residential Unit Size Distribution in Western Riverside County (based on FY 2022/2023 Single-Family Residential Unit Permits Issued in Western Riverside County)

| Home Size Range (square feet) | Number of Permits | Percentage of Permits |
|-------------------------------|-------------------|-----------------------|
| Less than or equal to 1,800 | 451 | 12% |
| 1,801 to 2,300 | 1,409 | 36% |
| 2,301 to 2,700 | 1,121 | 29% |
| More than 2,700 | 894 | 23% |
| Total | 3,875 | 100% |

The tiers reflecting the adjustments to the standard uniform single-family residential fee per dwelling unit (as calculated in **Table 6.1**) for differing ranges of single-family unit sizes are summarized in **Table K.2**. Consistent with §66016.5(a)(5)(A), the adjustments to the standard single-family residential fee for each tier is roughly proportional to the relative trip generation rates for the units of varying sizes described in each tier. Furthermore, the assessment of the single-family residential fee at the adjusted levels would result in a roughly proportional fee collection for all single-family residential units compared to the assessment of a standard uniform fee across all single-family residential units. This ensures that new single-family residential units continue to contribute their fair share towards the cost of mitigating the cumulative regional impact of new development on the regional transportation system thereby maintaining the program nexus outlined in this document and represented by the fee schedule presented in Table 7.1.

Table K.2 – Single-Family Residential Fee Adjustments by Unit Size

| Adjustment Tier | Housing Unit Size Range (in square feet) | Standard Fee Adjustment |
|-----------------|------------------------------------------|-------------------------|
| Tier 1 | Less than or equal to 1,800 | 80% |
| Tier 2 | 1,801 to 2,300 | 90% |
| Tier 3 | 2,301 to 2,700 | 100% |
| Tier 4 | More than 2,700 | 125% |

Exhibit K-3 presents the findings for multi-family housing units. For multi-family residential units, the results indicate little variation in trip generation rates across the range of multi-family residential unit sizes prompting WRCOG to determine that the fee for multi-family residential units would be most appropriately imposed uniformly across all multi-family dwelling units, regardless of their size.

EXHIBIT K-1 Western Riverside County TUMF Estimate by Percent of TUMF Share Weighted by PM Peak Hour Trip Generation Rate Based on Needed Improvements to the Regional System of Highways and Arterials

| Residential | | Dwelling Units | | PM Peak Hour Trip | PM Peak Hour Trip | Percentage of PM Peak Hour Trip | | Fee/DU |
|---------------------------|-----------|----------------|-------------------|---------------------|---------------------------------|---------------------------------|---------------|---------------|
| Residential | 2018 | 2045 | Change | Generation Rate | Change | Change | | 166/50 |
| Single Family Residential | 397,407 | 564,898 | 167,491 | 0.99 | 165,816 | 78.6% | | \$15,476 |
| Multi Family Residential | 157,166 | 247,501 | 90,335 | 0.50 | 45,168 | 21.4% | | \$7,816 |
| Total | 554,573 | 812,399 | 257,826 | | 210,984 | 100.0% | | |
| Non-Residential | Employees | | PM Peak Hour Trip | Peak Hour Trip Char | Percentage of PM Peak Hour Trip | Change in SF of | Fee/SF of GFA | |
| Non-kesideniidi | 2018 | 2045 | Change | Generation Rate | reak noor inp Char | Change | GFA | ree/sr of GFA |
| Industrial | 169,334 | 245,915 | 76,581 | 0.6 | 45,949 | 15.1% | 61,489,565 | \$2.33 |
| Retail | 73,814 | 86,929 | 13,115 | 1.8 | 23,607 | 7.8% | 6,557,500 | \$11.21 |
| Service | 308,703 | 482,958 | 174,255 | 1.2 | 209,106 | 68.8% | 66,735,957 | \$9.76 |
| Government/Public Sector | 18,569 | 30,640 | 12,071 | 2.1 | 25,349 | 8.3% | 3,420,665 | \$23.07 |
| Total | 570,420 | 846,442 | 276,022 | | 304,011 | 100.0% | 138,203,688 | |

Notes:

- trip generation rates based on ITE Trip Generation 11th Edition (2021) rates for weekday PM peak hour by generator trip ends
- residential formula: [(TUMF cost share)(residential share of VMT) / (change in housing units)] * (percentage of trip change)
- $non-residential\ formula: \ [(TUMF\ cost\ share)(non-residential\ share\ of\ VMT)\ /\ (change\ in\ SF\ of\ GFA)]\ *\ (percentage\ of\ trip\ change)$

Calculation Inputs:

| residential share of daily VMT | 77.7% |
|----------------------------------------|-----------------|
| non-residential share of daily VMT | 22.3% |
| total regional mitigation cost | \$5,283,909,000 |
| existing obligated improvement funding | \$382,886,000 |
| unfunded existing need cost | \$646,931,000 |

| MAX TUMF VALUE | \$4,244,608,000 |
|-----------------------|-----------------|
| MAX TUMF SHARE | 80.3% |
| Residential Value | \$3,298,060,000 |
| Non-Residential Value | \$946,548,000 |

EXHIBIT K-2

[Single-Family] Residential Trip Generation Memorandum Fehr & Peers, November 16, 2022



Memorandum

Date: November 16, 2022

To: Suzanne Peterson, Christopher Gray, and Chris Tzeng – WRCOG

From: Mike Wallace, Eleanor Hunts, and Jason Pack – Fehr & Peers

Subject: WRCOG Residential Trip Generation

Contract No. 2022-65-1400-004 / Task Order No. 2022-65-1400-004-003

OC22- 0864

This memo summarizes the goals, data and analysis, key findings, and recommendations relating to the evaluation of vehicle trip generation and residential development characteristics. Specifically, this memo is intended to inform the Transportation Uniform Mitigation Fee (TUMF) guidelines on the relationship between residential trip generation and home size (square footage) as prescribed in California Assembly Bill 602 (AB 602). This draft memo will be followed-up with a phone call to discuss the recommendations and the memo will be revised and finalized based on the call.

Key Findings

Questions answered through the analysis and the findings are listed below.

- Is home size a key predictor of residential vehicle trip generation? Yes, for homes of 2,500 square feet or less the trips increase with the larger home size. After 2,500 square feet the number of trips stay constant with home size, all else being equal.
- Are there other characteristics that have a higher predictive relationship than home size?
 Yes, the trip generation increases with the total household population, average number of children, and average number workers. Home size accounts for approximately 50% of the increase in home size for homes less than 2,500 square feet with the remaining 50% explained by multiple factors of the people within the home.
- Does the location (i.e. TUMF zone) change the relationship of home size or the other characteristics? No, the home location may influence the size, number of people, or household income, and/or the distance the trips travel, but does not influence the trips generated.



Are there recommended changes to the TUMF based on the findings? If so, what is the
potential impact to the TUMF collection and home owners? Yes, it is recommended that
smaller homes pay a fee based on home size. The appropriate fee should be
evaluated by the TUMF fee consultant to determine the potential impact to fee
collected compared to the current fee expectation. Smaller homes paying less could
potentially make home ownership less expensive overall compared to larger homes.

Data Collection

This section describes the data that were used to evaluate the trip generation. Specifically, the identification and selection of study areas, method for obtaining and results of the travel activity, and collection of residential characteristics.

Study Area Selection

To determine the home characteristics that might influence trip generation, representative residential neighborhoods in each of the TUMF zones were identified. The criteria used for selecting neighborhoods included the following:

- Residential land use could be isolated from other uses
- Minimal cut through traffic
- As close to Census Blocks or Block Groups as possible to obtain demographic information
- Minimal construction activity that would change the number of units
- Diverse home size, household income

Based on local knowledge, aerial photos, Census geography, and home information from Zillow, WRCOG staff identified a preliminary list of potential study locations in each TUMF zone. Through discussions and review of each location, Fehr & Peers narrowed down the list of study locations to 23 neighborhoods, shown on **Figure 1**.

Travel Activity

StreetLight Data from smart phones were collected at 23 residential neighborhoods shown on Figure 1 were collected for trips that started or ended within each neighborhood. This method excluded trips that cut through the neighborhood. To avoid holidays, vacations, and to reflect travel when school is in session, data from March 1st through April 30th and September 1st through October 31st for all weekdays in 2019 were collected to represent the average vehicle trips per day for all homes within each study area.

Since StreetLight Data are based on location-based services (LBS) derived from cellular phone applications, 48-hour traffic counts were conducted at eight of the 23 study area locations as a point of comparison. The eight representative count locations were selected to have at least one



location in each TUMF zone, minimize the number of roadways accessing the land use, and to allow the most accurate representation of trips associated with the residential homes without capturing cut through traffic. The eight locations where 48-hour counts were collected are shown on **Figure 2**.

As shown on **Figure 3**, the 48-hour traffic count variation from day to day and the StreetLight Data average are very similar, giving confidence that the StreetLight Data for all study areas would be representative.

Residential Characteristics

The number of homes and characteristics for the homes within each study area were obtained from multiple sources, as summarized in **Table 1**. To identify outliers and the range of values for each variable that would be used to estimate the trip generation, plots of each study location by TUMF zone were developed and are summarized below with reference to the appropriate figure.

- **Figure 4 Median Square Footage**: good distribution across study areas and within each TUMF zone
- **Figure 5 Average Persons per Household**: good distribution across study areas and within each TUMF zone
- **Figure 6 Average Children per Household**: good distribution across study areas and within each TUMF zone, including one study area that has very high children per household and another study area that has very low children per household
- **Figure 7 Average Workers per Household:** good distribution across study areas and within each TUMF zone
- **Figure 8 Median Cost per Square Foot**: good distribution across study areas and within each TUMF zone

Based on the review of each variable, the range across the study areas and within each TUMF zone are appropriate for use in the trip generation analysis.

Trip Generation Results

The StreetLight Data daily vehicle trips were used to visually display the relationship of each home characteristic for each study area and within each TUMF zone. The appropriate figure number and conclusion for the relationship are listed below.

- Figure 9 Daily Vehicle Trips per Median Square Footage: slight increase in vehicle trips as median square footage increases
- Figure 10 Daily Vehicle Trips per Average Persons per Household: slight increase in vehicle trips as total number of people per household increases



- Figure 11 Daily Vehicle Trips per Average Children per Household: slight increase in vehicle trips as average number of children per household increases
- Figure 12 Daily Vehicle Trips per Average Workers per Household: slight increase in vehicle trips as average number of workers per household increases
- Figure 13 Daily Vehicle Trips per Median Cost per Square Foot: no clear relationship between average number of workers and trip generation

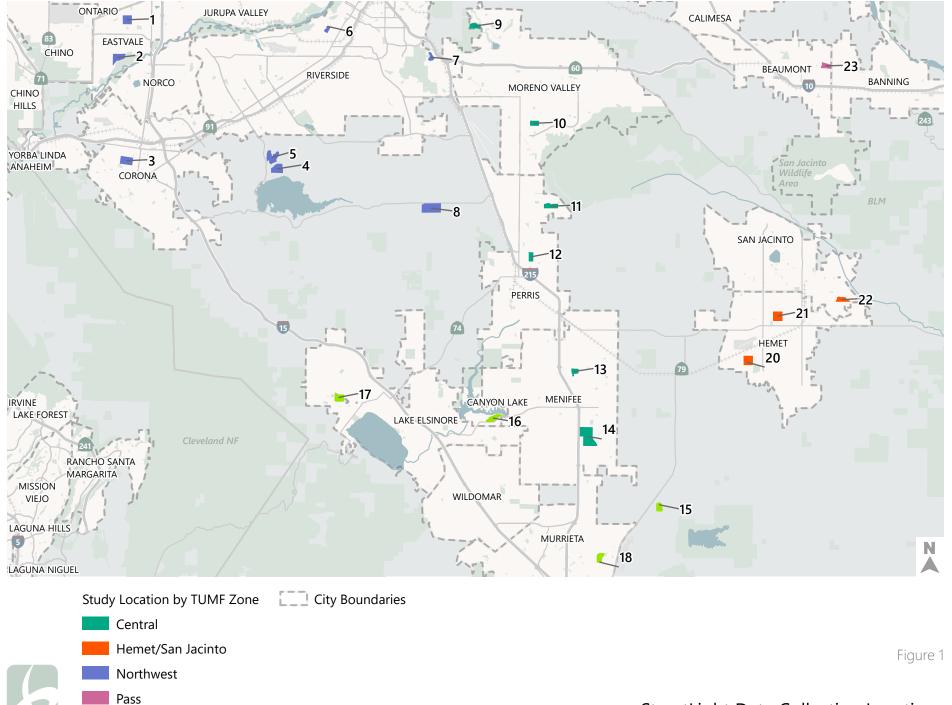
In addition to visual representations of the data, statistical analysis was performed to obtain the correlation between the variables to daily vehicle trips and to determine the regression equations.

Figure 16 – Correlation Matrix for All Variables: the correlation values in the green box for average and median home size of 0.7 indicate a strong positive correlation and mean as home size increases the number of trips increase. The correlation value of 0.7 results in an R-square of 0.49, meaning nearly half of the increase in trip generation is related to home size.

Based on Figures 10 and 11, the relationship between trip generation appeared to be linear, with the relationship possibly changing around 2,500 square feet. The linear regression analysis of average home size was performed for all home sizes, homes 2,500 square feet or smaller, and homes larger than 2,500 square feet. The results of the analysis are summarized in **Table 2**. The results show for home sizes of 2,500 square feet or less, the influence of the home size (represented by the coefficient) is nearly double that when all home sizes are included in the regression. The nearly zero coefficient and very high constant for the regression of home sizes above 2.500 square feet indicate that the trip generation is nearly constant for homes above 2,500 square feet.

Recommendations and Next Steps

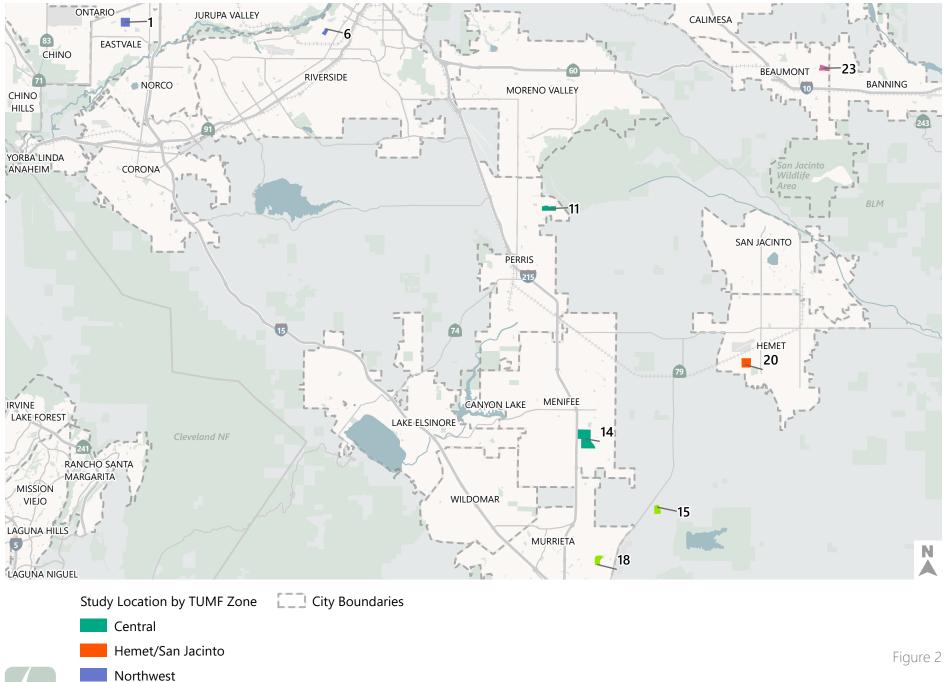
Although home characteristics other than square footage have a slight increase in trip generation, the ability to forecast or control all of the characteristics other than home square footage is very difficult. Based on the results of trip generation and discussions with WRCOG regarding the feasible size of homes being constructed in the region, WRCOG will work with the TUMF fee consultant to identify and recommend appropriate fee adjustments based on square footage.





Southwest

StreetLight Data Collection Locations





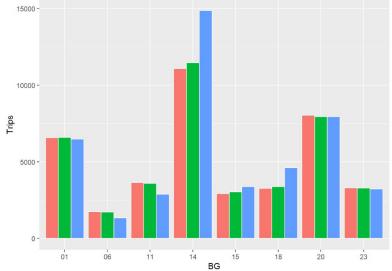
Pass

Southwest

Traffic Count Data Collection Locations



Figure 3 – Comparison of Individual Traffic Counts and StreetLight Data Average



Note: Red and green are the two days of manual count collection and blue are the StreetLight Data average. The BG number corresponds to the number on Figure 2.

Central Hemet/San Jacinto NW Pass Southwest

Figure 4 – Median Square Footage



Figure 5 – Average Persons per Household

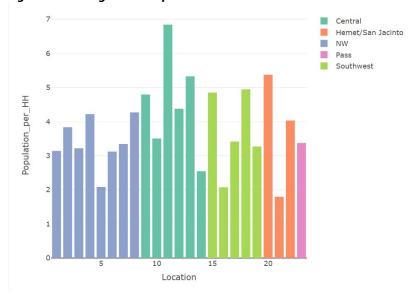


Figure 6 – Average Children per Household

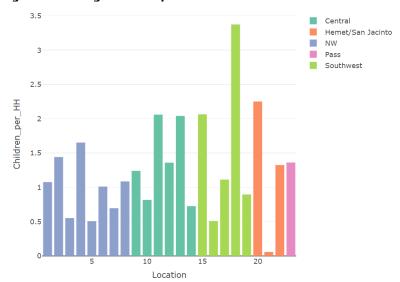




Figure 7 – Average Workers per Household

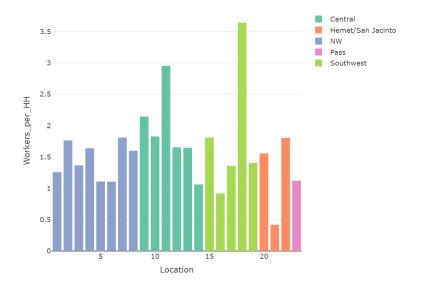
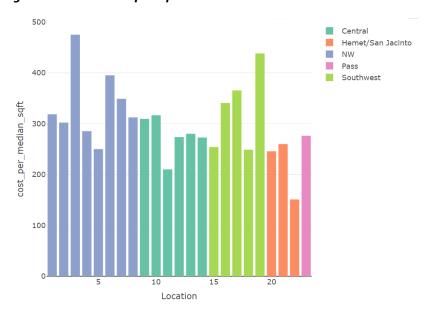
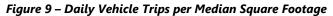


Figure 8 – Median Cost per Square Foot







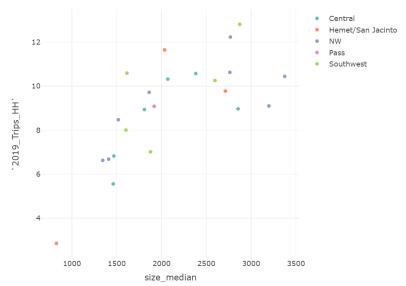
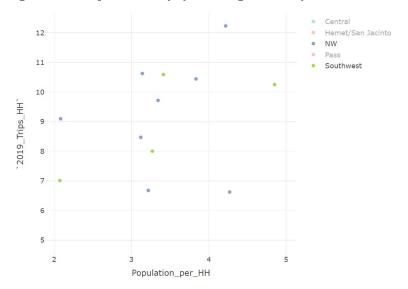


Figure 10 – Daily Vehicle Trips per Average Persons per Household







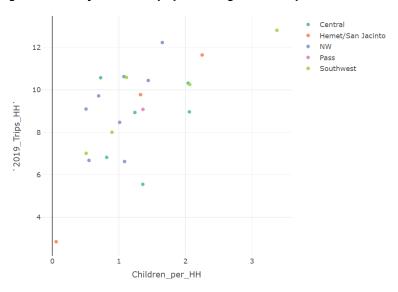
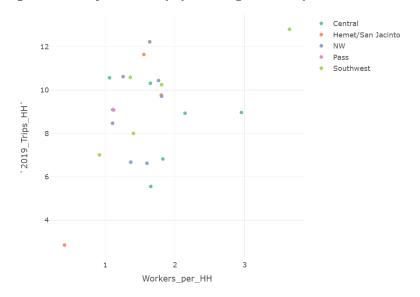
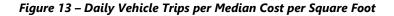


Figure 12 – Daily Vehicle Trips per Average Workers per Household







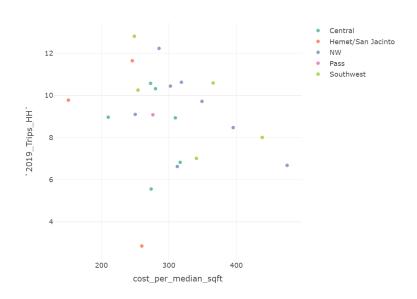


Figure 14 – Correlation Matrix for All Variables

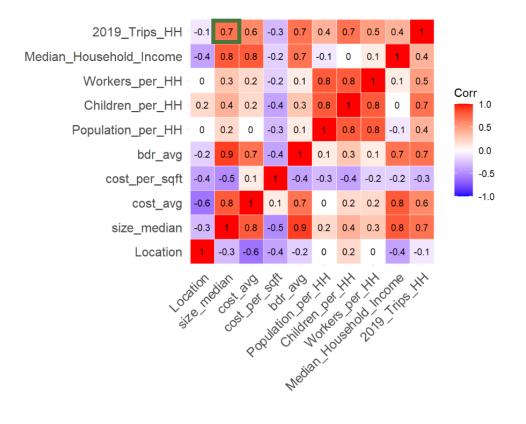




Table 1: Residential Home Data and Sources

| Value | Source |
|------------------------------|-----------------------|
| Median Home Size | Zillow |
| Average Home Rooms | Zillow |
| Average Household Population | ACS 5 year and 1 year |
| Average Number of Children | ACS 5 year and 1 year |
| Average Number of Workers | ACS 5 year and 1 year |
| TUMF Zone | WRCOG |
| Average Household Income | ACS 5 year and 1 year |

Table 2: Daily Total Vehicle Trip Regression Equation Summary

| Home Size Variable | Coefficient | Constant | R-Squared | |
|--------------------------|-------------|----------|-----------|--|
| All home sizes | | | | |
| Median Home Size (KSF) | 2.26 | 4.22 | 0.507 | |
| Homes 2.5 KSF or smaller | | | | |
| Median Home Size (KSF) | 4.11 | 1.22 | 0.553 | |
| Homes over 2.5 KSF | | | | |
| Median Home Size (KSF) | -0.3 | 11.57 | 0.007 | |

Notes: KSF= Thousand Square Feet

Regression Equations

All home sizes.

Daily total vehicle trips = 2.26 * Median Home Size in Thousand Square Feet + 4.22

Homes I 2.50 thousand square feet or less.

Daily total vehicle trips = 4.11 * Median Home Size in Thousand Square Feet + 1.22

Homes more than 2.50 thousand square feet.

Daily total vehicle trips = -0.3 * Median Home Size in Thousand Square Feet + 11.57

EXHIBIT K-3

Multi-Family Residential Counts and Trip Generation Memorandum Fehr & Peers, May 12, 2023



Memorandum

Date: May 12, 2023

To: Christopher Gray - WRCOG

Chris Tzeng - WRCOG

From: Jason D. Pack, P.E.

Delia Votsch, P.E. Raymond Poss

Subject: DRAFT TUMF Multifamily Residential Counts and Trip Generation

Task Order No. 2022-65-1400-004-007

OC23-0955

This memorandum summarizes the goals, data collection and analyses, key findings, and recommendations regarding the evaluation of multifamily development characteristics and trip generation. This memo is intended to inform the Western Riverside Council of Governments (WRCOG) Transportation Uniform Mitigation Fee (TUMF) guidelines on the relationship between multifamily trip generation, number of bedrooms per dwelling unit, and average size of dwelling unit.

Key Findings

Questions answered through the data analyses and findings are listed below.

- Are the size of the dwelling unit or number of bedrooms in a dwelling unit key predictors
 of residential multifamily trip generation? No, the size of dwelling unit nor the number
 of bedrooms in a dwelling unit are key predicters of trip generation.
- Are there other characteristics that have a higher predictive relationship than the number of dwelling units? No, the number of dwelling units has the highest predictive relationship.
- Are there recommended changes to the TUMF program or fee calculations based on the findings? If so, what is the potential impact to the TUMF collection process and to developers? No, it is not recommended that TUMF be updated from basing multifamily development fees on number of dwelling units.



Background

Western Riverside Council of Governments (WRCOG) provides local roadway funding in part through collection of fees through the Transportation Uniform Mitigation Fee (TUMF) program as part of new developments. These fees vary based on the level of impact the new development will have on traffic as determined by the characteristics of the development. The impact fee for multifamily residential developments is currently determined by the number of dwelling units (DUs).

As required by new state legislature (AB-602), agencies are required to account for the size of the dwelling unit when developing impact fees. As such, Fehr & Peers was contracted to evaluate the relationship between trips generated by multifamily apartment complexes to determine if attributes other than number of dwelling units, including number bedrooms per dwelling unit and average size of dwelling unit, significantly affect trip generation.

Data Collection

This section describes the data used to evaluate multifamily trip generation, including the selection of locations and methods for collecting trip data, apartment characteristics, and regional Census data.

Study Selection Area

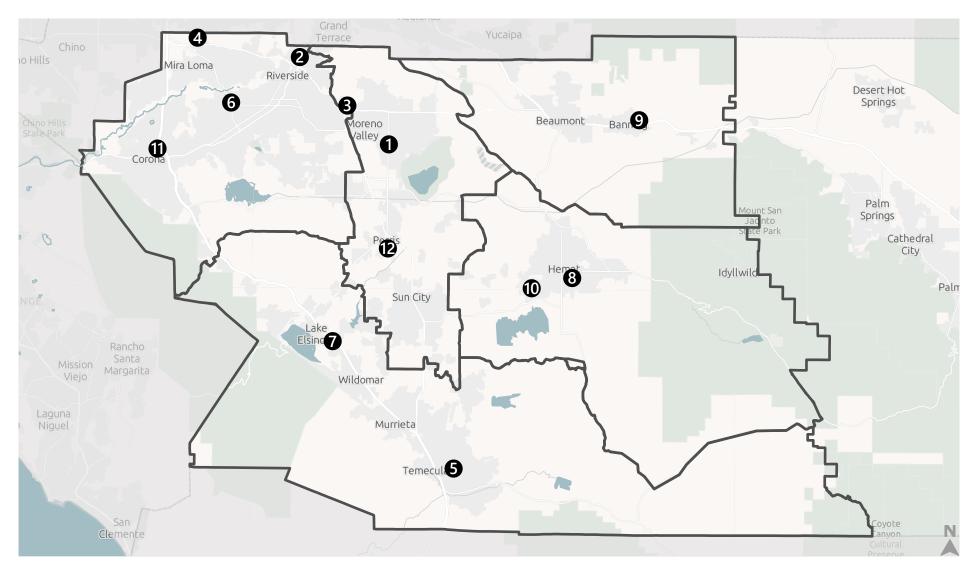
To evaluate the effect of dwelling unit size and number of dwelling unit bedrooms on multifamily trip generation, the following criteria were used to select the apartment complexes within Western Riverside County:

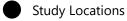
- Minimum of one complex per TUMF Zone (five zones total)
- Complexes not within a Transit Priority Area (TPA)
- Complexes not near a college or university

Through discussions and review of each location with WRCOG, Fehr & Peers narrowed the study locations to 12 multifamily apartment complexes as shown on **Figure 1**.

Travel Activity

Trips were observed at each of the 12 complexes by collecting vehicle counts during typical weekdays at each driveway over a three-day period. Trip observations for each complex were averaged over the three-day period and summarized below in **Table 1** for Daily, AM Peak Period, and PM Peak Period counts. Raw data counts taken over the three-day period can be found **Appendix A**.





TUMF Zone Boundary





Table 1: Multifamily Complex Trip Observations

| Ctuali | | C | Paily Trip | os | | AM Peak | | | PM Peak | | |
|-----------------|------------------------------------|-------|------------|-------|--------------|---------|-------|--------------|---------|-------|--|
| Study Site # | Location Name | Trips | % In | % Out | Trip Rate | In % | Out % | Trip Rate | In % | Out % | |
| 1 | Oakwood Apartments | 2,089 | 50% | 50% | 168 | 40% | 60% | 170 | 56% | 44% | |
| 2 | Springbrook Park Apartments | 841 | 50% | 50% | 68 | 34% | 66% | 69 | 58% | 42% | |
| 3 | Vista Springs Apartments | 1,117 | 49% | 51% | 106 | 36% | 64% | 82 | 55% | 45% | |
| 4 | Vesada Apartment Homes | 1,625 | 50% | 50% | 126 | 35% | 65% | 126 | 62% | 38% | |
| 5 | Morning Ridge Apartments | 1,130 | 51% | 49% | 88 | 30% | 70% | 102 | 59% | 41% | |
| 6 | Stonegate Apartments | 952 | 56% | 44% | 67 | 42% | 58% | 81 | 64% | 36% | |
| 7 | River's Edge Apartment Homes | 1,045 | 50% | 50% | 93 | 34% | 66% | 91 | 57% | 43% | |
| 8 | Mayberry Colony Apartments | 616 | 50% | 50% | 49 | 39% | 61% | 54 | 52% | 48% | |
| 9 | Summit Ridge Apartments | 777 | 50% | 50% | 67 | 39% | 61% | 57 | 54% | 46% | |
| 10 | Riverdale Apartments | 737 | 50% | 50% | 65 | 32% | 68% | 67 | 57% | 43% | |
| 11 | Parkridge Meadows Apartments | 744 | 50% | 50% | 58 | 34% | 66% | 54 | 63% | 37% | |
| 12 | Hunt Club Apartments | 1,422 | 51% | 49% | 143 | 36% | 64% | 106 | 60% | 40% | |



Residential Characteristics

Apartment characteristics, listed below, were obtained from a variety of sources, including conversations with apartment leasing agents, property webpages, Census data, Zillow.com, and the Assessor's Office of Riverside County web page.

- Number of dwelling units
- Number of apartment styles (i.e., number of one-bedroom units, two-bedroom units, etc.)
- Average size (square footage) of dwelling units
- Average number of bedrooms per dwelling unit
- Median monthly household income by Census Tract
- Average number of persons per household by Census Tract
- Proximity to nearest public school

The average size of each dwelling unit was calculated by dividing the total size of all combined dwelling units by the total number of dwelling units. Similarly, the average number of bedrooms per dwelling unit were calculated by dividing the total number of bedrooms by the number of dwelling units. These apartment characteristics are shown below in **Table 2**. Specific information related to each apartment complex are provided in **Appendix B**.



Table 2: Apartment Characteristics

| Study Site # | Location Name | # of DUs | Average Size of DU (Sq. Ft.) | Average Number of Bedrooms | Median Monthly Household Income (Dollars) | Average # of Persons per Household | Proximity to Nearest School (Mi) |
|-----------------|------------------------------------|-------------|------------------------------------|----------------------------------|-------------------------------------------------------|---------------------------------------------|----------------------------------------------|
| 1 | Oakwood Apartments | 241 | 1,040 | 3.0 | \$65,240 | 3.92 | 0.2 |
| 2 | Springbrook Park Apartments | 112 | 955 | 2.0 | \$77,148 | 3.6 | 0.5 |
| 3 | Vista Springs Apartments | 212 | 822 | 1.5 | \$74,333 | 3.3 | 0.7 |
| 4 | Vesada Apartment Homes | 261 | 938 | 1.7 | \$79,199 | 4.53 | 1.1 |
| 5 | Morning Ridge Apartments | 200 | 850 | 1.6 | \$63,279 | 2.73 | 0.6 |
| 6 | Stonegate Apartments | 160 | 802 | 1.5 | \$68,250 | 3.14 | 0.7 |
| 7 | River's Edge Apartment Homes | 184 | 918 | 1.5 | \$78,222 | 3.74 | 0.4 |
| 8 | Mayberry Colony Apartments | 89 | 896 | 1.6 | \$51,653 | 3.71 | 0.7 |
| 9 | Summit Ridge Apartments | 80 | 529 | 2.5 | \$43,100 | 3.47 | 0.3 |
| 10 | Riverdale Apartments | 96 | 1,015 | 2.6 | \$87,532 | 4.33 | 0.3 |
| 11 | Parkridge Meadows Apartments | 88 | 771 | 2.0 | \$74,886 | 3.53 | 0.1 |
| 12 | Hunt Club Apartments | 203 | 962 | 2.0 | \$58,200 | 4.5 | 0.8 |

Sources: Fehr & Peers (2023), U.S. Census Bureau 5-Year American Community Survey (2016-2021), Zillow.com (2023), Riverside County Assessor (2023)



Trip Generation Analysis

Using the data described above, a statistical analysis, including a regression and correlation assessment, was performed to evaluate if a statistically significant relationship exists between multifamily trip generation and the following variables to determine if an update to the development fee calculation was justified.

- Number of dwelling units
- Average size of dwelling units
- Average number of bedrooms per dwelling unit
- Median monthly income
- Average number of persons per household
- Proximity to nearest public school

Correlation Analysis

A correlation analysis was also performed to determine if a one-to-one relationship exists between daily trip generation and an apartment characteristic listed above. **Figure 2**, below, shows the results of the correlation analysis, with darker green cells representing a stronger, positive correlation.

The correlation analysis indicates that daily trip generation has a **strong**, **positive correlation** with the number of dwelling units and a **moderate**, **positive correlation** with average size of dwelling unit. All other variables are indicated to have a weak or very weak positive correlation with trip generation.



Figure 2: Trip Generation Correlation Matrix

| | Total Vehicles | # of DUs | Average # of Bedrooms per DU | Average DU Size (Sq. Ft.) | Median Monthly Income | Average Household Size | Proximity to Nearest School |
|---------------------------------------|-------------------|-------------|---------------------------------------|---------------------------------|-----------------------------|------------------------------|--------------------------------------|
| Total Vehicles | 1.00 | 0.87 | 0.29 | 0.46 | 0.06 | 0.34 | 0.21 |
| # of DUs | 0.87 | 1.00 | -0.17 | 0.43 | 0.20 | 0.18 | 0.51 |
| Average # of Bedrooms per DU | 0.29 | -0.17 | 1.00 | 0.13 | -0.09 | 0.36 | -0.60 |
| Average DU Size (Sq. Ft.) | 0.46 | 0.43 | 0.13 | 1.00 | 0.55 | 0.51 | 0.16 |
| Median Monthly Income | 0.06 | 0.20 | -0.09 | 0.55 | 1.00 | 0.25 | -0.02 |
| Average Household Size | 0.34 | 0.18 | 0.36 | 0.51 | 0.25 | 1.00 | 0.21 |
| Proximity to Nearest School | 0.21 | 0.51 | -0.60 | 0.16 | -0.02 | 0.21 | 1.00 |

Regression Analysis

An ordinary least squares regression at a 95% confidence interval was performed on the above variables against daily trip generation to screen out variables that yielded statistically insignificant results. The results of the first regression are shown in **Table 3**.



Table 3: Regression Results

| Variable | P-Value ¹ | Statistically Significant |
|-------------------------------------------------|----------------------|---------------------------|
| Number of dwelling units | <0.05 | Yes |
| Average size (square footage) of dwelling units | >0.05 | No |
| Average number of bedrooms per dwelling unit | <0.05 | Yes |
| Median monthly household income | >0.05 | No |
| Average number of persons per household | >0.05 | No |
| Proximity to nearest public school | >0.05 | No |

A subsequent regression was run with the least statistically significant (highest P-value) variable removed. This process was repeated until all remaining variables yielded statistically significant P-values (less than 0.05), resulting in the number of dwelling units and average size of dwelling unit as the remaining variables. The P-Values for these variables are shown below in **Table 4**.

Table 4: Filtered Regression Results

| Variable | P-Value ¹ | Statistically Significant |
|-------------------------------------------------|-----------------------|---------------------------|
| Number of dwelling units | 4.8x10 ⁻⁰⁷ | Yes |
| Average size (square footage) of dwelling units | 0.0002 | Yes |

Source: Fehr & Peers (2023)

The regression analysis indicates that **number of dwelling units** and **average size of dwelling unit are statistically significant predictors of multifamily trip generation**.

To validate these results, a forward stepwise regression was also completed. A forward stepwise regression is completed by beginning with no variables in the model, and then adding them one at a time based on which has the smallest p-value when tested one at a time. This isolates any possible relationships between the variables and further helps confirm if the vehicle trip rate has a statistically valid correlation to the variables tested.

^{1.} P-Values < 0.05 are considered statistically significant. P-Values > 0.05 are considered statistically insignificant.

^{1.} P-Values < 0.05 are considered statistically significant. P-Values > 0.05 are considered statistically insignificant.



Table 5: Forward Stepwise Regression Results

| Variable | Relationship Rank ¹ | P-Value ² | Statistically Significant |
|-------------------------------------------------|--------------------------------|----------------------|------------------------------|
| Average size (square footage) of dwelling units | 4 | 0.377 | Yes |
| Average number of bedrooms per dwelling unit | 1 | 0.0008 | No |
| Median monthly household income | 3 | 0.249 | Yes |
| Average number of persons per household | 5 | 0.509 | Yes |
| Proximity to nearest public school | 2 | 0.0239 | No |

- 1. Relationship rank indicates which variable has the strongest correlation with daily vehicle trip rate.
- 2. P-Values < 0.05 are considered statistically significant. P-Values > 0.05 are considered statistically insignificant.

As noted in Table 5, the variables with the strongest relationship to daily vehicle trip rate (number of bedrooms and distance to nearest school) are not statistically significant.

Trip Generation Results

In both the regression and correlation analyses, the number of dwelling units was found to be the strongest predictor of daily trip generation. All other variables had positive but weaker correlations to daily trip generation, and none were found to be statistically significant predictors of multifamily daily trip generation under both regression analyses.

Table 6: Summary of Trip Generation Results

| Variable | Overall Relationship | Statistically Significant | | | |
|-------------------------------------------------|----------------------|---------------------------|--------------------|--|--|
| variable | Ranking ¹ | Filtered Regression | Forward Regression | | |
| Number of Dwelling Units | 1 | Yes | Yes | | |
| Average number of bedrooms per dwelling unit | 2 | Yes | No | | |
| Proximity to nearest public school | 3 | No | No | | |
| Average size (square footage) of dwelling units | 4 | No | Yes | | |
| Average number of persons per household | 5 | No | Yes | | |
| Median monthly household income | 6 | No | Yes | | |

Source: Fehr & Peers (2023)

1. Overall relationship rank indicates which variable has the strongest relationship with daily vehicle trip rate under the correlation and forward stepwise regression analyses.



Recommendations and Next Steps

The results of this statistical analysis indicate that the best predictor of trip generation for multifamily apartment complexes in Western Riverside County is the number of dwelling units (the current basis for development fee calculation). Although other variables showed a positive correlation with trip generation, none yielded as strong a relationship. Based on this statistical analysis, it is not recommended that these other variables be incorporated into the TUMF program.



Appendix A: Three-Day Trip Observations

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS79 Southern Dwy east of Perris.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|---|--------|---|---|-------|----------------|--------|--------|----|--------|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 1 | 0 | 1 | 0 | 0 | 2 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 0 | 2 | 0 | 0 | 0 | 2 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 2 | 2 | 0 | 0 | 0 | 4 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 0 | | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 0 | 0 | 0 | 0 | 0 | 0 2 |
| 6:15 6:30 | 0 0 | 0 | 0 0 | 0 | 0 | 0 | 18:15 18:30 | 2 1 | 0 0 | 0 | 0 0 | 0 | 1 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 3 | 1 | 0 | 0 | 0 | 4 |
| 7:15 | 0 | 3 | 0 | 0 | 0 | 3 | 19:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 19:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 19:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 | 0 | 0 | 0 | 0 | 0 | 0 | 20:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 20:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 20:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:15 | 2 | 0 | 0 | 0 | 0 | 2 | 21:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:30 | 2 | 1 | 0 | 0 | 0 | 3 | 21:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:45 | 0 | 0 | 0 | 0 | 0 | 0 | 21:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 1 | 1 | 0 | 0 | 0 | 2 | 22:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 1 | 0 | 0 | 0 | 0 | 1 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 1 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 1 | 0 | 0 | 0 | 0 | 1 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 1 | 0 | 0 | 0 | 0 | 1 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 17 | 5 | 0 | 0 | 0 | 22 | TOTAL | 29 | 6 | 1 | 0 | 0 | 36 |

AM PEAK HOUR 9:15 AM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 46 | 11 | 1 | 0 | 0 | 58 |
|--------------|-------|-------|------|------|------|--------|
| % OF TOTAL | 79.3% | 19.0% | 1.7% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 1 | 3 | 0 | 0 | 0 | 4 |
| PM PEAK | 5 | 0 | 0 | 0 | 0 | 5 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS79 Southern Dwy east of Perris.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|--------|---|--------|---|---|-------|----------------|-----|---|--------|--------|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 1 | 0 | 1 | 0 | 0 | 2 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 0 | 2 | 0 | 0 | 0 | 2 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 1 | 1 | 0 | 0 | 0 | 2 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 3 | 1 | 0 | 0 | 0 | 4 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:15 6:30 | 0 0 | 0 | 0 0 | 0 | 0 | 0 | 18:15 18:30 | 1 3 | 0 | 0 0 | 0 0 | 0 | 1 3 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 2 | 1 | 0 | 0 | 0 | 3 |
| 7:15 | 0 | 3 | 0 | 0 | 0 | 3 | 19:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 19:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 19:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 | 0 | 0 | 0 | 0 | 0 | 0 | 20:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 20:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 20:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:15 | 2 | 0 | 0 | 0 | 0 | 2 | 21:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:30 | 2 | 1 | 0 | 0 | 0 | 3 | 21:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:45 | 0 | 0 | 0 | 0 | 0 | 0 | 21:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 1 | 1 | 0 | 0 | 0 | 2 | 22:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 2 | 0 | 0 | 0 | 0 | 2 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 1 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 1 | 0 | 0 | 0 | 0 | 1 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 1 | 0 | 0 | 0 | 0 | 1 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 19 | 5 | 0 | 0 | 0 | 24 | TOTAL | 32 | 6 | 1 | 0 | 0 | 39 |

AM PEAK HOUR 9:15 AM AM PEAK VOLUME

| CLASS 3 | 2-AXLE TRUCKS 3-AXLE TRUCKS |
|--------------------|----------------------------------|
| CLASS 4 CLASS 5 | 4-AXLE TRUCKS 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 51 | 11 | 1 | 0 | 0 | 63 |
|--------------|-------|-------|------|------|------|--------|
| % OF TOTAL | 81.0% | 17.5% | 1.6% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 1 | 3 | 0 | 0 | 0 | 4 |
| PM PEAK | 6 | 0 | 0 | 0 | 0 | 6 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS80 Northern Dwy east of Perris.

| O:00 O:15 O:30 O:45 | 9 6 20 | 2 0 | IN 3 | 4 | 5 | | PM | | | IN | | | |
|------------------------------|--------------|--------|---------|---|---|----------|----------------|----------|----|----|---|---|----------|
| 0:15 0:30 | 6 | 0 | | | | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:15 0:30 | 6 | U | 0 | 0 | 0 | 9 | 12:00 | 35 | 0 | 0 | 0 | 0 | 35 |
| 0:30 | | 0 | 0 | 0 | 0 | 6 | 12:15 | 42 | 1 | 0 | 0 | 0 | 43 |
| | 20 | 0 | 0 | 0 | 0 | 20 | 12:30 | 36 | 1 | 1 | 0 | 0 | 38 |
| | 12 | 0 | 0 | 0 | 0 | 12 | 12:45 | 58 | 0 | 0 | 0 | 0 | 58 |
| 1:00 | 16 | 0 | 0 | 0 | 0 | 16 | 13:00 | 44 | 0 | 0 | 0 | 0 | 44 |
| 1:15 | 5 | 0 | 0 | 0 | 0 | 5 | 13:15 | 39 | 1 | 0 | 0 | 0 | 40 |
| 1:30 | 5 | 0 | 0 | 0 | 0 | 5 | 13:30 | 38 | 0 | 0 | 0 | 0 | 38 |
| 1:45 | 7 | 0 | 0 | 0 | 0 | 7 | 13:45 | 55 | 0 | 0 | 0 | 0 | 55 |
| 2:00 | 7 | 0 | 0 | 0 | 0 | 7 | 14:00 | 44 | 0 | 0 | 0 | 0 | 44 |
| 2:15 | 2 | 0 | 0 | 0 | 0 | 2 | 14:15 | 65 | 0 | 0 | 0 | 0 | 65 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 51 | 0 | 0 | 0 | 0 | 51 |
| 2:45 | 4 | 0 | 0 | 0 | 0 | 4 | 14:45 | 63 | 0 | 0 | 0 | 0 | 63 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 53 | 0 | 0 | 0 | 0 | 53 |
| 3:15 | 2 | 0 | 0 | 0 | 0 | 2 | 15:15 | 64 | 2 | 0 | 0 | 0 | 66 |
| 3:30 | 5 | 0 | 0 | 0 | 0 | 5 | 15:30 | 66 | 2 | 0 | 0 | 0 | 68 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 75 | 1 | 0 | 0 | 0 | 76 |
| 4:00 | 6 | 0 | 0 | 0 | 0 | 6 | 16:00 | 73 | 0 | 0 | 0 | 0 | 73 |
| 4:15 | 9 | 0 | 0 | 0 | 0 | 9 | 16:15 | 67 | 0 | 0 | 0 | 0 | 67 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 62 | 0 | 0 | 0 | 0 | 62 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 80 | 0 | 0 | 0 | 0 | 80 |
| 5:00 | 8 | 0 | 0 | 0 | 0 | 8 | 17:00 | 48 | 2 | 0 | 0 | 0 | 50 |
| 5:15 | 7 | 0 | 0 | 0 | 0 | 7 | 17:15 | 68 | 0 | 0 | 0 | 0 | 68 |
| 5:30 | 5 | 0 | 0 | 0 | 0 | 5 | 17:30 | 53 | 0 | 0 | 0 | 0 | 53 |
| 5:45 | 11 | 0 | 0 | 0 | 0 | 11 | 17:45 | 60 | 0 | 0 | 0 | 0 | 60 |
| 6:00 | 9 | 0 | 0 | 0 | 0 | 9 | 18:00 | 79 | 0 | 0 | 0 | 0 | 79 |
| 6:15 | 11 | 0 | 0 | 0 | 0 | 11 | 18:15 | 70 | 0 | 0 | 0 | 0 | 70 |
| 6:30 | 8 | 0 | 0 | 0 | 0 | 8 | 18:30 | 60 | 0 | 0 | 0 | 0 | 60 |
| 6:45 | 13 | 0 | 0 | 0 | 0 | 13 | 18:45 | 54 | 0 | 0 | 0 | 0 | 54 |
| 7:00 | 10 | 0 | 0 | 0 | 0 | 10 | 19:00 | 53 | 0 | 0 | 0 | 0 | 53 |
| 7:15 | 29 | 0 | 0 | 0 | 0 | 29 | 19:15 | 43 | 0 | 0 | 0 | 0 | 43 |
| 7:30 | 48 | 0 | 0 | 0 | 0 | 48 | 19:30 | 38 | 0 | 0 | 0 | 0 | 38 |
| 7:45 8:00 | 70 52 | 0 0 | 0 | 0 | 0 | 70 | 19:45 20:00 | 35 48 | 0 | 0 | 0 | 0 | 35 48 |
| 8:00 8:15 | 52 27 | 0 | 0 | 0 | 0 | 52 27 | 20:00 20:15 | 38 | 0 | 0 | 0 | 0 | 48 38 |
| 8:30 | 52 | 0 | 0 | 0 | 0 | 52 | 20:15 | 38 | 0 | 0 | 0 | 0 | 38 |
| 8:45 | 36 | 0 | 1 | 0 | 0 | 37 | 20:45 | 32 | 0 | 0 | 0 | 0 | 32 |
| 9:00 | 21 | 1 | 0 | 0 | 0 | 22 | 21:00 | 47 | 0 | 0 | 0 | 0 | 32 47 |
| 9:15 | 19 | 1 | 0 | 0 | 0 | 20 | 21:15 | 36 | 0 | 0 | 0 | 0 | 36 |
| 9:30 | 22 | 0 | 0 | 0 | 0 | 22 | 21:30 | 35 | 0 | 0 | 0 | 0 | 35 |
| 9:45 | 29 | 1 | 0 | 0 | 0 | 30 | 21:45 | 25 | 0 | 0 | 0 | 0 | 25 |
| 10:00 | 28 | 1 | 0 | 0 | 0 | 29 | 22:00 | 35 | 0 | 0 | 0 | 0 | 35 |
| 10:15 | 24 | 0 | 0 | 0 | 0 | 24 | 22:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 10:30 | 24 | 0 | 0 | 0 | 0 | 24 | 22:30 | 23 | 0 | 0 | 0 | 0 | 23 |
| 10:45 | 35 | 0 | 0 | 0 | 0 | 35 | 22:45 | 21 | 0 | 0 | 0 | 0 | 21 |
| 11:00 | 31 | 0 | 0 | 0 | 0 | 31 | 23:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 11:15 | 16 | 0 | 0 | 0 | 0 | 16 | 23:15 | 30 | 0 | 0 | 0 | 0 | 30 |
| 11:30 | 20 | 0 | 0 | 0 | 0 | 20 | 23:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:45 | 29 | 3 | 0 | 0 | 0 | 32 | 23:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| TOTAL | 815 | 7 | 1 | 0 | 0 | 823 | TOTAL | 2,246 | 10 | 1 | 0 | 0 | 2,257 |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 201

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 3,061 | 17 | 2 | 0 | 0 | 3,080 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.4% | 0.6% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 201 | 0 | 0 | 0 | 0 | 201 |
| PM PEAK | 282 | 0 | 0 | 0 | 0 | 282 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS80 Northern Dwy east of Perris.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|----------|--------|-----|--------|---|----------|----------------|----------|--------|--------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 5 | 1 | 0 | 0 | 0 | 6 | 12:00 | 59 | 1 | 0 | 0 | 0 | 60 |
| 0:15 | 8 | 0 | 0 | 0 | 0 | 8 | 12:15 | 38 | 2 | 0 | 0 | 0 | 40 |
| 0:30 | 7 | 0 | 0 | 0 | 0 | 7 | 12:30 | 34 | 0 | 0 | 0 | 0 | 34 |
| 0:45 | 7 | 0 | 0 | 0 | 0 | 7 | 12:45 | 32 | 1 | 0 | 0 | 0 | 33 |
| 1:00 | 5 | 1 | 0 | 0 | 0 | 6 | 13:00 | 40 | 0 | 0 | 0 | 0 | 40 |
| 1:15 | 6 | 0 | 0 | 0 | 0 | 6 | 13:15 | 47 | 0 | 1 | 0 | 0 | 48 |
| 1:30 | 3 | 0 | 0 | 0 | 0 | 3 | 13:30 | 51 | 1 | 0 | 0 | 0 | 52 |
| 1:45 | 5 | 0 | 0 | 0 | 0 | 5 | 13:45 | 46 | 0 | 0 | 0 | 0 | 46 |
| 2:00 | 3 | 0 | 0 | 0 | 0 | 3 | 14:00 | 60 | 0 | 0 | 0 | 0 | 60 |
| 2:15 | 2 | 0 | 0 | 0 | 0 | 2 | 14:15 | 49 | 0 | 0 | 0 | 0 | 49 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 52 | 0 | 0 | 0 | 0 | 52 |
| 2:45 | 3 | 0 | 0 | 0 | 0 | 3 | 14:45 | 48 | 0 | 0 | 0 | 0 | 48 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 57 | 0 | 0 | _ | 0 | 57 56 |
| 3:15 3:30 | 4 5 | 0 0 | 0 | 0 | 0 | 4 5 | 15:15 15:30 | 56 | 0 | 0 0 | 0 0 | 0 | 56 |
| 3:30 3:45 | 10 | 0 | 0 | 0 | 0 | 5 10 | 15:30 15:45 | 61 37 | 1 0 | 0 | 0 | 0 | 62 37 |
| 4:00 | 10 | 0 | 0 | 0 | 0 | 10 | 16:00 | 71 | 0 | 0 | 0 | 0 | 71 |
| 4:00 | 17 | 0 | 0 | 0 | 0 | 17 | 16:15 | 39 | 0 | 0 | 0 | 0 | 39 |
| 4:30 | 20 | 0 | 0 | 0 | 0 | 20 | 16:30 | 53 | 1 | 0 | 0 | 0 | 54 |
| 4:45 | 11 | 0 | 0 | 0 | 0 | 11 | 16:45 | 53 | 0 | 0 | 0 | 0 | 53 |
| 5:00 | 15 | 0 | 0 | 0 | 0 | 15 | 17:00 | 63 | 0 | 0 | 0 | 0 | 63 |
| 5:15 | 19 | 0 | 0 | 0 | 0 | 19 | 17:15 | 46 | 1 | 0 | 0 | 0 | 47 |
| 5:30 | 21 | 0 | 0 | 0 | 0 | 21 | 17:30 | 48 | 0 | 0 | 0 | 0 | 48 |
| 5:45 | 23 | 0 | 0 | 0 | 0 | 23 | 17:45 | 42 | 0 | 0 | 0 | 0 | 42 |
| 6:00 | 28 | 0 | 0 | 0 | 0 | 28 | 18:00 | 48 | 0 | 0 | 0 | 0 | 48 |
| 6:15 | 29 | 0 | 0 | 0 | 0 | 29 | 18:15 | 57 | 0 | 0 | 0 | 0 | 57 |
| 6:30 | 27 | 0 | 0 | 0 | 0 | 27 | 18:30 | 30 | 0 | 0 | 0 | 0 | 30 |
| 6:45 | 38 | 0 | 0 | 0 | 0 | 38 | 18:45 | 33 | 0 | 0 | 0 | 0 | 33 |
| 7:00 | 48 | 0 | 0 | 0 | 0 | 48 | 19:00 | 41 | 0 | 0 | 0 | 0 | 41 |
| 7:15 | 79 | 0 | 0 | 0 | 0 | 79 | 19:15 | 20 | 0 | 0 | 0 | 0 | 20 |
| 7:30 | 82 | 0 | 0 | 0 | 0 | 82 | 19:30 | 32 | 1 | 0 | 0 | 0 | 33 |
| 7:45 | 78 | 0 | 0 | 0 | 0 | 78 | 19:45 | 33 | 0 | 0 | 0 | 0 | 33 |
| 8:00 | 57 | 0 | 0 | 0 | 0 | 57 | 20:00 | 33 | 0 | 0 | 0 | 0 | 33 |
| 8:15 | 61 | 0 | 0 | 0 | 0 | 61 | 20:15 | 31 | 0 | 0 | 0 0 | 0 | 31 |
| 8:30 8:45 | 36 34 | 1 0 | 0 | 0 0 | 0 | 37 34 | 20:30 20:45 | 32 35 | 1 0 | 0 0 | 0 | 0 | 33 35 |
| 9:00 | 27 | 0 | 0 | 0 | 0 | 27 | 20:45 21:00 | 29 | 0 | 0 | 0 | 0 | 29 |
| 9:15 | 33 | 0 | 0 | 0 | 0 | 33 | 21:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 9:30 | 27 | 2 | 1 | 0 | 0 | 30 | 21:30 | 28 | 0 | 0 | 0 | 0 | 28 |
| 9:45 | 44 | 1 | 0 | 0 | 0 | 45 | 21:45 | 24 | 0 | 0 | 0 | 0 | 24 |
| 10:00 | 28 | 1 | 0 | 0 | 0 | 29 | 22:00 | 19 | 0 | 0 | 0 | 0 | 19 |
| 10:15 | 39 | 1 | 0 | 0 | 0 | 40 | 22:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 10:30 | 27 | 2 | 0 | 0 | 0 | 29 | 22:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 10:45 | 32 | 0 | 0 | 0 | 0 | 32 | 22:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 11:00 | 36 | 0 | 0 | 0 | 0 | 36 | 23:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 11:15 | 37 | 0 | 0 | 0 | 0 | 37 | 23:15 | 19 | 0 | 0 | 0 | 0 | 19 |
| 11:30 | 26 | 0 | 0 | 0 | 0 | 26 | 23:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 11:45 | 39 | 1 | 0 | 0 | 0 | 40 | 23:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| TOTAL | 1,208 | 11 | 1 | 0 | 0 | 1,220 | TOTAL | 1,833 | 10 | 1 | 0 | 0 | 1,844 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 296

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 3,041 | 21 | 2 | 0 | 0 | 3,064 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.2% | 0.7% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 296 | 0 | 0 | 0 | 0 | 296 |
| PM PEAK | 216 | 1 | 0 | 0 | 0 | 217 |

Study Site 2 - Springbrook Park Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS75 Eastern Dwy south of Orange.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|---------------|--------|--------|--------|---|--------|----------------|----------|--------|--------|---|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 7 | 1 | 0 | 0 | 0 | 8 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 6 | 1 | 0 | 0 | 0 | 7 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 17 | 1 | 0 | 0 | 0 | 18 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:30 3:45 | 1 3 | 0 0 | 0 0 | 0 0 | 0 | 1 | 15:30 15:45 | 16 22 | 0 0 | 0 0 | 0 | 0 | 16 22 |
| 3:45 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 16:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 4:00 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 9 | 2 | 0 | 0 | 0 | 10 |
| 4:30 | 3 | 0 | 0 | 0 | 0 | 3 | 16:30 | 14 | 0 | 0 | 0 | 0 | 14 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 5:45 | 3 | 0 | 0 | 0 | 0 | 3 | 17:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 4 | 0 | 0 | 0 | 0 | 4 | 18:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:15 | 1 | 3 | 0 | 0 | 0 | 4 | 18:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:30 | 0 | 0 | 0 | 0 | 0 | 0 | 18:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:45 | 2 | 1 | 0 | 0 | 0 | 3 | 18:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:00 | 4 | 2 | 0 | 0 | 0 | 6 | 19:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:15 | 4 | 3 | 0 | 0 | 0 | 7 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 4 | 0 | 0 | 0 | 0 | 4 | 19:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:45 | 5 | 0 | 0 | 0 | 0 | 5 | 19:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 5 | 0 | 0 | 0 | 0 | 5 | 20:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:15 | 11 | 0 | 0 | 0 | 0 | 11 | 20:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:30 | 7 | 0 | 0 | 0 | 0 | 7 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | <u>6</u> 4 | 0 | 0 | 0 | 0 | 6 | 20:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:00 9:15 | 4 | 0 | 0 | 0 | 0 | 4 4 | 21:00 21:15 | 4 2 | 0 | 0 | 0 | 0 | 4 2 |
| 9:15 | 1 | 0 | 0 | 0 | 0 | 1 | 21:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:30 9:45 | 2 | 1 | 0 | 0 | 0 | 3 | 21:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 10:00 | 1 | 0 | 0 | 0 | 0 | 1 | 22:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:15 | 6 | 1 | 0 | 0 | 0 | 7 | 22:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:30 | 8 | 0 | 0 | 0 | 0 | 8 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 1 | 0 | 0 | 0 | 0 | 1 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 4 | 1 | 0 | 0 | 0 | 5 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 2 | 0 | 1 | 0 | 0 | 3 | 23:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:30 | 2 | 0 | 0 | 0 | 0 | 2 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 10 | 1 | 1 | 0 | 0 | 12 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 128 | 13 | 2 | 0 | 0 | 143 | TOTAL | 385 | 5 | 0 | 0 | 0 | 390 |

AM PEAK HOUR 8:00 AM AM PEAK VOLUME 29

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 513 | 18 | 2 | 0 | 0 | 533 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 96.2% | 3.4% | 0.4% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 29 | 0 | 0 | 0 | 0 | 29 |
| PM PEAK | 50 | 0 | 0 | 0 | 0 | 50 |

Study Site 2 - Springbrook Park Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS75 Eastern Dwy south of Orange.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|-----|---|-----|---|---|-------|----------------|----------|---|----------|---|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 8 | 1 | 0 | 0 | 0 | 9 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 6 | 2 | 1 | 0 | 0 | 9 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:45 | 5 | 0 | 0 | 0 | 0 | 5 | 14:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 4 | 0 | 0 | 0 | 0 | 4 | 15:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:30 | 6 | 0 | 0 | 0 | 0 | 6 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 3 | 0 | 0 | 0 | 0 | 3 | 16:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:30 | 5 | 0 | 0 | 0 | 0 | 5 | 16:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 4:45 | 7 | 0 | 0 | 0 | 0 | 7 | 16:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 4 | 0 | 0 | 0 | 0 | 4 | 17:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 5:15 | 7 | 0 | 0 | 0 | 0 | 7 | 17:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:30 | 3 | 0 | 0 | 0 | 0 | 3 | 17:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 5:45 | 6 | 0 | 0 | 0 | 0 | 6 | 17:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:00 | 5 | 0 | 0 | 0 | 0 | 5 | 18:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:15 | 9 | 0 | 0 | 0 | 0 | 9 | 18:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:30 | 6 | 0 | 0 | 0 | 0 | 6 | 18:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:45 | 7 | 0 | 0 | 0 | 0 | 7 | 18:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:00 | 5 | 0 | 0 | 0 | 0 | 5 | 19:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:15 | 12 | 0 | 0 | 0 | 0 | 12 | 19:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:30 | 19 | 0 | 1 | 0 | 0 | 20 | 19:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:45 | 19 | 0 | 0 | 0 | 0 | 19 | 19:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 7 | 0 | 0 | 0 | 0 | 7 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 9 | 0 | 0 | 0 | 0 | 9 | 20:15 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 | 4 | 0 | 1 | 0 | 0 | 5 | | 5 3 | 0 | 0 | 0 | 0 | 5 3 |
| 8:45 9:00 | 9 | 0 | 0 | 0 | 0 | 9 | 20:45 21:00 | <u>3</u> | 0 | <u>0</u> | 0 | 0 | 5 |
| 9:00 9:15 | 6 | 0 | 0 | 0 | 0 | 6 | 21:00 21:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:15 | 4 | 0 | 0 | 0 | 0 | 4 | 21:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:30 9:45 | 1 | 0 | 0 | 0 | 0 | 1 | 21:30 21:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 21:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:00 | 8 | 0 | 0 | 0 | 0 | 8 | 22:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:13 | 4 | 0 | 0 | 0 | 0 | 4 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 3 | 0 | 0 | 0 | 0 | 3 | 22:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:00 | 11 | 1 | 0 | 0 | 0 | 12 | 23:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 6 | 0 | 0 | 0 | 0 | 6 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 4 | 1 | 0 | 0 | 0 | 5 | 23:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:45 | 8 | 0 | 0 | 0 | 0 | 8 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 234 | 2 | 2 | 0 | 0 | 238 | TOTAL | 306 | 3 | 1 | 0 | 0 | 310 |
| | | | | | J | | | | | | | | 0.10 |

| AM | PEAK | HOUR | /:15 | ΑM |
|----|-------------|--------|------|----|
| AΜ | PEAK | VOLUME | | 58 |

| AM PEAK HOUR | 4:00 PM |
|----------------|---------|
| AM PEAK VOLUME | 50 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 540 | 5 | 3 | 0 | 0 | 548 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.5% | 0.9% | 0.5% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 57 | 0 | 1 | 0 | 0 | 58 |
| PM PEAK | 50 | 0 | 0 | 0 | 0 | 50 |

Study Site 2 - Springbrook Park Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS76 Western Dwy south of Orange.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|---------|--------|--------|----------|---|---------|----------------|---------|--------|--------|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 7 | 1 | 0 | 0 | 0 | 8 |
| 0:15 | 3 | 0 | 0 | 0 | 0 | 3 | 12:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 12 | 2 | 1 | 0 | 0 | 15 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 11 | 1 | 0 | 0 | 0 | 12 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:45 | 4 | 0 | 0 | 0 | 0 | 4 | 14:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 13 | 1 | 0 | 0 | 0 | 14 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 4:30 | 2 | 0 | 0 | 0 | 0 | 2 | 16:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:45 | 1 | 0 | 0 | 0 | 0 | 1 | 16:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:15 | 5 | 0 | 0 | 0 | 0 | 5 | 17:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:30 | 4 | 0 | 0 | 0 | 0 | 4 | 17:30 | 24 | 0 | 0 | 0 | 0 | 24 |
| 5:45 | 2 | 0 | 0 | 0 | 0 | 2 | 17:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 5 | 0 | 0 | 0 | 0 | 5 | 18:00 | 20 | 0 | 0 | 0 | 0 | 20 |
| 6:15 | 5 | 0 | 0 | 0 | 0 | 5 | 18:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:30 | 2 | 0 | 0 | 0 | 0 | 2 | 18:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:45 | 1 | 0 | 0 | 0 | 0 | 1 | 18:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 2 | 0 | 0 | 0 | 0 | 2 | 19:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 7:15 | 2 | 0 | 1 | 0 | 0 | 3 | 19:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:30 | 7 | 0 | 0 | 0 | 0 | 7 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 15 | 0 | 0 | 0 | 0 | 15 | 19:45 | 7 11 | 0 | 0 | 0 | 0 | 7 11 |
| 8:00 8:15 | 9 6 | 0 0 | 0 1 | 0 0 | 0 | 9 7 | 20:00 20:15 | 11 | 0 0 | 0 0 | 0 0 | 0 | 11 |
| | | | | | - | | | | 0 | | 0 | | |
| 8:30 | 10 8 | 0 0 | 0 0 | 0 0 | 0 | 10 8 | 20:30 20:45 | 7 9 | 0 | 0 0 | 0 | 0 | 7 9 |
| 8:45 9:00 | 10 | 0 | 0 | 0 | 0 | 10 | 20:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 9:00 9:15 | 7 | 0 | 0 | 0 | 0 | 7 | 21:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 9:30 | 3 | 1 | 0 | 0 | 0 | 4 | 21:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:45 | 3 | 0 | 0 | 0 | 0 | 3 | 21:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 10:00 | 10 | 1 | 0 | 0 | 0 | 11 | 22:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:15 | 3 | 0 | 0 | 0 | 0 | 3 | 22:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:30 | 8 | 0 | 0 | 0 | 0 | 8 | 22:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:45 | 7 | 0 | 0 | 0 | 0 | 7 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 3 | 0 | 0 | 0 | 0 | 3 | 23:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:15 | 7 | 0 | 0 | 0 | 0 | 7 | 23:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:30 | 2 | 1 | 0 | 0 | 0 | 3 | 23:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:45 | 7 | 0 | 0 | 0 | 0 | 7 | 23:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| TOTAL | 174 | 3 | 2 | 0 | 0 | 179 | TOTAL | 531 | 5 | 1 | 0 | 0 | 537 |
| | | | | A DEAV U | | 7.4F AM | | | | | 4 DEAV U | | E-20 DM |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 41

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 705 | 8 | 3 | 0 | 0 | 716 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.5% | 1.1% | 0.4% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 40 | 0 | 1 | 0 | 0 | 41 |
| PM PEAK | 70 | 0 | 0 | 0 | 0 | 70 |

Study Site 2 - Springbrook Park Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS76 Western Dwy south of Orange.

| AM | | | OUT | | | | PM | | | OUT | | | |
|---------------|---------|----|-----|----------|---|---------|----------------|--------|---|-----|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 6 | 0 | 1 | 0 | 0 | 7 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 6 | 1 | 0 | 0 | 0 | 7 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 11 | 1 | 0 | 0 | 0 | 12 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 20 | 0 | 0 | 0 | 0 | 20 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 11 | 2 | 0 | 0 | 0 | 13 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 21 | 0 | 0 | 0 | 0 | 21 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:30 | 6 | 0 | 0 | 0 | 0 | 6 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 9 | 0 | 0 | 0 | 0 | 9 | 15:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:00 | 4 | 0 | 0 | 0 | 0 | 4 | 16:00 | 9 | 1 | 0 | 0 | 0 | 10 |
| 4:15 | 8 | 0 | 0 | 0 | 0 | 8 | 16:15 | 8 | 1 | 0 | 0 | 0 | 9 |
| 4:30 | 5 | 0 | 0 | 0 | 0 | 5 | 16:30 | 8 | 1 | 0 | 0 | 0 | 9 |
| 4:45 | 6 | 0 | 0 | 0 | 0 | 6 | 16:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 5 | 0 | 0 | 0 | 0 | 5 | 17:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 5:15 | 6 | 0 | 0 | 0 | 0 | 6 | 17:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:30 | 6 | 0 | 0 | 0 | 0 | 6 | 17:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:45 | 6 | 0 | 0 | 0 | 0 | 6 | 17:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 7 | 0 | 0 | 0 | 0 | 7 | 18:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:15 | 5 | 3 | 0 | 0 | 0 | 8 | 18:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:30 | 13 | 0 | 0 | 0 | 0 | 13 | 18:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:45 | 2 | 0 | 0 | 0 | 0 | 2 | 18:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 7 | 3 | 0 | 0 | 0 | 10 | 19:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:15 | 17 | 3 | 0 | 0 | 0 | 20 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 18 | 0 | 0 | 0 | 0 | 18 | 19:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:45 | 24 | 0 | 0 | 0 | 0 | 24 | 19:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:00 | 16 | 0 | 0 | 0 | 0 | 16 | 20:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:15 | 12 | 0 | 0 | 0 | 0 | 12 | 20:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:30 | 17 | 0 | 0 | 0 | 0 | 17 | 20:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 8:45 9:00 | 14 | 0 | 0 | 0 | 0 | 14 8 | 20:45 21:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:00 9:15 | 8 9 | 0 | 0 | 0 | 0 | 8 9 | 21:00 21:15 | 7 | 0 | 0 | 0 | 0 | 6 7 |
| 9:15 9:30 | 9 10 | 1 | 0 | 0 | 0 | - | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 9:45 | 10 | 1 | 0 | 0 | 0 | 11 2 | 21:30 21:45 | 4 | 0 | 0 | 0 | 0 | 3 4 |
| 9:45 10:00 | 13 | 0 | 0 | 0 | 0 | 13 | 21:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 10:00 | 12 | 2 | 0 | 0 | 0 | 14 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 9 | 0 | 0 | 0 | 0 | 9 | 22:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 6 | 0 | 0 | 0 | 0 | 6 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 11 | 0 | 0 | 0 | 0 | 11 | 23:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 3 | 0 | 0 | 0 | 0 | 3 | 23:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:30 | 5 | 0 | 1 | 0 | 0 | 6 | 23:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:45 | 8 | 1 | 0 | 0 | 0 | 9 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 314 | 14 | 1 | 0 | 0 | 329 | TOTAL | 384 | 7 | 1 | 0 | 0 | 392 |
| IOIAL | 211 | 11 | | 4 DEAK U | | 7.15 AM | IVIAL | J 30 1 | | | 4 DEAK U | | 1.15 DM |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 78

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 698 | 21 | 2 | 0 | 0 | 721 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 96.8% | 2.9% | 0.3% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 75 | 3 | 0 | 0 | 0 | 78 |
| PM PEAK | 35 | 3 | 0 | 0 | 0 | 38 |

Study Site 3 - Vista Springs Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS77 Dwy east of Clark

| TIME | 13 3 8 11 8 12 12 6 13 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 0:15 3 0 0 0 3 12:15 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | 3 8 11 8 12 12 6 |
| 0:15 | 3 8 11 8 12 12 6 |
| 0:45 5 0 0 0 5 12:45 11 0 0 0 1:00 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th>8 11 8 12 12 6 13</th></t<> | 8 11 8 12 12 6 13 |
| 1:00 | 8 12 12 6 13 |
| 1:15 | 12 12 6 13 |
| 1:30 | 12 6 13 |
| 1:45 | 6 13 |
| 2:00 | 13 |
| 2:15 | |
| 2:30 0 0 0 0 0 14:30 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1/ |
| 2:45 | |
| 3:00 | 11 |
| 3:15 | 4 |
| 3:30 0 0 0 0 0 15:30 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6 |
| 3:45 1 0 0 0 1 15:45 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 11 |
| 4:00 0 0 0 0 16:00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | 11 |
| 4:15 2 0 0 0 0 2 16:15 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 |
| 4:30 2 0 0 0 0 2 16:30 10 0 0 0 0 4 4:45 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 < | 5 |
| 4:45 4 0 0 0 4 16:45 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16 |
| 5:00 4 0 0 0 0 4 17:00 14 0 0 0 0 5:15 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th>10</th></t<> | 10 |
| 5:15 2 0 0 0 0 2 17:15 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 13 |
| 5:30 1 0 0 0 0 1 17:30 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 14 |
| 5:45 1 0 0 0 0 1 17:45 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16 |
| 6:00 0 0 0 0 0 18:00 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | 10 |
| 6:15 1 0 0 0 0 1 18:15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 12 |
| 6:30 0 0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th>8</th> | 8 |
| 6:45 1 0 0 0 0 1 18:45 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | 10 16 |
| 7:00 2 0 0 0 2 19:00 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | 9 |
| 7:15 10 0 0 0 10 19:15 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th>8</th></td<> | 8 |
| 7:30 18 0 0 0 18 19:30 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th>17</th></td<> | 17 |
| 7:45 16 0 0 0 16 19:45 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 13 |
| 8:00 10 0 0 0 10 20:00 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th>4</th></td<> | 4 |
| 8:15 10 0 0 0 10 20:15 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16 |
| 8:30 6 0 0 0 0 6 20:30 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5 |
| 8:45 7 0 0 0 0 7 20:45 11 0 0 0 0 9:00 5 0 0 0 0 5 21:00 9 0 0 0 0 9:15 6 0 0 0 0 6 21:15 11 0 0 0 0 9:30 5 0 0 0 5 21:30 5 0 0 0 | 13 |
| 9:00 5 0 0 0 0 5 21:00 9 0 0 0 0 9:15 6 0 0 0 0 6 21:15 11 0 0 0 0 9:30 5 0 0 0 5 21:30 5 0 0 0 | 11 |
| 9:15 6 0 0 0 0 6 21:15 11 0 0 0 9:30 5 0 0 0 5 21:30 5 0 0 0 | 9 |
| 9:30 5 0 0 0 0 5 21:30 5 0 0 0 | 11 |
| | 5 |
| 9:45 4 0 0 0 0 4 21:45 8 0 0 0 | 8 |
| 10:00 6 0 0 0 0 6 22:00 8 0 0 0 | 8 |
| 10:15 4 1 0 0 0 5 22:15 2 0 0 0 | 2 |
| 10:30 3 1 0 0 0 4 22:30 1 0 0 0 | 1 |
| 10:45 1 0 0 0 0 1 22:45 6 0 0 0 | 6 |
| 11:00 2 0 0 0 0 2 23:00 4 0 0 0 | 4 |
| 11:15 3 0 0 0 0 3 23:15 2 0 0 0 | 2 |
| 11:30 4 0 0 0 0 4 23:30 0 0 0 0 | 0 |
| 11:45 8 0 0 0 0 8 23:45 4 0 0 0 | 4 |
| TOTAL 169 2 0 0 0 171 TOTAL 438 0 1 0 | 439 |

AM PEAK HOUR 7:30 AM AM PEAK VOLUME 54

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 607 | 2 | 1 | 0 | 0 | 610 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.5% | 0.3% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 54 | 0 | 0 | 0 | 0 | 54 |
| PM PEAK | 53 | 0 | 0 | 0 | 0 | 53 |

Study Site 3 - Vista Springs Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS77 Dwy east of Clark

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|----------------------------------------|---|--------|---|---|----------|----------------|--------|---|--------|---|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 10 | 1 | 0 | 0 | 0 | 11 |
| 1:00 | ······································ | 0 | 0 | 0 | 0 | 1 | 13:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 1:30 | 3 | 0 | 0 | 0 | 0 | 3 | 13:30 | 16 | 0 | 1 | 0 | 0 | 17 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 19 | 0 | 0 | 0 | 0 | 19 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 19 | 0 | 0 | 0 | 0 | 19 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 3:15 | 3 | 0 | 0 | 0 | 0 | 3 | 15:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:30 | 6 | 0 | 0 | 0 | 0 | 6 | 15:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:00 | 5 | 0 | 0 | 0 | 0 | 5 | 16:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:15 | 11 | 0 | 0 | 0 | 0 | 11 | 16:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:30 | 4 | 0 | 0 | 0 | 0 | 4 | 16:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 5 | 0 | 0 | 0 | 0 | 5 | 17:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:15 | 8 | 0 | 0 | 0 | 0 | 8 | 17:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:30 | 4 | 0 | 0 | 0 | 0 | 4 | 17:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:45 | 4 | 0 | 0 | 0 | 0 | 4 | 17:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 10 | 0 | 0 | 0 | 0 | 10 | 18:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:15 | 8 | 0 | 0 | 0 | 0 | 8 | 18:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:30 | 14 | 0 | 0 | 0 | 0 | 14 | 18:30 | 15 | 0 | 0 | 0 | 0 | 15 20 |
| 6:45 | 8 | 0 | 0 | 0 | 0 | 8 | 18:45 | 19 | 0 | 0 | 0 | 0 | 7 |
| 7:00 7:15 | 23 26 | 0 | 0 0 | 0 | 0 | 23 26 | 19:00 19:15 | 7 4 | 0 | 0 0 | 0 | 0 | 4 |
| 7:15 | 27 | 0 | 0 | 0 | 0 | 27 | 19:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:45 | 31 | 0 | 0 | 0 | 0 | 31 | 19:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 31 | 0 | 0 | 0 | 0 | 31 | 20:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:15 | 21 | 0 | 0 | 0 | 0 | 21 | 20:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 | 15 | 0 | 0 | 0 | 0 | 15 | 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 | 12 | 0 | 0 | 0 | 0 | 12 | 20:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:00 | 9 | 0 | 0 | 0 | 0 | 9 | 21:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:15 | 11 | 0 | 0 | 0 | 0 | 11 | 21:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:30 | 8 | 0 | 0 | 0 | 0 | 8 | 21:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:45 | 12 | 0 | 0 | 0 | 0 | 12 | 21:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 13 | 1 | 0 | 0 | 0 | 14 | 22:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:15 | 4 | 1 | 0 | 0 | 0 | 5 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 8 | 0 | 0 | 0 | 0 | 8 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 6 | 1 | 0 | 0 | 0 | 7 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 8 | 0 | 0 | 0 | 0 | 8 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 6 | 1 | 0 | 0 | 0 | 7 | 23:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 9 | 0 | 0 | 0 | 0 | 9 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 12 | 0 | 0 | 0 | 0 | 12 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 398 | 4 | 0 | 0 | 0 | 402 | TOTAL | 418 | 2 | 1 | 0 | 0 | 421 |

| AM | PEAK | HOUK | /:15 AI ^v |
|----|------|--------|----------------------|
| ΑМ | PEAK | VOLUME | 115 |

| AM PEAK HOUR | 1:30 PM |
|----------------|---------|
| AM PEAK VOLUME | 73 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 816 | 6 | 1 | 0 | 0 | 823 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.7% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 115 | 0 | 0 | 0 | 0 | 115 |
| PM PEAK | 42 | 0 | 0 | 0 | 0 | 42 |

Study Site 3 - Vista Springs Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS78 Dwy north of Box Springs

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|---------------|--------|---|---|-------|----------------|----------|---|----|---|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 8 | 0 | 0 | 0 | 0 | 8 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 5 | 0 | 0 | 0 | 0 | 5 | 12:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 17 | 1 | 1 | 0 | 0 | 19 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 12 | 1 | 0 | 0 | 0 | 13 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 1:15 | 5 | 0 | 0 | 0 | 0 | 5 | 13:15 | 16 | 0 | 1 | 0 | 0 | 17 |
| 1:30 | 2 | 0 | 0 | 0 | 0 | 2 | 13:30 | 9 | 1 | 0 | 0 | 0 | 10 |
| 1:45 | 4 | 0 | 0 | 0 | 0 | 4 | 13:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 3 | 0 | 0 | 0 | 0 | 3 | 14:00 | 20 | 0 | 0 | 0 | 0 | 20 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 22 | 0 | 0 | 0 | 0 | 22 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 20 | 0 | 0 | 0 | 0 | 20 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 29 | 0 | 0 | 0 | 0 | 29 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 27 | 0 | 0 | 0 | 0 | 27 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:00 | 3 | 0 | 0 | 0 | 0 | 3 | 16:00 | 19 | 0 | 0 | 0 | 0 | 19 |
| 4:15 | 2 | 0 | 0 | 0 | 0 | 2 | 16:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 26 | 0 | 0 | 0 | 0 | 26 |
| 4:45 5:00 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 17:00 | 13 23 | 0 | 0 | 0 | 0 | 13 23 |
| 5:00 5:15 | 2 2 | 0 | 0 0 | 0 | 0 | 2 | 17:00 17:15 | 23 | 0 | 0 | 0 | 0 | 23 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:30 5:45 | 3 | 0 | 0 | 0 | 0 | 3 | 17:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 3 | 0 | 0 | 0 | 0 | 3 | 18:00 | 19 | 0 | 0 | 0 | 0 | 19 |
| 6:15 | 0 | 0 | 0 | 0 | 0 | 0 | 18:15 | 20 | 0 | 0 | 0 | 0 | 20 |
| 6:30 | 6 | 0 | 0 | 0 | 0 | 6 | 18:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 6:45 | 6 | 0 | 0 | 0 | 0 | 6 | 18:45 | 13 | 1 | 0 | 0 | 0 | 14 |
| 7:00 | 7 | 0 | 0 | 0 | 0 | 7 | 19:00 | 23 | 0 | 0 | 0 | 0 | 23 |
| 7:15 | 5 | 0 | 0 | 0 | 0 | 5 | 19:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:30 | 6 | 0 | 0 | 0 | 0 | 6 | 19:30 | 19 | 0 | 0 | 0 | 0 | 19 |
| 7:45 | 14 | 0 | 0 | 0 | 0 | 14 | 19:45 | 34 | 0 | 0 | 0 | 0 | 34 |
| 8:00 | 16 | 0 | 0 | 0 | 0 | 16 | 20:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 8:15 | 10 | 0 | 0 | 0 | 0 | 10 | 20:15 | 20 | 0 | 0 | 0 | 0 | 20 |
| 8:30 | 20 | 0 | 0 | 0 | 0 | 20 | 20:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 8:45 | 14 | 0 | 0 | 0 | 0 | 14 | 20:45 | 21 | 0 | 0 | 0 | 0 | 21 |
| 9:00 | 8 | 0 | 0 | 0 | 0 | 8 | 21:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 9:15 | 5 | 0 | 0 | 0 | 0 | 5 | 21:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 9:30 | 8 | 0 | 0 | 0 | 0 | 8 | 21:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:45 | 12 | 1 | 0 | 0 | 0 | 13 | 21:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 12 | 0 | 0 | 0 | 0 | 12 | 22:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 10:15 | 10 | 2 | 0 | 0 | 0 | 12 | 22:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:30 | 10 | 2 | 0 | 0 | 0 | 12 | 22:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 10:45 | 8 | 0 | 0 | 0 | 0 | 8 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 13 | 0 | 0 | 0 | 0 | 13 | 23:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:15 | 13 | 1 | 0 | 0 | 0 | 14 | 23:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:30 | 13 | 1 | 0 | 0 | 0 | 14 | 23:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 11:45 | 12 | <u>0</u> 7 | 0 | 0 | 0 | 12 | 23:45 | 10 | 0 | 2 | 0 | 0 | 10 |
| TOTAL | 285 | / | 0 | 0 | | 292 | TOTAL | 748 | 4 | | 0 | | 754 |

AM PEAK HOUR 8:00 AM AM PEAK VOLUME 60

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 1,033 | 11 | 2 | 0 | 0 | 1,046 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.8% | 1.1% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 60 | 0 | 0 | 0 | 0 | 60 |
| PM PEAK | 83 | 0 | 0 | 0 | 0 | 83 |

Study Site 3 - Vista Springs Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS78 Dwy north of Box Springs

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|----------|--------|--------|----------|--------------|----------|----------------|-----|--------|-----|----------|-------|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 7 | 0 | 0 | 0 | 0 | 7 | 12:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 0:15 | 8 | 0 | 0 | 0 | 0 | 8 | 12:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 14 | 1 | 0 | 0 | 0 | 15 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:30 | 4 | 0 | 0 | 0 | 0 | 4 | 13:30 | 8 | 1 | 1 | 0 | 0 | 10 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:00 | 6 | 0 | 0 | 0 | 0 | 6 | 14:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 11 | 0 | 1 | 0 | 0 | 12 |
| 2:45 | 2 | 0 | 0 | 0 | 0 | 2 | 14:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 20 | 0 | 0 | 0 | 0 | 20 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:00 | 4 | 0 | 0 | 0 | 0 | 4 | 16:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 4:15 | 11 | 0 | 0 | 0 | 0 | 11 | 16:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 4:30 | 14 | 0 | 0 | 0 | 0 | 14 | 16:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 4:45 | 3 | 0 | 0 | 0 | 0 | 3 | 16:45 | 19 | 0 | 0 | 0 | 0 | 19 |
| 5:00 | 4 | 0 | 0 | 0 | 0 | 4 | 17:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 5:15 | 5 | 0 | 0 | 0 | 0 | 5 | 17:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:30 | 5 | 0 | 0 | 0 | 0 | 5 | 17:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 5:45 | 14 | 0 | 0 | 0 | 0 | 14 | 17:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 8 | 0 | 0 | 0 | 0 | 8 | 18:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:15 | 11 | 0 | 0 | 0 | 0 | 11 | 18:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:30 | 11 | 0 | 0 | 0 | 0 | 11 | 18:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 6:45 | 9 | 0 | 0 | 0 | 0 | 9 | 18:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:00 | 29 | 0 | 0 | 0 | 0 | 29 | 19:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:15 | 17 | 0 | 0 | 0 | 0 | 17 | 19:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:30 7:45 | 12 | 0 0 | 0 0 | 0 0 | 0 | 12 30 | 19:30 19:45 | 2 | 0 0 | 0 | 0 | 0 | 2 9 |
| 7:45 8:00 | 30 16 | 0 | 0 | 0 | 0 | 30 16 | 19:45 20:00 | 9 | 0 | 0 | 0 | 0 | 4 |
| 8:00 8:15 | 9 | 0 | 0 | 0 | 0 | 9 | 20:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:30 | 11 | 0 | 0 | 0 | 0 | 11 | 20:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:45 | 15 | 0 | 0 | 0 | 0 | 15 | 20:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:00 | 7 | 0 | 0 | 0 | 0 | 7 | 21:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:15 | 11 | 0 | 0 | 0 | 0 | 11 | 21:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:30 | 12 | 0 | 0 | 0 | 0 | 12 | 21:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:45 | 14 | 0 | 0 | 0 | 0 | 14 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 17 | 0 | 0 | 0 | 0 | 17 | 22:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 9 | 0 | 0 | 0 | 0 | 9 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 14 | 2 | 0 | 0 | 0 | 16 | 22:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:45 | 8 | 1 | 0 | 0 | 0 | 9 | 22:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 7 | 0 | 0 | 0 | 0 | 7 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 8 | 0 | 0 | 0 | 0 | 8 | 23:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 9 | 0 | 0 | 0 | 0 | 9 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 10 | 1 | 0 | 0 | 0 | 11 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 398 | 4 | 0 | 0 | 0 | 402 | TOTAL | 466 | 2 | 2 | 0 | 0 | 470 |
| | | | AN | 1 PEAK H | ∩ IID | 7:00 AM | | • | | A | M PEAK H | OLID. | 4:00 PM |

| AM | PEAK | HOUR | 7:00 AM |
|----|------|--------|---------|
| ΑM | PEAK | VOLUME | 88 |

| AM PEA | K HOUR | 4:00 PM |
|--------|----------|---------|
| AM PEA | K VOLUME | 69 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 864 | 6 | 2 | 0 | 0 | 872 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.7% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 88 | 0 | 0 | 0 | 0 | 88 |
| PM PEAK | 69 | 0 | 0 | 0 | 0 | 69 |

Study Site 4 - Vesada Aparment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS73 Southern Dwy east of Country Village.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|--------|--------|--------|---|-------|----------------|---|--------|--------|---|---|-------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:30 3:45 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | 0 | 15:30 15:45 | 0 | 0 0 | 0 0 | 0 | 0 | 0 |
| 3:45 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:15 | 0 | 0 | 0 | 0 | 0 | 0 | 18:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:30 | 0 | 0 | 0 | 0 | 0 | 0 | 18:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 0 | 19:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 | 0 | 0 | 0 | 0 | 0 | 0 | 19:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 19:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 19:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 | 0 | 0 | 0 | 0 | 0 | 0 | 20:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 20:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 | | 0 | 0 | 0 | 0 | 0 | 20:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 9:15 | 0 0 | 0 | 0 0 | 0 0 | 0 | 0 | 21:00 21:15 | 0 | 0 0 | 0 0 | 0 | 0 | 0 |
| 9:15 9:30 | 0 | 0 | 0 | 0 | 0 | 0 | 21:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:30 9:45 | 0 | 0 | 0 | 0 | 0 | 0 | 21:30 21:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:13 | 0 | 0 | 0 | 0 | 0 | 0 | 22:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | TOTAL | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | J | J | | | | | | ŭ | |

AM PEAK HOUR 11:45 AM AM PEAK VOLUME 0

AM PEAK HOUR 11:45 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------|---------|---------|---------|---------|---------|---------|
| % OF TOTAL | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| AM PEAK | 0 | 0 | 0 | 0 | 0 | 0 |
| PM PEAK | 0 | 0 | 0 | 0 | 0 | 0 |

Study Site 4 - Vesada Aparment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS73 Southern Dwy east of Country Village.

| AM | | | OUT | | | | PM | OUT | | | | | |
|----------------|-----------------|--------|--------|--------|---|--------|----------------|--------|--------|--------|--------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 4 | 1 | 0 | 0 | 0 | 5 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 3:15 | 4 | 0 | 0 | 0 | 0 | 4 | 15:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:30 | 5 | 0 | 0 | 0 | 0 | 5 | 15:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 | 3 | 0 | 0 | 0 | 0 | 3 | 16:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:45 5:00 | <u>2</u> 0 | 0 | 0 | 0 | 0 | 0 | 16:45 17:00 | 0 1 | 0 | 0 | 0 0 | 0 | 0 |
| 5:00 5:15 | 3 | 0 | 0 | 0 | 0 | 3 | 17:00 17:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 | 2 | 0 | 0 | 0 | 0 | 2 | 17:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 6:00 | 3 | 0 | 0 | 0 | 0 | 3 | 18:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:15 | 1 | 0 | 0 | 0 | 0 | 1 | 18:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:30 | 3 | 0 | 0 | 0 | 0 | 3 | 18:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:45 | 1 | 0 | 0 | 0 | 0 | 1 | 18:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:00 | 3 | 0 | 0 | 0 | 0 | 3 | 19:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:15 | 1 | 0 | 0 | 0 | 0 | 1 | 19:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 | 2 | 0 | 0 | 0 | 0 | 2 | 19:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:45 | 3 | 0 | 0 | 0 | 0 | 3 | 19:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 | 3 | 0 | 0 | 0 | 0 | 3 | 20:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:15 | 1 | 0 | 0 | 0 | 0 | 1 | 20:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 2 | 0 | 0 | 0 | 0 | 2 | 21:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 | 1 | 0 | 0 | 0 | 0 | 1 | 21:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:45 | 4 | 0 | 0 | 0 | 0 | 4 | 21:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 3 | 0 | 0 | 0 | 0 | 3 | 22:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:45 | 1 | 0 | 0 | 0 | 0 | 1 | 22:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 2 | 0 | 0 | 0 | 0 | 2 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 11:30 | 1 0 | 0 0 | 0 0 | 0 0 | 0 | 1 0 | 23:15 23:30 | 1 0 | 0 0 | 0 0 | 0 0 | 0 | 1 0 |
| 11:30 11:45 | 3 | 0 | 0 | 0 | 0 | 3 | | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 3 69 | 0 | 0 | 0 | 0 | 69 | 23:45 TOTAL | 78 | 1 | 0 | 0 | 0 | 0 79 |
| IUIAL | 69 | U | U | U | Ü | 69 | IUIAL | /8 | 1 | U . | U | U | 79 |

AM PEAK HOUR 3:15 AM AM PEAK VOLUME 13

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 147 | 1 | 0 | 0 | 0 | 148 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.3% | 0.7% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 9 | 0 | 0 | 0 | 0 | 9 |
| PM PEAK | 7 | 0 | 0 | 0 | 0 | 7 |

Study Site 4 - Vesada Aparment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS74 Northern Dwy east of Country Village.

| AM | | | IN | | | | PM | | | IN | | | |
|----------------|----------|--------|--------|----------|---|----------|----------------|----------|----------|----|----------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 5 | 0 | 0 | 0 | 0 | 5 | 12:00 | 33 | 0 | 0 | 0 | 0 | 33 |
| 0:15 | 10 | 0 | 0 | 0 | 0 | 10 | 12:15 | 33 | 1 | 0 | 0 | 0 | 34 |
| 0:30 | 5 | 0 | 0 | 0 | 0 | 5 | 12:30 | 36 | 1 | 0 | 0 | 0 | 37 |
| 0:45 | 4 | 0 | 0 | 0 | 0 | 4 | 12:45 | 37 | 0 | 1 | 0 | 0 | 38 |
| 1:00 | | 0 | 0 | 0 | 0 | 7 | 13:00 | 34 | 0 | 0 | 0 | 0 | 34 |
| 1:15 | 6 | 0 | 0 | 0 | 0 | 6 | 13:15 | 36 | 0 | 0 | 0 | 0 | 36 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 32 | 0 | 0 | 0 | 0 | 32 |
| 1:45 | 5 | 0 | 0 | 0 | 0 | 5 | 13:45 | 34 | 2 | 0 | 0 | 0 | 36 |
| 2:00 | 6 | 0 | 0 | 0 | 0 | 6 | 14:00 | 33 | 0 | 0 | 0 | 0 | 33 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 26 | 2 | 0 | 0 | 0 | 28 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 34 | 0 | 0 | 0 | 0 | 34 |
| 2:45 | 5 | 0 | 0 | 0 | 0 | 5 | 14:45 | 39 | 0 | 0 | 0 | 0 | 39 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 49 | 0 | 0 | 0 | 0 | 49 |
| 3:15 | 2 | 0 | 0 | 0 | 0 | 2 | 15:15 | 39 | 0 | 0 | 0 | 0 | 39 |
| 3:30 | 7 | 0 | 0 | 0 | 0 | 7 | 15:30 | 26 | 0 | 0 | 0 | 0 | 26 |
| 3:45 | 8 | 0 | 0 | 0 | 0 | 8 | 15:45 | 65 | 0 | 0 | 0 | 0 | 65 |
| 4:00 | 3 | 0 | 0 | 0 | 0 | 3 | 16:00 | 49 | 0 | 0 | 0 | 0 | 49 |
| 4:15 | 6 | 0 | 0 | 0 | 0 | 6 | 16:15 | 59 | 1 | 0 | 0 | 0 | 60 |
| 4:30 | 4 | 0 | 0 | 0 | 0 | 4 | 16:30 | 74 | 0 | 0 | 0 | 0 | 74 |
| 4:45 | 7 | 0 | 0 | 0 | 0 | 7 | 16:45 | 52 | 0 | 0 | 0 | 0 | 52 |
| 5:00 | 6 | 0 | 0 | 0 | 0 | 6 | 17:00 | 47 | 0 | 0 | 0 | 0 | 47 |
| 5:15 | 6 | 0 | 0 | 0 | 0 | 6 | 17:15 | 51 | 0 | 0 | 0 | 0 | 51 |
| 5:30 | 3 | 0 | 0 | 0 | 0 | 3 | 17:30 | 50 | 0 | 0 | 0 | 0 | 50 |
| 5:45 | 7 | 0 | 0 | 0 | 0 | 7 | 17:45 | 55 | 0 | 0 | 0 | 0 | 55 |
| 6:00 | 5 | 0 | 0 | 0 | 0 | 5 | 18:00 | 60 | 0 | 0 | 0 | 0 | 60 |
| 6:15 | 15 | 0 | 0 | 0 | 0 | 15 | 18:15 | 52 | 0 | 0 | 0 | 0 | 52 |
| 6:30 | 13 | 0 | 0 | 0 | 0 | 13 | 18:30 | 44 | 0 | 0 | 0 | 0 | 44 |
| 6:45 | 11 | 0 | 0 | 0 | 0 | 11 | 18:45 | 51 | 2 | 0 | 0 | 0 | 53 |
| 7:00 | 19 | 0 | 0 | 0 | 0 | 19 | 19:00 | 42 | 0 | 0 | 0 | 0 | 42 |
| 7:15 | 16 | 0 | 0 | 0 | 0 | 16 | 19:15 | 26 | 0 | 0 | 0 | 0 | 26 |
| 7:30 | 14 | 0 | 0 | 0 | 0 | 14 | 19:30 | 46 | 0 | 0 | 0 | 0 | 46 |
| 7:45 | 34 | 0 | 0 | 0 | 0 | 34 | 19:45 | 42 | 0 | 0 | 0 | 0 | 42 |
| 8:00 | 30 | 0 | 0 | 0 | 0 | 30 | 20:00 | 44 | 0 | 0 | 0 | 0 | 44 |
| 8:15 | 39 | 0 | 0 | 0 | 0 | 39 | 20:15 | 35 | 0 | 0 | 0 | 0 | 35 |
| 8:30 | 28 | 0 | 0 | 0 | 0 | 28 | 20:30 | 29 | 0 | 0 | 0 | 0 | 29 |
| 8:45 | 27 | 0 | 0 | 0 | 0 | 27 | 20:45 | 33 | 0 | 0 | 0 | 0 | 33 |
| 9:00 | 22 | 0 | 0 | 0 | 0 | 22 | 21:00 | 31 | 0 | 0 | 0 | 0 | 31 |
| 9:15 | 21 | 0 | 0 | 0 | 0 | 21 | 21:15 | 27 | 0 | 0 | 0 | 0 | 27 |
| 9:30 | 20 | 2 | 0 | 0 | 0 | 22 | 21:30 | 27 | 0 | 0 | 0 | 0 | 27 |
| 9:45 | 24 | 2 | 0 | 0 | 0 | 26 | 21:45 | 27 | 0 | 0 | 0 | 0 | 27 |
| 10:00 | 19 | 1 | 0 | 0 | 0 | 20 | 22:00 | 22 | 0 | 0 | 0 | 0 | 22 |
| 10:15 10:30 | 17 | 1 0 | 0 0 | 0 0 | 0 | 18 21 | 22:15 22:30 | 24 | 0 0 | 0 | 0 0 | 0 | 24 |
| | 21 | 0 | | 0 | 0 | | 22:30 22:45 | 21 22 | 0 | 0 | 0 | _ | 21 22 |
| 10:45 11:00 | 12 31 | 0 | 0 | 0 | 0 | 12 32 | 22:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 11:00 11:15 | 31 28 | 0 | 0 | 0 | 0 | 32 28 | 23:00 23:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 11:15 | 28 21 | 1 | 0 | 0 | 0 | 28 22 | 23:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 11:30 | 23 | 2 | 0 | 0 | 0 | 25 | 23:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| TOTAL | 629 | 9 | 1 | 0 | 0 | 639 | TOTAL | 1,767 | 9 | 1 | 0 | 0 | 1,777 |
| IUIAL | 029 | פ | | A DEAK H | | 7.45.44 | IUIAL | 1,/0/ | <u> </u> | | 4 DEAK H | | 1,/// |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 131

AM PEAK HOUR 3:45 PM AM PEAK VOLUME 248

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 2,396 | 18 | 2 | 0 | 0 | 2,416 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.2% | 0.7% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 131 | 0 | 0 | 0 | 0 | 131 |
| PM PEAK | 234 | 1 | 0 | 0 | 0 | 235 |

Study Site 4 - Vesada Aparment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS74 Northern Dwy east of Country Village.

| AM | | | OUT | | | | PM | | | OUT | | | |
|---------------|----------|----------|--------|----------|---|----------|----------------|----------|--------|-----|----------|---|------------------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 27 | 2 | 0 | 0 | 0 | 29 |
| 0:15 | 4 | 0 | 0 | 0 | 0 | 4 | 12:15 | 33 | 0 | 0 | 0 | 0 | 33 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 34 | 2 | 0 | 0 | 0 | 36 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 28 | 1 | 0 | 0 | 0 | 29 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 29 | 0 | 1 | 0 | 0 | 30 |
| 1:15 | 3 | 0 | 0 | 0 | 0 | 3 | 13:15 | 44 | 0 | 0 | 0 | 0 | 44 |
| 1:30 | 5 | 0 | 0 | 0 | 0 | 5 | 13:30 | 38 | 1 | 0 | 0 | 0 | 39 |
| 1:45 | 3 | 0 | 0 | 0 | 0 | 3 | 13:45 | 29 | 1 | 0 | 0 | 0 | 30 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 24 | 2 | 0 | 0 | 0 | 26 |
| 2:15 | 5 | 0 | 0 | 0 | 0 | 5 | 14:15 | 22 | 0 | 0 | 0 | 0 | 22 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 25 | 1 | 0 | 0 | 0 | 26 |
| 2:45 | 2 | 0 | 0 | 0 | 0 | 2 | 14:45 | 35 | 0 | 0 | 0 | 0 | 35 |
| 3:00 | 5 | 0 | 0 | 0 | 0 | 5 | 15:00 | 31 | 0 | 0 | 0 | 0 | 31 |
| 3:15 | 4 | 0 | 0 | 0 | 0 | 4 | 15:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 3:30 | 16 | 0 | 0 | 0 | 0 | 16 | 15:30 | 29 | 0 | 0 | 0 | 0 | 29 |
| 3:45 | 6 | 0 | 0 | 0 | 0 | 6 | 15:45 | 29 | 0 | 0 | 0 | 0 | 29 |
| 4:00 | 17 | 0 | 0 | 0 | 0 | 17 | 16:00 | 26 | 0 | 0 | 0 | 0 | 26 |
| 4:15 | 6 | 0 | 0 | 0 | 0 | 6 | 16:15 | 29 | 0 | 0 | 0 | 0 | 29 |
| 4:30 | 17 | 0 | 0 | 0 | 0 | 17 | 16:30 | 29 | 1 | 0 | 0 | 0 | 30 |
| 4:45 | 20 | 2 | 0 | 0 | 0 | 22 | 16:45 | 31 | 0 | 0 | 0 | 0 | 31 |
| 5:00 | 19 | 1 | 0 | 0 | 0 | 20 | 17:00 | 30 | 0 | 0 | 0 | 0 | 30 |
| 5:15 | 14 | 0 | 0 | 0 | 0 | 14 | 17:15 | 34 | 0 | 0 | 0 | 0 | 34 |
| 5:30 | 14 | 0 | 0 | 0 | 0 | 14 | 17:30 | 38 | 0 | 0 | 0 | 0 | 38 |
| 5:45 | 17 | 0 | 0 | 0 | 0 | 17 | 17:45 | 36 | 0 | 0 | 0 | 0 | 36 |
| 6:00 | 18 | 0 | 0 | 0 | 0 | 18 | 18:00 | 37 | 0 | 0 | 0 | 0 | 37 |
| 6:15 | 38 | 0 | 0 | 0 | 0 | 38 | 18:15 | 41 | 0 | 0 | 0 | 0 | 41 |
| 6:30 | 34 | 0 | 0 | 0 | 0 | 34 | 18:30 | 31 | 0 | 0 | 0 | 0 | 31 |
| 6:45 | 46 | 0 | 0 | 0 | 0 | 46 | 18:45 | 21 | 0 | 0 | 0 | 0 | 21 |
| 7:00 | 46 | 0 | 0 | 0 | 0 | 46 | 19:00 | 31 | 0 | 0 | 0 | 0 | 31 |
| 7:15 | 82 | 0 | 0 | 0 | 0 | 82 | 19:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 7:30 | 56 | 0 | 0 | 0 | 0 | 56 | 19:30 | 40 | 1 | 0 | 0 | 0 | 41 |
| 7:45 | 52 | 0 | 0 | 0 | 0 | 52 | 19:45 | 32 | 0 | 0 | 0 | 0 | 32 |
| 8:00 | 48 | 0 | 0 | 0 | 0 | 48 | 20:00 | 30 | 0 | 0 | 0 | 0 | 30 |
| 8:15 | 59 | 1 | 0 | 0 | 0 | 60 | 20:15 | 17 | 0 | 0 | 0 | 0 | 17 |
| 8:30 | 26 | 0 | 0 | 0 | 0 | 26 | 20:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 8:45 | 32 | | 0 | 0 | 0 | 33 | 20:45 | 19 | 0 | 0 | 0 | 0 | 19 |
| 9:00 | 27 | 0 | 0 | 0 | 0 | 27 | 21:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 9:15 | 26 | 0 | 0 | 0 | 0 | 26 | 21:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 9:30 | 31 36 | 1 | 0 | 0 | 0 | 32 | 21:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 9:45 10:00 | | 0 | 0 | 0 | 0 | 36 28 | 21:45 22:00 | 19 13 | 0 | 0 | 0 | 0 | 19 |
| 10:00 | 28 | | | | | | 22:00 22:15 | | | | 0 | | 13 |
| 10:15 | 32 32 | 1 0 | 0 0 | 0 0 | 0 | 33 32 | 22:15 22:30 | 15 11 | 0 0 | 0 | 0 | 0 | 15 11 |
| 10:30 | 23 | 0 | 0 | 0 | 0 | 23 | 22:30 22:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 29 | 0 | 0 | 0 | 0 | 23 | 23:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 29 25 | 0 | 0 | 0 | 0 | 29 25 | 23:00 23:15 | 7 | 0 | 0 | 0 | 0 | 5 7 |
| 11:15 | 32 | 0 | 1 | 0 | 0 | 33 | 23:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:45 | 33 | 2 | 0 | 0 | 0 | 35 | 23:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| TOTAL | 1,080 | 9 | 1 | 0 | 0 | 1,090 | TOTAL | 1,205 | 12 | 1 | 0 | 0 | 1,218 |
| IOIAL | 1,000 | <i>y</i> | - | 4 DEAK H | | 7.15 AM | IVIAL | 1,203 | 14 | | A DEAK H | | 1,210 F.20 DM |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 238

AM PEAK HOUR 5:30 PM AM PEAK VOLUME 152

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 2,285 | 21 | 2 | 0 | 0 | 2,308 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.0% | 0.9% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 238 | 0 | 0 | 0 | 0 | 238 |
| PM PEAK | 138 | 0 | 0 | 0 | 0 | 138 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS84 Northern Dwy east of Milky Way.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|--------|--------|----------|---|---------|----------------|---------|--------|----|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 4 | 0 | 0 | 0 | 0 | 4 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 5 | 1 | 0 | 0 | 0 | 6 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 7 | 1 | 0 | 0 | 0 | 8 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:15 | 2 | 0 | 0 | 0 | 0 | 2 | 17:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:15 | 1 | 0 | 0 | 0 | 0 | 1 | 18:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:30 | 2 | 0 | 0 | 0 | 0 | 2 | 18:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:45 | 2 | 0 | 0 | 0 | 0 | 2 | 18:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:00 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:15 7:30 | 3 5 | 0 0 | 0 0 | 0 0 | 0 | 3 5 | 19:15 19:30 | 10 8 | 0 0 | 0 | 0 0 | 0 | 10 8 |
| 7:30 7:45 | 5 5 | 0 | 0 | 1 | 0 | 6 | 19:30 19:45 | 6 | 0 | 0 | 0 | 0 | 8 6 |
| 7:45 8:00 | 8 | 0 | 0 | 0 | 0 | 8 | 20:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 8:00 8:15 | 4 | 1 | 0 | 0 | 0 | 5 | 20:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 8:30 | 4 | 0 | 0 | 0 | 0 | 4 | 20:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:45 | 7 | 0 | 0 | 0 | 0 | 7 | 20:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:00 | 3 | 0 | 0 | 0 | 0 | 3 | 21:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:15 | 1 | 0 | 0 | 0 | 0 | 1 | 21:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:30 | 3 | 0 | 0 | 0 | 0 | 3 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 4 | 0 | 0 | 0 | 0 | 4 | 21:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 2 | 0 | 0 | 0 | 0 | 2 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 4 | 0 | 0 | 0 | 0 | 4 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 3 | 0 | 0 | 0 | 0 | 3 | 22:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:45 | 4 | 0 | 0 | 0 | 0 | 4 | 22:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 2 | 0 | 0 | 0 | 0 | 2 | 23:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:15 | 8 | 0 | 0 | 0 | 0 | 8 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 5 | 0 | 0 | 0 | 0 | 5 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 101 | 1 | 0 | 1 | 0 | 103 | TOTAL | 367 | 2 | 0 | 0 | 0 | 369 |
| | | | | 4 DEAL L | | 0.00 AM | | | | | A DEAK H | | 2.4F DM |

AM PEAK HOUR 8:00 AM AM PEAK VOLUME 24

AM PEAK HOUR 3:45 PM AM PEAK VOLUME 53

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 468 | 3 | 0 | 1 | 0 | 472 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.2% | 0.6% | 0.0% | 0.2% | 0.0% | 100.0% |
| AM PEAK | 23 | 1 | 0 | 0 | 0 | 24 |
| PM PEAK | 52 | 0 | 0 | 0 | 0 | 52 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS84 Northern Dwy east of Milky Way.

| AM | | | OUT | | | | PM | | | OUT | | | |
|----------------|---------|--------|--------|---|---|---------|----------------|-----|--------|--------|--------|---|-------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 12:15 | 11 | 1 | 0 | 0 | 0 | 12 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 10 | 1 | 0 | 0 | 0 | 11 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:15 | 3 | 0 | 0 | 0 | 0 | 3 | 13:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 4 | 2 | 0 | 0 | 0 | 6 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 8 | 1 | 0 | 0 | 0 | 9 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:15 | 2 | 0 | 0 | 0 | 0 | 2 | 15:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 19 | 0 | 0 | 0 | 0 | 19 |
| 4:15 | 3 | 0 | 0 | 0 | 0 | 3 | 16:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:30 | 3 | 0 | 0 | 0 | 0 | 3 | 16:30 | 4 | 0 0 | 0 | 0 | 0 | 4 |
| 4:45 5:00 | 2 2 | 0 | 0 | 0 | 0 | 2 2 | 16:45 17:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:00 5:15 | 3 | 0 | 0 | 0 | 0 | 3 | 17:00 17:15 | 5 | 1 | 0 | 0 | 0 | 6 |
| 5:15 5:30 | 10 | 0 | 0 | 0 | 0 | 10 | 17:15 17:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:30 5:45 | 9 | 0 | 0 | 0 | 0 | 9 | 17:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:00 | 3 | 0 | 0 | 0 | 0 | 3 | 18:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:15 | 12 | 0 | 0 | 0 | 0 | 12 | 18:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:30 | 12 | 0 | 0 | 0 | 0 | 12 | 18:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:45 | 5 | 0 | 0 | 0 | 0 | 5 | 18:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:00 | 10 | 0 | 0 | 0 | 0 | 10 | 19:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:15 | 19 | 0 | 0 | 0 | 0 | 19 | 19:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:30 | 13 | 0 | 0 | 0 | 0 | 13 | 19:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:45 | 17 | 0 | 0 | 0 | 0 | 17 | 19:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:00 | 13 | 0 | 0 | 0 | 0 | 13 | 20:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:15 | 15 | 0 | 0 | 0 | 0 | 15 | 20:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:30 | 14 | 0 | 0 | 0 | 0 | 14 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 8 | 0 | 0 | 0 | 0 | 8 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 9 | 0 | 0 | 0 | 0 | 9 | 21:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:15 | 7 | 0 | 0 | 0 | 0 | 7 | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 | 4 | 1 | 0 | 0 | 0 | 5 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 10 | 1 | 0 | 0 | 0 | 11 | 21:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 7 | 0 | 0 | 0 | 0 | 7 | 22:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:15 10:30 | 4 10 | 0 1 | 0 0 | 0 | 0 | 4 | 22:15 22:30 | 2 | 0 0 | 0 0 | 0 0 | 0 | 2 |
| 10:30 10:45 | 10 3 | 0 | 0 | 0 | 0 | 11 3 | 22:30 22:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 5 | 1 | 0 | 0 | 0 | 6 | 22:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 9 | 0 | 0 | 0 | 0 | 9 | 23:00 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 12 | 0 | 0 | 0 | 0 | 12 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 274 | 4 | 0 | 0 | 0 | 278 | TOTAL | 282 | 6 | 0 | 0 | 0 | 288 |
| IOIAL | ۷/٦ | т | U . | U | U | 2/0 | IVIAL | 202 | U | U . | U | U | 200 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 62

AM PEAK HOUR 5:15 PM AM PEAK VOLUME 42

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 556 | 10 | 0 | 0 | 0 | 566 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.2% | 1.8% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 62 | 0 | 0 | 0 | 0 | 62 |
| PM PEAK | 38 | 0 | 0 | 0 | 0 | 38 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS85 Middle Dwy east of Milky Way.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|-----|--------|--------|--------|---|--------|----------------|----------|--------|----|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 3 | 0 | 0 | 0 | 0 | 3 | 12:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0:15 | 3 | 0 | 0 | 0 | 0 | 3 | 12:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 14 | 0 | 0 | 0 | 0 | 14 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 12 | 1 | 0 | 0 | 0 | 13 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 12 | 1 | 0 | 0 | 0 | 13 |
| 1:30 | 6 | 0 | 0 | 0 | 0 | 6 | 13:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 11 | 1 | 0 | 0 | 0 | 12 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 3:15 3:30 | 0 | 0 0 | 0 0 | 0 0 | 0 | 0 | 15:15 15:30 | 10 10 | 0 0 | 0 | 0 0 | 0 | 10 |
| 3:30 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 15:45 | 10 | 0 | 0 | 0 | 0 | 10 18 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 19 | 0 | 0 | 0 | 0 | 19 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 20 | 0 | 0 | 0 | 0 | 20 |
| 4:45 | 1 | 0 | 0 | 0 | 0 | 1 | 16:45 | 18 | 1 | 0 | 0 | 0 | 19 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 20 | 0 | 0 | 0 | 0 | 20 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 19 | 0 | 0 | 0 | 0 | 19 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:30 | 19 | 0 | 0 | 0 | 0 | 19 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 2 | 0 | 0 | 0 | 0 | 2 | 18:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:15 | 2 | 0 | 0 | 0 | 0 | 2 | 18:15 | 30 | 0 | 0 | 0 | 0 | 30 |
| 6:30 | 4 | 0 | 0 | 0 | 0 | 4 | 18:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:45 | 2 | 0 | 0 | 0 | 0 | 2 | 18:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 7:00 | 3 | 0 | 0 | 0 | 0 | 3 | 19:00 | 23 | 3 | 0 | 0 | 0 | 26 |
| 7:15 | 3 | 0 | 0 | 0 | 0 | 3 | 19:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:30 | 9 | 0 | 0 | 0 | 0 | 9 | 19:30 | 19 | 0 | 0 | 0 | 0 | 19 |
| 7:45 | 9 | | 0 | 0 | 0 | 9 | 19:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 5 | 0 | 0 | 0 | 0 | 5 | 20:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 8:15 | 13 | 0 | 0 | 0 | 0 | 13 | 20:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:30 | 4 | 0 0 | 0 | 0 | 0 | 4 | 20:30 | 9 | 0 0 | 0 | 0 0 | 0 | 9 |
| 8:45 9:00 | 9 | 0 | 0 | 0 | 0 | 9 2 | 20:45 21:00 | | 0 | 0 | 0 | 0 | 6 7 |
| 9:00 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:30 | 9 | 0 | 0 | 0 | 0 | 9 | 21:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:45 | 7 | 0 | 0 | 0 | 0 | 7 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 3 | 0 | 0 | 0 | 0 | 3 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 6 | 0 | 0 | 0 | 0 | 6 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 8 | 0 | 0 | 0 | 0 | 8 | 22:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:00 | 6 | 0 | 0 | 0 | 0 | 6 | 23:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:15 | 13 | 0 | 0 | 0 | 0 | 13 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 11 | 1 | 0 | 0 | 0 | 12 | 23:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:45 | 7 | 0 | 0 | 0 | 0 | 7 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 167 | 1 | 0 | 0 | 0 | 168 | TOTAL | 545 | 7 | 0 | 0 | 0 | 552 |

AM PEAK HOUR 10:45 AM AM PEAK VOLUME 39

AM PEAK HOUR 6:15 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL AND DIA | 740 | 0 | ^ | ^ | ^ | 720 |
|---------------|-------|------|------|------|------|--------|
| TOTAL: AM+PM | /12 | 8 | U | U | U | 720 |
| % OF TOTAL | 98.9% | 1.1% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 31 | 0 | 0 | 0 | 0 | 31 |
| PM PEAK | 75 | 1 | 0 | 0 | 0 | 76 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS85 Middle Dwy east of Milky Way.

| AM | | | OUT | | | | PM | | | OUT | | | |
|----------------|--------|--------|-----|----------|---|-----------------|----------------|----------|--------|-----|----------|---|----------------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 0:15 | 3 | 0 | 0 | 0 | 0 | 3 | 12:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 6 | 1 | 0 | 0 | 0 | 7 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 9 | 2 | 0 | 0 | 0 | 11 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 6 | 1 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 10 | 1 | 0 | 0 | 0 | 11 |
| 2:30 | 3 | 0 | 0 | 0 | 0 | 3 | 14:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 12 | 2 | 0 | 0 | 0 | 14 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:30 | 5 | 0 | 0 | 0 | 0 | 5 | 15:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 16 | 1 | 0 | 0 | 0 | 17 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:30 | 5 | 2 | 0 | 0 | 0 | 7 | 16:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:45 | 3 | 0 | 0 | 0 | 0 | 3 | 16:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:15 | 9 | 0 | 0 | 0 | 0 | 9 | 17:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:30 | 8 | 2 | 0 | 0 | 0 | 10 | 17:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:45 | 7 | 2 | 0 | 0 | 0 | 9 | 17:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 6 | 0 | 0 | 0 | 0 | 6 | 18:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:15 | 12 | 0 | 0 | 0 | 0 | 12 | 18:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:30 | 7 | 0 | 0 | 0 | 0 | 7 | 18:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:45 | 8 | 0 | 0 | 0 | 0 | 8 | 18:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:00 | 6 | 0 | 0 | 0 | 0 | 6 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:15 | 8 | 0 | 0 | 0 | 0 | 8 | 19:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:30 | 27 | 3 | 0 | 0 | 0 | 30 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 17 | 0 | 0 | 0 | 0 | 17 | 19:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 25 | 0 | 0 | 0 | 0 | 25 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 13 | 0 | 0 | 0 | 0 | 13 | 20:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:30 | 19 | 0 | 0 | 0 | 0 | 19 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 12 | 0 | 0 | 0 | 0 | 12 | 20:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 3 | 0 | 0 | 0 | 0 | 3 | 21:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:15 | 6 | 0 | 0 | 0 | 0 | 6 | 21:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:30 | 9 | 0 | 0 | 0 | 0 | 9 | 21:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:45 | 11 | 0 | 0 | 0 | 0 | 11 | 21:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 22:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 8 | 0 | 0 | 0 | 0 | 8 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 7 | 0 | 0 | 0 | 0 | 7 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 8 | 0 | 0 | 0 | 0 | 8 | 22:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 8 | 0 | 0 | 0 | 0 | 8 | 23:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:15 | 8 5 | 0 | 0 | 0 | 0 | 8 5 | 23:15 | 3 | 0 | 0 | 0 0 | 0 | 3 |
| 11:30 | 5 9 | 0 0 | 0 | 0 0 | 0 | 5 9 | 23:30 | | 0 0 | 0 | 0 | 0 | 1 |
| 11:45 TOTAL | 295 | 9 | 0 | 0 | 0 | 304 | 23:45 TOTAL | 1 342 | 8 | 0 | 0 | 0 | 350 |
| IUIAL | 293 | 9 | | 4 DEAK H | | 30 4 | IUIAL | 342 | 0 | | A DEAK H | | 350 F:00 DM |

AM PEAK HOUR 7:30 AM AM PEAK VOLUME 85

AM PEAK HOUR 5:00 PM AM PEAK VOLUME 47

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 637 | 17 | 0 | 0 | 0 | 654 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 97.4% | 2.6% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 82 | 3 | 0 | 0 | 0 | 85 |
| PM PEAK | 47 | 0 | 0 | 0 | 0 | 47 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS86 Southern Dwy east of Milky Way.

| AM | | | IN | | | | PM | | | IN | | | |
|----------------|----------|----------|----|----------|---|----------|----------------|--------|--------|----|----------|---|----------------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 7 | 1 | 0 | 0 | 0 | 8 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 7 | 1 | 0 | 0 | 0 | 8 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 9 | 2 | 0 | 0 | 0 | 11 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 13 | 1 | 0 | 0 | 0 | 14 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 7 | 1 | 0 | 0 | 0 | 8 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 11 | 2 | 0 | 0 | 0 | 13 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 12 | 1 | 0 | 0 | 0 | 13 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 5:00 | 2 | 0 | 0 | 0 | 0 | 2 | 17:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 9 | 1 | 0 | 0 | 0 | 10 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 10 | 1 | 0 | 0 | 0 | 11 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 2 | 0 | 0 | 0 | 0 | 2 | 18:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:15 | 2 | 0 | 0 | 0 | 0 | 2 | 18:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 6:30 | 2 | 0 | 0 | 0 | 0 | 2 | 18:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:45 | 1 | 0 | 0 | 0 | 0 | 1 | 18:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 5 | 0 | 0 | 0 | 0 | 5 | 19:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:15 | 4 | 0 | 0 | 0 | 0 | 4 | 19:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:30 | 1 | 3 | 0 | 0 | 0 | 4 | 19:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 7:45 | 5 | 0 | 0 | 0 | 0 | 5 | 19:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 7 | 0 | 0 | 0 | 0 | 7 | 20:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 8:15 | 2 | 0 | 0 | 0 | 0 | 2 | 20:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 8:30 | 9 | 0 | 0 | 0 | 0 | 9 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | <u>5</u> | 0 | 0 | 0 | 0 | 5 | 20:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:00 | 5 | 0 | 0 | 0 | 0 | 5 | 21:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:15 | 4 | 0 | 0 | 0 | 0 | 4 | 21:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:30 | 6 | 0 | 0 | 0 | 0 | 6 | 21:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:45 | 3 | 1 | 0 | 0 | 0 | 4 | 21:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 3 | 0 | 0 | 0 | 0 | 3 | 22:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:15 | 4 | 0 | 0 | 0 | 0 | 4 | 22:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:30 | 4 | 0 | 0 | 0 | 0 | 4 | 22:30 | 7 4 | 0 0 | 0 | 0 0 | 0 | 7 |
| 10:45 11:00 | 5 | 0 | 0 | 0 | 0 | <u>3</u> | 22:45 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 11:15 | 2 | 0 | 0 | 0 | 0 | 2 | 23:00 23:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 9 | 0 | 0 | 0 | 0 | 9 | 23:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:30 | 2 | 0 | 0 | 0 | 0 | 2 | 23:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| TOTAL | 109 | <u> </u> | 0 | 0 | 0 | 114 | TOTAL | 398 | 11 | 0 | 0 | 0 | 409 |
| IOIAL | 109 | э | | A DEAK H | | 0.20 AM | IOIAL | 390 | 11 | | A DEAK H | | 409 4.20 DM |

AM PEAK HOUR 8:30 AM AM PEAK VOLUME 23

AM PEAK HOUR 4:30 PM AM PEAK VOLUME 50

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 507 | 16 | 0 | 0 | 0 | 523 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 96.9% | 3.1% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 23 | 0 | 0 | 0 | 0 | 23 |
| PM PEAK | 49 | 1 | 0 | 0 | 0 | 50 |

Study Site 5 - Morning Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS86 Southern Dwy east of Milky Way.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|---------|--------|--------|----------|---|----------|----------------|--------|--------|--------|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:30 | 3 | 0 | 0 | 0 | 0 | 3 | 13:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 4 | 1 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 5 | 1 | 0 | 0 | 0 | 6 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:00 | 2 | 0 | 0 | 0 | 0 | 2 | 16:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:15 | 2 | 0 | 0 | 0 | 0 | 2 | 16:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:30 | 9 | 0 | 0 | 0 | 0 | 9 | 16:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:45 | 3 | 0 | 0 | 0 | 0 | 3 | 16:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 6 | 0 | 0 | 0 | 0 | 6 | 17:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 5:15 | 9 | 0 | 0 | 0 | 0 | 9 | 17:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:30 | 8 | 0 | 0 | 0 | 0 | 8 | 17:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 5:45 | 5 | 0 | 0 | 0 | 0 | 5 | 17:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:00 | 8 | 0 | 0 | 0 | 0 | 8 | 18:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:15 | 7 | 0 | 0 | 0 | 0 | 7 | 18:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:30 | 8 | 0 | 0 | 0 | 0 | 8 | 18:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:45 | 3 | 0 | 0 | 0 | 0 | 3 | 18:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 4 | 0 | 0 | 0 | 0 | 4 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:15 7:30 | 5 12 | 0 0 | 0 0 | 0 0 | 0 | 5 12 | 19:15 19:30 | 7 4 | 0 0 | 0 0 | 0 0 | 0 | 7 4 |
| 7:30 7:45 | | 0 | 0 | 0 | 0 | 9 | 19:30 19:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:45 8:00 | 9 7 | 0 | 0 | 0 | 0 | 7 | 20:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:00 8:15 | 7 | 0 | 0 | 1 | 0 | 8 | 20:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 | 15 | 0 | 0 | 0 | 0 | 15 | 20:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 4 | 0 | 0 | 0 | 0 | 4 | 20:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:00 | 3 | 0 | 0 | 0 | 0 | 3 | 21:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:15 | 6 | 0 | 0 | 0 | 0 | 6 | 21:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:30 | 8 | 0 | 0 | 0 | 0 | 8 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 6 | 0 | 0 | 0 | 0 | 6 | 21:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 7 | 0 | 0 | 0 | 0 | 7 | 22:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:15 | 4 | 0 | 0 | 0 | 0 | 4 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 5 | 0 | 0 | 0 | 0 | 5 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 2 | 0 | 0 | 0 | 0 | 2 | 22:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 10 | 0 | 0 | 0 | 0 | 10 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 4 | 0 | 0 | 0 | 0 | 4 | 23:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 7 | 0 | 0 | 0 | 0 | 7 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 208 | 0 | 0 | 1 | 0 | 209 | TOTAL | 247 | 2 | 0 | 0 | 0 | 249 |
| | | | | A DEAK H | | 7.45 414 | | | | 1 | 4 DEAV U | | 4.20 DM |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 39

AM PEAK HOUR 4:30 PM AM PEAK VOLUME 41

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 455 | 2 | 0 | 1 | 0 | 458 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.3% | 0.4% | 0.0% | 0.2% | 0.0% | 100.0% |
| AM PEAK | 38 | 0 | 0 | 1 | 0 | 39 |
| PM PEAK | 41 | 0 | 0 | 0 | 0 | 41 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS71 Northern dwy west of Doolittle

| AM | | | IN | | | | PM | | | IN | | | |
|---------------|--------|--------|--------|---|---|-------|----------------|----------|--------|----|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:15 | 5 | 0 | 0 | 0 | 0 | 5 | 13:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:30 | 2 | 0 | 0 | 0 | 0 | 2 | 13:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:45 | 3 | 0 | 0 | 0 | 0 | 3 | 13:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 23 | 0 | 0 | 0 | 0 | 23 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 3:00 | 3 | 0 | 0 | 0 | 0 | 3 | 15:00 | 17 | 0 | 0 | 0 | 0 | 17 |
| 3:15 | 3 | 0 | 0 | 0 | 0 | 3 | 15:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 14 | 0 | 0 | 0 | 0 | 14 |
| 3:45 | 1 | 1 | 0 | 0 | 0 | 2 | 15:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:45 | 6 | 0 | 0 | 0 | 0 | 6 | 16:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 3 | 0 | 0 | 0 | 0 | 3 | 17:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:15 | 6 | 0 | 0 | 0 | 0 | 6 | 17:15 | 22 | 0 | 0 | 0 | 0 | 22 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 6:00 | 2 | 0 | 0 | 0 | 0 | 2 | 18:00 | 20 | 0 | 0 | 0 | 0 | 20 |
| 6:15 | 1 | 0 | 0 | 0 | 0 | 1 | 18:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:30 | 2 | 0 | 0 | 0 | 0 | 2 | 18:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 6:45 | 3 | 0 | 0 | 0 | 0 | 3 | 18:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 7:00 | 3 | 0 | 0 | 0 | 0 | 3 | 19:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:15 | 4 | 0 | 0 | 0 | 0 | 4 | 19:15 | 6 | 1 | 0 | 0 | 0 | 7 |
| 7:30 | 4 | 0 | 0 | 0 | 0 | 4 | 19:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:45 | 9 | 0 | 0 | 0 | 0 | 9 | 19:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 13 | 0 | 0 | 0 | 0 | 13 | 20:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:15 | 7 | 0 | 0 | 0 | 0 | 7 | 20:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 8:30 | 12 | 1 | 0 | 0 | 0 | 13 | 20:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 8:45 | 13 | | 0 | 0 | 0 | 13 | 20:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 9:00 | 5 | 0 | 0 | 0 | 0 | 5 | 21:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:30 9:45 | 4 7 | 0 1 | 0 0 | 0 | 0 | 4 | 21:30 21:45 | 12 12 | 0 0 | 0 | 0 0 | 0 | 12 12 |
| 9:45 10:00 | 2 | 0 | 0 | 0 | 0 | 8 | 21:45 | 8 | 0 | 0 | 0 | 0 | 12 8 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 22:00 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 5 6 | 0 | 0 | 0 | 0 | 6 | 22:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:30 | 7 | 0 | 0 | 0 | 0 | 7 | 22:30 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 8 | 1 | 0 | 0 | 0 | 9 | 23:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 1 | 23:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:15 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:45 | 11 | 0 | 0 | 0 | 0 | 11 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 183 | 4 | 0 | 0 | 0 | 187 | TOTAL | 570 | 1 | 0 | 0 | 0 | 571 |
| IUIAL | 103 | 7 | U | U | U | 10/ | IUIAL | 3/0 | 1 | U | U | U | 5/1 |

AM PEAK HOUR 8:00 AM AM PEAK VOLUME 46

AM PEAK HOUR 5:15 PM AM PEAK VOLUME 76

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 753 | 5 | 0 | 0 | 0 | 758 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.3% | 0.7% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 45 | 1 | 0 | 0 | 0 | 46 |
| PM PEAK | 72 | 0 | 0 | 0 | 0 | 72 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS71 Northern dwy west of Doolittle

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|-----|----------|---------------|----------|---|--------|----------------|---------|---------------|-----|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 13 | 1 | 0 | 0 | 0 | 14 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 14 | 1 | 0 | 0 | 0 | 15 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 6 | 1 | 0 | 0 | 0 | 7 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:15 | 6 | 0 | 0 | 0 | 0 | 6 | 15:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 3:30 | 5 | 0 | 0 | 0 | 0 | 5 | 15:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:45 | 6 | 0 | 0 | 0 | 0 | 6 | 15:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:00 | 5 | 0 | 0 | 0 | 0 | 5 | 16:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:15 | 4 | 0 | 0 | 0 | 0 | 4 | 16:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:30 | 6 | 0 | 0 | 0 | 0 | 6 | 16:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:45 | 4 | <u>0</u> | 0 | 0 | 0 | 4 | 16:45 17:00 | 12 8 | 0 | 0 | 0 | 0 | 12 8 |
| 5:00 5:15 | 7 | 0 | 0 0 | 0 | 0 | 6 7 | 17:00 17:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:15 5:30 | 11 | 0 | 0 | 0 | 0 | 11 | 17:15 17:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:30 5:45 | 11 | 0 | 0 | 0 | 0 | 12 | 17:30 17:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:15 | 7 | 0 | 0 | 0 | 0 | 7 | 18:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:30 | 12 | 0 | 0 | 0 | 0 | 12 | 18:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:45 | 17 | 0 | 0 | 0 | 0 | 17 | 18:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:00 | 8 | 0 | 0 | 0 | 0 | 8 | 19:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:15 | 16 | 0 | 0 | 0 | 0 | 16 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 21 | 0 | 0 | 0 | 0 | 21 | 19:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:45 | 18 | 0 | 0 | 0 | 0 | 18 | 19:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:00 | 13 | 0 | 0 | 0 | 0 | 13 | 20:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:15 | 5 | 0 | 0 | 0 | 0 | 5 | 20:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 8:30 | 7 | 0 | 0 | 0 | 0 | 7 | 20:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:45 | 8 | 0 | 0 | 0 | 0 | 8 | 20:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:00 | 10 | 0 | 1 | 0 | 0 | 11 | 21:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:15 | 14 | 0 | 0 | 0 | 0 | 14 | 21:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:30 | 7 | 1 | 0 | 0 | 0 | 8 | 21:30 | 3 | 1 | 0 | 0 | 0 | 4 |
| 9:45 | 7 | 0 | 0 | 0 | 0 | 7 | 21:45 | 5 | 1 | 0 | 0 | 0 | 6 |
| 10:00 | 7 | 1 | 0 | 0 | 0 | 8 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 5 | 1 | 0 | 0 | 0 | 6 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 5 | 1 | 0 | 0 | 0 | 6 | 22:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:45 | 10 | 2 | 0 | 0 | 0 | 12 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 5 | 1 | 0 | 0 | 0 | 6 | 23:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:15 | 4 | 0 | 0 | 0 | 0 | 4 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 7 | 1 | 0 | 0 | 0 | 8 | 23:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 13 | 0 | <u>0</u> 1 | 0 | 0 | 13 | 23:45 | 1 401 | <u>0</u> 5 | 0 | 0 | 0 | 106 |
| TOTAL | 309 | 8 | | 4 DEAK H | | 318 | TOTAL | 401 | 5 | | U DEAK H | | 406 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 68

AM PEAK HOUR 1:15 PM AM PEAK VOLUME 59

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 710 | 13 | 1 | 0 | 0 | 724 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.1% | 1.8% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 68 | 0 | 0 | 0 | 0 | 68 |
| PM PEAK | 47 | 0 | 0 | 0 | 0 | 47 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS72 Southern dwy west of Doolittle

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|-----|----|----|---|---|-------|----------------|----------|---|----|---|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 19 | 1 | 0 | 0 | 0 | 20 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 16 | 1 | 0 | 0 | 0 | 17 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 13 | 1 | 0 | 0 | 0 | 14 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 17 | 1 | 0 | 0 | 0 | 18 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 21 | 0 | 0 | 0 | 0 | 21 |
| 3:15 | 2 | 0 | 0 | 0 | 0 | 2 | 15:15 | 19 | 2 | 0 | 0 | 0 | 21 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 19 | 1 | 0 | 0 | 0 | 20 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 24 | 0 | 0 | 0 | 0 | 24 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 24 | 0 | 0 | 0 | 0 | 24 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 21 | 0 | 0 | 0 | 0 | 21 |
| 5:45 6:00 | 0 | 0 | 0 | 0 | 0 | 1 0 | 17:45 18:00 | 23 12 | 0 | 0 | 0 | 0 | 23 12 |
| 6:00 | 4 | 0 | 0 | 0 | 0 | 4 | 18:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 6:30 | 3 | 0 | 0 | 0 | 0 | 3 | 18:30 | 13 | 0 | 0 | 0 | 0 | 12 |
| 6:45 | 3 | 0 | 0 | 0 | 0 | 3 | 18:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 7:00 | 4 | 0 | 0 | 0 | 0 | 4 | 19:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:15 | 4 | 2 | 0 | 0 | 0 | 6 | 19:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 7:30 | 6 | 1 | 0 | 0 | 0 | 7 | 19:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:45 | 4 | 0 | 0 | 0 | 0 | 4 | 19:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:00 | 13 | 0 | 0 | 0 | 0 | 13 | 20:00 | 13 | 1 | 0 | 0 | 0 | 14 |
| 8:15 | 11 | 0 | 0 | 0 | 0 | 11 | 20:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 8:30 | 10 | 0 | 1 | 0 | 0 | 11 | 20:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 8:45 | 6 | 0 | 0 | 0 | 0 | 6 | 20:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 9:00 | 10 | 0 | 0 | 0 | 0 | 10 | 21:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 9:15 | 13 | 0 | 0 | 0 | 0 | 13 | 21:15 | 8 | 1 | 0 | 0 | 0 | 9 |
| 9:30 | 10 | 1 | 0 | 0 | 0 | 11 | 21:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:45 | 7 | 0 | 0 | 0 | 0 | 7 | 21:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 10:00 | 5 | 0 | 1 | 0 | 0 | 6 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 10 | 2 | 0 | 0 | 0 | 12 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 21 | 1 | 0 | 0 | 0 | 22 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 7 | 1 | 0 | 0 | 0 | 8 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 14 | 0 | 0 | 0 | 0 | 14 | 23:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 10 | 2 | 0 | 0 | 0 | 12 | 23:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 18 | 1 | 0 | 0 | 0 | 19 | 23:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:45 | 10 | 0 | 0 | 0 | 0 | 10 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 225 | 11 | 2 | 0 | 0 | 238 | TOTAL | 594 | 9 | 0 | 0 | 0 | 603 |

AM PEAK HOUR 10:30 AM AM PEAK VOLUME 56

AM PEAK HOUR 5:00 PM AM PEAK VOLUME 83

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 819 | 20 | 2 | 0 | 0 | 841 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 97.4% | 2.4% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 38 | 0 | 1 | 0 | 0 | 39 |
| PM PEAK | 83 | 0 | 0 | 0 | 0 | 83 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS72 Southern dwy west of Doolittle

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|---------|--------|--------|----------|---|---------|----------------|--------|---|--------|----------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 11 | 1 | 0 | 0 | 0 | 12 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 3:45 | 3 | 0 | 0 | 0 | 0 | 3 | 15:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:00 | 6 | 1 | 0 | 0 | 0 | 7 | 16:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:15 | 2 | 0 | 0 | 0 | 0 | 2 | 16:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:30 | 2 | 0 | 0 | 0 | 0 | 2 | 16:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:15 | 5 | 0 | 0 | 0 | 0 | 5 | 17:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:30 | 7 | 0 | 0 | 0 | 0 | 7 | 17:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:45 | 5 | 0 | 0 | 0 | 0 | 5 | 17:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 5 | 0 | 0 | 0 | 0 | 5 | 18:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:15 | 4 | 0 | 0 | 0 | 0 | 4 | 18:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:30 | 12 | 0 | 0 | 0 | 0 | 12 | 18:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:45 | 4 | 0 | 0 | 0 | 0 | 4 | 18:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 7:00 | 5 | 0 | 0 | 0 | 0 | 5 | 19:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:15 | 6 | 0 | 0 | 0 | 0 | 6 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 11 | 0 | 0 | 0 | 0 | 11 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 18 8 | 0 | 0 | 0 | 0 | 18 | 19:45 20:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:00 8:15 | 8 11 | 0 | 0 0 | 0 | 0 | 8 11 | 20:00 20:15 | 3 5 | 0 | 0 0 | 0 | 0 | 3 5 |
| | | | | | _ | | | 5 | 0 | | 0 | - | 5 5 |
| 8:30 8:45 | 11 1 | 0 0 | 0 0 | 0 0 | 0 | 11 1 | 20:30 20:45 | 2 | 0 | 0 0 | 0 | 0 | 2 |
| 9:00 | 4 | 0 | 0 | 0 | 0 | 4 | 20:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 9 | 0 | 0 | 0 | 0 | 9 | 21:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:30 | 8 | 0 | 0 | 0 | 0 | 8 | 21:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:45 | 8 | 0 | 0 | 0 | 0 | 8 | 21:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 3 | 0 | 0 | 0 | 0 | 3 | 22:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:15 | 10 | 0 | 0 | 0 | 0 | 10 | 22:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:30 | 9 | 0 | 0 | 0 | 0 | 9 | 22:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:45 | 9 | 0 | 0 | 0 | 0 | 9 | 22:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 7 | 0 | 0 | 0 | 0 | 7 | 23:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:15 | 10 | 0 | 0 | 0 | 0 | 10 | 23:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 8 | 0 | 0 | 0 | 0 | 8 | 23:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:45 | 8 | 0 | 0 | 0 | 0 | 8 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 235 | 1 | 0 | 0 | 0 | 236 | TOTAL | 296 | 1 | 0 | 0 | 0 | 297 |
| IVIAL | 233 | | | 4 DEAK H | | 7.4F AM | IVIAL | 250 | | | A DEAK H | | 2.20 DM |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 48

AM PEAK HOUR 3:30 PM AM PEAK VOLUME 42

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 531 | 2 | 0 | 0 | 0 | 533 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.6% | 0.4% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 48 | 0 | 0 | 0 | 0 | 48 |
| PM PEAK | 40 | 0 | 0 | 0 | 0 | 40 |

Study Site 7 - River's Edge Apartment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS82 Dwy east of Elm.

| AM | IN | | | | | PM | | | IN | | | | | |
|---------------|--------|--------|------------|--------|---|-------|----------------|---|--------|----------|--------|---|-------|--|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL | |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3:45 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:00 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6:15 | 0 | 0 | 0 | 0 | 0 | 0 | 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6:30 | 0 | 0 | 0 | 0 | 0 | 0 | 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 0 | 19:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:15 | 0 | 0 | 0 | 0 | 0 | 0 | 19:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 19:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 19:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:15 | 0 | 0 | 0 | 0 | 0 | 0 | 20:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:30 | 1 | 0 | 0 | 0 | 0 | 1 | 20:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 20:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9:15 | 0 | 0 0 | 0 | 0 0 | 0 | 0 | 21:15 21:30 | 0 | 0 0 | 0 | 0 0 | 0 | 0 | |
| 9:30 9:45 | 0 0 | 0 | 0 0 | 0 | 0 | 0 | 21:30 21:45 | 0 | 0 | 0 0 | 0 | 0 | 0 | |
| 9:45 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 22:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11:15 | 1 | 0 | 0 | 0 | 0 | 1 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TOTAL | 2 | 0 | 0 | 0 | 0 | 2 | TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | |
| | _ | | <u>`</u> _ | | J | | | | | <u>`</u> | | J | J | |

AM PEAK HOUR 11:15 AM AM PEAK VOLUME

AM PEAK HOUR 11:45 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 2 | 0 | 0 | 0 | 0 | 2 |
|--------------|--------|------|------|------|------|--------|
| % OF TOTAL | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 1 | 0 | 0 | 0 | 0 | 1 |
| PM PEAK | 0 | 0 | 0 | 0 | 0 | 0 |

Study Site 7 - River's Edge Apartment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS82 Dwy east of Elm.

| AM | | | OUT | | | | PM | | | OUT | | | |
|---------------|----|---|-----|---|---|-------|----------------|----|---|-----|---|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 2 | 1 | 0 | 0 | 0 | 3 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 1 | 1 | 0 | 0 | 0 | 2 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 3 | 0 | 0 | 1 | 0 | 4 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:00 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 16:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 1 | 1 | 0 | 0 | 0 | 2 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:45 | 2 | 0 | 0 | 0 | 0 | 2 | 17:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:15 | 0 | 0 | 0 | 0 | 0 | 0 | 18:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:30 | 0 | 0 | 0 | 0 | 0 | 0 | 18:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:00 | 0 | 0 | 0 | 0 | 0 | 0 | 19:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:15 | 1 | 0 | 0 | 0 | 0 | 1 | 19:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:30 | 2 | 0 | 0 | 0 | 0 | 2 | 19:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:45 | 7 | 0 | 0 | 0 | 0 | 7 | 19:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 | 5 | 0 | 0 | 0 | 0 | 5 | 20:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 | 1 | 0 | 0 | 0 | 0 | 1 | 20:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:30 | 4 | 0 | 0 | 0 | 0 | 4 | 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 | 1 | 0 | 0 | 0 | 0 | 1 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 4 | 0 | 0 | 0 | 0 | 4 | 21:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:15 | 1 | 0 | 0 | 0 | 0 | 1 | 21:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:30 | 2 | 0 | 0 | 0 | 0 | 2 | 21:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:45 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 21:45 22:00 | 4 | 0 | 0 | 0 | 0 | 4 1 |
| 10:00 | 1 | 0 | 0 | 0 | 0 | 1 | 22:00 22:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:15 | 1 | 0 | 0 | 0 | 0 | 1 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 22:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 1 | 1 | 0 | 0 | 0 | 2 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 2 | 0 | 0 | 0 | 0 | 2 | 23:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 0 | 1 | 0 | 0 | 0 | 1 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 38 | 2 | 0 | 0 | 0 | 40 | TOTAL | 65 | 3 | 0 | 1 | 0 | 69 |
| | | _ | | | J | .0 | | | | | - | , | 3,7 |

AM PEAK HOUR 7:45 AM AM PEAK VOLUME 17

AM PEAK HOUR 3:15 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 103 | 5 | 0 | 1 | 0 | 109 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 94.5% | 4.6% | 0.0% | 0.9% | 0.0% | 100.0% |
| AM PEAK | 17 | 0 | 0 | 0 | 0 | 17 |
| PM PEAK | 9 | 1 | 0 | 0 | 0 | 10 |

Study Site 7 - River's Edge Apartment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS83 Dwy south of Lakeshore.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|----------|----|--------|--------|---|--------|----------------|----------|--------|--------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 3 | 0 | 0 | 0 | 0 | 3 | 12:00 | 23 | 3 | 0 | 0 | 0 | 26 |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:15 | 17 | 2 | 0 | 0 | 0 | 19 |
| 0:30 | 4 | 0 | 0 | 0 | 0 | 4 | 12:30 | 22 | 0 | 0 | 0 | 0 | 22 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 17 | 0 | 0 | 0 | 0 | 17 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 17 | 2 | 0 | 0 | 0 | 19 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 1:45 | 3 | 0 | 0 | 0 | 0 | 3 | 13:45 | 36 | 0 | 0 | 0 | 0 | 36 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 29 | 0 | 0 | 0 | 0 | 29 |
| 2:15 | 2 | 0 | 0 | 0 | 0 | 2 | 14:15 | 25 | 2 | 0 | 0 | 0 | 27 |
| 2:30 | 3 | 0 | 0 | 0 | 0 | 3 | 14:30 | 13 | 2 | 0 | 0 | 0 | 15 |
| 2:45 | 5 | 0 | 0 | 0 | 0 | 5 | 14:45 | 32 | 1 | 0 | 1 | 0 | 34 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 27 | 0 | 0 | 0 | 0 | 27 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 19 | 0 | 0 | 0 | 0 | 19 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 25 | 1 | 0 | 0 | 0 | 26 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 43 | 0 | 0 | 0 | 0 | 43 |
| 4:00 | 2 | 0 | 0 | 0 | 0 | 2 | 16:00 | 36 | 0 | 0 | 0 | 0 | 36 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 23 | 1 | 0 | 0 | 0 | 24 |
| 4:30 | 2 | 0 | 0 | 0 | 0 | 2 | 16:30 | 41 | 0 | 0 | 0 | 0 | 41 |
| 4:45 | <u> </u> | 1 | 0 | 0 | 0 | 3 | 16:45 | 35 | 0 | 0 | 0 | 0 | 35 |
| 5:00 | 3 | 0 | 0 | 0 | 0 | 3 | 17:00 | 42 | 2 | 0 | 0 | 0 | 44 |
| 5:15 | 3 | 0 | 0 | 0 | 0 | 3 | 17:15 | 35 | 0 | 0 | 0 | 0 | 35 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 32 | 0 | 0 | 0 | 0 | 32 |
| 5:45 | 7 | 0 | 0 | 0 | 0 | 7 | 17:45 | 27 | 0 | 0 | 0 | 0 | 27 |
| 6:00 | 6 | 0 | 0 | 0 | 0 | 6 | 18:00 | 45 | 0 | 0 | 0 | 0 | 45 |
| 6:15 | 6 | 0 | 0 | 0 | 0 | 6 | 18:15 | 40 | 0 | 0 | 0 | 0 | 40 |
| 6:30 6:45 | 3 1 | 0 | 0 0 | 0 0 | 0 | 3 1 | 18:30 18:45 | 35 30 | 1 0 | 0 0 | 0 0 | 0 | 36 30 |
| 7:00 | 8 | 1 | 0 | 0 | 0 | 9 | 19:00 | 32 | 0 | 0 | 0 | 0 | 32 |
| 7:00 7:15 | 4 | 1 | 0 | 0 | 0 | 5 | 19:15 | 29 | 0 | 0 | 0 | 0 | 29 |
| 7:30 | 21 | 0 | 0 | 0 | 0 | 21 | 19:30 | 23 | 0 | 0 | 0 | 0 | 23 |
| 7:45 | 28 | 0 | 0 | 0 | 0 | 28 | 19:45 | 27 | 0 | 0 | 0 | 0 | 27 |
| 8:00 | 17 | 0 | 0 | 0 | 0 | 17 | 20:00 | 37 | 1 | 0 | 0 | 0 | 38 |
| 8:15 | 28 | 0 | 0 | 0 | 0 | 28 | 20:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 8:30 | 11 | 0 | 0 | 0 | 0 | 11 | 20:30 | 20 | 0 | 0 | 0 | 0 | 20 |
| 8:45 | 14 | 1 | 0 | 0 | 0 | 15 | 20:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 9:00 | 13 | 0 | 0 | 0 | 0 | 13 | 21:00 | 31 | 0 | 0 | 0 | 0 | 31 |
| 9:15 | 15 | 1 | 0 | 0 | 0 | 16 | 21:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 9:30 | 12 | 2 | 0 | 0 | 0 | 14 | 21:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 9:45 | 14 | 1 | 0 | 0 | 0 | 15 | 21:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 10:00 | 15 | 3 | 0 | 0 | 0 | 18 | 22:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 10:15 | 15 | 1 | 0 | 0 | 0 | 16 | 22:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 10:30 | 10 | 2 | 0 | 0 | 0 | 12 | 22:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 10:45 | 10 | 1 | 0 | 0 | 0 | 11 | 22:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 12 | 2 | 0 | 0 | 0 | 14 | 23:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:15 | 12 | 0 | 0 | 0 | 0 | 12 | 23:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:30 | 22 | 0 | 0 | 0 | 0 | 22 | 23:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:45 | 26 | 0 | 0 | 0 | 0 | 26 | 23:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| TOTAL | 380 | 17 | 0 | 0 | 0 | 397 | TOTAL | 1,151 | 18 | 0 | 1 | 0 | 1,170 |

AM PEAK HOUR 7:30 AM AM PEAK VOLUME

| AM PEAK HOUR | 4:30 PM |
|----------------|---------|
| AM PEAK VOLUME | 155 |

| CLASS 1 | |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 1,531 | 35 | 0 | 1 | 0 | 1,567 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 97.7% | 2.2% | 0.0% | 0.1% | 0.0% | 100.0% |
| AM PEAK | 94 | 0 | 0 | 0 | 0 | 94 |
| PM PEAK | 153 | 2 | 0 | 0 | 0 | 155 |

Study Site 7 - River's Edge Apartment Homes

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS83 Dwy south of Lakeshore.

| AM | | | OUT | | | | PM | | | OUT | | | |
|----------------|-----------|---------|--------|-----------------------------|---|-----------|----------------|-----|---------|--------|----------|---|----------------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 7 | 0 | 0 | 0 | 0 | 7 | 12:00 | 21 | 0 | 0 | 0 | 0 | 21 |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 20 | 1 | 0 | 0 | 0 | 21 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 14 | 1 | 0 | 0 | 0 | 15 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 1:15 | 3 | 0 | 0 | 0 | 0 | 3 | 13:15 | 16 | 0 | 0 | 0 | 0 | 16 |
| 1:30 | 2 | 0 | 0 | 0 | 0 | 2 | 13:30 | 22 | 1 | 0 | 0 | 0 | 23 |
| 1:45 | 2 | 0 | 0 | 0 | 0 | 2 | 13:45 | 24 | 1 | 0 | 0 | 0 | 25 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 23 | 0 | 0 | 0 | 0 | 23 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 25 | 1 | 0 | 0 | 0 | 26 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 26 | 1 | 0 | 0 | 0 | 27 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 18 | 1 | 0 | 0 | 0 | 19 |
| 3:15 | 5 | 0 | 0 | 0 | 0 | 5 | 15:15 | 31 | 0 | 0 | 0 | 0 | 31 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 23 | 0 | 0 | 0 | 0 | 23 |
| 3:45 | 6 | 0 | 0 | 0 | 0 | 6 | 15:45 | 31 | 1 | 0 | 0 | 0 | 32 |
| 4:00 | 3 | 0 | 0 | 0 | 0 | 3 | 16:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 4:15 | 9 | 0 | 0 | 0 | 0 | 9 | 16:15 | 23 | 0 | 0 | 0 | 0 | 23 |
| 4:30 | 9 | 0 | 0 | 0 | 0 | 9 | 16:30 | 25 | 0 | 0 | 0 | 0 | 25 |
| 4:45 | 17 | 0 | 0 | 0 | 0 | 17 | 16:45 | 27 | 0 | 0 | 0 | 0 | 27 |
| 5:00 | 7 | 0 | 0 | 0 | 0 | 7 | 17:00 | 32 | 0 | 0 | 0 | 0 | 32 |
| 5:15 | 13 | 0 | 0 | 0 | 0 | 13 | 17:15 | 25 | 0 | 0 | 0 | 0 | 25 |
| 5:30 | 15 | 1 | 0 | 0 | 0 | 16 | 17:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 5:45 | 13 | 0 | 0 | 0 | 0 | 13 | 17:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 6:00 | 12 | 1 | 0 | 0 | 0 | 13 | 18:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 6:15 | 19 | 0 | 0 | 0 | 0 | 19 | 18:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 6:30 | 23 | 0 | 0 | 0 | 0 | 23 | 18:30 | 25 | 1 | 0 | 0 | 0 | 26 |
| 6:45 | 16 | 1 | 0 | 0 | 0 | 17 | 18:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:00 | 13 | 2 | 0 | 0 | 0 | 15 | 19:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:15 | 35 | 0 | 0 | 0 | 0 | 35 | 19:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 7:30 | 55 | 0 | 0 | 0 | 0 | 55 | 19:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 7:45 | 40 | 0 | 0 | 0 | 0 | 40 | 19:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 8:00 | 35 | 0 | 0 | 0 | 0 | 35 | 20:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 8:15 | 20 | 0 | 0 | 0 | 0 | 20 | 20:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 8:30 | 17 | 0 | 0 | 0 | 0 | 17 | 20:30 | 15 | 1 | 0 | 0 | 0 | 16 |
| 8:45 | 18 | 0 | 0 | 0 | 0 | 18 | 20:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 9:00 | 21 | 0 | 0 | 0 | 0 | 21 | 21:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 9:15 | 28 | 0 | 0 | 0 | 0 | 28 | 21:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:30 | 24 | 1 | 0 | 0 | 0 | 25 | 21:30 | 6 | 1 | 0 | 0 | 0 | 7 |
| 9:45 | 13 | 0 | 0 | 0 | 0 | 13 | 21:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 21 | 2 | 0 | 0 | 0 | 23 | 22:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:15 | 26 | 3 | 0 | 0 | 0 | 29 | 22:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:30 | 16 | 2 | 0 | 0 | 0 | 18 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 7 |
| 10:45 | 16 | 3 | 0 | 0 | 0 | 19 | 22:45 | 7 | 0 | 0 | 0 | 0 | |
| 11:00 | 15 | 0 | 0 | 0 | 0 | 15 | 23:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:15 | 14 | 1 | 0 | 0 | 0 | 15 | 23:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:30 | 21 | 0 | 0 0 | 0 | 0 | 21 | 23:30 | 4 | 0 | 0 0 | 0 0 | 0 | 4 |
| 11:45 TOTAL | 16 656 | 1 18 | 0 | 0 | 0 | 17 674 | 23:45 TOTAL | 775 | 0 11 | 0 | 0 | 0 | 2 |
| IUIAL | 050 | 18 | | <u>υ</u> Μ ΡΕΔΚ Η | | 7·15 AM | IUIAL | //5 | 11 | | M PFAK H | | 786 4·30 PM |

| AM | PEAK | HOUR | /:15 AM |
|----|-------------|--------|---------|
| ΑM | PEAK | VOLUME | 165 |

| AM PEAK HOUR | 4:30 PM |
|----------------|---------|
| AM PEAK VOLUME | 109 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 1,431 | 29 | 0 | 0 | 0 | 1,460 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.0% | 2.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 165 | 0 | 0 | 0 | 0 | 165 |
| PM PEAK | 109 | 0 | 0 | 0 | 0 | 109 |

Study Site 8 - Mayberry Colony Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS90 Western Dwy south of Mayberry.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|--------|--------|--------|---|--------|----------------|----------|--------|----|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:15 | 3 | 0 | 0 | 0 | 0 | 3 | 13:15 | 10 | 0 | 0 | 1 | 0 | 11 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:15 | 3 | 0 | 0 | 0 | 0 | 3 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 3:00 | 4 | 0 | 0 | 0 | 0 | 4 | 15:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 17 | 1 | 0 | 0 | 0 | 18 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 2 | 17:00 17:15 | 9 10 | 0 | 0 | 0 | 0 | 9 10 |
| 5:15 | 2 | 0 0 | 0 | 0 0 | 0 | 0 | 17:15 17:30 | | 0 0 | 0 | 0 0 | 0 | |
| 5:30 5:45 | 0 0 | 0 | 0 0 | 0 | 0 | 0 | 17:30 17:45 | 14 11 | 0 | 0 | 0 | 0 | 14 11 |
| 6:00 | 3 | 0 | 0 | 0 | 0 | 3 | 18:00 | 8 | 1 | 0 | 0 | 0 | 9 |
| 6:00 | 5 | 0 | 0 | 0 | 0 | 5 | 18:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:30 | 6 | 0 | 0 | 0 | 0 | 6 | 18:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 8 | 1 | 0 | 0 | 0 | 9 |
| 7:00 | 2 | 0 | 0 | 0 | 0 | 2 | 19:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:15 | 5 | 0 | 0 | 0 | 0 | 5 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 12 | 0 | 0 | 0 | 0 | 12 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 3 | 0 | 0 | 0 | 0 | 3 | 19:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 4 | 0 | 0 | 0 | 0 | 4 | 20:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:15 | 7 | 0 | 0 | 0 | 0 | 7 | 20:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 | 11 | 0 | 0 | 0 | 0 | 11 | 20:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 8:45 | 1 | 0 | 0 | 0 | 0 | 1 | 20:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:00 | 5 | 0 | 0 | 0 | 0 | 5 | 21:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 | 2 | 0 | 0 | 0 | 0 | 2 | 21:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:45 | 4 | 0 | 0 | 0 | 0 | 4 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 22:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 2 | 2 | 0 | 0 | 0 | 4 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 5 | 0 | 0 | 0 | 0 | 5 | 22:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:45 | 3 | 0 | 0 | 0 | 0 | 3 | 22:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 5 | 0 | 0 | 0 | 0 | 5 | 23:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 6 | 0 | 0 | 0 | 0 | 6 | 23:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:30 | 6 | 0 | 0 | 0 | 0 | 6 | 23:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:45 | 3 | 0 | 0 | 0 | 0 | 3 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 135 | 2 | 0 | 0 | 0 | 137 | TOTAL | 360 | 3 | 0 | 1 | 0 | 364 |

AM PEAK HOUR 7:30 AM AM PEAK VOLUME 26

AM PEAK HOUR 2:45 PM AM PEAK VOLUME 56

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 495 | 5 | 0 | 1 | 0 | 501 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.8% | 1.0% | 0.0% | 0.2% | 0.0% | 100.0% |
| AM PEAK | 26 | 0 | 0 | 0 | 0 | 26 |
| PM PEAK | 44 | 0 | 0 | 0 | 0 | 44 |

Study Site 8 - Mayberry Colony Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: WRCOG THREE DAYS CITY:

JOB #: SC3826 LOCATION: CLASS90 Western Dwy south of Mayberry.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|--------|--------|--------|---|---|--------|----------------|----------|---|--------|---|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| | | _ | | | | | | | _ | _ | | | |
| 0:00 | 0 | 0 0 | 0 | 0 | 0 | 0 | 12:00 12:15 | 11 11 | 0 | 0 0 | 0 | 0 | 11 11 |
| 0:15 0:30 | 1 0 | 0 | 0 0 | 0 | 0 | 1 0 | 12:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:45 | 2 | 0 | 0 | 0 | 0 | 2 | 13:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:45 | 3 | 0 | 0 | 0 | 0 | 3 | 14:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 3:15 | 5 | 0 | 0 | 0 | 0 | 5 | 15:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:30 | 5 | 0 | 0 | 0 | 0 | 5 | 15:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:45 | 4 | 0 | 0 | 0 | 0 | 4 | 15:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:15 | 5 | 0 | 0 | 0 | 0 | 5 | 16:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 4:30 | 7 | 0 | 0 | 0 | 0 | 7 | 16:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 4:45 | 3 | 0 | 0 | 0 | 0 | 3 | 16:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:00 | 8 | 0 | 0 | 0 | 0 | 8 | 17:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 13 | 1 | 0 | 0 | 0 | 14 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:45 | 6 | 0 | 0 | 0 | 0 | 6 | 17:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 4 | 0 | 0 | 0 | 0 | 4 | 18:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:15 | 3 | 0 | 0 | 0 | 0 | 3 | 18:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:30 | 9 | 0 | 0 | 0 | 0 | 9 | 18:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:45 7:00 | 8 7 | 0 | 0 | 0 | 0 | 8 7 | 18:45 19:00 | 12 8 | 0 | 0 | 0 | 0 | 12 8 |
| 7:00 7:15 | 21 | 0 | 0 | 0 | 0 | 21 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:15 | 4 | 0 | 0 | 0 | 0 | 4 | 19:30 | 7 | 0 | 0 | 0 | 0 | 5 7 |
| 7:45 | 7 | 0 | 0 | 0 | 0 | 7 | 19:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:00 | 21 | 0 | 0 | 0 | 0 | 21 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 10 | 0 | 0 | 0 | 0 | 10 | 20:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:30 | 8 | 0 | 0 | 1 | 0 | 9 | 20:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:45 | 7 | 0 | 0 | 0 | 0 | 7 | 20:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 9 | 0 | 0 | 0 | 0 | 9 | 21:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:15 | 5 | 0 | 0 | 0 | 0 | 5 | 21:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:30 | 3 | 0 | 0 | 0 | 0 | 3 | 21:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:45 | 2 | 0 | 0 | 0 | 0 | 2 | 21:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 9 | 1 | 0 | 0 | 0 | 10 | 22:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:15 | 4 | 3 | 0 | 0 | 0 | 7 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 2 | 1 | 0 | 0 | 0 | 3 | 22:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45 | 9 | 0 | 0 | 0 | 0 | 9 | 22:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 11 | 0 | 0 | 0 | 0 | 11 | 23:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:15 | 2 | 0 | 0 | 0 | 0 | 2 | 23:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:30 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:45 | 8 | 0 | 0 | 0 | 0 | 8 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 233 | 5 | 0 | 1 | 0 | 239 | TOTAL | 348 | 1 | 0 | 0 | 0 | 349 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 53

AM PEAK HOUR 5:00 PM AM PEAK VOLUME 55

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 581 | 6 | 0 | 1 | 0 | 588 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.8% | 1.0% | 0.0% | 0.2% | 0.0% | 100.0% |
| AM PEAK | 53 | 0 | 0 | 0 | 0 | 53 |
| PM PEAK | 54 | 1 | 0 | 0 | 0 | 55 |

Study Site 8 - Mayberry Colony Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: WRCOG THREE DAYS CITY:

JOB #: SC3826 LOCATION: CLASS91 Eastern Dwy south of Mayberry.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|----------|--------|--------|--------|---|--------|----------------|--------|--------|--------|--------|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| | | | | | | | | _ | | | | | |
| 0:00 | 3 | 0 | 0 | 0 | 0 | 3 | 12:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 0:15 | 3 | 0 | 0 | 0 | 0 | 3 | 12:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:45 | <u> </u> | 0 | 0 | 0 | 0 | 1 | 12:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:00 1:15 | 0 4 | 0 0 | 0 0 | 0 0 | 0 | 0 4 | 13:00 13:15 | 7 4 | 0 0 | 0 0 | 0 0 | 0 | 7 4 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | - | 13:30 13:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 8 | 1 | 0 | 0 | 0 | 9 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:30 | 3 | 0 | 0 | 0 | 0 | 3 | 17:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:45 | 3 | 0 | 0 | 0 | 0 | 3 | 17:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 6:15 | 0 | 0 | 0 | 0 | 0 | 0 | 18:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:30 | 2 | 0 | 0 | 0 | 0 | 2 | 18:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:45 | 0 | 0 | 0 | 0 | 0 | 0 | 18:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:00 | 12 | 0 | 0 | 0 | 0 | 12 | 19:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 7:15 | 7 | 0 | 0 | 0 | 0 | 7 | 19:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:30 | 4 | 0 | 0 | 0 | 0 | 4 | 19:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:45 | 8 | 0 | 0 | 0 | 0 | 8 | 19:45 | 8 | | 0 | 0 | 0 | 8 |
| 8:00 8:15 | 3 6 | 0 0 | 0 0 | 0 0 | 0 | 3 | 20:00 20:15 | 3 4 | 0 0 | 0 | 0 | 0 | 3 4 |
| 8:30 | 6 | 0 | 0 | 1 | 0 | 6 7 | 20:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 7 | 0 | 0 | 0 | 0 | 7 | 20:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | | 0 | 0 | 0 | 0 | 5 | 20:45 | | 0 | 0 | 0 | 0 | 2 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 | 5 | 0 | 0 | 0 | 0 | 5 | 21:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:45 | 3 | 2 | 0 | 0 | 0 | 5 | 21:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 2 | 0 | 0 | 0 | 0 | 2 | 22:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 3 | 2 | 0 | 0 | 0 | 5 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 5 | 0 | 0 | 0 | 0 | 5 | 22:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:45 | 4 | 0 | 0 | 0 | 0 | 4 | 22:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:00 | 2 | 0 | 0 | 0 | 0 | 2 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 3 | 0 | 0 | 0 | 0 | 3 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 7 | 0 | 0 | 0 | 0 | 7 | 23:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:45 | 3 | 0 | 0 | 0 | 0 | 3 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 127 | 4 | 0 | 1 | 0 | 132 | TOTAL | 292 | 1 | 0 | 0 | 0 | 293 |

AM PEAK HOUR 7:00 AM AM PEAK VOLUME 31

AM PEAK HOUR 2:00 PM AM PEAK VOLUME 45

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 419 | 5 | 0 | 1 | 0 | 425 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.6% | 1.2% | 0.0% | 0.2% | 0.0% | 100.0% |
| AM PEAK | 31 | 0 | 0 | 0 | 0 | 31 |
| PM PEAK | 40 | 1 | 0 | 0 | 0 | 41 |

Study Site 8 - Mayberry Colony Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS91 Eastern Dwy south of Mayberry.

| AM | | | OUT | | | | PM | | | OUT | | | |
|---------------|-----|---|-----|---|---|--------|----------------|---------|--------|-----|---|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 0:15 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 0:30 | 1 | 0 | 0 | 0 | 0 | 1 | 12:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 4 | 0 | 0 | 1 | 0 | 5 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 7 | 1 0 | 0 | 0 | 0 | 8 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:00 4:15 | 1 | 0 | 0 | 0 | 0 | 1 1 | 16:00 16:15 | 5 10 | 0 | 0 | 0 | 0 | 5 10 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:45 | 3 | 0 | 0 | 0 | 0 | 3 | 16:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 1 | | 0 | 0 | 0 | 1 | 17:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:15 | 3 | 0 | 0 | 0 | 0 | 3 | 17:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 5:30 | 3 | 0 | 0 | 0 | 0 | 3 | 17:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 5:45 | 7 | 0 | 0 | 0 | 0 | 7 | 17:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:00 | 2 | 0 | 0 | 0 | 0 | 2 | 18:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:15 | 2 | 0 | 0 | 0 | 0 | 2 | 18:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:30 | 3 | 0 | 0 | 0 | 0 | 3 | 18:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:45 | 9 | 0 | 0 | 0 | 0 | 9 | 18:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 11 | 0 | 0 | 0 | 0 | 11 | 19:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:15 | 9 | 0 | 0 | 0 | 0 | 9 | 19:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:30 | 10 | 0 | 0 | 0 | 0 | 10 | 19:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 | 6 | 0 | 0 | 0 | 0 | 6 | 19:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 | 1 | 0 | 0 | 0 | 0 | 1 | 20:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:15 | 3 | 0 | 0 | 0 | 0 | 3 | 20:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 | 11 | 0 | 0 | 0 | 0 | 11 | 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 | 13 | 0 | 0 | 0 | 0 | 13 | 20:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:00 | 2 | 0 | 0 | 0 | 0 | 2 | 21:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:15 | 2 | 0 | 0 | 0 | 0 | 2 | 21:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:30 | 4 | 0 | 0 | 0 | 0 | 4 | 21:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:45 10:00 | 4 | 0 | 0 | 0 | 0 | 4 | 21:45 22:00 | 0 2 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 7 | 1 | 0 | 0 | 0 | 1 8 | 22:00 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 5 | 0 | 0 | 0 | 0 | 5 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 5 | 0 | 0 | 0 | 0 | 5 | 22:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 1 | 23:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:15 | 3 | 0 | 0 | 0 | 0 | 3 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 4 | 0 | 0 | 0 | 0 | 4 | 23:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 3 | 0 | 0 | 0 | 0 | 3 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 147 | 1 | 0 | 0 | 0 | 148 | TOTAL | 181 | 1 | 0 | 1 | 0 | 183 |
| | :- | | | | - | 0 | | | | | | | |

AM PEAK HOUR 6:45 AM AM PEAK VOLUME 39

AM PEAK HOUR 3:30 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 328 | 2 | 0 | 1 | 0 | 331 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.6% | 0.0% | 0.3% | 0.0% | 100.0% |
| AM PEAK | 36 | 0 | 0 | 0 | 0 | 36 |
| PM PEAK | 25 | 0 | 0 | 0 | 0 | 25 |

Study Site 9 - Summit Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS92 DWY west of Hathaway.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|---|--------|-----------|------|---------|----------------|--------|--------|--------|----------|------|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 6 | 0 | 1 | 0 | 0 | 7 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 7 | 1 | 0 | 0 | 0 | 8 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 10 | 1 | 0 | 0 | 0 | 11 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 3:45 | 1 | 0 | 0 | 0 | 0 | 1 | 15:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:30 | 3 | 0 | 0 | 0 | 0 | 3 | 16:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:15 | 1 | 0 | 1 | 0 | 0 | 2 | 18:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:30 | 1 | 0 | 0 | 0 | 0 | 1 | 18:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:45 | 2 | 0 | 0 | 0 | 0 | 2 | 18:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:00 | 3 | 0 | 0 | 0 | 0 | 3 | 19:00 | 4 | 1 | 0 | 0 | 0 | 5 |
| 7:15 | 2 | 0 | 0 | 0 | 0 | 2 | 19:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:30 | 2 | 0 | 0 | 0 | 0 | 2 | 19:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:45 | 4 | 0 | 0 | 0 | 0 | 4 | 19:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 8:00 | 5 | 0 | 0 | 0 | - | 5 | 20:00 | 10 | 0 | | 0 | - | 10 |
| 8:15 8:30 | 7 3 | 0 | 0 0 | 0 | 0 | 7 3 | 20:15 20:30 | 7 6 | 0 0 | 0 0 | 0 0 | 0 | 7 6 |
| 8:30 8:45 | 3 7 | 0 | 0 | 0 | 0 | 3 7 | 20:30 20:45 | 4 | 0 | 0 | 0 | 0 | 6 4 |
| 9:00 | 2 | 0 | 0 | 0 | 0 | 2 | 20:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:00 | 4 | 0 | 0 | 0 | 0 | 4 | 21:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:30 | 4 | 0 | 0 | 0 | 0 | 4 | 21:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:45 | 3 | 1 | 0 | 0 | 0 | 4 | 21:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 7 | 0 | 0 | 0 | 0 | 7 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 2 | 0 | 0 | 0 | 0 | 2 | 22:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:45 | 3 | 0 | 0 | 0 | 0 | 3 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 1 | 0 | 0 | 0 | 0 | 1 | 23:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 11:15 | 7 | 0 | 0 | 0 | 0 | 7 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 4 | 1 | 0 | 0 | 0 | 5 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 3 | 0 | 0 | 0 | 0 | 3 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 101 | 2 | 1 | 0 | 0 | 104 | TOTAL | 312 | 3 | 1 | 0 | 0 | 316 |
| | | | Λ. | M PEAK HO |)IID | 8:00 AM | | • | | Λ. | M PEAK H | OLID | 3:30 PM |

| AM | PEAK | HOUR | 8:00 AM |
|----|------|--------|---------|
| ΑM | PEAK | VOLUME | 22 |

| AM PEAK HOUR | 3:30 PM |
|----------------|---------|
| AM PEAK VOLUME | 45 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 413 | 5 | 2 | 0 | 0 | 420 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.3% | 1.2% | 0.5% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 22 | 0 | 0 | 0 | 0 | 22 |
| PM PEAK | 32 | 0 | 0 | 0 | 0 | 32 |

Study Site 9 - Summit Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

WRCOG DATE: THREE DAYS CITY:

JOB #: SC3826 LOCATION: CLASS92 DWY west of Hathaway.

| AM | | | OUT | | | | PM | | | OUT | | | |
|----------------|--------|--------|--------|----------|-----|---------|----------------|-----|----------|--------|----------|-----|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 2 | 0 | 4 | 0 | 0 | 1 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 3 | 0 | 1 0 | 0 | 0 | 4 9 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 3 | 1 | 0 | 0 | 0 | 4 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 8 | 1 | 0 | 0 | 0 | 9 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:30 | 3 | 0 | 0 | 0 | 0 | 3 | 15:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 9 | 1 | 0 | 0 | 0 | 10 |
| 4:00 | 2 | 0 | 0 | 0 | 0 | 2 | 16:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:00 | 2 | 0 | 0 | 0 | 0 | 2 | 17:00 | 4 | 1 | 0 | 0 | 0 | 5 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:45 | 10 | 0 | 0 | 0 | 0 | 10 | 17:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 2 | 0 | 0 | 0 | 0 | 2 | 18:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:15 | 7 | 0 | 0 | 0 | 0 | 7 | 18:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:30 | 0 | 0 | 0 | 0 | 0 | 0 | 18:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:45 | 4 | 0 | 1 | 0 | 0 | 5 | 18:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:00 | 3 | 0 | 0 | 0 | 0 | 3 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:15 | 4 | 0 | 0 | 0 | 0 | 4 | 19:15 | 4 | 1 | 0 | 0 | 0 | 5 |
| 7:30 | 3 | 0 | 0 | 0 | 0 | 3 | 19:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:45 | 8 | 0 | 0 | 0 | 0 | 8 | 19:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:00 | 9 | 0 | 0 | 0 | 0 | 9 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 9 | 0 | 0 | 0 | 0 | 9 | 20:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 | 3 | 0 | 0 | 0 | 0 | 3 | 20:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 | 8 | 0 | 0 | 0 | 0 | 8 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 8 | 0 | 0 | 0 | 0 | 8 | 21:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:15 | 4 | 0 | 0 | 0 | 0 | 4 | 21:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:30 | 7 | 0 | 0 | 0 | 0 | 7 | 21:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:45 | 1 | 0 | 0 | 0 | 0 | 1 | 21:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:00 | 4 | 0 | 0 | 0 | 0 | 4 | 22:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:15 | 3 | 0 | 0 | 0 | 0 | 3 | 22:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 1 4 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 2 | 0 | 0 | 0 | 0 | 2 | 22:45 | | 0 | 0 | 0 | 0 | 4 |
| 11:00 11:15 | 5 | 0 0 | 0 | 0 0 | 0 | 5 | 23:00 | 0 | 0 0 | 0 | 0 0 | 0 | 0 |
| _ | 4 | | | 0 | _ | 4 | 23:15 | 1 | 0 | | 0 | _ | 1 |
| 11:30 | 3 6 | 0 0 | 0 0 | 0 | 0 | 6 | 23:30 | 0 2 | 0 | 0 0 | 0 | 0 | 2 |
| 11:45 TOTAL | 134 | 0 | 1 | 0 | 0 | 135 | 23:45 TOTAL | 219 | <u> </u> | 1 | 0 | 0 | 225 |
| IOIAL | 134 | U | | | | _ | IUIAL | 219 | 3 | | | | |
| | | | IA | 4 PEAK H | UUR | 8:00 AM | | | | A | 4 PEAK H | OUR | 3:15 PM |

| CLASS 1 | CARS | TOTAL: AM+PM | 353 |
|---------|-----------------|--------------|-------|
| CLASS 2 | 2-AXLE TRUCKS | % OF TOTAL | 98.1% |
| CLASS 3 | 3-AXLE TRUCKS | AM PEAK | 29 |
| CLASS 4 | 4-AXLE TRUCKS | PM PEAK | 27 |
| CLASS 5 | 5-AXLE + TRUCKS | | |
| | | | |

AM PEAK VOLUME

29

| 353 | 5 | 2 | 0 | 0 | 360 |
|-------|------|------|------|------|--------|
| 98.1% | 1.4% | 0.6% | 0.0% | 0.0% | 100.0% |
| 29 | 0 | 0 | 0 | 0 | 29 |
| 27 | 1 | 0 | 0 | 0 | 28 |

AM PEAK VOLUME

36

Study Site 9 - Summit Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS93 DWY north of George.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|-----|--------|----|-----------|------|---------|----------------|----------|--------|--------|----------|------|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 12 | 0 | 1 | 0 | 0 | 13 |
| 0:15 | 2 | 0 | 0 | 0 | 0 | 2 | 12:15 | 10 | 1 | 0 | 0 | 0 | 11 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:45 | 0 | 0 | 0 | 0 | 0 | 0 | 12:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 21 | 0 | 0 | 0 | 0 | 21 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 10 | 1 | 0 | 0 | 0 | 11 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:00 | 3 | 0 | 0 | 0 | 0 | 3 | 14:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:15 | 1 | 1 | 0 | 0 | 0 | 2 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:00 | 2 | 0 | 0 | 0 | 0 | 2 | 15:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 19 | 1 | 0 | 0 | 0 | 20 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 19 | 0 | 0 | 0 | 0 | 19 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 22 | 0 | 0 | 0 | 0 | 22 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 3 | 0 | 0 | 0 | 0 | 3 | 17:00 | 15 | 1 | 0 | 0 | 0 | 16 |
| 5:15 | 4 | 0 | 0 | 0 | 0 | 4 | 17:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 6:00 | 3 | 0 | 0 | 0 | 0 | 3 | 18:00 | 23 | 0 | 0 | 0 | 0 | 23 |
| 6:15 | 3 | 0 | 0 | 0 | 0 | 3 | 18:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:30 6:45 | 2 2 | 0 0 | 0 | 0 | 0 | 2 | 18:30 18:45 | 10 12 | 0 0 | 0 0 | 0 0 | 0 | 10 12 |
| 7:00 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 7:00 7:15 | 6 | 0 | 0 | 0 | 0 | 6 | 19:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:15 | 15 | 0 | 0 | 0 | 0 | 15 | 19:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:30 | 7 | 0 | 0 | 0 | 0 | 7 | 19:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:00 | 11 | 0 | 0 | 0 | 0 | 11 | 20:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 8:15 | 13 | 0 | 0 | 0 | 0 | 13 | 20:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:30 | 16 | 0 | 0 | 0 | 0 | 16 | 20:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:45 | 15 | 0 | 0 | 0 | 0 | 15 | 20:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 9:00 | 10 | 0 | 0 | 0 | 0 | 10 | 21:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 9:15 | 8 | 0 | 0 | 0 | 0 | 8 | 21:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:30 | 12 | 0 | 0 | 0 | 0 | 12 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 5 | 0 | 0 | 0 | 0 | 5 | 21:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 4 | 0 | 0 | 0 | 0 | 4 | 22:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:15 | 5 | 0 | 0 | 0 | 0 | 5 | 22:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:45 | 17 | 0 | 0 | 0 | 0 | 17 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 5 | 0 | 0 | 0 | 0 | 5 | 23:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 11:15 | 11 | 1 | 0 | 0 | 0 | 12 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 12 | 0 | 0 | 0 | 0 | 12 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 5 | 0 | 0 | 0 | 0 | 5 | 23:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| TOTAL | 213 | 2 | 0 | 0 | 0 | 215 | TOTAL | 527 | 4 | 1 | 0 | 0 | 532 |
| | | | AN | 1 PEAK HO | JIID | 8:00 AM | | | | Δ. | 1 PEAK H | ∩IID | 3:15 PM |

| AM | PEAK | HOUR | 8:00 AM |
|----|------|--------|---------|
| ΑМ | PEAK | VOLUME | 55 |

| AM PEAK HOUR | 3:15 PM |
|----------------|---------|
| AM PEAK VOLUME | 76 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 740 | 6 | 1 | 0 | 0 | 747 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.8% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 55 | 0 | 0 | 0 | 0 | 55 |
| PM PEAK | 62 | 1 | 0 | 0 | 0 | 63 |

Study Site 9 - Summit Ridge Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS93 DWY north of George.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|--------|--------|--------|-----------|-----|---------|----------------|----------|--------|-----|----------|--------|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 12 | 1 | 1 | 0 | 0 | 14 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 14 | 0 | 0 | 0 | 0 | 14 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 9 | 1 | 0 | 0 | 0 | 10 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:30 | 1 | 1 | 0 | 0 | 0 | 2 | 14:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 19 | 0 | 0 | 0 | 0 | 19 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:30 | 3 | 0 | 0 | 0 | 0 | 3 | 16:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:45 | 1 | 0 | 0 | 0 | 0 | 1 | 16:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:00 | 5 | 0 | 0 | 0 | 0 | 5 | 17:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 20 | 0 | 0 | 0 | 0 | 20 |
| 5:30 | 6 | 0 | 0 | 0 | 0 | 6 | 17:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:45 | 2 | 0 | 0 | 0 | 0 | 2 | 17:45 | 13 | 0 | 0 | 0 | 0 | 13 |
| 6:00 | 4 | 0 | 0 | 0 | 0 | 4 | 18:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:15 | 6 | 0 | 0 | 0 | 0 | 6 | 18:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:30 6:45 | 6 7 | 0 0 | 0 0 | 0 0 | 0 | 6 7 | 18:30 18:45 | 11 12 | 0 0 | 0 | 0 0 | 0 | 11 12 |
| 7:00 | 9 | 0 | 0 | 0 | 0 | 9 | 19:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:00 7:15 | 18 | 0 | 0 | 0 | 0 | 18 | 19:00 | 5 | 0 | 0 | 0 | 0 | 10 5 |
| 7:15 | 20 | 0 | 0 | 0 | 0 | 20 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 31 | 0 | 0 | 0 | 0 | 31 | 19:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 8:00 | 25 | 0 | 0 | 0 | 0 | 25 | 20:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:15 | 16 | 0 | 0 | 0 | 0 | 16 | 20:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:30 | 15 | 0 | 0 | 0 | 0 | 15 | 20:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 8:45 | 14 | 0 | 0 | 0 | 0 | 14 | 20:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 10 | 0 | 0 | 0 | 0 | 10 | 21:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:15 | 15 | 0 | 0 | 0 | 0 | 15 | 21:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:30 | 11 | 0 | 0 | 0 | 0 | 11 | 21:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:45 | 9 | 0 | 0 | 0 | 0 | 9 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 9 | 1 | 0 | 0 | 0 | 10 | 22:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:15 | 10 | 0 | 0 | 0 | 0 | 10 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 7 | 0 | 0 | 0 | 0 | 7 | 22:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:45 | 12 | 0 | 0 | 0 | 0 | 12 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 11 | 0 | 0 | 0 | 0 | 11 | 23:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:15 | 8 | 1 | 0 | 0 | 0 | 9 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 9 | 0 | 0 | 0 | 0 | 9 | 23:30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 19 | 1 | 0 | 0 | 0 | 20 | 23:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| TOTAL | 329 | 4 | 0 | 0 | 0 | 333 | TOTAL | 468 | 2 | 1 | 0 | 0 | 471 |
| | | | AN | 1 PEAK HO | NID | 7:15 AM | | | | A N | 1 PEAK H | OLID . | 12:45 PM |

| AM | PEAK HOUR | 7:15 AM |
|----|-------------|---------|
| ΑM | PEAK VOLUME | 94 |

| AM PEAK HOUR | 12:45 PM |
|----------------|----------|
| AM PEAK VOLUME | 67 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 797 | 6 | 1 | 0 | 0 | 804 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.7% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 94 | 0 | 0 | 0 | 0 | 94 |
| PM PEAK | 51 | 0 | 0 | 0 | 0 | 51 |

Study Site 10 - Riverdale Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS87 Dwy north of Thornton.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|---------|--------|--------|--------|---|-------|----------------|----------|--------|----|--------|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 2 | 1 | 0 | 0 | 0 | 3 |
| 0:30 | 3 | 0 | 0 | 0 | 0 | 3 | 12:30 | 3 | 1 | 0 | 0 | 0 | 4 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1:00 | <u></u> | 0 | 0 | 0 | 0 | 1 | 13:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 2:45 | 2 | 0 | 0 | 0 | 0 | 2 | 14:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:45 | 2 | 0 | 0 | 0 | 0 | 2 | 16:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 17:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 18:00 | 12 5 | 0 | 0 | 0 | 0 | 12 5 |
| 6:15 6:30 | 0 1 | 0 0 | 0 0 | 0 0 | 0 | 0 | 18:15 18:30 | 9 | 0 0 | 0 | 0 0 | 0 | 9 |
| 6:30 | 3 | 0 | 0 | 0 | 0 | 1 | 18:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:00 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:15 | 10 | 0 | 0 | 0 | 0 | 10 | 19:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 7:30 | 2 | 0 | 0 | 0 | 0 | 2 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 1 | 0 | 0 | 0 | 0 | 1 | 19:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:00 | 3 | 0 | 0 | 0 | 0 | 3 | 20:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:15 | 4 | 0 | 0 | 0 | 0 | 4 | 20:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:30 | 5 | 0 | 0 | 0 | 0 | 5 | 20:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 8:45 | 2 | 1 | 0 | 0 | 0 | 3 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 10 | 0 | 0 | 0 | 0 | 10 | 21:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:15 | 1 | 0 | 0 | 0 | 0 | 1 | 21:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:30 | 3 | 0 | 0 | 0 | 0 | 3 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 7 | 0 | 0 | 0 | 0 | 7 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 2 | 0 | 0 | 0 | 0 | 2 | 22:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:30 | 1 | 0 | 0 | 0 | 0 | 1 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 4 | 1 | 0 | 0 | 0 | 5 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 5 | 0 | 0 | 0 | 0 | 5 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 3 | 0 | 0 | 0 | 0 | 3 | 23:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:30 | 4 | 1 | 0 | 0 | 0 | 5 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 5 | 0 | 0 | 0 | 0 | 5 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 89 | 3 | 0 | 0 | 0 | 92 | TOTAL | 224 | 2 | 0 | 0 | 0 | 226 |

AM PEAK HOUR 8:15 AM AM PEAK VOLUME 22

AM PEAK HOUR 5:45 PM AM PEAK VOLUME 35

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 313 | 5 | 0 | 0 | 0 | 318 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.4% | 1.6% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 16 | 0 | 0 | 0 | 0 | 16 |
| PM PEAK | 30 | 0 | 0 | 0 | 0 | 30 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS87 Dwy north of Thornton.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|--------|---|--------|---|---|--------|----------------|----------|--------|--------|--------|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 0 | 1 | 0 | 0 | 0 | 1 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:00 | 1 | 0 | 0 | 0 | 0 | 1 | 13:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 4:45 | | 0 | 0 | 0 | 0 | 0 | 16:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 1 | 0 | 0 | 0 | 0 | 1 | 17:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 5:30 | 1 | 0 | 0 | 0 | 0 | 1 | 17:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 7 | 0 | 0 | 0 | 0 | 7 7 |
| 6:15 6:30 | 3 6 | 0 | 0 0 | 0 | 0 | 3 6 | 18:15 18:30 | 7 | 0 0 | 0 0 | 0 0 | 0 | 7 |
| 6:30 6:45 | 3 | 0 | 0 | 0 | 0 | 3 | 18:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:00 | 13 | 0 | 0 | 0 | 0 | 13 | 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:00 7:15 | 14 | 0 | 0 | 0 | 0 | 14 | 19:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:30 | 3 | 0 | 0 | 0 | 0 | 3 | 19:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:45 | 7 | 0 | 0 | 0 | 0 | 7 | 19:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:00 | 6 | 0 | 0 | 0 | 0 | 6 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 3 | 0 | 0 | 0 | 0 | 3 | 20:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:30 | 11 | 0 | 0 | 0 | 0 | 11 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 5 | 1 | 0 | 0 | 0 | 6 | 20:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 9:00 | 6 | 0 | 0 | 0 | 0 | 6 | 21:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:15 | 1 | 0 | 0 | 0 | 0 | 1 | 21:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:30 | 4 | 0 | 0 | 0 | 0 | 4 | 21:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:45 | 6 | 0 | 0 | 0 | 0 | 6 | 21:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 4 | 0 | 0 | 0 | 0 | 4 | 22:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:45 | 1 | 0 | 0 | 0 | 0 | 1 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 3 | 0 | 0 | 0 | 0 | 3 | 23:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:15 | 4 | 0 | 0 | 0 | 0 | 4 | 23:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:30 | 5 | 0 | 0 | 0 | 0 | 5 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 4 | 1 | 0 | 0 | 0 | 5 | 23:45 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 128 | 2 | 0 | 0 | 0 | 130 | TOTAL | 194 | 1 | 0 | 0 | 0 | 195 |

AM PEAK HOUR 7:00 AM AM PEAK VOLUME 37

AM PEAK HOUR 3:30 PM AM PEAK VOLUME 31

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 322 | 3 | 0 | 0 | 0 | 325 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.1% | 0.9% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 37 | 0 | 0 | 0 | 0 | 37 |
| PM PEAK | 29 | 0 | 0 | 0 | 0 | 29 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS88 Southern Dwy east of Cawston.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|---------|--------|--------|--------|---|--------|----------------|----------|--------|--------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 0:30 | 3 | 0 | 0 | 0 | 0 | 3 | 12:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1:00 | <u></u> | 0 | 0 | 0 | 0 | 1 | 13:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 1:45 | 3 | 0 | 0 | 0 | 0 | 3 | 13:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 3:15 | 1 | 0 | 0 | 0 | 0 | 1 | 15:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:00 | 5 | 0 | 0 | 0 | 0 | 5 | 17:00 | 16 | 0 | 0 | 0 | 0 | 16 |
| 5:15 | 2 | 0 | 0 | 0 | 0 | 2 | 17:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:30 | 3 | 0 | 0 | 0 | 0 | 3 | 17:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 5:45 | 2 | 0 | 0 | 0 | 0 | 2 | 17:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:15 6:30 | 0 3 | 0 0 | 0 0 | 0 0 | 0 | 0 | 18:15 18:30 | 10 10 | 0 0 | 0 0 | 0 0 | 0 | 10 10 |
| 6:30 | 3 4 | 0 | 0 | 0 | 0 | 3 4 | 18:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:00 | 12 | 0 | 0 | 0 | 0 | 12 | 19:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 7:15 | 11 | 0 | 0 | 0 | 0 | 11 | 19:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 7:30 | 10 | 0 | 0 | 0 | 0 | 10 | 19:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:45 | 5 | 0 | 0 | 0 | 0 | 5 | 19:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:00 | 6 | 0 | 0 | 0 | 0 | 6 | 20:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:15 | 2 | 0 | 0 | 0 | 0 | 2 | 20:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 | 9 | 0 | 0 | 0 | 0 | 9 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 9 | 0 | 0 | 0 | 0 | 9 | 20:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 9:00 | 3 | 0 | 0 | 0 | 0 | 3 | 21:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:30 | 4 | 0 | 0 | 0 | 0 | 4 | 21:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:45 | 2 | 0 | 0 | 0 | 0 | 2 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 3 | 0 | 0 | 0 | 0 | 3 | 22:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:15 | 2 | 0 | 0 | 0 | 0 | 2 | 22:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:30 | 5 | 1 | 0 | 0 | 0 | 6 | 22:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:45 | 4 | 0 | 0 | 0 | 0 | 4 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 6 | 0 | 0 | 0 | 0 | 6 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 5 | 0 | 0 | 0 | 0 | 5 | 23:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:30 | 6 | 0 | 0 | 0 | 0 | 6 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 | 1 | 1 | 0 | 0 | 0 | 2 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 145 | 2 | 0 | 0 | 0 | 147 | TOTAL | 340 | 0 | 0 | 0 | 0 | 340 |

AM PEAK HOUR 7:00 AM AM PEAK VOLUME 38

AM PEAK HOUR 4:45 PM AM PEAK VOLUME 52

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 485 | 2 | 0 | 0 | 0 | 487 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.6% | 0.4% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 38 | 0 | 0 | 0 | 0 | 38 |
| PM PEAK | 52 | 0 | 0 | 0 | 0 | 52 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS88 Southern Dwy east of Cawston.

| AM | | | OUT | | | | PM | | | OUT | - | | |
|----------------|----------|----|-----|------|-----|----------|----------------|----------|---|-----|-----|---|-------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 1 | 0 | 0 | 0 | 0 | 1 | 12:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:15 | 1 | 0 | 0 | 0 | 0 | 1 | 12:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 0:30 | 2 | 0 | 0 | 0 | 0 | 2 | 12:30 | 7 | 2 | 0 | 0 | 0 | 9 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 13:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 13 | 0 | 0 | 0 | 0 | 13 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 9 | 0 | 0 | 0 | 0 | 9 |
| 3:45 | 3 | 0 | 0 | 0 | 0 | 3 | 15:45 | 11 | 0 | 0 | 0 | 0 | 11 |
| 4:00 | 1 | 0 | 0 | 0 | 0 | 1 | 16:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:15 | 1 | 0 | 0 | 0 | 0 | 1 | 16:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 7 | 0 | 0 | 0 | 0 | 7 |
| 5:00 | 2 | 0 | 0 | 0 | 0 | 2 | 17:00 | 12 | 0 | 0 | 0 | 0 | 12 |
| 5:15 | 1 | 0 | 0 | 0 | 0 | 1 | 17:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 5:30 | 2 | 0 | 0 | 0 | 0 | 2 | 17:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 6:00 | 6 | 0 | 0 | 0 | 0 | 6 | 18:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:15 | 3 | 0 | 0 | 0 | 0 | 3 | 18:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 6:30 | 3 | 0 | 0 | 0 | 0 | 3 | 18:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 6:45 | 14 | 0 | 0 | 0 | 0 | 14 | 18:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 7:00 | 20 | 0 | 0 | 0 | 0 | 20 | 19:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:15 | 18 | 0 | 0 | 0 | 0 | 18 | 19:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:30 | 26 | 0 | 0 | 0 | 0 | 26 | 19:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:45 | 11 | 0 | 0 | 0 | 0 | 11 | 19:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:00 | 6 | 0 | 0 | 0 | 0 | 6 | 20:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:15 | 5 | 0 | 0 | 0 | 0 | 5 | 20:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:30 | 8 | 0 | 0 | 0 | 0 | 8 | 20:30 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:45 | 8 | 0 | 0 | 0 | 0 | 8 | 20:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 9:00 | 5 | 0 | 0 | 0 | 0 | 5 | 21:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:15 | 2 | 0 | 0 | 0 | 0 | 2 | 21:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:30 | 5 | 0 | 0 | 0 | 0 | 5 | 21:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:45 | 6 | 0 | 0 | 0 | 0 | 6 | 21:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 5 | 0 | 0 | 0 | 0 | 5 | 22:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 22:15 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:30 | 3 | 0 | 0 | 0 | 0 | 3 | 22:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:45 | 7 | 1 | 0 | 0 | 0 | 8 | 22:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 8 | 1 | 0 | 0 | 0 | 9 | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15 | 5 | 0 | 0 | 0 | 0 | 5 | 23:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:30 | 4 | 0 | 0 | 0 | 0 | 4 | 23:30 | 1 | 0 | 0 | 0 | 0 | 1 |
| 11:45 TOTAL | 5 201 | 3 | 0 | 0 | 0 | 6 204 | 23:45 TOTAL | 1 282 | 2 | 0 | 0 | 0 | 284 |
| | //// | ٠. | () | - () | 0.1 | 704 | ΙΟΙΔΙ | ו אל | , | () | - 0 | 0 | 784 |

AM PEAK HOUR 6:45 AM AM PEAK VOLUME 78

AM PEAK HOUR 1:30 PM AM PEAK VOLUME 47

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 483 | 5 | 0 | 0 | 0 | 488 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.0% | 1.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 75 | 0 | 0 | 0 | 0 | 75 |
| PM PEAK | 36 | 0 | 0 | 0 | 0 | 36 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS89 Northern Dwy east of Cawston.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|----|--------|----|--------|---|--------|----------------|--------|--------|--------|--------|---|--------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:30 | 0 | 0 | 0 | 0 | 0 | 0 | 12:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 13:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 13:15 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 7 | 1 | 0 | 0 | 0 | 8 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 2:30 | 0 | 0 | 0 | 0 | 0 | 0 | 14:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 3:00 | 0 | 0 | 0 | 0 | 0 | 0 | 15:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 5 | 0 | 1 | 0 | 0 | 6 |
| 3:30 | 0 | 0 | 0 | 0 | 0 | 0 | 15:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 3:45 | 0 | 0 | 0 | 0 | 0 | 0 | 15:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:00 | 2 | 0 | 0 | 0 | 0 | 2 | 16:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 4:15 | 5 | 0 | 0 | 0 | 0 | 5 | 16:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 16:30 | 8 | 0 | 0 | 0 | 0 | 8 |
| 4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 16:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 17:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 17:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 5:45 | 1 | 0 | 0 | 0 | 0 | 1 | 17:45 | 4 | 0 | 0 | 0 | 0 | 4 |
| 6:00 | 1 | 0 | 0 | 0 | 0 | 1 | 18:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 6:15 | 2 | 0 | 0 | 0 | 0 | 2 | 18:15 | 6 | 0 | 0 | 0 0 | 0 | 6 |
| 6:30 | 1 | 0 0 | 0 | 0 0 | 0 | 1 0 | 18:30 | 8 4 | 0 0 | 0 0 | 0 | 0 | 8 4 |
| 6:45 7:00 | 0 | 0 | 0 | 0 | 0 | 2 | 18:45 19:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 7:00 7:15 | 1 | 0 | 0 | 0 | 0 | 1 | 19:00 | 4 | 0 | 0 | 0 | 0 | 5 4 |
| 7:15 | 5 | 0 | 0 | 0 | 0 | 5 | 19:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 7:45 | 2 | 0 | 0 | 0 | 0 | 2 | 19:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20:00 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:15 | 1 | 0 | 0 | 0 | 0 | 1 | 20:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:30 | 3 | 0 | 0 | 0 | 0 | 3 | 20:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 8:45 | 5 | 0 | 0 | 0 | 0 | 5 | 20:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 9:00 | 5 | 1 | 0 | 0 | 0 | 6 | 21:00 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:15 | 3 | 0 | 0 | 0 | 0 | 3 | 21:15 | 5 | 0 | 0 | 0 | 0 | 5 |
| 9:30 | 1 | 0 | 0 | 0 | 0 | 1 | 21:30 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:45 | 5 | 0 | 0 | 0 | 0 | 5 | 21:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 3 | 0 | 0 | 0 | 0 | 3 | 22:00 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:15 | 2 | 0 | 0 | 0 | 0 | 2 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 2 | 0 | 0 | 0 | 0 | 2 | 22:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 10:45 | 4 | 0 | 0 | 0 | 0 | 4 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 5 | 0 | 0 | 0 | 0 | 5 | 23:00 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:15 | 1 | 0 | 0 | 0 | 0 | 1 | 23:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:30 | 3 | 0 | 0 | 0 | 0 | 3 | 23:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:45 | 3 | 1 | 0 | 0 | 0 | 4 | 23:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| TOTAL | 73 | 2 | 0 | 0 | 0 | 75 | TOTAL | 231 | 1 | 1 | 0 | 0 | 233 |

AM PEAK HOUR 8:30 AM AM PEAK VOLUME

AM PEAK HOUR 4:15 PM AM PEAK VOLUME 32

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 304 | 3 | 1 | 0 | 0 | 308 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.7% | 1.0% | 0.3% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 10 | 0 | 0 | 0 | 0 | 10 |
| PM PEAK | 32 | 0 | 0 | 0 | 0 | 32 |

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS89 Northern Dwy east of Cawston.

| TIME | AM | | | OUT | | | | PM | | | OUT | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------|-----|-----------------------------------------|---------------|-----------------------------------------|-------|-----|-----------------------------------------|-----------------------------------------|-----------------------------------------|------------|----------------|
| 0:00 | | 1 | 2 | | | 5 | TOTAL | | 1 | 2 | | 4 | 5 | TOTAL |
| 0:15 | | _ | | | | | | | _ | | | | | |
| 0:45 | | | | | | | | | | | | | | 6 |
| 0.45 | | | | | | | | | | | | | | 9 |
| 1:100 | | | | | | | | | | | | | | 6 |
| 1:15 0 0 0 0 13:15 4 0 0 0 0 1:30 0 0 0 0 0 13:45 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | ~~~~~~~~~~~~~~~~ | ~~~~~ | | 4 |
| 1:30 | | - | | | | _ | - | | | | | | - | 5 |
| 1:45 | | | | | | | | | | | | | | 4 |
| 2:00 | | | | | | | | | | | | | | 5 |
| 2:15 0 0 0 0 14:15 8 0 0 0 0 2:30 0 0 0 0 0 14:35 6 0 0 0 0 3:00 1 0 0 0 0 1 15:00 6 0 0 0 0 3:00 1 0 0 0 0 15:15 9 0 0 0 0 3:30 3 0 0 0 0 15:15 9 0 0 0 0 4:00 0 0 0 0 15:45 7 0 0 0 0 4:151 4 0 0 0 0 16:15 6 0 0 0 0 4:430 0 0 0 0 17:15 3 0 0 0 0 0 0 0 | | | | | | | | | | | | | | 4 |
| 2:30 0 0 0 0 14:30 6 0 0 0 0 2 14:30 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th></th><th>-</th><th></th><th></th><th></th><th>_</th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>3</th></t<> | | - | | | | _ | - | | | | | | - | 3 |
| 2.45 | _ | | | | | | - | | | | | | - | 8 |
| 3:00 | | - | | | | | - | | | | | | - | 6 |
| 3:15 | | | | | | | | | | | | | | 5 |
| 3:30 | | | _ | | | | | | | | | | | 6 |
| 3.45 | | | | | | _ | - | | | | | | - | 9 |
| 4:00 0 0 0 0 16:05 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | - | 6 |
| 4:15 4 0 0 0 0 16:15 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | ************** | | 7 |
| 4:45 1 0 0 0 0 16:30 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | - | | | | | | | 2 |
| 4:45 1 0 0 0 0 1 16:45 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | | 6 |
| 5:00 0 0 0 0 17:00 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | - | | | | _ | - | | | | | | - | 6 |
| 5:15 0 0 0 0 17:15 3 0 0 0 0 5:30 2 0 0 0 0 2 17:30 4 0 0 0 0 6:00 5 0 0 0 0 5 18:00 6 0 0 0 0 6:15 3 0 0 0 0 3 18:15 5 0 0 0 0 6:30 2 0 0 0 0 2 18:30 3 0 0 0 0 6:45 5 0 0 0 0 5 18:45 3 0 0 0 0 7:00 7 0 0 0 0 7 19:00 6 0 0 0 0 7:15 7 0 0 0 0 5 19:30 | ~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | ~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~ | 5 |
| 5:30 2 0 0 0 0 2 17:30 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | - | | | | | | | | | | | - | 6 |
| 5:45 2 0 0 0 2 17:45 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | - | 3 |
| 6:00 | | | | | | | | | | | | | | 4 |
| 6:15 3 0 0 0 0 3 18:15 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | | 3 |
| 6:30 2 0 0 0 0 2 18:30 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | | 6 |
| 6:45 5 0 0 0 0 5 18:45 3 0 0 0 0 7:00 7 0 0 0 0 7 19:00 6 0 0 0 0 7:15 7 0 0 0 0 7 19:15 2 0 0 0 0 7:30 5 0 0 0 0 5 19:30 2 0 0 0 0 7:45 2 0 0 0 0 2 19:45 3 0 0 0 8:00 4 0 0 0 0 4 20:00 3 0 0 0 0 8:15 3 0 0 0 0 4 20:00 3 0 0 0 0 8:45 4 0 0 0 0 2 | | | | | | | | | | | | | - | 5 |
| 7:00 7 0 0 0 0 7 19:00 6 0 0 0 0 7 19:15 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>3</th></t<> | | | | | | - | | | | | | | - | 3 |
| 7:15 7 0 0 0 0 7 19:15 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | | 3 |
| 7:30 5 0 0 0 5 19:30 2 0 0 0 0 7:45 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< th=""><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>6</th></th<> | | | | | | - | | | | | | | - | 6 |
| 7:45 2 0 0 0 0 2 19:45 3 0 0 0 0 8:00 4 0 0 0 0 4 20:00 3 0 0 0 0 8:15 3 0 0 0 0 3 20:15 1 0 0 0 0 8:30 6 0 0 0 0 6 20:30 1 0 0 0 0 8:45 4 0 0 0 0 4 20:45 2 0 0 0 0 9:00 2 0 0 0 2 21:00 1 0 0 0 0 9:00 2 0 0 0 0 2 21:15 5 0 0 0 0 9:00 2 0 0 0 0 2 | _ | | | | | _ | | | | | | | - | 2 |
| 8:00 4 0 0 0 0 4 20:00 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | - | 2 |
| 8:15 3 0 0 0 0 3 20:15 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | ~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~ | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 3 |
| 8:30 6 0 0 0 0 6 20:30 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0< | | | | | | | | | | | | | | 3 |
| 8:45 4 0 0 0 0 4 20:45 2 0 0 0 0 9:00 2 0 0 0 0 2 21:00 1 0 0 0 0 9:15 2 0 0 0 0 2 21:15 5 0 0 0 0 9:30 3 0 0 0 0 3 21:30 2 0 0 0 0 9:45 8 0 0 0 0 8 21:45 2 0 0 0 0 10:00 1 0 0 0 0 1 22:00 1 0 0 0 0 10:15 3 0 0 0 0 2 22:30 3 0 0 0 0 10:30 2 0 0 0 0 | | | | | | | | | | | | | - | 1 |
| 9:00 2 0 0 0 0 2 21:00 1 0 0 0 0 0 9:15 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>1</th></td<> | | | | | | | | | | | | | - | 1 |
| 9:15 2 0 0 0 0 2 21:15 5 0 0 0 0 0 9:45 8 0 0 0 0 8 21:30 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~ | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~~~~~~~~~ | 2 |
| 9:30 3 0 0 0 0 3 21:30 2 0 0 0 0 9 9:45 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th></td<> | | | | | | | | | | | | | | 1 |
| 9:45 8 0 0 0 0 8 21:45 2 0 0 0 0 10:00 1 0 0 0 0 1 22:00 1 0 0 0 0 10:15 3 0 0 0 0 3 22:15 1 0 0 0 0 10:30 2 0 0 0 0 2 22:30 3 0 0 0 0 10:45 3 0 0 0 0 2 22:30 3 0 0 0 0 11:00 2 0 0 0 0 2 23:00 1 0 0 0 0 11:15 2 0 0 0 0 2 23:15 0 0 0 0 0 11:30 3 0 0 0 0 | | | | | | | | | | | | | | 5 |
| 10:00 1 0 0 0 0 1 22:00 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | - | | | | | | | - | 2 |
| 10:15 3 0 0 0 0 3 22:15 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | 2 |
| 10:30 2 0 0 0 0 2 22:30 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | 1 |
| 10:45 3 0 0 0 0 3 22:45 2 0 0 0 0 11:00 2 0 0 0 0 2 23:00 1 0 0 0 0 11:15 2 0 0 0 0 2 23:15 0 0 0 0 0 11:30 3 0 0 0 0 3 23:30 1 0 0 0 0 11:45 1 1 0 0 0 2 23:45 0 0 0 0 | | | | | | | | | | | | | | 1 |
| 11:00 2 0 0 0 0 2 23:00 1 0 0 0 0 0 11:15 2 0 0 0 0 2 23:15 0 0 0 0 0 11:30 3 0 0 0 0 3 23:30 1 0 0 0 0 11:45 1 1 0 0 0 2 23:45 0 0 0 0 0 | | | | | | | | | | | | | | 3 |
| 11:15 2 0 0 0 0 2 23:15 0 0 0 0 0 11:30 3 0 0 0 0 3 23:30 1 0 0 0 0 11:45 1 1 0 0 0 2 23:45 0 0 0 0 0 | | | | | | | | | | | | | | 2 |
| 11:30 3 0 0 0 0 3 23:30 1 0 0 0 0 11:45 1 1 0 0 0 2 23:45 0 0 0 0 0 | | | | | | | | | | | | | - | 1 |
| 11:45 1 1 0 0 0 2 23:45 0 0 0 0 0 | _ | | | | | _ | | | | | | | - | 0 |
| | | | | | | | | | | | | | - | 1 |
| TOTAL 104 1 0 0 0 105 TOTAL 183 0 1 0 0 18 | | | | | | | | | | | | | | 0 |
| | TOTAL | 104 | 1 | | | | | TOTAL | 183 | 0 | | | | 184 3:00 PM |

AM PEAK HOUR 6:45 AM AM PEAK VOLUME 24

AM PEAK HOUR 3:00 PM AM PEAK VOLUME 28

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 287 | 1 | 1 | 0 | 0 | 289 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 99.3% | 0.3% | 0.3% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 21 | 0 | 0 | 0 | 0 | 21 |
| PM PEAK | 23 | 0 | 0 | 0 | 0 | 23 |

Study Site 11 - Parkridge Meadows Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS70 Dwy east of E Parkridge.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|--------|--------|--------|---|--------|----------------|----------|--------|--------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 2 | 0 | 0 | 0 | 0 | 2 | 12:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 0:15 | 2 | 0 | 0 | 0 | 0 | 2 | 12:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0:30 | 8 | 0 | 0 | 0 | 0 | 8 | 12:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 0:45 | 2 | 0 | 0 | 0 | 0 | 2 | 12:45 | 13 | 1 | 0 | 0 | 0 | 14 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 20 | 2 | 0 | 0 | 0 | 22 |
| 1:15 | 2 | 0 | 0 | 0 | 0 | 2 | 13:15 | 10 | 2 | 0 | 0 | 0 | 12 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 18 | 1 | 0 | 0 | 0 | 19 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:00 | 1 | 0 | 0 | 0 | 0 | 1 | 14:00 | 19 | 2 | 0 | 0 | 0 | 21 |
| 2:15 | 1 | 0 | 0 | 0 | 0 | 1 | 14:15 | 21 | 1 | 0 | 0 | 0 | 22 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 37 | 1 | 0 | 0 | 0 | 38 |
| 2:45 | 1 | 0 | 0 | 0 | 0 | 1 | 14:45 | 32 | 0 | 0 | 0 | 0 | 32 |
| 3:00 | 4 | 0 | 0 | 0 | 0 | 4 | 15:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 3:15 | 5 | 0 | 0 | 0 | 0 | 5 | 15:15 | 22 | 2 | 0 | 0 | 0 | 24 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 20 | 0 | 0 | 0 | 0 | 20 |
| 3:45 | 4 | 0 | 0 | 0 | 0 | 4 | 15:45 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:00 | 7 | 0 | 0 | 0 | 0 | 7 | 16:00 | 26 | 3 | 0 | 0 | 0 | 29 |
| 4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 16:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 4:30 | 2 | 0 | 0 | 0 | 0 | 2 | 16:30 | 26 | 0 | 0 | 0 | 0 | 26 |
| 4:45 | 4 | 0 | 0 | 0 | 0 | 4 | 16:45 | 25 | 0 | 0 | 0 | 0 | 25 |
| 5:00 | 3 | | 0 | 0 | 0 | 3 | 17:00 | 23 | 0 | 0 | 0 | 0 | 23 25 |
| 5:15 | 5 | 0 | 0 | 0 0 | 0 | 5 | 17:15 17:30 | 25 | 0 0 | 0 | 0 | 0 | |
| 5:30 5:45 | 1 5 | 0 0 | 0 0 | 0 | 0 | 1 5 | 17:30 17:45 | 19 30 | 0 | 0 0 | 0 0 | 0 | 19 30 |
| 6:00 | 4 | 0 | 0 | 0 | 0 | 3 4 | 18:00 | 13 | 0 | 0 | 0 | 0 | 13 |
| 6:15 | 6 | 0 | 0 | 0 | 0 | 6 | 18:15 | 28 | 1 | 0 | 0 | 0 | 29 |
| 6:30 | 3 | 2 | 0 | 0 | 0 | 5 | 18:30 | 14 | 1 | 0 | 0 | 0 | 15 |
| 6:45 | 8 | 1 | 0 | 0 | 0 | 9 | 18:45 | 26 | 0 | 0 | 0 | 0 | 26 |
| 7:00 | 6 | 2 | 0 | 0 | 0 | 8 | 19:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 7:15 | 7 | 3 | 0 | 0 | 0 | 10 | 19:15 | 9 | 0 | 0 | 0 | 0 | 9 |
| 7:30 | 20 | 0 | 1 | 0 | 0 | 21 | 19:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 7:45 | 11 | 0 | 0 | 0 | 0 | 11 | 19:45 | 20 | 0 | 0 | 0 | 0 | 20 |
| 8:00 | 11 | 0 | 1 | 0 | 0 | 12 | 20:00 | 14 | 0 | 0 | 0 | 0 | 14 |
| 8:15 | 15 | 1 | 0 | 0 | 0 | 16 | 20:15 | 7 | 0 | 0 | 0 | 0 | 7 |
| 8:30 | 11 | 1 | 0 | 0 | 0 | 12 | 20:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 8:45 | 8 | 2 | 0 | 0 | 0 | 10 | 20:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 9:00 | 11 | 0 | 0 | 0 | 0 | 11 | 21:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:15 | 5 | 0 | 0 | 0 | 0 | 5 | 21:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 9:30 | 9 | 2 | 0 | 0 | 0 | 11 | 21:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 9:45 | 8 | 0 | 0 | 0 | 0 | 8 | 21:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 10:00 | 13 | 0 | 0 | 0 | 0 | 13 | 22:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 10:15 | 3 | 1 | 0 | 0 | 0 | 4 | 22:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:30 | 9 | 1 | 0 | 0 | 0 | 10 | 22:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 10:45 | 15 | 0 | 0 | 0 | 0 | 15 | 22:45 | 5 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 10 | 0 | 0 | 0 | 0 | 10 | 23:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:15 | 7 | 1 | 0 | 0 | 0 | 8 | 23:15 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:30 | 11 | 0 | 0 | 0 | 0 | 11 | 23:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:45 | 8 | 0 | 0 | 0 | 0 | 8 | 23:45 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 284 | 17 | 2 | 0 | 0 | 303 | TOTAL | 790 | 17 | 0 | 0 | 0 | 807 |

AM PEAK HOUR 7:30 AM AM PEAK VOLUME 60

AM PEAK HOUR 2:00 PM AM PEAK VOLUME 113

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 1,074 | 34 | 2 | 0 | 0 | 1,110 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 96.8% | 3.1% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 57 | 1 | 2 | 0 | 0 | 60 |
| PM PEAK | 98 | 3 | 0 | 0 | 0 | 101 |

Study Site 11 - Parkridge Meadows Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS WRCOG CITY:

JOB #: SC3826 LOCATION: CLASS70 Dwy east of E Parkridge.

| AM | | | OUT | | | | PM | | | OUT | | | |
|--------------|-----------|--------|--------|--------|---|----------|----------------|----------|--------|--------|---|---|---------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | - | | | 0 | 0 | | 12:00 | | | 0 | | 0 | |
| 0:00 | 2 | 0 0 | 0 0 | 0 0 | 0 | 2 | 12:00 | 8 12 | 0 1 | 0 0 | 0 | 0 | 8 13 |
| 0:30 | 4 | 0 | 0 | 0 | 0 | 4 | 12:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 0:45 | 3 | 0 | 0 | 0 | 0 | 3 | 12:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 16 | 2 | 0 | 0 | 0 | 18 |
| 1:15 | 1 | 0 | 0 | 0 | 0 | 1 | 13:15 | 15 | 2 | 0 | 0 | 0 | 17 |
| 1:30 | 1 | 0 | 0 | 0 | 0 | 1 | 13:30 | 14 | 0 | 0 | 0 | 0 | 14 |
| 1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 13:45 | 18 | 0 | 0 | 0 | 0 | 18 |
| 2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 14:00 | 16 | 3 | 0 | 0 | 0 | 19 |
| 2:15 | 0 | 0 | 0 | 0 | 0 | 0 | 14:15 | 20 | 2 | 0 | 0 | 0 | 22 |
| 2:30 | 1 | 0 | 0 | 0 | 0 | 1 | 14:30 | 17 | 0 | 0 | 0 | 0 | 17 |
| 2:45 | 0 | 0 | 0 | 0 | 0 | 0 | 14:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| 3:00 | 1 | 0 | 0 | 0 | 0 | 1 | 15:00 | 16 | 1 | 0 | 0 | 0 | 17 |
| 3:15 | 0 | 0 | 0 | 0 | 0 | 0 | 15:15 | 29 | 2 | 0 | 0 | 0 | 31 |
| 3:30 | 1 | 0 | 0 | 0 | 0 | 1 | 15:30 | 24 | 0 | 0 | 0 | 0 | 24 |
| 3:45 | 2 | 0 | 0 | 0 | 0 | 2 | 15:45 | 21 | 0 | 0 | 0 | 0 | 21 |
| 4:00 | 10 | 0 | 0 | 0 | 0 | 10 | 16:00 | 15 | 3 | 0 | 0 | 0 | 18 |
| 4:15 | 14 | 0 | 0 | 0 | 0 | 14 | 16:15 | 17 | 0 | 0 | 0 | 0 | 17 |
| 4:30 | 16 | 0 | 0 | 0 | 0 | 16 | 16:30 | 12 | 0 | 0 | 0 | 0 | 12 |
| 4:45 | 11 | 0 | 0 | 0 | 0 | 11 | 16:45 | 9 | 0 | 0 | 0 | 0 | 9 |
| 5:00 | 6 | 0 | 0 | 0 | 0 | 6 | 17:00 | 18 | 0 | 0 | 0 | 0 | 18 |
| 5:15 | 19 | 0 | 0 | 0 | 0 | 19 | 17:15 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:30 | 13 | 0 | 0 | 0 | 0 | 13 | 17:30 | 15 | 0 | 0 | 0 | 0 | 15 |
| 5:45 | 16 | 0 | 0 | 0 | 0 | 16 | 17:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:00 | 10 | 0 | 0 | 0 | 0 | 10 | 18:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 6:15 | 11 | 0 | 0 | 0 | 0 | 11 | 18:15 | 12 | 0 | 0 | 0 | 0 | 12 |
| 6:30 | 18 | 0 | 0 | 0 | 0 | 18 | 18:30 | 15 | 3 | 0 | 0 | 0 | 18 |
| 6:45 | 28 | 3 | 0 | 0 | 0 | 31 | 18:45 | 12 | 0 | 0 | 0 | 0 | 12 |
| 7:00 | 12 | 1 | 0 | 0 | 0 | 13 | 19:00 | 14 | 1 | 0 | 0 | 0 | 15 |
| 7:15 | 35 | 4 | 0 | 0 | 0 | 39 | 19:15 | 11 | 0 | 0 | 0 | 0 | 11 |
| 7:30 | 26 | 0 | 0 | 0 | 0 | 26 | 19:30 | 13 | 0 | 0 | 0 | 0 | 13 |
| 7:45 | <u>26</u> | 0 | | | | 27 | 19:45 | | 0 | | 0 | | 7 16 |
| 8:00 8:15 | 23 10 | 0 | 0 1 | 0 0 | 0 | 23 11 | 20:00 20:15 | 16 10 | 0 | 0 0 | 0 | 0 | 10 |
| 8:30 | _ | 1 | 0 | 0 | 0 | 15 | 20:15 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:30 8:45 | 14 20 | 3 | 0 | 0 | 0 | 23 | 20:30 20:45 | 7 | 0 | 0 | 0 | 0 | 19 7 |
| 9:00 | 15 | 0 | 0 | 0 | 0 | 23 15 | 20:45 | | 0 | 0 | 0 | 0 | 7 |
| 9:00 | 16 | 0 | 0 | 0 | 0 | 16 | 21:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 9:30 | 9 | 1 | 0 | 0 | 0 | 10 | 21:30 | 6 | 0 | 0 | 0 | 0 | 6 |
| 9:45 | 16 | 1 | 0 | 0 | 0 | 17 | 21:45 | 6 | 0 | 0 | 0 | 0 | 6 |
| 10:00 | 10 | 0 | 0 | 0 | 0 | 10 | 22:00 | 1 | 0 | 0 | 0 | 0 | 1 |
| 10:15 | 17 | 0 | 0 | 0 | 0 | 17 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 8 | 1 | 0 | 0 | 0 | 9 | 22:30 | 7 | 0 | 0 | 0 | 0 | 7 |
| 10:45 | 17 | 0 | 0 | 0 | 0 | 17 | 22:45 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:00 | 10 | 0 | 0 | 0 | 0 | 10 | 23:00 | 8 | 0 | 0 | 0 | 0 | 8 |
| 11:15 | 5 | 0 | 0 | 0 | 0 | 5 | 23:15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 12 | 1 | 0 | 0 | 0 | 13 | 23:30 | 3 | 0 | 0 | 0 | 0 | 3 |
| 11:45 | 17 | 0 | 0 | 0 | 0 | 17 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 511 | 16 | 2 | 0 | 0 | 529 | TOTAL | 572 | 20 | 0 | 0 | 0 | 592 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 115

AM PEAK HOUR 3:15 PM AM PEAK VOLUME

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 1,083 | 36 | 2 | 0 | 0 | 1,121 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 96.6% | 3.2% | 0.2% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 110 | 4 | 1 | 0 | 0 | 115 |
| PM PEAK | 60 | 0 | 0 | 0 | 0 | 60 |

Study Site 12 - Hunt Club Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS81 Dwy west of Goetz.

| AM | | | IN | | | | PM | | | IN | | | |
|--------------|--------|--------|--------|--------|---|--------|----------------|----------|----|--------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 3 | 4 | 5 | TOTAL |
| 0:00 | 11 | 0 | 0 | 0 | 0 | 11 | 12:00 | 29 | 1 | 0 | 0 | 0 | 30 |
| 0:15 | 7 | 0 | 0 | 0 | 0 | 7 | 12:15 | 34 | 0 | 0 | 0 | 0 | 34 |
| 0:30 | 9 | 0 | 0 | 0 | 0 | 9 | 12:30 | 28 | 0 | 0 | 0 | 0 | 28 |
| 0:45 | 6 | 0 | 0 | 0 | 0 | 6 | 12:45 | 32 | 1 | 0 | 0 | 0 | 33 |
| 1:00 | 3 | 0 | 0 | 0 | 0 | 3 | 13:00 | 20 | 2 | 0 | 0 | 0 | 22 |
| 1:15 | 6 | 0 | 0 | 0 | 0 | 6 | 13:15 | 40 | 2 | 0 | 0 | 0 | 42 |
| 1:30 | 3 | 0 | 0 | 0 | 0 | 3 | 13:30 | 37 | 0 | 0 | 0 | 0 | 37 |
| 1:45 | 7 | 0 | 0 | 0 | 0 | 7 | 13:45 | 29 | 0 | 0 | 0 | 0 | 29 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 28 | 0 | 0 | 0 | 0 | 28 |
| 2:15 | 5 | 0 | 0 | 0 | 0 | 5 | 14:15 | 48 | 1 | 0 | 0 | 0 | 49 |
| 2:30 | 5 | 0 | 0 | 0 | 0 | 5 | 14:30 | 45 | 0 | 0 | 0 | 0 | 45 |
| 2:45 | 8 | 0 | 0 | 0 | 0 | 8 | 14:45 | 33 | 1 | 0 | 0 | 0 | 34 |
| 3:00 | 5 | 0 | 0 | 0 | 0 | 5 | 15:00 | 33 | 1 | 0 | 0 | 0 | 34 |
| 3:15 | 2 | 0 | 0 | 0 | 0 | 2 | 15:15 | 51 | 0 | 0 | 0 | 0 | 51 |
| 3:30 | 2 | 0 | 0 | 0 | 0 | 2 | 15:30 | 48 | 0 | 1 | 0 | 0 | 49 |
| 3:45 | 8 | 0 | 0 | 0 | 0 | 8 | 15:45 | 62 | 0 | 0 | 0 | 0 | 62 |
| 4:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16:00 | 56 | 1 | 0 | 0 | 0 | 57 |
| 4:15 | 3 | 0 | 0 | 0 | 0 | 3 | 16:15 | 42 | 0 | 0 | 0 | 0 | 42 |
| 4:30 | 1 | 0 | 0 | 0 | 0 | 1 | 16:30 | 49 | 0 | 0 | 0 | 0 | 49 |
| 4:45 | 10 | 0 | 0 | 0 | 0 | 10 | 16:45 | 39 | 0 | 0 | 0 | 0 | 39 |
| 5:00 | 5 | 0 | 0 | 0 | 0 | 5 | 17:00 | 59 | 0 | 0 | 0 | 0 | 59 |
| 5:15 5:30 | 8 | 0 0 | 0 0 | 0 0 | 0 | 8 | 17:15 17:30 | 43 40 | 0 | 0 0 | 0 0 | 0 | 43 40 |
| 5:30 5:45 | 6 5 | 0 | 0 | 0 | 0 | 6 5 | 17:30 17:45 | 50 | 1 | 0 | 0 | 0 | 51 |
| 6:00 | 6 | 0 | 0 | 0 | 0 | 6 | 18:00 | 38 | 1 | 0 | 0 | 0 | 39 |
| 6:15 | 3 | 0 | 0 | 0 | 0 | 3 | 18:15 | 33 | 0 | 0 | 0 | 0 | 33 |
| 6:30 | 8 | 0 | 0 | 0 | 0 | 8 | 18:30 | 44 | 0 | 0 | 0 | 0 | 44 |
| 6:45 | 9 | 0 | 0 | 0 | 0 | 9 | 18:45 | 35 | 1 | 0 | 0 | 0 | 36 |
| 7:00 | 9 | 0 | 0 | 0 | 0 | 9 | 19:00 | 33 | 0 | 0 | 0 | 0 | 33 |
| 7:15 | 14 | 0 | 0 | 0 | 0 | 14 | 19:15 | 29 | 0 | 0 | 0 | 0 | 29 |
| 7:30 | 15 | 0 | 0 | 0 | 0 | 15 | 19:30 | 27 | 0 | 0 | 0 | 0 | 27 |
| 7:45 | 34 | 0 | 0 | 0 | 0 | 34 | 19:45 | 20 | 1 | 0 | 0 | 0 | 21 |
| 8:00 | 44 | 1 | 0 | 0 | 0 | 45 | 20:00 | 29 | 0 | 0 | 0 | 0 | 29 |
| 8:15 | 47 | 2 | 1 | 0 | 0 | 50 | 20:15 | 25 | 0 | 0 | 0 | 0 | 25 |
| 8:30 | 23 | 0 | 0 | 0 | 0 | 23 | 20:30 | 33 | 0 | 0 | 0 | 0 | 33 |
| 8:45 | 37 | 0 | 0 | 0 | 0 | 37 | 20:45 | 29 | 0 | 0 | 0 | 0 | 29 |
| 9:00 | 14 | 0 | 0 | 0 | 0 | 14 | 21:00 | 29 | 0 | 0 | 0 | 0 | 29 |
| 9:15 | 13 | 0 | 0 | 0 | 0 | 13 | 21:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 9:30 | 16 | 0 | 0 | 0 | 0 | 16 | 21:30 | 32 | 0 | 0 | 0 | 0 | 32 |
| 9:45 | 10 | 1 | 0 | 0 | 0 | 11 | 21:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 10:00 | 11 | 1 | 0 | 0 | 0 | 12 | 22:00 | 15 | 0 | 0 | 0 | 0 | 15 |
| 10:15 | 16 | 2 | 0 | 0 | 0 | 18 | 22:15 | 18 | 0 | 0 | 0 | 0 | 18 |
| 10:30 | 19 | 0 | 0 | 0 | 0 | 19 | 22:30 | 21 | 0 | 0 | 0 | 0 | 21 |
| 10:45 | 20 | 0 | 0 | 0 | 0 | 20 | 22:45 | 19 | 0 | 0 | 0 | 0 | 19 |
| 11:00 | 14 | 1 | 1 | 0 | 0 | 16 | 23:00 | 11 | 0 | 0 | 0 | 0 | 11 |
| 11:15 | 20 | 0 | 0 | 0 | 0 | 20 | 23:15 | 21 | 0 | 0 | 0 | 0 | 21 |
| 11:30 | 17 | 0 | 0 | 0 | 0 | 17 | 23:30 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:45 | 19 | 0 | 0 | 0 | 0 | 19 | 23:45 | 14 | 0 | 0 | 0 | 0 | 14 |
| TOTAL | 565 | 8 | 2 | 0 | 0 | 575 | TOTAL | 1,571 | 14 | 1 | 0 | 0 | 1,586 |

| AM | PEAK | HOUR | 8:00 AM |
|----|------|--------|---------|
| ΑM | PEAK | VOLUME | 155 |

| AM PEAK HOUR | 3:15 PM |
|----------------|---------|
| AM PEAK VOLUME | 219 |

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 2,136 | 22 | 3 | 0 | 0 | 2,161 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.8% | 1.0% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 151 | 3 | 1 | 0 | 0 | 155 |
| PM PEAK | 192 | 1 | 0 | 0 | 0 | 193 |

Study Site 12 - Hunt Club Apartments

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

DATE: THREE DAYS CITY: WRCOG

JOB #: SC3826 LOCATION: CLASS81 Dwy west of Goetz.

| AM | ОИТ | | | | | PM | | | | | | | |
|--------------|----------|--------|--------|--------|---|----------|----------------|----------|--------|----------|--------|---|----------|
| TIME | 1 | 2 | 3 | 4 | 5 | TOTAL | Time | 1 | 2 | 0UT 3 | 4 | 5 | TOTAL |
| 0:00 | 5 | 0 | 0 | 0 | 0 | 5 | 12:00 | 27 | 1 | 0 | 0 | 0 | 28 |
| 0:00 | 4 | 0 | 0 | 0 | 0 | 4 | 12:15 | 17 | 0 | 0 | 0 | 0 | 17 |
| 0:30 | 6 | 0 | 0 | 0 | 0 | 6 | 12:30 | 42 | 1 | 0 | 0 | 0 | 43 |
| 0:45 | 1 | 0 | 0 | 0 | 0 | 1 | 12:45 | 29 | 1 | 0 | 0 | 0 | 30 |
| 1:00 | 2 | 0 | 0 | 0 | 0 | 2 | 13:00 | 31 | 2 | 0 | 0 | 0 | 33 |
| 1:15 | 5 | 0 | 0 | 0 | 0 | 5 | 13:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 1:30 | 4 | 0 | 0 | 0 | 0 | 4 | 13:30 | 39 | 3 | 0 | 0 | 0 | 42 |
| 1:45 | 1 | 0 | 0 | 0 | 0 | 1 | 13:45 | 40 | 1 | 0 | 0 | 0 | 41 |
| 2:00 | 2 | 0 | 0 | 0 | 0 | 2 | 14:00 | 53 | 0 | 0 | 0 | 0 | 53 |
| 2:15 | 4 | 0 | 0 | 0 | 0 | 4 | 14:15 | 38 | 0 | 0 | 0 | 0 | 38 |
| 2:30 | 2 | 0 | 0 | 0 | 0 | 2 | 14:30 | 32 | 0 | 0 | 0 | 0 | 32 |
| 2:45 | 4 | 0 | 0 | 0 | 0 | 4 | 14:45 | 25 | 0 | 0 | 0 | 0 | 25 |
| 3:00 | 4 | 0 | 0 | 0 | 0 | 4 | 15:00 | 38 | 1 | 0 | 0 | 0 | 39 |
| 3:15 | 8 | 0 | 0 | 0 | 0 | 8 | 15:15 | 39 | 1 | 0 | 0 | 0 | 40 |
| 3:30 | 12 | 0 | 0 | 0 | 0 | 12 | 15:30 | 38 | 0 | 1 | 0 | 0 | 39 |
| 3:45 | 15 | 0 | 0 | 0 | 0 | 15 | 15:45 | 39 | 0 | 0 | 0 | 0 | 39 |
| 4:00 | 13 | 0 | 0 | 0 | 0 | 13 | 16:00 | 28 | 0 | 0 | 0 | 0 | 28 |
| 4:15 | 11 | 0 | 0 | 0 | 0 | 11 | 16:15 | 32 | 1 | 0 | 0 | 0 | 33 |
| 4:30 | 23 | 0 | 0 | 0 | 0 | 23 | 16:30 | 33 | 0 | 0 | 0 | 0 | 33 |
| 4:45 | 17 | 0 | 0 | 0 | 0 | 17 | 16:45 | 23 | 0 | 0 | 0 | 0 | 23 |
| 5:00 | 10 | 0 | 0 | 0 | 0 | 10 | 17:00 | 28 | 0 | 0 | 0 | 0 | 28 |
| 5:15 | 18 | 0 | 0 | 0 | 0 | 18 | 17:15 | 39 | 0 | 0 | 0 | 0 | 39 |
| 5:30 | 21 | 0 | 0 | 0 | 0 | 21 | 17:30 | 31 | 0 | 0 | 0 | 0 | 31 |
| 5:45 | 28 | 0 | 0 | 0 | 0 | 28 | 17:45 | 27 | 0 | 0 | 0 | 0 | 27 |
| 6:00 | 14 | 0 | 0 | 0 | 0 | 14 | 18:00 | 17 | 0 | 0 | 0 | 0 | 17 |
| 6:15 | 25 | 1 | 0 | 0 | 0 | 26 | 18:15 | 24 | 0 | 0 | 0 | 0 | 24 |
| 6:30 | 37 | 0 | 0 | 0 | 0 | 37 | 18:30 | 19 | 0 | 0 | 0 | 0 | 19 |
| 6:45 | 30 | 0 | 0 | 0 | 0 | 30 | 18:45 | 24 | 0 | 0 | 0 | 0 | 24 |
| 7:00 | 47 | 1 | 0 | 0 | 0 | 48 | 19:00 | 20 | 1 | 0 | 0 | 0 | 21 |
| 7:15 7:30 | 65 73 | 0 | 0 | 0 | 0 | 65 | 19:15 | 17 | 0 0 | 0 0 | 0 0 | 0 | 17 13 |
| 7:30 7:45 | 72 87 | 0 0 | 0 0 | 0 0 | 0 | 72 87 | 19:30 19:45 | 13 17 | 0 | 0 | 0 | 0 | 17 |
| 7:45 8:00 | 53 | 0 | 0 | 0 | 0 | 53 | 20:00 | 10 | 0 | 0 | 0 | 0 | 10 |
| 8:00 8:15 | 30 | 1 | 0 | 0 | 0 | 31 | 20:15 | 18 | 2 | 0 | 0 | 0 | 20 |
| 8:30 | 16 | 2 | 1 | 0 | 0 | 19 | 20:30 | 18 | 0 | 0 | 0 | 0 | 18 |
| 8:45 | 17 | 0 | 0 | 0 | 0 | 17 | 20:45 | 16 | 0 | 0 | 0 | 0 | 16 |
| 9:00 | 30 | 0 | 0 | 0 | 0 | 30 | 21:00 | 9 | 0 | 0 | 0 | 0 | 9 |
| 9:15 | 14 | 0 | 0 | 0 | 0 | 14 | 21:15 | 8 | 0 | 0 | 0 | 0 | 8 |
| 9:30 | 23 | 0 | 0 | 0 | 0 | 23 | 21:30 | 16 | 0 | 0 | 0 | 0 | 16 |
| 9:45 | 20 | 0 | 0 | 0 | 0 | 20 | 21:45 | 8 | 0 | 0 | 0 | 0 | 8 |
| 10:00 | 25 | 1 | 0 | 0 | 0 | 26 | 22:00 | 5 | 0 | 0 | 0 | 0 | 5 |
| 10:15 | 27 | 0 | 0 | 0 | 0 | 27 | 22:15 | 4 | 0 | 0 | 0 | 0 | 4 |
| 10:30 | 17 | 1 | 0 | 0 | 0 | 18 | 22:30 | 11 | 0 | 0 | 0 | 0 | 11 |
| 10:45 | 31 | 0 | 0 | 0 | 0 | 31 | 22:45 | 10 | 0 | 0 | 0 | 0 | 10 |
| 11:00 | 24 | 0 | 0 | 0 | 0 | 24 | 23:00 | 7 | 0 | 0 | 0 | 0 | 7 |
| 11:15 | 25 | 1 | 0 | 0 | 0 | 26 | 23:15 | 6 | 0 | 0 | 0 | 0 | 6 |
| 11:30 | 22 | 0 | 0 | 0 | 0 | 22 | 23:30 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 16 | 0 | 1 | 0 | 0 | 17 | 23:45 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 987 | 8 | 2 | 0 | 0 | 997 | TOTAL | 1,092 | 15 | 1 | 0 | 0 | 1,108 |

AM PEAK HOUR 7:15 AM AM PEAK VOLUME 277

AM PEAK HOUR 1:30 PM AM PEAK VOLUME 174

| CLASS 1 | CARS |
|---------|-----------------|
| CLASS 2 | 2-AXLE TRUCKS |
| CLASS 3 | 3-AXLE TRUCKS |
| CLASS 4 | 4-AXLE TRUCKS |
| CLASS 5 | 5-AXLE + TRUCKS |
| | |

| TOTAL: AM+PM | 2,079 | 23 | 3 | 0 | 0 | 2,105 |
|--------------|-------|------|------|------|------|--------|
| % OF TOTAL | 98.8% | 1.1% | 0.1% | 0.0% | 0.0% | 100.0% |
| AM PEAK | 277 | 0 | 0 | 0 | 0 | 277 |
| PM PEAK | 125 | 0 | 0 | 0 | 0 | 125 |



Appendix B: Apartment Characteristics

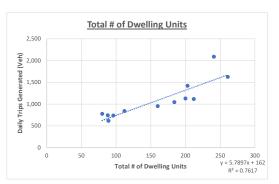
| | | | | | | | # of Apartment Style | | | | | | | | | | Apartment S | Size (Sq. Ft.) |) | | |
|-----------------|---------------------------|---------------------------------|------------------------------------------------------|-----------------|-----------------------------------|--------|----------------------|-----------------|-------------------|------------------|-------------------|------------------------|---------------------------------|--------|----------------|-----------------|-------------------|------------------|-------------------------------------------|------------------------------|-----------------------------------------------------|
| Study Site # | TUMF Zone | Name | Address | Phone # | Apartment Website | Studio | One Bedroom | Two Bedrooms | Three Bedrooms | Four Bedrooms | Total # of DUs | Total # of Bedrooms | Average # Bedrooms per DU | Studio | One Bedroom | Two Bedrooms | Three Bedrooms | Four Bedrooms | Average Size of Unit per Complex | Sum of Area of All Dus | Average Square Footage per DU (Sq. Ft.) |
| 1 | Central Zone | Oakwood Apartments | 15170 Perris Blvd, Moreno Valley, CA 92551 | +1 951-243-0800 | N/A | - | - | 80 | 93 | 68 | 241 | 711 | 3.0 | - | - | 832 | 1,042 | 1,282 | 1,052 | 250,642 | 1040.01 |
| 2 | Northwest Zone | Springbrook Park Apartments | 1066 Orange St, Riverside, CA 92501 | +1 951-682-9774 | N/A | - | 40 | 32 | 40 | - | 112 | 224 | 2.0 | - | 800 | 967 | 1,100 | - | 956 | 106,944 | 954.86 |
| 3 | Central Zone | Vista Springs Apartments | 21550 Box Springs Rd, Moreno Valley, CA 92557 | +1 951-276-0334 | N/A | - | 108 | 104 | - | - | 212 | 316 | 1.5 | - | 690 | 960 | - | - | 825 | 174,360 | 822.45 |
| 4 | Northwest Zone | Vesada Apartment Homes | 3390 Country Village Road, Riverside, CA 92509 | +1 951-462-2198 | california.weidner.com | 18 | 72 | 153 | 18 | - | 261 | 450 | 1.7 | 629 | 782 | 1,021 | 1,168 | - | 900 | 244,863 | 938.17 |
| 5 | Southwest Zone | Morning Ridge Apartments | 30660 Milky Way Dr, Temecula, CA 92592 | +1 951-699-0886 | morningridgeapts.com | - | 74 | 126 | - | - | 200 | 326 | 1.6 | | 680 | 950 | - | - | 815 | 170,020 | 850.10 |
| 6 | Northwest Zone | Stonegate Apartments | 6506 Doolittle Ave, Riverside, CA 92503 | (951) 351-9445 | stonegateriverside.com | 1 | 79 | 80 | - | - | 160 | 240 | 1.5 | 300 | 705 | 905 | - | - | 637 | 128,395 | 802.47 |
| 7 | Southwest Zone | River's Edge Apartment Homes | 2088 E Lakeshore Dr, Lake Elsinore, CA 92530 | +1 951-678-8553 | riversedgeapartmentlivi ng.com | - | 96 | 88 | - | - | 184 | 272 | 1.5 | - | 762 | 1,089 | - | - | 926 | 168,984 | 918.39 |
| 8 | Hemet/San Jacinto Zone | Mayberry Colony Apartments | 40389 Mayberry Ave # A1, Hemet, CA 92544 | +1 951-929-3380 | www.mayberrycolony.co m | - | 34 | 55 | - | - | 89 | 144 | 1.6 | - | 790 | 962 | - | - | 876 | 79,770 | 896.29 |
| 9 | Pass Zone | Summit Ridge Apartments | 555 N Hathaway St # 1101, Banning, CA 92220 | +1 951-849-3001 | www.summitridgebanni ng.com | - | - | 40 | 40 | - | 80 | 200 | 2.5 | - | 850 | 1,058 | - | - | 954 | 42,320 | 529.00 |
| 10 | Hemet/San Jacinto Zone | Riverdale Apartments | 1250 S Cawston Ave, Hemet, CA 92545 | +1 951-766-5672 | www.rentriverdaleapts.c | - | - | 36 | 60 | - | 96 | 252 | 2.6 | - | - | 984 | 1,033 | - | 1,009 | 97,404 | 1014.63 |
| 11 | Northwest Zone | Parkridge Meadows Apartments | 219 E Parkridge Ave, Corona, CA 92879 | +1 951-736-8681 | www.allenproperties.net | - | - | 87 | 1 | - | 88 | 177 | 2.0 | - | - | 780 | - | - | 780 | 67,860 | 771.14 |
| 12 | Central Zone | Hunt Club Apartments | 1355 S Perris Blvd, Perris, CA 92570 | +1 951-657-0228 | www.huntclubperris.co m | - | - | 203 | - | - | 203 | 406 | 2.0 | - | - | 962 | - | - | 962 | 195,286 | 962.00 |



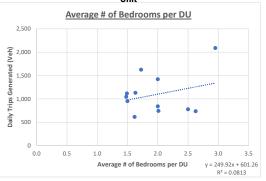


Appendix C: Correlation Plots

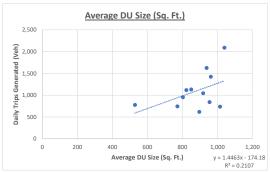
Daily Trip Generation by # of Dwelling Units in Complex



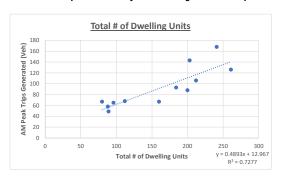
Daily Trip Generation by Average # of Bedrooms Per Dwelling Unit



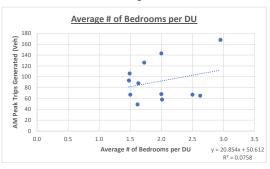
Daily Trip Generation by Average Size of Dwelling Unit



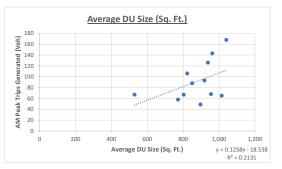
AM Peak Trip Generation by # of Dwelling Units in Complex



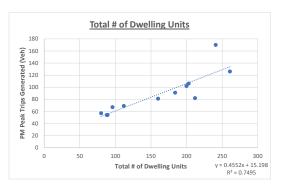
AM Peak Trip Generation by Average # of Bedrooms Per Dwelling Unit



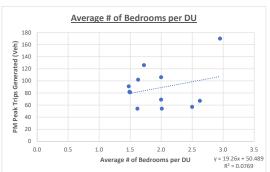
AM Peak Trip Generation by Average Size of Dwelling Unit



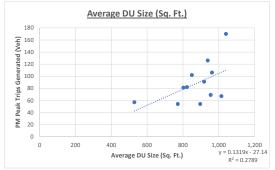
PM Peak Trip Generation by # of Dwelling Units in Complex



PM Peak Trip Generation by Average # of Bedrooms Per Dwelling Unit



PM Peak Trip Generation by Average Size of Dwelling Unit





Appendix L - Non-Residential Fee Calculation

The non-residential fee was calculated by multiplying the estimated Regional System of Highways and Arterials improvements cost attributable to new development (**Section 4.0**) by the proportion of all regional trips that are generated by non-residential land uses (**Section 5.3**), and dividing this number by the projected increase in non-residential land use between 2018 and 2045 (**Table 2.3**, **Section 2.0**) and the proportional share of new employees in each sector.

In preparation for the fee calculation, SCAG 2020 RTP/SCS employment data by sector was first converted to land use as square feet of gross floor area (SF GFA). Non-residential employee to gross floor area conversion factors were derived from four sources. These sources are:

- Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas, Inc. (PBQD), Land Use Density Conversion Factors For The Long-Range Corridor Study San Bernardino and Riverside Counties, August 20, 1990. Table 8.
- Orange County Transportation Authority (OCTA), <u>Orange County Subarea</u>
 <u>Modeling Guidelines Manual</u>, June 2001. Appendix C.
- Southern California Association of Governments (SCAG), <u>Employment Density</u> <u>Study</u>, October 31, 2001, Table IIB
- County of Riverside, <u>General Plan</u>, As Amended December 15, 2015, Appendix E:
 Socioeconomic Build-Out Projections Assumptions & Methodology, Table E-5

The employment conversion factors developed for use in the calculation of the non-residential fee are tabulated in **Exhibits L-1** through **L-4**. The relevant sections of these respective publications are included in this Appendix as **Exhibits L-5** through **L-8**.

To account for the difference in trip generation rates between the various employment sectors, the non-residential fee value for each sector was normalized by multiplying by the respective median trip generation rate for the range of associated land use types as published in the Institute of Traffic Engineers <u>Trip Generation Manual</u>, Eleventh Edition, 2021. The respective fee values are presented in **Section 6.2**. The table detailing the calculation of the non-residential fee (and residential fee) is included in **Appendix K** as **Exhibit K-1**.

EXHIBIT L-1 Employment Conversion Factors

| Employment Sector | Business by Land Use Category (1) | Employees | Gross Floor Area (TSF) | Conversion Rate (Employees/TSF) | Land Use Category (2) | Minimum Range Conversion Rate (Employees/TSF) | Land Use Category (3) | SF per Employee based on Average Employees per Acre and Average FAR (Riverside County) | Employees/TSF | Land Use Category (4) | SF per Employee | Employees/TSF | TUMF Median Employment Conversion Factors (Employees/TSF) |
|--------------------------|--------------------------------------|-----------|------------------------|------------------------------------|----------------------------|-----------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------------|---------------|--------------------------------------------------------------------|
| | Heavy Manufacturing | 6,379 | | | R&D/LI/BP | 2.50 | R&D/Flex Space | 867 | | Light Industrial | 1030 | | |
| | General Manufacturing | 11.603 | | | Heavy Industry | 2.00 | Liaht Manufacturina | 1548 | | Heavy Industry | 1500 | | |
| | Light Manufacturing | 8,624 | 3,962 | 2.18 | Warehouse | 1.00 | Warehouse | 1195 | | | | | |
| | Manufacturing, Small Module | 5.559 | 3.038 | 1.83 | | | | | | | | | |
| | High Tech/Research | 954 | 411 | 2.32 | | | | | | | | | |
| | Wholesale, Trade Industry | 6,120 | 4,140 | 1.48 | | | | | | | | | |
| | Warehousing | 119 | | 0.43 | | | | | | | | | |
| | General Industry | 1,023 | 917 | 1.12 | | | | | | | | | |
| | Median | | | | Median | 2.00 | Median | 1195.0 | 0.84 | Median | 1265.0 | 0.79 | 1.25 |
| | Retail Trade | 34,821 | 20,125 | 1.73 | | | Regional Retail | 268 | | Commercial Retail | 500 | | |
| | Personnal, Rental and Repair | 3,452 | | 2.17 | | | Other Retail/Service | 629 | | | | | |
| | Equipment Rental | 1,080 | 453 | 2.38 | | | | | | | | | |
| Retail | General Commercial | 12,978 | 17,023 | 0.76 | | | | | | | | | |
| | Median | | | 1.95 | | | Median | 448.5 | 2.23 | Median | 500.0 | 2.00 | 2.00 |
| | Financial/Insurance/Real Estate | 7,738 | | | Office | 3.00 | Low-Rise Office | 481 | | Commercial Office | 300 | | |
| | Small Office | 3,945 | | | Medical/PO/Bank | 3.50 | Hotel/Motel | 3476 | | Business Park | 600 | | |
| | Professional Services | 5,470 | | | Hospital | 2.50 | | | | | | | |
| | Business Services General Offices | 6,680 | 1,966 | | Restaurant | 3.00 | | | | | | | |
| | Medical Services | 8,900 | | 2.29 | | | | | | | | | |
| | Restaurant | 9,006 | 3,201 | 2.81 | | | | | | | | | |
| | Median | 23.345 | 4.061 | 5.75 | l | | | | | | | | 2.61 |
| | mediaii | | | 3.58 | Median Government/Civic | 3.00 3.00 | Median Government Offices | 1978.5 208 | 0.51 | Median | 450.0 | 2.22 | 2.61 |
| | | | | | | 1.50 | Government Offices | ∠∪8 | | | | | |
| Government/Public Sector | | | | | Librarv | 1.50 | | | | | | | |
| | | | | | Median | 2.25 | Median | 208.0 | 4.81 | | | | 3.53 |

[|] Median | M

EXHIBIT L-2 Population and Employment Estimates

| Sector | 2018 | 2045 | Change | Employee Conversion Factor / TSF | Change in SF of GFA |
|--------------------------|-----------|-----------|---------|-------------------------------------|---------------------|
| Population | 1,905,440 | 2,533,876 | 628,436 | | |
| Households | | | | | |
| Single-Family | 397,407 | 564,898 | 167,491 | | |
| Multi-Family | 157,166 | 247,501 | 90,335 | | |
| Totals | 554,573 | 812,399 | 257,826 | | |
| Employees | | | | | |
| Industrial | 169,334 | 245,915 | 76,581 | 1.25 | 61,489,565 |
| Retail | 73,814 | 86,929 | 13,115 | 2.00 | 6,557,500 |
| Service | 308,703 | 482,958 | 174,255 | 2.61 | 66,735,957 |
| Government/Public Sector | 18,569 | 30,640 | 12,071 | 3.53 | 3,420,665 |
| Totals | 570,420 | 846,442 | 276,022 | | 138,203,688 |

Source: SCAG 2020 RTP/SCS; RivCOM

EXHIBIT L-3 Trip Generation Rate Comparison

| Non-Residential | | | | | | | | | |
|--------------------------|-----------------|-------------|---------------|--------------------|-------------|---------------------|--------------------|-----------------|------------------|
| | | | | | | | | Median Share PM | |
| | | | ITE Median PM | | Trip Growth | Calculated PM | Weighted Median | | Adjusted PM Peak |
| | | | | ITE Median PM Peak | (SFGrowth * | Peak Hour Trips per | PM Peak Hour Trips | | Hour Trips Per |
| | Employee Growth | SF Growth | Per Employee | Hour Trips per TSF | ITEMedian) | Employee | Per Employee | Service Uses) | Employee |
| Industrial | 76,581 | 61,489,565 | 0.7 | 0.6 | 36,894 | 0.5 | 0.6 | | 0.6 |
| Retail | 13,115 | 6,557,500 | 3.3 | 5.0 | 32,788 | 2.5 | 2.9 | 37% | 1.8 |
| Service | 174,255 | 66,735,957 | 2.2 | 5.7 | 380,395 | 2.2 | 2.2 | 44% | 1.2 |
| Government/Public Sector | 12,071 | 3,420,665 | 3.3 | 3.2 | 10,946 | 0.9 | 2.1 | | 2.1 |
| | 276,022 | 138,203,688 | | | 461,022 | | | | |

EXHIBIT L-4 Representative ITE Weekday PM Peak Hour Trip Generation Rates

| Trip Er 10 15 20 | 0.99 0.61 0.57 | (rip Ends per Residents 0.28 0.44 0.27 |
|---------------------------|----------------------|-------------------------------------------------|
| 15 | 0.61 | 0.44 |
| | | |
| | | |
| 20 | 0.57 | 0.27 |
| | 0.37 | U.Z/ |
| 21 | 0.39 | 0.23 |
| 22 | 0.40 | |
| 23 | 0.50 | 0.14 |
| | 0.49 | 0.27 |
| | 0.50 | 0.25 |
| | 122 123 | 0.50 0.49 |

| Average Median | | 0.49 | 0.27 | |
|-------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|------------------------|-----------------|
| NON-RESIDENTIAL | | | | |
| | | PM Peak Hour | PM Peak Hour | PM Peak Period |
| Land Use Category Industrial | ITE Reference | Irip Ends per ISF* | Trip Ends per Employee | Pass by Irips** |
| Intermodal Truck Terminal | 30 | 1.89 | 0.72 | |
| General Light Industry Industrial Park | 110 130 | 0.80 0.40 | | |
| Manufacturing | 140 | 0.80 | 0.40 | |
| Warehousing High-Cube Transload and Short-Term Storage | 150 154 | 0.23 0.17 | 0.68 | |
| High-Cube Fulfillment Center Warehouse - Non-Sort | 155 | 0.27 | | |
| High-Cube Parcel Hib Warehouse Average | 156 | 0.71 0.66 | 0.58 | |
| Median | | 0.56 | 0.58 | |
| Retail | | | | |
| Building Materials and Lumber Free-Standing Discount Superstore | 812 813 | 2.65 4.39 | 3.30 1.75 | |
| Variety Store | 814 | 7.42 | 12.65 | 34% |
| Free-Standing Discount Store Hardware/Paint Store | 815 816 | 5.42 1.10 | 2.36 3.77 | 20% 26% |
| Nursery (Garden Center) | 817 | 8.37 | 2.55 | |
| Nursery (Wholesale) | 818 820 | 5.01 | 0.59 | |
| Shopping Center Shopping Center (150K to 300K) | 820 820 | 4.09 | 1.91 | 29% |
| Shopping Center (300K to 900 K) | 820 | | | 19% |
| Shopping Plaza with Supermarket Shopping Plaza without Supermarket | 821 821 | 9.72 5.40 | 1.80 | |
| Shopping Plaza | 821 | 5.40 | 1.00 | 40% |
| Strip Retail Plaza | 822 | 13.24 | | |
| Factory Outlet Center Automobile Sales (New) | 823 840 | 1.94 2.65 | 1.10 | |
| Automobile Sales (Used) | 841 | 4.92 | 2.27 | |
| Automobile Parts Sales Tire Store | 843 848 | 5.88 3.72 | 4.27 3.05 | 43% 25% |
| Supermarket | 850 | | | |
| Convenience Store | 851 | 53.51 | 34.33 | |
| Convenience Market with Gasoline Pumps Discount Supermarket | 853 854 | | | |
| Discount Club | 857 | 4.62 | 3.49 | 34% |
| Sporting Goods Superstore | 861 | 2.58 | 0.93 | |
| Home Improvement Superstore Electronics Superstore | 862 863 | 3.21 4.48 | | 42% 40% |
| Pet Supply Superstore | 866 | | | |
| Book Superstore Department Store | 868 875 | 14.00 | | |
| Apparel Store | 876 | 4.20 | | |
| Pharmacy/Drugstore without Drive Through Window | 880 | 8.62 | 7.70 | 53% |
| Pharmacy/Drugstore with Drive Through Window Marijuana Dispensary | 881 882 | 11.23 24.57 | 7.79 | 49% |
| Furniture Store | 890 | 0.70 | | 53% |
| Liquor Store Gasoline/Service Station | 899 944 | 17.00 | 5.98 28.39 | |
| Convenience Store/Gas Station (none) | 945 | | 21.31 | 37 /6 |
| Convenience Store/Gas Station (9 - 15 vehicle fueling positions) | 945 | 56.38 | | 75% |
| Average Median | | 9.54 4.97 | 6.87 3.30 | 38% 37% |
| Service | | | | |
| Data Center Specialty Trade Contractor | 160 180 | 0.13 2.18 | | |
| Movie Theatre | 445 | 14.06 | 9.56 | |
| Health/Fitness Club | 492 | | | 44% |
| Day Care Center Hospital | 565 610 | 11.82 0.98 | 4.66 0.33 | |
| Nursing Home | 620 | 0.82 | 0.45 | |
| Clinic Animal Hospital/Veterinary Clinic | 630 640 | 4.22 3.83 | 2.49 2.26 | |
| Free Standing Emergency Room | 650 | 2.24 | 2.20 | |
| Small Office Building | 712 720 | 3.15 | 1.90 | |
| Medical-Dentist Office Building (Stand-Alone) Medical-Dentist Office Building (Within/Near Hospital Campus) | 720 | 4.79 3.78 | 1.26 1.03 | |
| Walk-in Bank | 911 | 26.40 | | |
| Drive-in Bank Hair Salon | 912 918 | 20.92 | 4.36 | 35% |
| Copy, Print and Express Ship Store | 920 | 12.30 | 6.63 | |
| Fast Casual Restaurant | 930 | | 1.79 | 44% |
| Fine Dining Restaurant High Turnover (Sit-Down) Restaurant | 931 932 | 8.28 16.35 | | |
| Fast Food Restaurant with Drive Through | 934 | 50.94 | 5.45 | 55% |
| Fast Food Restaurant with Drive Through No Seating Coffee/Donut Shop with Drive Through | 935 937 | 43.65 | | 31% |
| Coffee/Donut Shop with Drive Through No Seating | 938 | | | 98% |
| Quick Lube Vehicle Shop Automobile Care Center | 941 942 | 9.42 3.51 | 2.17 1.43 | |
| Automobile Parts and Service Center | 943 | 2.61 | 1.43 | |
| Wine Tasting Room | 970 | 6.60 | | |
| Brewery Tap Room Drinking Place | 971 975 | 10.93 15.53 | | |
| Average | ,,, | 10.85 | 3.06 | 50% |
| Median Government/Public Sector | | 5.70 | 2.17 | 44% |
| Recreational Community Center | 495 | 2.53 | 2.71 | |
| Elementary School | 520 | | 4.60 | |
| Middle/Junior High School High School | 522 525 | | 4.83 3.32 | |
| School District Office | 528 | 2.37 | 0.84 | |
| Private School (K-8) Private School (K-12) | 530 532 | | 5.72 2.82 | |
| Private High School | 534 | | 2.49 | |
| Charter Elementary School | 536 | | 10.64 | |
| Charter School (K-12) Junior/Community College | 538 540 | | 10.66 1.63 | |
| University/College | 550 | | 0.81 | |
| Adult Detention Facility | 571 | 0.94 | | |
| Library Government Office Building | 590 730 | | | |
| State Motor Vehicles Department | 731 | 7.68 | 4.27 | |
| Post Office Average | 732 | 15.11 5.76 | 3.29 3.93 | |
| Median | | 3.19 | 3.29 | |
| Notes: | , | | | |
| * - Average weekday PM peak hour of generator trip end data de | suvea from the trip (| seneralion Manu | urrrim camont, septemb | JEI ZUZ I |

Notes:

- Average weekday PM peak hour of generator trip end data derived from ITE Trip Generation Manual (11th Edition), September 2021

- Average weekday PM peak pass-by trip rates derived from ITE Trip Generation Manual (11th Edition), September 2021

EXHIBIT L-5

<u>Land Use Density Conversion Factors for the Long-Range Corridor Study San</u>
<u>Bernardino and Riverside Counties</u>, Table 8

Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas, Inc. (PBQD), August 20, 1990.

TABLE 8
EMPLOYEES PER ACRE
RIVERSIDE COUNTY

| | Employees * | Floor Space Sq. Ft. | Square Feet Per Employee | Average F.A.R | Employees per Acre |
|---------------------------------------|-------------|------------------------|-----------------------------|------------------|-----------------------|
| BUSINESS BY LAND USE | | <u>.</u> | 7 7 | | |
| Manufacturing/Industrial | 40,383 | 23,968,000 | 594 | 0.25 | 18 |
| Heavy Manufacturing | 6,379 | 5,117,000 | 802 | 0.20 | 11 |
| General Manufacturing | 11,603 | 6,103,000 | 526 | 0.20 | 17 |
| Light Manufacturing | 8,624 | 3,962,000 | 459 | 0.25 | 24 |
| Manufacturing, Small Module | 5,559 | 3,038,000 | 547 | 0.25 | 20 |
| High Tech Activity and Research | 954 | 411,000 | ٠ 431 | 0.35 | 35 |
| Wholesale Trade Industrial | 6,120 | 4,140,000 | 676 | 0.25 | 16 |
| Warehousing | 119 | 279,000 | 2,345 | 0.25 | 5 |
| General Industrial | 1,023 | 917,000 | 896 | 0.20 | 10 |
| Commercial | 79,067 | 46,304,000 | 586 | 0.30 | 22 |
| Retail Trade | 34,821 | 20,125,000 | 578 | 0.30 | 23 |
| Restaurants and Bars | 23,345 | 4,061,000 | 174 | 0.30 | 75 |
| Personnal, Rental and Repair Services | 3,452 | 1,590,000 | 461 | 0.30 | 28 |
| Automotive Repair Services | 1,870 | 1,619,000 | 866 | 0.30 | 15 |
| Equipment Rental | 1,080 | 453,000 | 419 | 0.30 | 31 |
| Wholesale, Trade Commercial | 1,521 | 1,434,000 | 943 | 0.25 | 12 |
| General Commercial | 12,978 | 17,023,000 | 1,312 | 0.40 | 13 |
| Office | 41,740 | 12,226,000 | 293 | 0.50 | 74 |
| Finance/Insurance/Real Estate | 7,738 | 1,095,000 | 142 | 0.50 | 154 |
| Finance/Insurance/RE/Small Office | 3,945 | 548,000 | 139 | 0.50 | 1 |
| Professional Services | 5,470 | | 280 | 0.50 | l l |
| Business Services | 6,680 | | 294 | 0.50 | 1 |
| General Office | 8,900 | | 437 | 0.50 | |
| Medical Services | 9,006 | 3,201,000 | 355 | 0.50 | 61 |

^{*} Employment figures do not include government, military and sole proprietorships. Source: Urban Decision Systems (1989), Census Zip Business Patterns (1986)

Filename: Trans rv

EXHIBIT L-6

<u>Orange County Subarea Modeling Guidelines Manual</u>, Appendix C

Orange County Transportation Authority (OCTA)

June 2001

TYPICAL EMPLOYMENT CONVERSION FACTORS (June 2001)

| | | Employmen | Employment Type (Percentate Ranges) | ate Ranges) |
|------------------------------------|---------------------------------------|---------------------------|----------------------------------------|-------------|
| Land Use Category | Conversion Rates Range | Retail | Service | Other |
| Commercial | 2.25 –2.75 employees/TSF ¹ | % 06 - % 09 | 10% - 40% | 9% - 5% |
| Office/Office Park | 3.00 – 4.00 employees/TSF | 0% – 5% | 20% - 30% | 65% - 80% |
| R&D/Light Industrial/Business Park | 2.50 – 3.50 employees/TSF | %9 - %0 | %08 - %0 | 60% - 100% |
| Heavy Industrial | 2.00 – 2.50 employees/TSF | %0 | %0 | 100% |
| Warehouse | 1.00 – 2.00 employees/TSF | %0 | %0 | 100% |
| Restaurant | 3.00 – 5.00 employees/TSF | 100% | %0 | %0 |
| Medical Office/Post-Offfice/Bank | 3.50 4.50 employees/TSF | 0% - 10% | 70% - 100% | 0% - 20% |
| Government Office/Civic Center | 3.00 – 4.00 emptoyees/TSF | 0% – 5% | 20% - 70% | 25% - 50% |
| Hospital | 2.50 – 3.00 employees/TSF | %0 | 70% - 80% | 20% - 30% |
| Library/Museum | 1.50 – 2.50 employees/TSF | %0 | 100% | %0 |
| Hotel/Motel | 0.75 – 1.25 employees/room | 0% - 10% | %08 - %0 <i>L</i> | 10% - 30% |
| Schools | 0.08 - 0.12 employees/student | 0% | %0 | 100% |
| Golf Course | 0.50 - 0.70 employees/acre | 0% - 10% | 90% - 100% | %0 |
| Developed Park/Athletic Fields | 0.20 - 0.40 employees/acre | %0 | 80% - 100% | 0% - 20% |
| Park | 0.05 - 0.10 employees/acre | %0 | 80% - 100% | 0% - 20% |
| Agricultural | 0.01 – 0.05 employees/acre | %0 | %0 | 100% |
| | | | ************************************** | |

1 Thousands of Square Feet

EXHIBIT L-7
Employment Density Study, Table IIB
Southern California, October 31, 2001

Table II-A
Derivation of Square Feet per Employee Based on:

- -- MEDIAN EMPLOYEES PER ACRE
- --MEDIAN FAR

| Land Use Category | Los Angeles | Orange | Riverside Square | San <u>Bernardino</u> e Feet per Emp | <u>Ventura</u> loyee | Imperial | Region |
|---------------------|----------------|--------|---------------------|--------------------------------------------|-------------------------|----------|--------|
| Regional Retail | | 2,322 | 165 | 1,392 | 990 | | 1,023 |
| Other Retail/Svc. | 730 | 450 | 1,148 | 432 | 412 | 796 | 585 |
| Low-Rise Office | 471 | 352 | 598 | 1,014 | 659 | 415 | 466 |
| High-Rise Office | 377 | 235 | | | | | 300 |
| Hotel/Motel | 1,179 | | 5,273 | 1,747 | | 808 | 1,804 |
| R & D/Flex Space | 1,717 | 511 | 1,121 | 1,833 | 277 | | 527 |
| Light Manufacturing | 1,214 | 786 | 2,221 | 1,538 | 202 | 2,230 | 924 |
| Heavy Manufacuring | | | | | | | |
| Warehouse | 1,518 | 1,350 | 819 | 2,111 | 149 | 3,257 | 1,225 |
| Government Offices | 2,182 | 408 | 1,475 | 851 | 120 | 407 | 672 |

Table II-B
Derivation of Square Feet per Employee Based on:

- --AVERAGE EMPLOYEES PER ACRE
- --AVERAGE FAR

| Land Use Category | Los Angeles | Orange | Riverside | San Bernardino | Ventura | Imperial | Region |
|---------------------|----------------|--------|-----------|-------------------|---------|----------|---------|
| Land Ose Galegory | Arigeles | Orange | | e Feet per Emp | | Imperial | rtegion |
| | | | Squar | e i eet pei Linp | iloyee | | |
| Regional Retail | | 704 | 268 | 1,009 | 1,165 | | 857 |
| Other Retail/Svc. | 424 | 325 | 629 | 124 | 271 | 255 | 344 |
| Low-Rise Office | 319 | 287 | 481 | 697 | 389 | 632 | 288 |
| High-Rise Office | 440 | 218 | | | | | 311 |
| Hotel/Motel | | | 3,476 | 2,544 | | 311 | 1,152 |
| R & D/Flex Space | 1,796 | 466 | 867 | 834 | 269 | | 344 |
| Light Manufacturing | 829 | 558 | 1,548 | 705 | 189 | 994 | 439 |
| Heavy Manufacuring | | | | | | | |
| Warehouse | 1,518 | 979 | 581 | 1,195 | 131 | 450 | 814 |
| Government Offices | 1,442 | 206 | 208 | 188 | 94 | 322 | 261 |

Notes:

[&]quot;--" = Data not available.

EXHIBIT L-8

<u>General Plan</u>, As Amended December 15, 2015.

Appendix E: Socioeconomic Build-Out Projections Assumptions & Methodology, Table E-5

County of Riverside, 2015

County of Riverside General Plan

Socioeconomic Build-out Assumptions and Methodology



Table E-3: Net Parcel Acre Factors

| Land Use Designation | Net Parcel Area |
|-------------------------|-----------------|
| Commercial Retail (CR) | 0.75 |
| Commercial Tourist (CT) | 0.75 |
| Commercial Office (CO) | 0.75 |
| Light Industrial (LI) | 0.80 |
| Heavy Industrial (HI) | 0.75 |
| Business Park (BP) | 0.75 |

Net Parcel Square Feet: To convert net acres to net square feet, net acres are multiplied by 43,560 feet per acre. For example, 50 net acres of Commercial Office (66.66 gross acres) equals 2,178,000 net square feet.

Floor Area Ratio (FAR): Floor Area Ratio, or FAR, indicates the ratio of gross building square footage permitted on a parcel to net square footage of the parcel. FAR's for Commercial, Industrial and Business Park land uses are identified, in Table E-4, below. See General Plan Glossary for full definition of FAR.

Table E-4: Development FAR Factors

| | | FAR | | | | | | |
|-------------------------|---------|-----------|---------|--|--|--|--|--|
| Land Use Designation | Minimum | Probable* | Maximum | | | | | |
| Commercial Retail (CR) | 0.20 | 0.23 | 0.35 | | | | | |
| Commercial Tourist (CT) | 0.20 | 0.25 | 0.35 | | | | | |
| Commercial Office (CO) | 0.25 | 0.35 | 1.00 | | | | | |
| Light Industrial (LI) | 0.25 | 0.38 | 0.60 | | | | | |
| Heavy Industrial (HI) | 0.15 | 0.40 | 0.50 | | | | | |
| Business Park (BP) | 0.25 | 0.30 | 0.60 | | | | | |

^{*}Factor used for theoretical planning estimates.

Building Square Footage: Building square footage for the land use designations listed in the table above are calculated by multiplying the Net Square Feet of each land use designation by the corresponding FAR. For instance, 20,000 square feet of Commercial Retail with an FAR of 0.23 would yield 4,600 square feet of building space.

Square Feet (SF)/Employee Factor: This factor indicates the number of employees typically associated with a given amount of square feet of building space per employee. It is used to estimate the number of jobs resulting for a given land use designation. These factors for the commercial land use designations are listed in Table E-5 below.

Table E-5: Commercial Employment Factors

| Land Use Designation | SF/Employee |
|-------------------------|-------------|
| Commercial Retail (CR)* | 500 |
| Commercial Tourist (CT) | 500 |
| Commercial Office (CO) | 300 |
| Light Industrial (LI) | 1,030 |
| Heavy Industrial (HI) | 1,500 |
| Business Park (BP) | 600 |
| | |

^{*}It is assumed that CR designated lands will build out at 40% CR and 60% MDR.

Employment: Employment for commercial, industrial, and business park land uses is calculated by dividing the total number of building square feet by the SF/Employee factor. For example, 300,000 square feet of commercial office building space would yield 1,000 employees.