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DRAFT DEVELOPMENT IMPACT FEE JUSTIFICATION STUDY

CITY OF FONTANA

Report Date: May 26, 2026

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CITY OF FONTANA

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DRAFT DEVELOPMENT IMPACT FEE STUDY UPDATE

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I EXECUTIVE SUMMARY

In order to adequately plan for new development and identify the public facilities and costs associated with mitigating the direct and cumulative impacts of new development, DTA Public Finance, Inc. ("DTA"), was retained by the City of Fontana, CA (the "City") to update the existing impact fee program by preparing a new Assembly Bill ("AB") 1600 fee justification study (the "Fee Study"). The previous fee justification study was completed in December 2019, and the current fees are based on its findings. The categories of Development Impact Fees ("DIFs" or "Fees") to be determined by this Fee Study include Public Facilities, Police, Fire, Library, Parks, Landscape Maintenance, Local Arterials, Active Transportation Plan, Traffic Signals, Sewer, and Storm Drain at levels identified by the various City departments as being necessary to meet the needs of new development. The purpose of this Fee Study will be to establish a nexus between the anticipated development and the City's public facilities needs through 2044. This Fee Study is intended to comply with Section 66000 *et seq.* of the Government Code, which was enacted by the State of California in 1987, by identifying additional public facilities required by new development ("Future Facilities") and determining the level of fees that may be imposed to pay the costs of the Future Facilities. The Future Facilities and associated construction costs are identified in the Facilities Inventory and Needs List, which is included in **Appendix B** of the Fee Study. A description of the methodology used to calculate the fees is included in Section V. The purpose of this Fee Study is to ensure that all new development is required to pay its "fair share" of the cost of new infrastructure through the development fee program.

A Organization of the Fee Study

This Fee Study will be presented in the following seven sections:

- Section I contains an Executive Summary and provides a brief introduction to the Fee Study and includes an overview of the proposed DIFs.
- Section II is an Introduction that includes a brief description of City surroundings and background information on DIF funding.
- Section III provides an overview of the legal requirements for implementing and imposing the DIF amounts identified in the Fee Study and satisfies the nexus requirements for each facility included as part of this Fee Study. Included is a discussion of the findings and requirements necessary to be satisfied when establishing, increasing, or imposing a fee as a condition of new development.
- Section IV includes a discussion of land use characteristics and demand variables of projected new development such as the number of housing units and the number of non-residential building square feet, assuming current growth trends in residential and non-residential development projected through 2044.
- Section V contains a description of the methodology used to determine the Fees for Future Facilities and presents the fees for each of the land use types.

- Section VI presents the calculation of the Fees for each land use.
- Section VII presents a summary of the Fees.

This Fee Study also includes an appendix section presenting the calculations and other relevant material used to determine the findings presented in this Fee Study, as noted below:

- **Appendix A** includes the calculations used to determine the various Fee levels.
- **Appendix B** includes the Facilities Inventory and Needs List used to determine the various Fee levels.

B DIF Summary

Per the results of this Fee Study, the total fee amounts required to finance new development's share of Future Facilities are identified in **Table ES-1** below. Fees presented in this Fee Study represent the maximum DIFs that may be imposed by the City under the statutory requirements of Government Code Section 66000 *et. seq.* Residential fees are listed on a per-square-foot basis. Both Residential and non-residential fees are listed on a per-square-foot basis. Based on the findings in this Fee Study, the following recommendations are presented.

Table ES-1: DIF Summary

Land Use [1,2]	Public Facilities	Police	Fire	Library	Parks	Landscape Medians	Local Arterials	Active Trans. Plan	Traffic Signals	Sewer
Residential	$0.57	$0.55	$0.13	$0.04	$1.26	$0.07	$0.08	$0.22	$0.10	$0.36
Commercial	$0.42	$0.41	$0.10	$0.03	-	$0.39	$0.44	$1.17	$0.53	$0.18
Industrial	$0.12	$0.11	$0.03	$0.01	-	$0.13	$0.15	$0.39	$0.18	$0.12

Notes:

1. Residential fees are for single-family residences, multi-family residences, and mobile homes and are per square foot to comply with California AB 602.
2. Non-Residential fees are per 1,000 square feet.

The Storm Drain fees presented in **Table ES-2** below are calculated based on the amount of surface area on a property. Surfaces, such as buildings, driveways, patios, and parking lots, are hard surfaces that prevent rainwater from soaking into the ground, increasing stormwater runoff. This runoff needs to be managed to prevent flooding and protect water quality. In this analysis, storm drain fees are based on the number of acres.

Table ES-2: Proposed Storm Drain DIF Summary

Land Use Category	Fee per Impervious Acre
Residential	$77,138
Commercial/Retail	$122,136
Industrial	$102,851

The cost estimates for facilities used in this Fee Study are in 2025 dollars. Therefore, DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an annual inflationary adjustment based upon the California Construction Cost Index ("CCCI"). This construction cost index is based on the average of the Building Cost Index ("BCI") cost indices for Los Angeles, as produced by Engineering News-Record ("ENR").

II INTRODUCTION

Located in the County of San Bernardino, about 50 miles east of Los Angeles, the City of Fontana ("the City") and its Sphere of Influence ("SOI") encompasses an area of approximately 52 square miles and is currently home to an estimated population of over 214,000 people. It is considered a regional hub of the trucking industry, with the east–west Interstate 10 and State Route 210 crossing the city and Interstate 15 passing diagonally through its northwestern quadrant.

In order to adequately plan for new development and identify the public facilities and costs associated with mitigating the direct and cumulative impacts of new development, DTA Public Finance, Inc. ("DTA"), was retained by the City of Fontana, CA (the "City") to update the existing impact fee program by preparing a new Assembly Bill ("AB") 1600 fee justification study (the "Fee Study"). The previous fee justification study was completed in December 2019, and the current fees are based on its findings. The categories of Development Impact Fees ("DIFs" or "Fees") to be determined by this Fee Study include Public Facilities, Police, Fire, Library, Parks, Landscape Maintenance, Local Arterials, Active Transportation Plan, Traffic Signals, Sewer, and Storm Drain at levels identified by the various City departments as being necessary to meet the needs of new development. The purpose of this Fee Study will be to establish a nexus between the anticipated development and the City's public facilities needs through 2044.

This Fee Study is intended to comply with Section 66000 *et seq.* of the Government Code, which was enacted by the State of California in 1987, by identifying additional public facilities required by new development ("Future Facilities") and determining the level of fees that may be imposed to pay the costs of the Future Facilities. The Future Facilities and associated construction costs are identified in the Facilities Inventory and Needs List, which is included in **Appendix B** of the Fee Study. A description of the methodology used to calculate the fees is included in Section V. The purpose of this Fee Study is to ensure that all new development is required to pay its "fair share" of the cost of new infrastructure through the development fee program.

The purpose of this Fee Study is to ensure that all new development is required to pay its "fair share" of the cost of new infrastructure through the DIF program. The Fees generated in this Fee Study are one-time fees, typically paid prior to the issuance of a building permit, imposed on development projects by local agencies that regulate land use. These Fee amounts, to be determined, will be set at levels identified as necessary to meet the needs of new development through 2044.

Fees are calculated to fund the cost of facilities required to support new development. The steps followed in the Fee Study include:

1. **Demographic Assumptions**: Identify future growth that represents the increased demand for Future Facilities;

2. **Facility Needs and Costs**: Identify current facilities inventory to determine Level of Service ("LOS") requirements and determine the Future Facilities required to support new development and the costs of such facilities;
3. **Cost Allocation**: Allocate costs of Future Facilities on a per-equivalent-dwelling-unit or equivalent-benefit-unit basis; and
4. **Fee Schedule**: Calculate the Fee amount per square foot for residential development, and the Fee amounts per thousand square feet for non-residential development.

III LEGAL REQUIREMENTS TO JUSTIFY DEVELOPMENT IMPACT FEES

The City has identified the need to levy DIFs to pay for Public Facilities, Police, Fire, Library, Parks, Landscape Medians, Local Arterials, Active Transportation Plan, Traffic Signals, Sewer, and Storm Drain. The Fees will finance facilities on the Needs Lists at levels identified by the City as appropriate for new development. Upon the City Council's adoption of the Fee Study and the required legal documents, all new development will be required to pay its "fair share" of the cost of facilities on the Needs Lists through these Fees. The Fees are established pursuant to AB 1600, as described below.

Prior to World War II, development in California was held responsible for very little of the cost of public infrastructure. Public improvements were financed primarily through jurisdictional General Funds and utility charges. It was not uncommon during this period for speculators to subdivide tracts of land without providing any public improvements, expecting the closest city to eventually annex a project and provide public improvements and services.

However, starting in the late 1940s, the use of impact fees grew as planning and regulation of new development increased. During the 1960s and 1970s, the California Courts broadened the right of local governments to impose fees on developers for public improvements not located on project sites. More recently, with the passage of Proposition 13, limits on general revenues for new infrastructure have resulted in new development being held responsible for a greater share of public improvements, and both the use of impact fees and their levels have grown substantially. Higher fee levels were undoubtedly driven, in part, by the need to offset the decline in funding for infrastructure development from other sources.

The levy of impact fees is an authorized method of financing the public facilities necessary to mitigate the impacts of new development, as it provides funding to maintain an agency's existing LOS for an increased service population. A fee is "a monetary exaction, other than a tax or special assessment, which is charged by a local agency to the applicant in connection with approval of a development project for the purpose of defraying all or a portion of the cost of public facilities related to the development project..." (California Government Code, Section 66000). A fee may be levied for each type of capital improvement required for new development, with payment due prior to the start of construction of a dwelling unit or non-residential building (or prior to the expansion of existing buildings of these types). Fees are often levied at final map recordation, at the issuance of a Certificate of Occupancy, or, more commonly, at the issuance of a building permit.

AB 1600, which created Section 66000 *et. seq.* of the Government Code, was enacted by the State of California in 1987. This Fee Study is intended to meet the Nexus or Benefit Requirements of AB 1600, which mandates a nexus between the fees imposed, their use, and the development projects on which they are imposed.

A Government Code Section 66001

In 2006, Government Code Section 66001 was amended to clarify that a fee cannot include costs attributable to existing deficiencies but may fund costs to maintain the existing LOS or to meet an adopted LOS consistent with the General Plan. Section 66000 *et seq.* of the Government Code requires all public agencies to satisfy the following requirements when establishing, increasing, or imposing a fee as a condition of new development:

1. Identify the purpose of the fee [Government Code Section 66001(a)(1)];
2. Identify the use to which the fee will be put [Government Code Section 66001(a)(2)];
3. Determine that there is a reasonable relationship between the fee's use and the type of development on which the fee is to be imposed [Government Code Section 66001(a)(3)];
4. 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 to be imposed [Government Code Section 66001(a)(4)]; and
5. Discuss 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.

The sections below present each of the five requirements listed above as they relate to imposing the proposed fees.

A.1 Purpose of the Fee [Government Code Section 66001(A)(1)]

New residential and non-residential development within the City will generate additional residents and employees who will require additional public facilities. Land for these facilities will have to be acquired, and public facilities and equipment will have to be expanded, constructed, or purchased to meet this increased demand.

This Fee Study has been prepared in response to the projected direct and cumulative effects of future development. Each new development will contribute to the need for new public facilities. Without future development, many of the new public facilities on the Needs Lists would not be necessary, as the existing facilities are adequate for the City's present population. In instances where facilities would be built regardless of new development, the costs of such facilities have been allocated to new and existing development based on their respective level of benefit.

The proposed impact fee will be charged on all future development in the City, irrespective of location. Even future "infill" development projects contribute to impacts on public facilities because they are an integral part of a much larger network of development throughout the City. First, the property owners and/or the tenants associated with any new development in the City can be expected to place additional demands on City facilities funded by the fee. Second, these property owners and tenants are dependent on, and, in fact, may not have chosen to utilize,

their development, except for residential, retail, employment, and recreational opportunities located nearby on other existing and future developments. Third, the availability of residents, employees, and customers throughout the City has a growth-inducing impact, without which some of the "infill" development would not occur. As a result, all development projects in the City contribute to cumulative development impacts.

The impact fees will be used for the acquisition, installation, and construction of public facilities identified on the Needs Lists and appropriate administrative costs to mitigate the direct and cumulative impacts of new development in the City.

A.2 The Use to Which the Fee is to be Put [Government Code Section 66001(A)(2)]

The fee will be used for the acquisition, installation, and construction of the public facilities identified on the Needs Lists, included in Section IV of the Fee Study, and other appropriate costs to mitigate the direct and cumulative impacts of new development in the City. The fee will provide a source of revenue to the City to allow for the acquisition, installation, and construction of public facilities, which in turn will maintain the current standard of service, preserve the quality of life in the City, and protect the health, safety, and welfare of the existing and future residents, visitors, and employees.

A.3 Determine That There is a Reasonable Relationship Between the Fee's Use and the Type of Development Project Upon Which the Fee is Imposed (Benefit Relationship) [Government Code Section 66001(A)(3)]

The reasonable relationship findings required by Government Cose section 66001 are satisfied by category-specific demand metrics selected to reflect how different forms of development consume public facility capacity. Depending on the fee category, the Fee Study allocates costs based on building area, dwelling-unit characteristics, service population, hotel rooms, utility meter size, wastewater connection demand, traffic demand, impervious area, or other measures reasonably correlated with facility impacts, Although no single metric is appropriate for all public facility systems, each metric used in this Fee Study is intended to serve as a reasonable proxy for the burden the applicable type of development places on the corresponding facility category.

A.4 Determine How There is a Reasonable Relationship Between the Need for the Public Facility and the Type of Development Project Upon Which the Fee is Imposed (Impact Relationship) [Government Code Section 66001(A)(4)]

The reasonable relationship findings required by Government Code section 66001 are satisfied through category-specific demand metrics selected to reflect the manner in which different forms of development consume public Facility capacity.

Depending on the fee category, the Fee Study allocates costs based on building area, dwelling-unit characteristics, service population, hotel room, utility meter size, wastewater connection demand, traffic demand, impervious area, or other measures reasonably correlated with facility impacts, Although no single metric is appropriate for all public facility systems, each metric used in this Fee Study is intended to serve as a reasonable proxy for the burden the applicable type of development places on the corresponding facility category.

A.5 The Relationship Between the Amount of the Fee and the Cost of the Public Facilities Attributable to the Development Upon Which the Fee is Imposed ("Rough Proportionality" Relationship) [Government Code Section 66001(A)]

The reasonable relationship findings required by Government Code section 66001 are satisfied through category-specific demand metrics that reflect how different forms of development consume public facility capacity. Depending on the fee category, the Fee Study allocates costs based on building area, dwelling-unit characteristics, service population, hotel rooms, utility meter size, wastewater connection demand, traffic demand, impervious area, or other measures reasonably correlated with facility impacts. Although no single metric is appropriate for all public facility systems, each metric used in this Fee Study is intended to serve as a reasonable proxy for the burden the applicable type of development places on the corresponding facility category.

B AB 602

The impact fees included herein were circumscribed by the requirements of AB 602, which was approved by the California State Legislature and signed by Governor Newsom in 2021. Among the significant impacts of AB 602 are the following:

- On or after January 1, 2022, fee justification studies must identify the existing LOS for each public facility, identify the proposed new LOS, and (if the proposed new LOS is greater than the existing LOS) include an explanation of why the new LOS is necessary.
- For housing development projects, Nexus Studies adopted after July 1, 2022, must calculate the amount of fees based on the square footage of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate. The bill would require that a "local agency that calculated fees proportionally to the square footage of the proposed units be deemed to have used a valid method to establish a reasonable relationship between the fee charged and the burden posed by development." This would also apply to multi-family residences.
- The bill also requires the Department of Housing and Community Development ("HCD"), on or before January 1, 2024, to create an impact fee Nexus Study template

that may be used by local jurisdictions to calculate their fees. The bill requires the template to include a method to assess the feasibility of building housing at a specified fee level. The template must be completed by 2024. Local jurisdictions will have the option (it will not be required) to use the HCD template.

- The bill authorizes any member of the public, including an applicant for a development project, to submit evidence that the city, county, or other local agency had failed to comply with the Mitigation Fee Act. The bill requires the legislative body of the city, county, or other local agency to consider any timely-submitted evidence and to authorize the legislative body to change or adjust the proposed fee or fee increase, as specified.
- If a Nexus Study supports the increase of an existing fee, the local agency shall review the assumption of the Nexus Study supporting the original fee and evaluate the amount of the fees collected under the original fee.
- Large jurisdictions (county population greater than 250,000) and cities within those counties must adopt a Capital Improvement Plan ("CIP") as part of the Nexus Study.
- Nexus Studies shall be updated at least every 8 years from the period beginning January 1, 2023.

Importantly, AB 602 does not apply to (i) water and sewer connection and capacity charges, (ii) school fees, and (iii) Mello-Roos or other taxes. These other fees, taxes, and charges are subject to their own statutory accountability measures.

IV DEMOGRAPHICS

To determine the facilities needed to serve new development and establish fee amounts to fund such facilities, DTA has researched and reviewed material containing information on future land use development within the City through 2044. For the purposes of this Fee Study, DTA categorized developable residential land uses as single-family, multi-family, and mobile-home residences. Developable non-residential land uses within the City are categorized as commercial and industrial zones and are summarized in detail in the following section.

Elements from the City's 2015-2035 General Plan Update (the "General Plan"), numbers from the California Department of Finance, US Census, and total square footage generated by the CoStar Real Estate Software Platform ("CoStar") were used as estimates for the number of housing units and non-residential building square feet to be built within the City. The City's land use decisions will also affect properties within its sphere of influence ("SOI"). California law requires that a General Plan "cover the territory within the boundaries of an adopted City, as well as any land outside its boundaries which in the planning agency's judgment bears relation to its planning."

In addition, information from the General Plan and estimates produced by DTA were used to project the additional land uses resulting from new developments. Notably, DTA attempted to use metrics (e.g., average household size, square footage) to standardize existing demographics against the General Plan projections. Future residents and employees will create additional demand for facilities that existing public facilities cannot adequately service. To accommodate new development in an orderly manner while maintaining the current quality of life in the City, the facilities on the Inventory and Facility Needs List (presented throughout Section VI and in **Appendix B**), as reviewed and approved by City staff, must be constructed.

For facilities needed to mitigate demand from new development, facility costs have been allocated solely to new development. In those instances when it has been determined that the new facilities will serve both existing and new development, facility costs have been allocated based on proportionate benefit [see the Equivalent Dwelling Unit ("EDU") and Equivalent Benefit Unit ("EBU") discussion in Section V].

In addition, DTA has determined that utilizing a Persons Served population, comprised of all residents and 50% of employees, is common practice in quantifying the impact of a new development in a given service area, and this metric will be used in both residential and non-residential employee populations and calculations throughout this Fee Study.

Table 1 presents a summary of the land uses covered in this Fee Study. As previously indicated, the Fee Study will determine the Fees for three (3) specific land-use categories: residential, commercial, and industrial. Notably, the table below illustrates typical land uses in each category and is not a comprehensive list of all the City's potential land uses.

A Existing Residential Land Uses

Demographic data from the Nielsen Company (a leading information, measurement, and data analytics company), the California Department of Finance, and the US Census Bureau were used to estimate the existing number of housing units and the City's population. Notably, DTA attempted to use metrics (e.g., average household size, square footage) to standardize existing demographics with DTA's projections.

Table 1: Summary of Land Use Categories

Land Use Classification Fee Study	Definition
Residential	Includes single-family detached homes and single-family attached homes. Also includes buildings with attached residential units, including apartments, town homes, condominiums, mobile homes, and all other residential units not classified as Single-Family. For purposes of determining the impact fees due, any "second unit" or "accessory dwelling unit" (as determined pursuant to Section 65852.2 of the Government Code) shall be considered a separate residential unit and shall be subject to this fee.
Commercial	Includes but is not limited to buildings used for the following: ▪ Retail and commercial lodging; ▪ Service-oriented business activities, wineries/vineyards, and car washes; ▪ Department stores, discount stores, furniture/appliance outlets, home improvement centers; ▪ Shopping Centers; ▪ Entertainment centers; ▪ Assisted Living, houses of worship; ▪ Subregional and regional shopping centers; ▪ Hotel. Motels, spas, and resorts; and ▪ Grocery stores, storage facilities. ▪ Business/professional office; ▪ Medical/dental office; ▪ Office park, research park, business park; and ▪ General office buildings
Industrial	Includes but is not limited to buildings used for the following: ▪ Light manufacturing, warehouse/distribution, and logistics wholesaling; ▪ Wholesale and warehouse retail; ▪ Food processing; ▪ Industrial park; and ▪ Industrial/light industrial.

According to the California Department of Finance, the US Census Bureau, and the Nielsen Company, there are currently 214,223 residents in 58,993 single-family, multi-family, and mobile home housing units in the City. The residential persons-per-unit figure of 3.70 was also derived from 2025 data published by the California Department of Finance. Notably, the 3.63 residents-per-unit estimate for the City included units that are currently vacant. As a result, this figure is lower than the California Department of Finance's 3.63 residents-per-unit figure, which includes only occupied housing units. **Table 2**, presented below, summarizes the existing demographics for the City's residential land uses.

Table 2: Estimated Existing Residential Development [1]

Residential Land Use	Existing Residents	Existing Housing Units	Residents per Unit
Residential	214,223	58,993	3.63
Total	**214,223**	**58,993**	**3.63**

Note:

1. Numbers may not sum due to rounding.

B Existing Non-Residential Land Uses

The existing non-residential square footage was compiled and estimated using the CoStar Real Estate Software Platform. In addition, the employees per square foot for non-residential land uses was based on information published in Nielsen Company *Employment Profiles* by NAICS Codes 2025. The North American Industry Classification System (NAICS) is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. The number of non-residential building square footage presented below in **Table 3** is considered "existing non-residential development".

As reflected in **Table 3** below**,** the City has approximately 33,885,549 total square feet of existing non-residential development, including approximately 13,076,718 square feet of commercial development and 20,808,831 square feet of industrial development.

Per Nielsen Company's *Employment Profiles* (2025), the City has 81,745 employees in these non-residential sectors, specifically 45,590 commercial and 36,155 industrial employees. These numbers were based on existing employee and square footage data, yielding employees-per-thousand-square-foot factors ("EPSFs") of 2.75 for the commercial sector and 0.75 for the industrial sector. These EPSF numbers are presented in detail in **Appendix A**.

Table 3: Estimated Existing Non-Residential Development

Non-Residential Land Use	Existing Employees	Persons Served	Existing Building Square Footage
Commercial	45,590	22,795	13,882,988
Industrial	36,155	18,077	72,309,782
Total	**81,745**	**40,873**	**86,192,770**

C Future Residential Land Uses (2044)

Using population projections from the City's 2015-2035 General Plan updated in September 2022, DTA determined that the City is expected to grow by 20,462 residential units by the end of the 2044 build-out period in this Fee Study. The projected residential growth rates by the General Plan were used over the build-out period to generate the number of future housing units shown below. As indicated in **Table 4**, based on the assumed projected growth rates, DTA determined that the City is expected to add 20,462 residential units by the end of the 2044 build-out period.

Table 4: Projected Residential Development over Build-Out Period [1]

Residential Land Use	Future Residents	Future Housing Units	Residents per Unit
Residential	74,304	20,462	3.63
Total	**74,304**	**20,462**	**3.63**

Note:

1. Numbers may not sum due to rounding.

To comply with AB 602, DTA worked with the City staff to determine the average square footage for both single-family and multi-family residences. Using building permit information from 2018 to 2023, DTA calculated that the combined average residential square foot unit was 1,951 square feet across single-family and multi-family residences. Based on the anticipated total future residential development of 20,462, the total area amounts to 39,912,787 sq. ft., as shown in the table below.

Table 5: Future Residential Development Sq. Ft.

Category	Total
Total Residential Units	20,462
Average Sq. Ft. per Unit	1,951
Total Residential Sq. Ft.	**39,912,787**

D Future Non-Residential Land Uses (2044)

Using employment projections from the City's General Plan cited earlier, DTA determined that the City's non-residential sector is assumed to grow at an average annualized growth rate of 0.49%. Based on the EPSF derived above, this translates to approximately 27,492,779 square feet of non-residential development over the build-out period. This includes approximately 6,893,730 square feet of commercial and 20,599,049 square feet of industrial development.

Table 6: Projected Non-Residential Development over Build-Out Period

Non-Residential Land Use	Future Employees	Persons Served	Future Building Square Feet
Commercial	11,546	5,773	6,893,730
Industrial	33,527	16,763	20,599,049
Total	**45,072**	**22,536**	**27,492,779**

V METHODOLOGY USED TO CALCULATE FEES

There are several accepted methodologies for calculating fees, but they all rely on determining the cost of needed improvements and assigning those costs equitably across various types of development. In determining a reasonable nexus for each specific type of public facility, DTA utilized the methodologies described below, depending upon the data and information available from the City and its current infrastructure policies.

A Standards-Based Fee Methodology

The methodology for establishing the DIFs is based on the existing LOS. This Standards-Based Methodology establishes a generic unit cost for capacity, which is then applied to each land use in accordance with the existing LOS. The LOS is based on the existing number of applicable units, such as square feet of building space, acres of land, or residents per facility. This standard is not based on cost but rather on a standard of service. The Standards-Based Methodology ensures that City facilities are appropriately developed and sized so that future residents and employees do not reduce LOS by unduly burdening the infrastructure system, which could lead to decay and deterioration. This methodology provides several advantages, including not needing to know the cost of a specific facility, how much capacity or service the current system provides, or committing to a specific facility size. Although this methodology is not used to calculate the fees generated in this Fee Study, the description is provided to help the City understands the various methodologies available for calculating fees.

B Plan-Based Fee Methodology

The methodology used to establish the DIFs outlined in this Fee Study for Public Facilities, Police, Fire, Library, Parks, Storm Drain, Landscape Medians, Local Arterials, Active Transportation Plan, Traffic Signals, Sewer and Storm Drain is based on a "plan," such as a Master Plan of Facilities, Capital Improvement Plan, or General Plan, which identifies a finite set of improvements to be implemented. These Facility Plans generally identify a finite set of facilities needed by the public agency and are developed based on assessments of facility needs prepared by staff and/or outside consultants and adopted by the public agency's legislative body. Using this plan-based approach, specific costs can be projected and assigned to all planned land uses, often with a time horizon that reflects projected new development. Using population, units, and residential and non-residential square footage, it is possible to assign a cost allocation percentage for both new and existing development. In preparing an impact fee analysis, facility costs attributable to future development can be allocated to each land-use class in proportion to the demand generated by each development type.

C Capacity-Based Fee Methodology

Another method of fee assessment used is based on the "capacity" of a service or system, such as a water tank, a sewer plant, or a storm drain. This kind of fee is not dependent on a particular land use plan (i.e., amount or intensity) but rather is based on a rate or cost per unit of capacity that can be applied to any type of development, as long as the system has

adequate capacity. This fee is useful when the costs of the facility or system are unknown at the outset. However, it requires that the capacity used by a particular land-use type be measurable or estimable and that the information be available. Capacity-based impact fees are assessed based on the demand rate per unit. Although this methodology is not used to calculate any fees in this Fee Study, the description is provided so that the City understands the various methodologies available for calculating fees.

D Summary of Fee Methodology

In this Fee Study, the Plan-based methodology is used to generate the fees for Public Facilities, Police, Fire, Library, Parks and Recreation, Landscape Maintenance, Local Arterials, Active Transportation Plan, and Traffic Signals, Sewer, and Storm Drain. This is summarized in **Table 7** below.

Table 7: Fee Methodology (by Fee Category Type)

Fee Category	Methodology	Basis of Methodology
Public Facilities	Plan-Based	Needs List
Police		Needs List
Fire		Needs List
Library		Needs List
Parks and Recreation		Needs List
Landscape Medians		Needs List
Local Arterials		Needs List
Active Transportation		Needs List
Traffic Signals		Needs List
Sewer		Needs List
Storm Drain		Needs List

For Fee calculations using the Plan-Based approach, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). For the purposes of the City's DIF program, the Needs List is intended to be the official public document identifying the facilities eligible for financing, in whole or in part, through the imposition of a DIF on new development within the City. The Needs List is organized by facility element (or type) and includes cost information, as outlined in **Table 8** below.

Table 8: Description of Needs List Cost Sections

Column Title	Contents	Source
Total Cost for Facility	The total estimated facility cost, including engineering, design, construction, land acquisition, and equipment (as applicable).	City
Offsetting Revenues to New and Existing Development	Share of total offsetting revenues allocated to new and existing development.	City
Net Cost to City	The difference between the total cost and the offsetting revenues (column 1 plus column 2).	Calculated by DTA
Percent of Cost Allocated to New Development	Net cost is allocated to new development based on its share of facilities.	Calculated by DTA and the City
Net Cost Allocated to New Development	The net cost to the City is multiplied by the percentage cost allocated to new development.	Calculated by DTA
Policy Background or Objective	Identifies the policy source or rationale for facility need.	City General Plan, CIP, City Staff

The facilities included on the Needs List for each Fee (presented in **Appendix B**) are provided by the City and reflect either the City's goals of maintaining and improving a specific area, or they are part of a more formal policy document, such as a General Plan, Master Plan, Capital Improvement Plan, or other official policy or document, etc. Specific estimated facility costs are provided by the City and used as a basis for determining the allocation of revenues between new and existing development. DTA surveyed City staff and comparable developments to determine the required facilities to serve new development, as a starting point for its fee calculations.

E Allocation of Benefit

E.1 EDUs and EBUs

The methodologies employed in this Fee Study use EDUs and EBUs to identify and quantify the benefits of certain facilities and to ensure that an equitable portion of the total facilities costs is allocated to future growth, based on the proportion of need generated by that growth. Specifically, EDUs are generated in the demographic portion of this Fee Study and are used to generate the land use calculations. EDUs are a means of quantifying different land uses by their equivalence to a residential dwelling unit, with equivalence measured by the potential infrastructure use or benefit for each type of public facility. In this Fee Study, EDUs are used as the basis for allocating Public Facilities, Police, Fire, Library, Parks and Sewer. In contrast, for Landscape Medians, Local Arterial Streets, Active Transportation, Traffic Signals and Storm Drain, EBUs are used to allocate costs to future growth and to generate fees. This is explained further in this section and in detail in **Appendix A**.

Table 9: Basis of Allocation (by Fee Category Type)

Fee Category	Basis of Allocation of Benefit (EBU Factor)
Public Facilities	Persons Served
Police	Persons Served
Fire	Persons Served
Parks	Persons Served
Landscape Medians	Average Daily Trips ("ADTs")
Local Arterials	ADTs
Active Transportation	ADTs
Traffic Signals	ADTs
Sewer	Sewer Generation Rates (Gallons per Day)
Storm Drain	Stormwater Acres

E.2 Persons Served

For many of the facilities considered in this Fee Study, service population (or Persons Served) will be used to allocate benefits among fee categories. For the purposes of this Fee Study, the Persons Served calculations are based on the number of residents per dwelling unit (i.e., persons per household) and the number of employees per 1,000 sq. ft. generated by each land use class. Based on years of performing a variety of fiscal and economic impact studies and with experience in a variety of both public and private sectors, DTA has determined that utilizing a service population, or Persons Served population, comprised of all residents and 50% of employees, is a common fiscal practice in quantifying the impact of a new development in each service area. This number suggests that a resident generally has twice the fiscal impact of an employee.

E.3 ADTs

Landscape Medians, Local Arterial Streets, Active Transportation and Traffic Signal Fees were calculated for each of the three (3) land use categories based on the number of ADTs generated by each land use. ADTs are published by the Institute of Transportation Engineers ("ITE") Publication Trips Generation, 11th Edition. The ADT generation rates are per dwelling unit (for residential units), per 1,000 square feet of building area for each category of non-residential development, and per room for hotels. Per the ITE, a trip or trip end is a single, one-directional person or vehicle movement in which either the origin or the destination is entered or exited inside a study site. In technical terms, a trip has an origin and a destination at its respective ends (known as trip ends). Each trip end is part of a trip. For trip site generation, the focus is on the trips entering and exiting a single site. Specifically, ADTs are the total number of trips, both inbound and outbound, within a 24-hour weekday period, generated by a particular use or development.

E.4 Stormwater Runoff Coefficients

The methodology used to allocate drainage costs to future development is relative runoff contribution. Storm Drain Fees were calculated for each of the three (3) land use categories based on the runoff rates, measured in terms of the relative contribution of runoff (i.e., the EBU factor - see Section V) generated by each land use. Specifically, the reasonable relationship used to allocate storm drain costs between existing, converted use, and future development is relative runoff contribution. The Rational Method of computing runoff rates was used in the form of Q = C x I x A, where "Q" is equal to runoff volume, "C" is the ratio of area to total area studied, "I" is rainfall intensity, and "A" is Area, in acres of the Fee Study area. A runoff factor, "C" of 1.00, indicates a total site, where every drop of rain would find its way to the public streets as runoff. However, it can be shown that only the relative contribution of runoff needs to be considered when computing a unit of runoff (Q/A), where only the runoff factor and acreage are considered. This is the assumption used in this calculation.

Finally, a summary of the EDUs/EBUs applied in the Fee Study is presented in the table below.

Table 10: EDUs/EBUs

Facility Type	EBU/EDU	EBU/EDU	Existing	Projected	Total
Public Facilities	Persons Served	EDU	71,717	25,200	96,917
Police	Persons Served	EDU	71,717	25,200	96,917
Fire	Persons Served	EDU	71,717	25,200	96,917
Library	Persons Served	EDU	58,993	20,462	79,455
Parks	Persons Served	EDU	910,344	324,853	1,235,197
Landscape Medians	ADTs	EBU	910,344	324,853	1,235,197
Local Arterials	ADTs	EBU	910,344	324,853	1,235,197
Active Trans.	ADTs	EBU	71,979	25,200	96,917
Traffic Signals	ADTs	EBU	71,919	25,200	96,917
Sewer [1]	Sewer Generation Rates (Gallons per Day)	EBU	71,919	25,200	96,917
Storm Drain [1]	Stormwater Acres	EBU	58,993	20,462	79,455

Note:

1. Sewer usage rates per gallon and storm drains used runoff coefficients to determine fee calculations, so this methodology differs from the projected EDU/EBUs presented in the other categories.

The following sections present the reasonable relationship of benefit, impact, and proportionality tests for each fee element (i.e., Public Facilities, Police, Fire, Library Parks, Landscape Medians, Local Arterials, Active Transportation, Traffic Signal, Sewer, and Storm Drain) as well as the analysis undertaken to apportion costs for each type of facility. More detailed fee calculation worksheets for each facility type are included in **Appendix A**.

VI CALCULATION OF FEES

A Public Facilities

A.1 Public Facilities (Nexus Requirement AB 1600)

The Public Facilities element includes the facilities necessary to provide basic governmental services and public facilities maintenance services, exclusive of public safety, throughout the City. The fees collected from the new development will be used exclusively for Public Facilities purposes. All new development within the City contributes to the direct and cumulative impacts of development on Public Facilities and creates the need for new facilities to accommodate growth. Thus, a reasonable relationship exists between the need for public facilities and the impact of residential and non-residential development. **Table 11** below illustrates how the Public Facilities Fee will meet the requirements of AB 1600 regarding the use of the Fee, the types of development funded or partially funded by Fee revenue, the reasonable relationship to the need for the facilities, and the proportionality requirements. The proposed DIF discussed in this section, if adopted, would be imposed, collected, and spent on the acquisition of land, construction of new public buildings, and expansion of existing City facilities to accommodate new growth.

Table 11 below illustrates how the Public Facilities Fee will meet the requirements of AB 1600 regarding the use of the fee, the types of development funded or partially funded by fee revenue, the reasonable relationship to the need for facilities, and the proportionality requirements.

Table 11: Public Facilities Element

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct general facilities that will mitigate the impacts of new residential and non-residential development on the City's general public facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Construction and replacement of new city hall buildings, supporting general facilities, public works office, libraries, garage facilities, vehicles, equipment, and parking facilities.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential and non-residential development in the City will generate additional residents and employees, thus increasing the need for general facilities and services. The equipment, vehicles, buildings, and parking facilities used to provide these services will have to be expanded, constructed, or purchased to meet this increased demand and maintain the current LOS to the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional residents and employees from the new development will impact the demand for general administration facilities. New city hall buildings, supporting government administrative facilities, public works offices, libraries, garage facilities, vehicles, equipment, and parking facilities are needed to mitigate the impacts of additional residents and employees. If additional general facilities are not constructed, general services for City residents and employees will suffer.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	The general facilities fee is based on the cost of providing new city hall buildings, supporting government administration facilities, the public works office, libraries, garage facilities, equipment, vehicles, field operations buildings, and parking facilities. The fee is based on the cost of providing new materials at the same levels as provided to existing residents.

For Public Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 12** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 12: Public Facilities Costs

Public Facilities	Facility Cost
Corporate Yard Expansion (Three phases of expansion)	$30,000,000
Proposed Parking Structure (Omni Trans - 1,500 spaces)	$70,000,000
City Hall Construction (Phase II)	$10,000,000
Public Facilities Subtotal	**$110,000,000**
Offsetting Revenues	$1,915,624
Public Facilities Total	**$108,084,376**

A.1 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the Public Facilities calculation total, as any existing account balance or other offsetting funds must be subtracted from the cost total. Currently, $1,915,624 is in the Public Facilities account and must be subtracted as offsetting revenue.

A.2 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section looks at the LOS for Public facilities to ensure that there will be sufficient system-wide capacity to accommodate new development

The list of projects to be built by the City details the planned facilities necessary to provide required services to the City and outlines the criteria for designing a system to serve both existing and future development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

A.3 Calculation Methodology

The proposed Public Facilities projects are to meet the needs of both existing and future residents and employees. To determine the Public Facilities Fees, DTA calculated the EDUs through 2044 based on the anticipated residential and non-residential growth in the City. Total current EDUs across all land uses were 77,717, with 22,781 projected EDUs. These calculations are presented in detail in **Appendix A**.

The costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EDUs. As illustrated in **Table 13** below, 73.99% of the costs will be allocated to existing development, and 26.01% to new development. Based on this allocation between new and existing

development, $28,103,305 of the planned public facilities costs would be funded by the Fee imposed on new development. The remaining $79,981,071 must be funded through other sources to be determined by the City

Table 13: Public Facilities Cost Allocation Summary [1]

Development Type	EDUs	Percentage Allocated	Facility Cost Allocated
Existing Development	71,717	73.99%	$79,981,071
New Development	25,200	26.01%	$28,103,305
Total	**96,917**	**100.00%**	**$108,084,376**

Note:

1. Some figures may not sum due to rounding.

Table 14, presented below, summarizes the EDU, calculated as the cost of new development ($28,103,305) divided by the projected 25,200 EDUs. When accounting for the anticipated growth from new development, the cost per EDU totals $1,115 as shown in the table below. This cost was then applied to the various land uses and their respective total development to determine the proposed Fee.

Table 14: Public Facilities Cost per EDU [1]

Public Facilities Costs	Total
Cost Allocated to New Development	$28,103,305
Projected EDUs (New Development)	25,200
Cost per EDU	**$1,115**

Note:

1. Some figures may not sum due to rounding.

A.4 Public Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on the *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential Fee per Sq. Ft. was determined by multiplying the cost per EDU ($1,115) by the total number of residential EDUs (25,200), resulting in a total amount funded from residential property of $28,103,305. This result was then divided by the total projected residential square footage (39,912,787), yielding a per-square-foot fee of $0.57. Details of this calculation are shown in the table below.

Table 15: Residential Public Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per Unit	Number of Projected Units	Conversion Formula	Total EDUs
Residential	1.00	20,462		20,462
Total Residential		20,462	a	20,462
		Total cost per EDU	b	$1,115
		Total Fees	c = a * b	$22,819,869
		Total Residential Sq. Ft.	d	39,912,787
		Total cost per Residential Sq. Ft.	e = c/d	$0.57

Note:

1. Some figures may not sum due to rounding.

Similarly, the Non-Residential Fee per 1,000 sq. ft. was calculated by multiplying the per-EDU cost of $1,115 by the total number of non-residential EDUs applicable to each land use type. **Table 16**, shown below, summarizes the Fee amounts per 1,000 sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 16: Non-Residential Public Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per 1,000 Non-Res. Sq. Ft.	Fee per 1,000 Non-Res Sq. Ft.	Rooms/ Non-Res. Sq. Ft.	Costs Financed by Fees
	a	b = ax	c	[e] = ([c]/1,000) x [b]
Commercial	0.38	$422	6,893,730	$2,911,093
Industrial	0.10	$115	20,599,049	$2,373,343
			Total Costs	$5,283,436

A.5 Proposed Fees

A summary of the proposed Public Facilities Fee calculation is presented in **Table 17** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development under the statutory requirements of Government Code Section 66000 et *seq.*

Table 17: Public Facilities Costs Financed by Fee Summary per Land Use Category

Land Type	Residential/ Non-Residential Fee per 1,000 SF /Room	Number of Projected Res SF/Non-Res SF/Rooms	Costs Financed by Fees
Residential	$0.57	39,912,787	$22,819,869
Commercial Retail	$422	$6,893,730	$2,911,093
Industrial	$115	$20,599,049	$2,373,343
		Total	$28,103,305

City Public Facilities DIFs for both residential and non-residential development (using a per square foot metric) are summarized in **Table 18** below.

Table 18: Public Facilities DIF Summary (Maximum Supportable Fees)

Land Use	Fees
Residential (per Sq. Ft.)	$0.57
Commercial (per Sq. Ft.)	$0.42
Industrial (per Sq. Ft.)	$0.12

A.6 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

B Police

B.1 Police Facilities (Nexus Requirement AB 1600)

The Police Facilities element includes those facilities used by the City Police Department to maintain police services. The fees collected from the new development will be used exclusively for Police Department purposes. All new development within the City contributes to the direct and cumulative impacts of development on Police Department facilities and creates the need for new facilities to accommodate growth. The facilities, equipment, and vehicles used to provide these services will have to be purchased or replaced to meet this increased demand. Thus, a reasonable relationship exists between the need for Police Facilities and the impact of residential and non-residential development.

Table 19 below illustrates how the police fee will meet the requirements of AB 1600 regarding the use of the fee, the types of development funded or partially funded by fee revenue, the reasonable relationship to the need for facilities, and the proportionality requirements.

Table 19: Police Facilities Element

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to acquire vehicles, property, and equipment, and additional facilities that will mitigate the impacts of new residential and non-residential development on the City's Police facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Acquisition of additional police headquarters, police vehicles, property, and equipment.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential and non-residential development in the City will generate additional residents and employees, thus increasing the need for trained police personnel. Buildings, vehicles, property, and equipment used to provide these services will have to be purchased to meet this increased demand and maintain the same LOS as the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional residents and employees from the new development will impact on the demand for police vehicles, property, and equipment. New Police headquarters, vehicles, and equipment are needed to mitigate the impact of the additional residents and employees. If additional buildings, vehicles, and equipment are not acquired, then overall public safety in the City will suffer.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	The police fee is based on the cost of providing new buildings, vehicles, property, equipment, and additional facilities. The fee is based on the cost of providing new materials at the same levels as provided to existing residents.

For Police Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 20** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 20: Police Facilities Costs

Police Facilities	Facility Cost
Police Department - 12,000 sq ft. with furniture and fixtures ($3,300/sq ft)	$40,000,000
Police Department Secure Parking Structure	$40,000,000
Police Sub Station - North end of town, 2,000 sq ft	$5,000,000
Police Hangar for Helicopter storage	$6,000,000
Command Post 50 ft motor home, increase the size	$650,000
Police Black & White Vehicles - Fleet increase 1 vehicle per 3 officers (30 officers)	$1,000,000
Armored Vehicle	$400,000
Helicopter (need; the existing one doesn't work)	$5,000,000
Motorcycles ($45,000 each x 10)	$450,000
Police Substation (Metrolink)	$10,000,000
Police Facilities Subtotal	**$108,500,000**
Offsetting Revenues	$4,079,433
Police Facilities Total	**$104,420,567**

B.2 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the Police Facilities calculation total, as any existing account balance or other offsetting funds must be subtracted from the cost total. Currently, $4,079,433 is in the Police Facilities account and must be subtracted as offsetting revenue.

B.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section looks at the LOS for Police facilities to ensure that there will be sufficient system-wide capacity to accommodate new development

The list of projects to be built by the City details the planned facilities necessary to provide the required Police services and outlines the criteria for designing a system to serve both existing and future development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

B.4 Calculation Methodology

The proposed Police Facilities projects are to meet the needs of both existing and future residents and employees. To determine the Police Fees, DTA calculated the

EDUs through 2044 based on the anticipated residential and non-residential growth in the City. Total current EDUs across all land uses were 71,717, with 28,974 projected EDUs. These calculations are presented in detail in **Appendix A**.

The costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EDUs. As illustrated in **Table 21** below, 73.99% of the costs will be allocated to existing development, and 26.01% to new development. Based on this allocation between new and existing development, $27,150,668 of the planned Police facilities costs would be funded by the Fee imposed on new development. The remaining $77,269,899 must be funded through other sources to be determined by the City

Table 21: Police Cost Allocation Summary [1]

Development Type	EDUs [2]	Percentage Allocated	Facility Cost Allocated
Existing Development	71,717	73.99%	$77,269,899
New Development	25,200	26.01%	$27,150,668
Total	**96,917**	**100.00%**	**$104,420,567**

Note:

1. Some figures may not sum due to rounding.

Table 22, presented below, summarizes the EDU, calculated as the cost of new development ($27,150,668) divided by the projected 25,200 EDUs. When accounting for anticipated growth from new development, the cost per EDU is $1,077, as shown in the table below. This cost was then applied to the various land uses and their respective total development to determine the proposed Fee.

Table 22: Police Cost per EDU [1]

Proposed Police Facilities Costs	Total
Cost Allocated to New Development	$27,150,668
Projected EDUs (New Development)	25,200
Cost per EDU	**$1,077**

Note:

1. Some figures may not sum due to rounding.

B.5 Police Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on the *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential Fee per Sq. Ft. was determined by multiplying the cost per EDU

($1,077) by the total number of residential EDUs (20,462), resulting in a total amount funded from residential property of $22,046,328. This result was then divided by the total projected residential square footage (39,912,787), yielding a per-square-foot fee of $0.55. Details of this calculation are shown in the table below.

Table 23: Police Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per Unit	Number of Projected Units	Conversion Formula	Total EDUs
Residential	1.00	20,462		**20,462**
Total Residential		20,462	**a**	**20,462**
		Total cost per EDU	**b**	**$1,077**
		Total Fees	**c = a * b**	$22,046,328
		Total Residential Sq. Ft.	**d**	39,912,787
		Total cost per Residential Sq. Ft.	**e = c/d**	**$0.55**

Note:

1. Some figures may not sum due to rounding.

Similarly, the Non-Residential Fee per 1,000 sq. ft. was calculated by multiplying the per-EDU cost of $1,077 by the total number of non-residential EDUs applicable to each land use type. **Table 24**, shown below, summarizes the Fee amounts per 1,000 sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 24: Non-Residential Police Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per 1,000 Non-Res. Sq. Ft.	Fee per 1,000 Non-Res Sq. Ft.	Rooms/ Non-Res. Sq. Ft.	Costs Financed by Fees
	a	b = ax	c	[e] = ([c]/1,000) x [b]
Commercial	0.38	$408	6,893,730	$2,812,414
Industrial	0.10	$107	20,599,049	$2,291,926
			Total Costs	**$5,104,340**

B.6 Proposed Fees

A summary of the proposed Public Facilities Fee calculation is presented in **Table 25** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development, subject to the statutory requirements of Government Code Section 66000 et *seq.*

Table 25: Police Facilities Costs Financed by Fee Summary per Land Use Category

Land Type	Residential/Non-Residential Fee per 1,000 SF /Room	Number of Projected Res SF/Non-Res SF/Rooms	Costs Financed by Fees
Residential	$0.55	39,912,787	$22,046,328
Commercial Retail	$408	6,893,730	$2,812,414
Industrial	$111	20,599,049	$2,291,926

Total	**$27,150,668**

City Police Facilities DIFs for both residential and non-residential development (using a per square foot metric) are summarized in **Table 26** below.

Table 26: Police DIF Summary (Maximum Supportable Fees)

Land Use	Fees
Residential (per Sq. Ft.)	$0.55
Commercial (per Sq. Ft.)	$0.41
Industrial (per Sq. Ft.)	$0.11

B.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

C Fire DIFs

C.1 Fire Facilities (Nexus Requirement AB 1600)

The Fire Facilities element includes those facilities used by the City to maintain Fire services. The Fees collected from new development will be used exclusively for Fire Department purposes. All new development within the City contributes to the direct and cumulative impacts of development on Fire Department facilities and creates the need for new facilities to accommodate growth. The facilities, equipment, and vehicles used to provide these services will have to be purchased or replaced to meet this increased demand. Thus, a reasonable relationship exists between the need for Fire Facilities and the impact of residential and non-residential development.

Table 27 below illustrates how the fire fee will meet the requirements of AB 1600 regarding the use of the Fee, the types of development funded or partially funded by Fee revenue, the reasonable relationship to the need for facilities, and the proportionality requirements.

Table 27: Fire Facilities

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct, expand, or enhance fire facilities, acquire equipment, property, and a variety of specialized fire and emergency vehicles that will mitigate the impacts of new residential and non-residential development on the City's Fire facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Expansion/construction/acquisition of fire facilities, purchase of property and equipment, and vehicles.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential and non-residential development in the City will generate additional residents and employees, thus increasing the need for trained fire personnel. Buildings will need to be expanded or enhanced, and property, equipment, and vehicles used to provide these services will have to be purchased to meet this increased demand and maintain the current LOS to the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional residents and employees from the new development will impact demand for fire facilities. New, expanded, or enhanced fire facilities, along with additional vehicles and equipment, would be needed to mitigate the impact of the increased number of residents and employees. If fire facilities are not constructed, expanded, or enhanced, and equipment and vehicles are not acquired, then the overall LOS of public safety in the City would suffer.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	The Fire Fee is based on the cost of expanding or enhancing facilities and purchasing property, equipment, and vehicles at the same levels provided to existing residents.

For Fire Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 28** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 28: Fire Facilities Costs

Fire Facilities	Facility Cost
Station 77 Expansion to the neighboring lot, including apparatus bays and dorm rooms.	$5,000,000
Construction of the Phase 2 station 80 fire station, once development begins in the Westgate Specific Plan area	$15,000,000
Two High-End Ladder Fire Trucks $2 mil each, total $4 mil	$4,000,000
Purchase a Firecat Swat Vehicle for firefighting	$1,000,000
Fire Facilities Subtotal	**$25,000,000**
Offsetting Revenues	**$0**
Fire Facilities Total	**$25,000,000**

C.2 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the Fire Facilities calculation total, as any existing account balance or other offsetting funds must be subtracted from the cost total. Currently, there is no balance in the current Fire Facilities account that must be subtracted as offsetting revenue.

C.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section looks at the LOS for Fire facilities to ensure that there will be sufficient system-wide capacity to accommodate new development

The list of projects to be built by the City details the planned facilities necessary to provide required services to the City and outlines the criteria for designing a system to serve both existing and future development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as those required to serve both new and existing development, and therefore any increase in LOS beyond the current LOS would be necessary to meet the plan approved by the City.

C.4 Calculation Methodology

The proposed Fire Department Facilities projects are to meet the needs of both existing and future residents and employees. To determine the Fire Fees, DTA calculated the EDUs through 2044 based on the anticipated residential and non-residential growth in the City. Total current EDUs across all land uses were 71,717, with 25,200 projected EDUs. These calculations are presented in detail in **Appendix A**.

The costs of these facilities have been allocated between existing and new

development based on their respective percentages of build-out EDUs. As illustrated in **Table 29** below, 73.99% of the costs will be allocated to existing development, and 26.01% to new development. Based on this allocation between new and existing development, $7,193,738 of the planned Fire facilities costs would be funded by the Fee imposed on new development. The remaining $18,499,684 must be funded through other sources to be determined by the City

Table 29: Fire Cost Allocation Summary [1]

Development Type	EDUs [2]	Percentage Allocated	Facility Cost Allocated
Existing Development	71,717	73.99%	$18,499,684
New Development	25,200	26.01%	$6,500,316
Total	**96,917**	**100.00%**	**$25,000,000**

Note:

1. Some figures may not sum due to rounding.

Table 30, presented below, summarizes the EDU, calculated as the cost of new development ($6,500,316) divided by the projected 25,200 EDUs. When accounting for the anticipated growth from new development, the cost per EDU totals $258 as shown in the table below. This cost was then applied to the various land uses and their respective total development to determine the proposed Fee.

Table 30: Fire Cost per EDU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$6,500,316
Projected EDUs (New Development)	25,200
Cost per EDU	**$258**

Note:

1. Some figures may not sum due to rounding.

C.5 Fire Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on the *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential Fee per Sq. Ft. was determined by multiplying the cost per EDU ($258) by the total number of residential EDUs (20,462), resulting in a total amount funded from residential property of $5,727,253. This result was then divided by the total projected residential square footage (39,912,787), yielding a per-square-foot fee of $0.13. Details of this calculation are shown in the table below.

Table 31: Fire Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per Unit	Number of Projected Units	Conversion Formula	Total EDUs
Residential	1.00	20,462		20,462
Total Residential		20,462	a	20,462
Total cost per EDU			b	$258
Total Fees			c = a * b	$5,278,253
Total Residential Sq. Ft.			d	39,912,787
Total cost per Residential Sq. Ft.			e = c/d	$0.13

Note:

1. Some figures may not sum due to rounding.

Similarly, the Non-Residential Fee per 1,000 sq. ft. was calculated by multiplying the per-EDU cost of $258 by the total number of non-residential EDUs applicable to each land use type. **Table 32**, shown below, summarizes the Fee amounts per 1,000 sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 32: Non-Residential Fire Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per 1,000 Non-Res. Sq. Ft.	Fee per 1,000 Non-Res Sq. Ft.	Rooms/ Non-Res. Sq. Ft.	Costs Financed by Fees
	a	b = ax	c	[e] = ([c]/1,000) x [b]
Commercial	0.38	$98	6,893,730	$673,338
Industrial	0.10	$27	20,599,049	$548,725
			Total Costs	$1,222,063

C.6 Proposed Fees

A summary of the proposed Fire Facilities Fee calculation is presented in **Table 33** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development under the statutory requirements of Government Code Section 66000 et *seq.*

Table 33: Fire Facilities Costs Financed by Fee Summary per Land Use Category

Land Type	Residential/Non-Residential Fee per 1,000 SF /Room	Number of Projected Res SF/Non-Res SF/Rooms	Costs Financed by Fees
Residential	$0.13	39,912,787	$5,278,253
Commercial Retail	$98	6,893,730	$673,338
Industrial	$27	20,599,049	$548,725
		Total	$6,500,316

City Fire Facilities DIFs for both residential and non-residential development (using a per square foot metric) are summarized in **Table 34** below

Table 34: Fire DIF Summary (Maximum Supportable Fees)

Land Use	Fees
Residential (per Sq. Ft.)	$0.13
Commercial (per Sq. Ft.)	$0.10
Industrial (per Sq. Ft.)	$0.03

C.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

D Library DIFs

D.1 Library Facilities (Nexus Requirement AB 1600)

The Library Facilities element includes facilities used by the City Library Department to maintain Library services, such as facility modernization, infrastructure upgrades, and building system improvements necessary to sustain the City's adopted library service levels as the community grows. Costs allocated to new development are limited to the proportion attributable to growth and increased demand generated by future residents and businesses. The fees collected from the new development will be used exclusively for Library Department purposes. All new development within the City contributes to the direct and cumulative impacts of development on Library Department facilities and creates the need for new facilities to accommodate growth. The facilities in this section are defined as buildings, land, vehicles, property, and equipment; basically, any capital asset with a life of 5 years or longer. The proposed DIF discussed in this section, if adopted, would be imposed, collected, and spent on the acquisition of land, construction, and expansion of existing City facilities to accommodate new growth. The fees collected from the new development will be used exclusively for Library Department purposes. All new development within the City contributes to the direct and cumulative impacts of development on Library facilities and creates the need for new facilities to accommodate growth. The Library element includes the facilities necessary to provide basic Library services and facilities services throughout the City.

Table 35 below illustrates how the Library Fee will meet the requirements of AB 1600 regarding the use of fees, the type of development on which the Fee is imposed, a reasonable relationship to the need for collection items, and proportionality requirements.

Table 35: Library Facilities

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to acquire/construct new library facilities and buildings, remodel/refurbish existing facilities and buildings, vehicles, property, and equipment, and acquire various library collection items that will mitigate the impacts of new residential development on the City's Library facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Construction/expansion of new library facilities, remodel/refurbishment of existing facilities, and the purchase of vehicles and equipment
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential development in the City will generate additional residents who will become library patrons. In addition to equipment, property, and vehicles, new facilities will need to be acquired/constructed; existing facilities will need to be remodeled/refurbished or expanded; and collections will have to be expanded to meet this increased demand. Fees collected from new residential development will be used for the acquisition/construction of new facilities, the remodeling or refurbishment of existing facilities, and the purchase of vehicles and equipment to maintain the City's current LOS.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional residents from the new development will affect demand for library space and library collections. New facility space will need to be expanded or acquired/constructed, and existing facility space will need to be remodeled/refurbished. If additional facilities are not acquired/constructed, and vehicles and equipment are not purchased, then the overall LOS in the City would suffer.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	The library fee is based on the cost to provide new facilities, property, equipment, and vehicles. The fee is based on the cost of providing new materials at the same levels as provided to existing residents.

For Library Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 36** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 36: Library Facilities Costs

Library Facilities	Facility Cost
Library Facility Modernization and Expansion	$1,004,936
Facility Improvements and Reconfiguration	$797,568
Site Circulation	$103,684
Technology, Infrastructure, and Building enhancements	$7,178,112
Growth-servicing library facilities	$311,052
Library Facilities Subtotal	**$9,395,351**
Offsetting Revenues	$1,464,571
Library Facilities Total	**$7,930,780**

D.2 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the Fire Facilities calculation total, as any existing account balance or other offsetting funds must be subtracted from the cost total. Currently, $1,464,571 is in the Library Facilities account and must be subtracted as offsetting revenue.

D.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section looks at the LOS for Library facilities to ensure that there will be sufficient system-wide capacity to accommodate new development

The list of projects to be built by the City details the planned facilities necessary to provide required services to the City and outlines the criteria for designing a system to serve both existing and future development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

D.4 Calculation Methodology

The proposed Library Facilities projects are to meet the needs of both existing and future residents and employees. To determine the Library Fees, DTA calculated the EDUs through 2044 based on the anticipated residential and non-residential growth in the City. Total current EDUs across all land uses were 71,717, with 25,200 projected EDUs. These calculations are presented in detail in **Appendix A**.

The costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EDUs. As illustrated in **Table 37** below, 73.99% of the costs will be allocated to existing development, and 26.01% to new development. Based on this allocation between new and existing development, $2,062,103 of the planned Library facilities costs would be funded by the Fee imposed on new development. The remaining $5,868,677 must be funded through other sources to be determined by the City

Table 37: Library Cost Allocation Summary [1]

Development Type	EDUs [2]	Percentage Allocated	Facility Cost Allocated
Existing Development	71,717	73.99%	$5,868,677
New Development	25,200	26.01%	$2,062,103
Total	**96,917**	**100.00%**	**$7,930,780**

Note:

1. Some figures may not sum due to rounding.

Table 38, presented below, summarizes the EDU, calculated as the cost of new development ($2,062,103) divided by the projected 25,200 EDUs. When accounting for anticipated growth from new development, the cost per EDU is $82, as shown in the table below. This cost was then applied to the various land uses and their respective total development to determine the proposed Fee.

Table 38: Library Cost per EDU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$2,062,103
Projected EDUs (New Development)	25,200
Cost per EDU	**$82**

Note:

1. Some figures may not sum due to rounding.

D.5 Library Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on the *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential Fee per Sq. The ft. was determined by multiplying the cost per EDU ($82) by the total number of residential EDUs (20,462), resulting in a total amount funded from residential property of $1,674,427. This result was then divided by the total projected residential square footage (39,912,787), yielding a per-square-foot fee of $0.04. Details of this calculation are shown in the table below.

Table 39: Library Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per Unit	Number of Projected Units	Conversion Formula	Total EDUs
Residential	1.00	20,462		20,462
Total Residential		20,462	a	20,462
		Total cost per EDU	b	$82
		Total Fees	c = a * b	$1,674,427
		Total Residential Sq. Ft.	d	39,912,787
		Total cost per Residential Sq. Ft.	e = c/d	$0.04

Note:

1. Some figures may not sum due to rounding.

Similarly, the Non-Residential Fee per 1,000 sq. ft. was calculated by multiplying the EDU cost of $82 by the total number of non-residential EDUs applicable to each land use type. **Table 40**, shown below, summarizes the Fee amounts per 1,000 sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 40: Non-Residential Library Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per 1,000 Non-Res. Sq. Ft.	Fee per 1,000 Non-Res Sq. Ft.	Rooms/Non-Res. Sq. Ft.	Costs Financed by Fees
	a	b = ax	c	[e] = ([c]/1,000) x [b]
Commercial	0.38	$31	6,893,730	$213,604
Industrial	0.10	$8	20,599,049	$174,073
			Total Costs	$387,676

D.6 Proposed Fees

A summary of the proposed Fire Facilities Fee calculation is presented in **Table 41** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development, subject to the statutory requirements of Government Code Section 66000 et *seq.*

Table 41: Library Facilities Costs Financed by Fee Summary per Land Use Category

Land Type	Residential/Non-Residential Fee per 1,000 SF /Room	Number of Projected Res SF/Non-Res SF/Rooms	Costs Financed by Fees
Residential	$0.04	39,912,787	$1,674,427
Commercial Retail	$31	$6,893,730	$213,604
Industrial	$8	$20,599,049	$174,073
		Total	$2,062,103

City Library Facilities DIFs for both residential and non-residential development (using a per-square-foot metric) are summarized in **Table 42** below.

Table 42: Library DIF Summary (Maximum Supportable Fees)

Land Use	Fees
Residential (per Sq. Ft.)	$0.04
Commercial (per Sq. Ft.)	$0.03
Industrial (per Sq. Ft.)	$0.01

D.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

E Parks and Recreation DIFs

E.1 Parks and Recreation Development Facilities Fees (Nexus Requirement AB 1600)

The Parks Development Facilities element will serve Fontana residents by providing recreational facilities while enhancing the community's appeal and quality of life. The facilities described in this section include Neighborhood Parks and Community Parks. The Fee Study includes a component for the development of new park facilities to serve the City's new residential development through 2044. This fee section covers park improvements, land acquisition, and parks and recreation renovation. In contrast to the fees covered earlier in this Fee Study, non-residential development will be excluded from the fee calculation.

According to the City's General Plan, in addition to improving the overall quality of life for residents, excellent park programs are important for the well-being of a city's business community. Not only do parks make the community more attractive to residents (providing a stronger market base for local businesses), but they can also directly influence a city's fiscal base by attracting commercial and industrial businesses.

Table 43 below illustrates how the Parks Fee will meet the requirements of AB 1600 regarding the use of the Fee, the types of development funded or partially funded by Fee revenue, the reasonable relationship to the need for facilities, and the proportionality requirements.

Table 43: Parks and Recreation Facilities

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to acquire land and construct parks and recreation facilities, senior centers, trail facilities, vehicles, and equipment that will mitigate the impacts of new residential development on the City's Parks and recreation facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Acquisition of land and development of parks and recreation facilities, the construction of senior centers, vehicles, and equipment.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential development in the City will generate additional residents, thereby increasing the need for parks and recreational facilities. Park and recreational facilities and community centers, along with vehicles and equipment used to provide these services, will have to be expanded or constructed to meet this increased demand and maintain the same LOS to the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional residents from the new development will impact demand for parks and recreational facilities. New parks, recreational facilities, and senior centers are needed to mitigate the impact of the additional residents. If additional park and recreation facilities are not constructed, the LOS will decline, and the overall quality of life for City residents will suffer.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	The parks and recreation facilities fee is based on the cost of providing park and recreation facilities, land, vehicles, equipment, and community centers. The fee is based on the cost of providing new materials at the same levels as those provided to existing residents.

For Park Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 44** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 44: Parks and Recreation Facilities Costs

Parks Facilities	Facility Cost
New South Fontana Community Center (Don Day)	$35,000,000
Park Improvements	$35,000,000
Recreational Trails	$35,000,000
Sports Park	$30,000,000
New Community Center in the Core of the City (Miller)	$30,000,000
Action Park	$7,500,000
Security Camera Upgrades	$6,500,000
Action Park – Martin Tudor	10,000,000
Miller Amphitheater	$15,000,000
Parks Facilities Subtotal	**$204,000,000**
Offsetting Revenues	$9,323,185
Parks Facilities Total	**$194,676,815**

E.2 Offsetting Revenues

When calculating DIFs, it is important to consider any offsetting revenue in the total for the Fire Facilities calculation, as any existing account balance or other offsetting funds must be subtracted from the cost total. Currently, $9,323,185 is in the Parks Facilities account and must be subtracted as offsetting revenue.

E.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section looks at the LOS for Parks and Recreation facilities to ensure that there will be sufficient system-wide capacity to accommodate new development

The list of Parks projects to be built by the City details the planned facilities necessary to provide the required services to the City and outlines the criteria used to design a system that serves both existing and future development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as those required to serve both new and existing development, and therefore any increase in LOS beyond the current LOS would be necessary to meet the plan approved by the City.

E.4 Calculation Methodology

The proposed Park Facilities projects are to meet the needs of both existing and future residents. To determine the Parks Fees, DTA calculated the EDUs through 2044 based on the anticipated residential and non-residential growth in the City.

Total current EDUs for all land uses were determined to be 58,993, with 20,462 projected EDUs. These calculations are presented in detail in **Appendix A**.

The costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EDUs. As illustrated in **Table 45** below, 74.25% of the costs will be allocated to existing development, and 25.75% to new development. Based on this allocation between new and existing development, $50,135,039 of the planned Park facilities costs would be funded by the Fee imposed on new development. The remaining $144,541,776 must be funded through other sources to be determined by the City

Table 45: Parks and Recreation Cost Allocation Summary [1]

Development Type	EDUs [2]	Percentage Allocated	Facility Cost Allocated
Existing Development	58,993	74.25%	$144,541,776
New Development	20,462	25.75%	$50,135,039
Total	79,455	100.00%	**$194,676,815**

Note:

1. Some figures may not sum due to rounding.

Table 46, presented below, summarizes the EDU, calculated as the cost of new development ($50,135,039) divided by the projected 20,462 EDUs. When accounting for the anticipated growth from new development, the cost per EDU totals $2,450 as shown in the table below. This cost was then applied to the various land uses and their respective total development to determine the proposed Fee.

Table 46: Parks and Recreation Cost per EDU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$50,135,039
Projected EDUs (New Development)	20,462
Cost per EDU	**$2,450**

Note:

1. Some figures may not sum due to rounding.

E.5 Park and Recreation Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on the *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential Fee per sq. ft. was determined by first multiplying the cost per EDU of $2,450 by the total number of residential EDUs (20,462), resulting in a total amount funded from residential property of $50,135,039. This result was then divided by the total projected residential square footage (39,912,787) to yield a fee per square foot of $1.26. Details of this calculation are shown in the table below.

Table 47: Parks and Recreation Facilities Costs Financed by Fees Summary [1]

Land Type	EDUs per Unit	Number of Projected Units	Conversion Formula	Total EDUs
Residential	1.00	20,462		**20,462**
Total Residential		20,462	**a**	**20,462**
		Total cost per EDU	**b**	**$2,450**
		Total Fees	**c = a * b**	$50,135,039
		Total Residential Sq. Ft.	**d**	39,912,787
		Total cost per Residential Sq. Ft.	**e = c/d**	**$1.26**

Note:

1. Some figures may not sum due to rounding.

E.6 Proposed Fees

A summary of the proposed Fire Facilities Fee calculation is presented in **Table 48** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development under the statutory requirements of Government Code Section 66000 et *seq*.

Table 48: Parks and Recreation DIF Summary (Maximum Supportable Fees)

Land Use	Fees
Residential (per Sq. Ft.)	$1.26

E.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

F Landscape Medians

F.1 Landscape Medians Facilities (Nexus Requirement AB 1600)

The City's goal is to improve the streets on a prioritized list over the build-out horizon. Improvements for each street will focus on Landscape Medians. This additional infrastructure support is necessary to provide safe and efficient vehicular access throughout the City. The proposed DIF is to help meet the transportation demand of new development through 2044. The City identified the need for the landscape median infrastructure and equipment, as described in **Table 49** below.

The DIF will provide the City with revenue to fund the acquisition, installation, and construction of necessary transportation facilities, which, in turn, will both preserve the quality of life in the City and protect the health, safety, and welfare of existing and future residents and employees.

The table below illustrates how the transportation fee will meet the requirements of AB 1600 regarding use of fees, type of development funded or partially funded by the Fee revenue, reasonable relationship to the need for facilities, and proportionality requirements

Table 49: Landscape Medians Facilities Nexus Requirement

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct various Landscape Median projects and other infrastructure that will mitigate the impacts of new development on the City's transportation system.
66001(a)(2)	Identify the use to which the Fee is to be put.	Fund or partially fund the construction of landscape medians and other infrastructure projects within the City limits.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the fee is imposed.	New residential and non-residential development will generate additional traffic on City streets. The Fee revenue will be used to construct new landscape median projects that new residents and employees will travel on. A Fee imposed on new residential and non-residential development is a reasonable method for mitigating the impacts of such development and any resulting increase in LOS above and beyond the current LOS required to meet the plan approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional traffic volumes generated by the new development will affect current congestion levels. New landscape medians and other infrastructure are needed to mitigate the impacts of the increased traffic volumes. If the proposed projects are not constructed in concert with new development, the City's transportation system will experience higher traffic volumes, increasing congestion to a level well below City standards.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	Project costs are allocated to new development based on the percentage of total traffic volume at build-out generated by new development. The specific fee imposed on various land uses is based on the relative trip-generation rate compared with a residential unit (the baseline rate, or EDU factor).

Identification of the facilities to be financed is a critical component of any DIF program. In the broadest sense, the purpose of impact fees is to protect public health, safety, and general welfare by providing adequate public facilities. Notably, for Landscape Median Facilities, the City provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List.

Table 50 below summarizes the Landscape Median Needs List. The facilities presented below are based on estimates provided by the City.

Table 50: Landscape Median Facilities Costs

Landscape Median Facilities	Facility Cost
S Highland Ave - 600' Past Citrus to Auto Center Drive Heading East: Construct Raised Landscape Median	$2,400,000
Valley Blvd. from Bananah Ave. to Cherry Ave.	$1,500,000
Mulberry Ave. from Santa Ana Ave. to Slover Ave.	$1,500,000
Arrow Blvd. from Citrus Ave. to Jurupa Ave.	$2,400,000
Arrow Blvd. from Palmetto Ave. to Alder Ave.	$1,500,000
Slover Ave. from Jasmine St to Sierra Ave	$14,889,600
Beech Ave. from Slover to Jurupa Ave.	$3,168,000
Beech Ave. from Baseline Ave. to Miller Ave.	$1,500,000
Beech Ave. from PE Trail to Foothill Blvd	$630,000
Sierra Lakes from San Sevaine to Beach	$1,560,000
Sierra Lakes from Lytle Creek to Catawba	$1,560,000
Transportation Facilities Subtotal	$32,607,600
Offsetting Revenue	$848,043
Total	**$31,759,557**

F.2 Offsetting Revenues

According to City Staff, offsetting revenues need to be considered in total for the Landscape Medians Facilities calculation. As of the end of September 2025, the City had $848,043 in its current Landscape Medians Facilities account that needed to be subtracted from the total facilities cost, as indicated in **Table 50** above.

F.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary.

LOS for streets and intersections is commonly defined in terms of LOS (LOS) categories A through F as defined in the Highway Capacity Manual published by the Transportation Research Board. LOS is a qualitative description of traffic flow based on several factors, including speed, travel time, delay, and freedom to maneuver. Six levels of LOS are typically defined, ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represented operations at or near capacity, an unstable level where vehicles operate with the minimum spacing required to maintain uniform flow.

The City's Landscape Medians facilities built to date are consistent with the existing

LOS required by the City to meet the population's needs. The list of projects to be built by the City (presented in detail in Appendix B of this Fee Study) outlines the planned facilities necessary to provide required services to the City and the criteria used to design a system to serve both existing and future development. The portion of the fee associated with existing transportation facilities reflects the current LOS that would be applied to new development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

F.4 Calculation Methodology

Landscape Median Fees were calculated for each of the three (3) land use categories based on the number of ADTs. ADTs are published by the ITE Trip Generation Manual, 11th Edition. The ADT generation rates are per dwelling unit (for residential units), per 1,000 square feet of building area for each category of non-residential development, and per room for hotels. Per the ITE, a trip or trip end is a single, one-directional movement of a person or vehicle in which either the origin or the destination is at or enters a study site. In technical terms, a trip has an origin and a destination at its respective ends (known as trip ends). Each trip end is part of a trip. For trip site generation, the focus is on the trips entering and exiting a single site. Specifically, ADTs are the total number of trips, both inbound and outbound, within a 24-hour weekday period, generated by a particular use or development.

All proposed Landscape Medians facilities were sized to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 51** below, 73.70% of the costs will be allocated to existing development, and 26.30% to new development. Based on this allocation between new and existing development, $8,352,665 of the $31,759,557 in Landscape Medians facilities costs would be funded by the Fee imposed on new development. The remaining amount must be funded through other sources to be determined by the City.

Table 51: Landscape Median Facilities Cost Allocation Summary

Development Type	ADTs (EBUs)	Percentage Allocated	Facility Cost Allocation
Existing Development	910,344	73.70%	$23,406,892
New Development	324,853	26.30%	$8,352,665
Total	**1,253,197**	**100.00%**	**$31,759,557**

To calculate the Fees, DTA determined the number of ADTs expected through 2044 based on the expected residential and non-residential growth in the City. The analysis estimates that up to 324,853 additional ADTs would be generated by land use growth, as detailed in **Table 52** below.

Table 52: Landscape Medians Number of Trip Calculations

Land Use Type	Projected Development (Units)	Projected Development (Sq. Ft.)	ADT Generation Rate [1]	Total ADTs (EBUs) [2]
Residential	20,462		5.64	115,406
Commercial		6,893,730	15.28	105,319
Industrial		20,599,049	5.06	104,128
			Total	**324,853**

Notes:

1. Projected ADTs per unit for residential and per 1,000 Square Feet for non-residential.
2. Numbers may not sum due to rounding.

Table 53, presented below, summarizes the cost per ADT, calculated by dividing the cost of new development ($8,352,665) by the number of ADTs generated by new development (324,853). When accounting for the 324,583 planned ADTs in the City, the cost per PHT totals $26 as shown in the table below. The cost per ADT of $26 was then applied to the various land uses and their respective ADT trip generation rates to determine the proposed Fee.

Table 53: Landscape Medians Cost per EBU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$8,352,665
Total ADTs Added by New Development	324,853
DIF Cost Per ADT	$26

Note:

1. Numbers may not sum due to rounding.

F.5 Landscape Medians Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The residential fee per sq. ft. was determined by multiplying the cost per EDU of $26 by the total number of residential EBUs (115,406), resulting in the total amount funded from residential property of $2,967,330. This result was then divided by the

total anticipated residential square footage of 39,912,787, yielding a fee per square foot of $0.07. Details of this calculation are shown in the table below.

Table 54: Residential Landscape Median Costs Financed by Fees per Land Use Category [1]

Land Use Type	ADTs per Unit	Number of Projected Units	Calculation	Total EDUs
Residential	5.64	20,462		115,406
Total Residential		20,462	[a]	115,406
		Total Cost per EDU	*[b]*	***$26***
		Total Fees	[c] = [a] x [b]	$2,967,330
		Total Residential Sq. Ft.	[d]	39,912,787
		Total Cost per Residential Sq. Ft.	[e] = [c]/[d]	**$0.07**

Note:

1. Numbers may not sum due to rounding.

Similarly, the non-residential fee per sq. ft. was calculated by multiplying the cost per EBU ($26) by the total number of non-residential EBUs applicable to each land-use type. The table below summarizes the Fee amounts per sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 55: Non-Residential Landscape Median Facilities Costs Financed by Land Use Category [1]

Land Use Type	EBUs per Non-Res. Sq. Ft.[1]	Non-Residential Fee per 1,000 SF.	Number of Projected Non-Res. SF	Costs Financed by Fees
	[a]	[b] = [a] x $26	[c]	[e] = [c] x [b]
Commercial	15.28	$393	6,893,730	$2,707,976
Industrial	5.06	$130	20,599,049	$2,677,359
			Total	**$5,385,334**

Note:

1. Numbers may not sum due to rounding.

F.6 Proposed Fees

A summary of the proposed Landscape Medians Facilities Fee calculation is presented in **Table 56** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development under the statutory requirements of Government Code Section 66000 et *seq.* Landscape Medians Facilities DIFs for residential and non-residential development (using a per square foot metric) are summarized below.

Table 56: Landscape Medians Facilities Costs Financed by Fees Summary per Land Use Category

Land Use Type	Residential Fee per Sq. Ft./per 1,000 Non-Res. Sq. Ft.	Number of Projected Units / Non-Res. Sq. Ft	Costs Financed by Fees
Residential	$0.07	20,462	$2,967,330
Commercial	$353	6,893,730	$2,707,976
Industrial	$130	20,599,049	$2,677,359
		Total	$8,352,665

Table 57: Landscape Median Fee Summary

Land Use	Fees
Residential (Per Sq. Ft.)	$0.07
Commercial (Per Sf. Ft.)	$0.39
Industrial (Per Sf. Ft.)	$0.13

F.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

G Local Arterials

G.1 Local Arterials Facilities (Nexus Requirement AB 1600)

The City's goal is to improve the streets on a prioritized list over the build-out horizon. Improvements for each street will focus on Local Arterials. This additional infrastructure support is necessary to provide safe and efficient vehicular access throughout the City. The proposed DIF is to help meet the transportation demand of new development through 2044. The City identified the need for the landscape median infrastructure and equipment, as described in **Table 58** below.

The DIF will provide the City with revenue to fund the acquisition, installation, and construction of the necessary arterial transportation facilities, which in turn will both preserve the quality of life in the City and protect the health, safety, and welfare of existing and future residents and employees.

The table below illustrates how the Local Arterials fee will meet the requirements of AB 1600 with regard to the use of fees, the type of development funded or partially funded by the Fee revenue, the reasonable relationship to the need for facilities, and the proportionality requirements.

Table 58: Local Arterials Medians Facilities Nexus Requirement

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct various transportation projects, including local arterials, and other infrastructure that will mitigate the impacts of new development on the City's transportation system.
66001(a)(2)	Identify the use to which the Fee is to be put.	Fund or partially fund the construction of local arterials and other infrastructure projects within the City limits.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the fee is imposed.	New residential and non-residential development will generate additional traffic on City streets. The Fee revenue will be used to construct new local arterial projects that new residents and employees will use. A Fee imposed on new residential and non-residential development is a reasonable method for mitigating the impacts of such development and any resulting increase in LOS above and beyond the current LOS required to meet the plan approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional traffic volumes generated by new development will affect current congestion levels. New local arterials and other infrastructure are needed to mitigate the impacts of the increased traffic volumes. If the proposed projects are not constructed in concert with new development, the City's transportation system will experience higher traffic volumes, increasing congestion to a level well below City standards.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	Project costs are allocated to new development based on the percentage of total traffic volume at build-out generated by new development. The specific fee imposed on various land uses is based on the relative trip-generation rate compared to that of a residential unit (the baseline rate, or EDU factor).

Identification of the facilities to be financed is a critical component of any DIF program. In the broadest sense, the purpose of impact fees is to protect public health, safety, and general welfare by providing adequate public facilities. Notably, for Local Arterial Facilities, the City provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List.

Table 59 below summarizes the Local Arterials Needs List. The facilities presented below are based on estimates provided by the City.

Table 59: Local Arterial Facilities Costs

Local Arterials Facilities	Facility Cost
Alder Ave - from 650 feet north of Miller Ave to Miller Ave	$338,000
Alder Ave - from 460 feet south of Marygold Ave to Valley Blvd (West Side)	$405,600
Fontana Ave from Merrill Ave to Randall Ave	$5,168,000
Fontana Ave from Poplar Ave to San Bernardino Ave	$3,600,000
Fontana Ave from San Bernardino Ave to Valley Ave	$4,586,000
Knox Ave - from Sierra Lakes Pkwy to S. Highland Ave	$2,448,000
Locust Ave - from San Jacinto to 320 feet north of Miller Ave	$496,400
Locust Ave - from Miller Ave to Foothill Blvd	$1,346,400
Locust Ave - from Foothill Blvd to 275 feet north of PE Trail	$3,300,000
Locust Ave - from Arrow Blvd to Metrolink RR	$1,950,000
Locust Ave - from Metrolink RR to Merrill Ave	$770,000
Locust Ave - from Merrill Ave to Randall Ave	$4,080,000
Miller Ave - Date Ave to Cypress Ave	$306,000
Miller Ave - 230 feet west of Laurel Ave to Laurel Ave	$156,400
Miller Ave - 150 feet east of Laurel Ave to Texas Way	$210,000
Miller Ave - Locust Ave to Maple Ave	$980,000
Randall Ave. from Lime Ave. to Fontana Ave.	$2,590,000
Randall Ave from Laurel Ave to Locust Ave (North side)	$1,280,000
Randall Ave from 650 feet east of Locust Ave to Maple Ave (North side)	$650,000
Valley Blvd. Banana to Almond	$1,088,000
Transportation Facilities Subtotal	$35,748,800
Offsetting Revenue	$97,229
Total	**$35,651,571**

G.2 Offsetting Revenues

According to City Staff, offsetting revenues need to be considered in total for the Local Arterials Facilities calculation. As of the end of September 2025, the City had $97,229 in its current Local Arterials Facilities account that needed to be subtracted from the total facilities cost, as indicated in **Table 59** above.

G.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary.

LOS for streets and intersections is commonly defined in terms of LOS categories A through F as defined in the Highway Capacity Manual published by the Transportation Research Board. LOS is a qualitative description of traffic flow based

on several factors, including speed, travel time, delay, and freedom to maneuver. Six levels of LOS are typically defined, ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represented operations at or near capacity, an unstable level where vehicles operate with the minimum spacing required to maintain uniform flow.

The City's Local Arterials facilities built to date are consistent with the existing LOS required by the City to meet population needs. The list of projects to be built by the City (presented in detail in Appendix B of this Fee Study) outlines the planned facilities necessary to provide required services to the City and the criteria used to design a system to serve both existing and future development. The portion of the fee associated with existing transportation facilities reflects the current LOS that would be applied to new development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

G.4 Calculation Methodology

Local Arterials Fees were calculated for each of the three (3) land use categories based on the number of ADT. ADTs are published by the ITE Trip Generation Manual, 11th Edition. The ADT generation rates are per dwelling unit (for residential units), per 1,000 square feet of building area for each category of non-residential development, and per room for hotels. Per the ITE, a trip or trip end is a single, one-directional movement of a person or vehicle in which either the origin or the destination is entered or exited. inside a study site. In technical terms, a trip has an origin and a destination at its respective ends (known as trip ends). Each trip end is part of a trip. For trip site generation, the focus is on the trips entering and exiting a single site. Specifically, ADTs are the total number of trips, both inbound and outbound, generated by a particular use or development within a 24-hour weekday period.

All proposed Local Arterial facilities were sized to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 60** below, 73.70% of the costs will be allocated to existing development, and 26.30% to new development. Based on this allocation between new and existing development, $9,376,253 of the $26,274,318 in Local Arterial facilities costs would be funded by the Fee imposed on new development. The remaining amount must be funded through other sources to be determined by the City.

Table 60: Local Arterials Facilities Cost Allocation Summary

Development Type	ADTs (EBUs)	Percentage Allocated	Facility Cost Allocation
Existing Development	910,344	73.70%	$26,275,318
New Development	324,853	26,30%	$9,376,253
Total	**1,235,197**	**100.00%**	**$35,651,571**

To calculate the Fees, DTA determined the number of ADTs expected through 2044 based on the expected residential and non-residential growth in the City. The analysis estimates that up to 464,956 additional ADTs would be generated by land-use growth, as detailed in **Table 61** below.

Table 61: Local Arterials Number of Trip Calculations

Land Use Type	Projected Development (Units)	Projected Development (Sq. Ft.)	ADT Generation Rate [1]	Total ADTs (EBUs) [2]
Residential	20,462		5.64	115,406
Commercial		6,893,730	15.28	105,319
Industrial		20,599,049	5.06	104,128
			Total	**324,853**

Notes:

1. Projected ADTs per unit for residential and per 1,000 Square Feet for non-residential.
2. Numbers may not sum due to rounding.

Table 62, presented below, summarizes the cost per ADT, calculated by dividing the cost of new development ($9,376,253) by the number of ADTs generated by new development (324,853). When accounting for the 324,853 planned ADTs in the City, the cost per PHT totals $29 as shown in the table below. The cost per ADT of $29 was then applied to the various land uses and their respective ADT trip generation rates to determine the proposed Fee.

Table 62: Local Arterials Cost per EBU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$9,376,253
Total ADTs Added by New Development	324,853
DIF Cost Per ADT	**$29**

Note:

1. Numbers may not sum due to rounding.

G.5 Local Arterials Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The Fee per sq. ft. was determined by multiplying the cost per EDU of $29 by the total number of residential EBUs (115,406), resulting in the total amount funded from residential property of $3,330,965. This result was then divided by the total anticipated residential square footage of 39,912,787, yielding a per-square-foot fee of $0.08. Details of this calculation are shown in the table below.

Table 63: Residential Local Arterials Costs Financed by Fees per Land Use Category [1]

Land Use Type	ADTs per Unit	Number of Projected Units	Calculation	Total EDUs
Residential	5.64	20,462		115,406
Total Residential		20,462	[a]	115,406
		Total Cost per EDU	*[b]*	***$29***
		Total Fees	[c] = [a] x [b]	$3,330,965
		Total Residential Sq. Ft.	[d]	39,912,787
		Total Cost per Residential Sq. Ft.	[e] = [c]/[d]	**$0.08**

Note:

1. Numbers may not sum due to rounding.

Similarly, the non-residential fee per sq. ft. was calculated by multiplying the cost per EBU ($29) by the total number of non-residential EBUs applicable to each land-use type. The table below summarizes the Fee amounts per sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 64: Non-Residential Local Arterials Facilities Costs Financed by Land Use Category [1]

Land Use Type	EBUs per Non-Res. Sq. Ft.[1]	Non-Residential Fee per 1,000 SF.	Number of Projected Non-Res. SF	Costs Financed by Fees
	[a]	[b] = [a] x EBU	[c]	[e] = [c] x [b]
Commercial	15.28	$441	6,893,730	$30,039,829
Industrial	5.06	$146	20,599,049	$3,005,459
			Total	**$6,045,288**

Note:

1. Numbers may not sum due to rounding.

G.6 Proposed Fees

A summary of the proposed Local Arterial Facilities Fee is presented in **Table 65** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development under the statutory requirements of Government Code Section 66000 et *seq.* Local Arterials Facilities DIFs for residential and non-residential development (using a per square foot metric) are summarized in **Tables 65** and **66** below.

Table 65: Local Arterials Facilities Costs Financed by Fees Summary per Land Use Category

Land Use Type	Residential Fee per Sq. Ft./per 1,000 Non-Res. Sq. Ft.	Number of Projected Units / Non-Res. Sq. Ft	Costs Financed by Fees
Residential	$0.08	20,462	$2,967,330
Commercial	$441	6,893,730	$3,039,829
Industrial	$146	20,599,049	$3,005,459
		Total	**$9,012,618**

Table 66: Local Arterials Median Fee Summary

Land Use	Fees
Residential (Per Sq. Ft.)	$0.08
Commercial (Per Sf. Ft.)	$0.44
Industrial (Per Sf. Ft.)	$0.15

G.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based upon the BCI cost index average for Los Angeles as produced by ENR.

H Active Transportation Plan

H.1 Active Transportation Plan Facilities (Nexus Requirement AB 1600)

The City's goal is to improve the streets on a prioritized list over the build-out horizon. Improvements for each street will focus on the Active Transportation Plan. The Active Transportation Plan, released in 2017, is a Citywide plan that provides a clear and comprehensive framework for new, safer connectivity for non-motorized transportation, such as walking, bicycling, transit, and other rolling devices, throughout the City. This additional infrastructure support is necessary to provide safe and efficient non-motorized access throughout the City. The proposed DIF is to help meet the transportation demand of new development through 2044. The City identified the need for the Active Transportation infrastructure and equipment, as described in **Table 67** below.

The DIF will provide the City with revenue to acquire, install, and construct the necessary active transportation facilities, thereby preserving the quality of life in the City and protecting the health, safety, and welfare of existing and future residents and employees.

The table below illustrates how the Active Transportation fee will meet the requirements of AB 1600 regarding use of fees, type of development funded or partially funded by the Fee revenue, reasonable relationship to the need for facilities, and proportionality requirements.

Table 67: Active Transportation Plan Facilities Nexus Requirement

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct active transportation projects, including interchange improvements, and other infrastructure that will mitigate the impacts of new development on the City's transportation system.
66001(a)(2)	Identify the use to which the Fee is to be put.	Fund or partially fund the construction of active transportation and other infrastructure projects within the City limits.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the fee is imposed.	New residential and non-residential development will generate additional traffic on City streets. The Fee revenue will be used to construct new transportation projects for new residents and employees. A Fee imposed on new residential and non-residential development is a reasonable means of mitigating the impacts of such development and any resulting increase in LOS, above and beyond the current LOS required to meet the plan approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional traffic volumes generated by the new development will affect current congestion levels. New active transportation and other infrastructure are needed to mitigate the impact of the increased traffic volumes. If the proposed projects are not constructed in concert with new development, the City's transportation system will experience higher traffic volumes, increasing congestion to a level well below City standards.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	Project costs are allocated to new development based on the percentage of total traffic volume at build-out generated by new development. The specific fee imposed on various land uses is based on the relative trip-generation rate compared with a residential unit (the baseline rate, or EDU factor).

Identification of the facilities to be financed is a critical component of any DIF program. In the broadest sense, the purpose of impact fees is to protect public health, safety, and general welfare by providing adequate public facilities. Notably, for the Active Transportation Facilities, the City provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List.

Table 68 below summarizes the Active Transportation Needs List. The facilities presented below are based on estimates provided by the City.

Table 68: Active Transportation Plan Facilities Costs

Active Transportation Facilities	Facility Cost
Class I Shared - Use Path	$85,279,551
Class II Bike Lanes	$8,419,984
Class IV Separated Bikeway Construction	$1,329,185
Transportation Facilities Subtotal	$95,028,721
Offsetting Revenue	$173,776
Total	**$94,854,945**

H.2 Offsetting Revenues

According to City Staff, offsetting revenues need to be considered in the total for the Active Transportation Facilities calculation. As of the end of September 2025, the City had $173,776 in its current Active Transportation Facilities account that needed to be subtracted from the cost total as indicated in **Table 68** above.

H.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary.

The City's Active Transportation facilities, built to date, are consistent with the existing LOS required by the City to meet the needs of the population. The list of projects to be built by the City (and presented in detail in **Appendix B** to this Fee Study) details the planned facilities necessary to provide required services to the City and outlines the criteria used to design a system needed to serve both existing and future development. The portion of the fee associated with existing Active Transportation facilities reflects the current LOS that would be applied to new development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

H.4 Calculation Methodology

Local Active Transportation fees were calculated for each of the three (3) land use categories based on the number of ADTs. ADTs are published by the ITE Trip Generation Manual, 11th Edition. The ADT generation rates are per dwelling unit (for residential units), and daily trip generation is per 1,000 square feet of building area for each category of non-residential development. Per the ITE, a trip or trip end is a single, one-directional movement of a person or vehicle in which either the origin

or the destination is entered or exited. In technical terms, a trip has an origin and a destination at its respective ends (known as trip ends). Each trip end is part of a trip. For trip site generation, the focus is on the trips entering and exiting a single site. Specifically, ADTs are the total number of trips, both inbound and outbound, generated by a particular use or development within a 24-hour weekday period.

All proposed Active Transportation facilities were designed to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 69** below, 73.70% of the costs will be allocated to existing development, and 26.30% to new development. Based on this allocation between new and existing development, $24,946,558 of the $94,854,945 in Active Transportation facilities costs would be funded by the Fee imposed on new development. The remaining amount must be funded through other sources to be determined by the City.

Table 69: Active Transportation Plan Cost Allocation Summary

Development Type	ADTs (EBUs)	Percentage Allocated	Facility Cost Allocation
Existing Development	910,344	73.70%	$69,908,387
New Development	324,853	26.30%	$24,946,558
Total	**1,235,197**	**100.00%**	**$94,854,945**

To calculate the Fees, DTA determined the number of ADTs expected through 2044 based on the expected residential and non-residential growth in the City. The analysis estimates that up to 324,853 additional ADTs would be generated by land-use growth, as detailed in **Table 70** below.

Table 70: Active Transportation Number of Trip Calculations

Land Use Type	Projected Development (Units)	Projected Development (Sq. Ft.)	ADT Generation Rate [1]	Total ADTs (EBUs) [2]
Residential	20,462		5.64	115,406
Commercial		6,893,730	15.28	105,319
Industrial		20,599,049	5.06	104,128
			Total	**324,853**

Notes:

1 Projected ADTs per unit for residential and per 1,000 Square Feet for non-residential.
2 Numbers may not sum due to rounding.

Table 71, presented below, summarizes the cost per ADT, calculated by dividing the cost of new development ($24,946,558) by the number of ADTs generated by new development (324,853). When accounting for the City's planned 324,853 ADTs, the cost per ADT is $77, as shown in the table below. The cost per ADT of $77 was then

applied to the various land uses and their respective ADT trip generation rates to determine the proposed Fee.

Table 71: Active Transportation Cost per EBU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$24,946,558
Total ADTs Added by New Development	324,853
DIF Cost Per ADT	$77

Note:

1. Numbers may not sum due to rounding.

H.5 Active Transportation Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The Fee per sq. ft. was determined by multiplying the cost per EDU of $77 by the total number of residential EBUs (115,406), resulting in the total amount funded from residential property of $8,862,401. This result was then divided by the total anticipated residential square footage of 39,912,787, yielding a per-square-foot fee of $0.22. Details of this calculation are shown in **Table 72** below.

Table 72: Residential Active Transportation Plan Costs Financed by Fees per Land Use Category [1]

Land Use Type	ADTs per Unit	Number of Projected Units	Calculation	Total EDUs
Residential	5.64	20,462		115,406
Total Residential		20,462	[a]	115,406
		Total Cost per EDU	*[b]*	***$77***
		Total Fees	[c] = [a] x [b]	$8,862,401
		Total Residential Sq. Ft.	[d]	39,912,787
		Total Cost per Residential Sq. Ft.	[e] = [c]/[d]	**$0.22**

Note:

1. Numbers may not sum due to rounding.

Similarly, the non-residential fee per sq. ft. was calculated by multiplying the cost per EBU ($77) by the total number of non-residential EBUs applicable to each land-use type. The table below summarizes the Fee amounts per sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 73: Non-Residential Active Transportation Plan Facilities Costs Financed by Land Use Category [1]

Land Use Type	EBUs per Non-Res. Sq. Ft.[1]	Non-Residential Fee per 1,000 SF.	Number of Projected Non-Res. SF	Costs Financed by Fees
	[a]	[b] = [a] x $77	[c]	[e] = [c] x [b]
Commercial	15.28	$1,173	6,893,730	$8,087,800
Industrial	5.06	$388	20,599,049	$7,996,357
			Total	**$16,084,157**

Note:

1. Numbers may not sum due to rounding.

H.6 Proposed Fees

A summary of the proposed calculation of the Active Transportation Facilities Fee is presented in **Table 74** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development, subject to the statutory requirements of Government Code Section 66000 et *seq.*

Table 74: Active Transportation Plan Facilities Costs Financed by Fees Summary per Land Use Category

Land Use Type	Residential Fee per Sq. Ft./per 1,000 Non-Res. Sq. Ft.	Number of Projected Units / Non-Res. Sq. Ft	Costs Financed by Fees
Residential	$0.22	20,462	$8,862,401
Commercial	$1,173	6,893,730	$8,087,800
Industrial	$349	20,599,049	$7,996,357
		Total	**$24,946,558**

Active Transportation Facilities DIFs for residential and non-residential development (using a per square foot metric) are summarized in **Table 75** below

Table 75: Active Transportation Plan Fee Summary

Land Use	Fees
Residential (Per Sq. Ft.)	$0.22
Commercial (Per Sf. Ft.)	$1.17
Industrial (Per Sf. Ft.)	$0.39

H.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study

are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based on the average of the BCI cost indices for Los Angeles, as produced by ENR.

I Traffic Signals

I.1 Traffic Signal Facilities (Nexus Requirement AB 1600)

The City's goal is to improve the streets on a prioritized list over the build-out horizon. Improvements for each street will focus on the Active Transportation Plan. The Active Transportation Plan, released in 2017, is a Citywide plan that provides a clear and comprehensive framework for new, safer connectivity for non-motorized transportation, such as walking, bicycling, transit, and other rolling devices, throughout the City. This additional infrastructure support is necessary to provide safe and efficient non-motorized access throughout the City. The proposed DIF is to help meet the transportation demand of new development through 2044. The City identified the need for the Traffic Signal infrastructure and equipment, as described in **Table 76** below.

The DIF will provide the City with revenue to acquire, install, and construct the necessary Traffic Signal facilities, thereby preserving the quality of life in the City and protecting the health, safety, and welfare of existing and future residents and employees.

The table below illustrates how the Traffic Signal Facilities fee will meet the requirements of AB 1600 regarding use of fees, type of development funded or partially funded by the Fee revenue, reasonable relationship to the need for facilities, and proportionality requirements.

Table 76: Traffic Signal Facilities Nexus Requirement

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct Traffic Signal Facilities projects, including interchange improvements, and other infrastructure that will mitigate the impacts of new development on the City's transportation system.
66001(a)(2)	Identify the use to which the Fee is to be put.	Fund or partially fund the construction of Traffic Signal Facilities and other infrastructure projects within the City limits.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the fee is imposed.	New residential and non-residential development will generate additional traffic on City streets. The Fee revenue will be used to construct new Traffic Signal Facilities for new residents and employees. A Fee imposed on new residential and non-residential development is a reasonable means of mitigating the impacts of such development and any resulting increase in LOS, above and beyond the current LOS required to meet the plan approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	The additional traffic volumes generated by the new development will affect current congestion levels. New Traffic Signal Facilities are needed to mitigate the impact of the increased traffic volumes. If the proposed projects are not constructed in concert with new development, the City's transportation system will experience higher traffic volumes, increasing congestion to a level well below City standards.
66001(b)	Demonstrate a reasonable relationship between the Fee amount and the cost of the public facility.	Project costs are allocated to new development based on the percentage of total traffic volume at build-out generated by new development. The specific fee imposed on various land uses is based on the relative trip-generation rate compared with a residential unit (the baseline rate, or EDU factor).

Identification of the facilities to be financed is a critical component of any DIF program. In the broadest sense, the purpose of impact fees is to protect public health, safety, and general welfare by providing adequate public facilities. Notably, for the Traffic Signal Facilities, the City provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List.

Table 77 below summarizes the Traffic Signal Facilties Needs List. The facilities presented below are based on estimates provided by the City.

Table 77: Traffic Signal Facilities Costs

Traffic Signal Facilities	Facility Cost
Traffic Signals	$43,000,000
Traffic Signal Facilities Subtotal	$43,000,000
Offsetting Revenue	$45,315
Total	**$42,954,685**

I.2 Offsetting Revenues

According to City Staff, offsetting revenues need to be considered in the total for the Traffic Signal Facilities calculation. As of the end of September 2025, the City had $45,315 in its current Traffic Signal Facilities account that needed to be subtracted from the cost total as indicated in **Table 77** above.

I.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary.

The City's Traffic Signal facilities, built to date, are consistent with the existing LOS required by the City to meet population needs. The list of projects to be built by the City (presented in detail in Appendix B of this Fee Study) outlines the planned facilities necessary to provide required services to the City and the criteria used to design a system to serve both existing and future development. The portion of the fee associated with existing Traffic Signal facilities reflects the current LOS that would be applied to new development. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

I.4 Calculation Methodology

Traffic Signal Facilities fees were calculated for each of the three (3) land use categories based on the number of ADTs. ADTs are published by the ITE Trip Generation Manual, 11th Edition. The ADT generation rates are per dwelling unit (for residential units), and daily trip generation is per 1,000 square feet of building area for each category of non-residential development. Per the ITE, a trip or trip end is a single, one-directional movement of a person or vehicle in which either the origin or the destination is entered or exited. In technical terms, a trip has an origin and a destination at its respective ends (known as trip ends). Each trip end is part of a trip. For trip site generation, the focus is on the trips entering and exiting a single site.

Specifically, ADTs are the total number of trips, both inbound and outbound, generated by a particular use or development within a 24-hour weekday period.

All proposed Traffic Signal facilities were designed to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 69** below, 73.70% of the costs will be allocated to existing development, and 26.30% to new development. Based on this allocation between new and existing development, $11,296,950 of the $42,954,685 in Traffic Signal facilities costs would be funded by the Fee imposed on new development. The remaining amount must be funded through other sources to be determined by the City.

Table 78: Traffic Signal Facilities Cost Allocation Summary

Development Type	ADTs (EBUs)	Percentage Allocated	Facility Cost Allocation
Existing Development	910,344	73.70%	$31,657,735
New Development	324,853	26.30%	$11,296,950
Total	**1,235,197**	**100.00%**	**$42,954,685**

To calculate the Fees, DTA determined the number of ADTs expected through 2044 based on the expected residential and non-residential growth in the City. The analysis estimates that up to 324,853 additional ADTs would be generated by land-use growth, as detailed in **Table 79** below.

Table 76: Traffic Signal Number of Trip Calculations

Land Use Type	Projected Development (Units)	Projected Development (Sq. Ft.)	ADT Generation Rate [1]	Total ADTs (EBUs) [2]
Residential	20,462		5.64	115,406
Commercial		6,893,730	15.28	105,319
Industrial		20,599,049	5.06	104,128
			Total	**324,853**

Notes:

1. Projected ADTs per unit for residential and per 1,000 Square Feet for non-residential.
2. Numbers may not sum due to rounding.

Table 80, presented below, summarizes the cost per ADT, calculated by dividing the cost of new development ($11,296,950) by the number of ADTs generated by new development (324,853). When accounting for the City's planned 324,853 ADTs, the cost per ADT is $35, as shown in the table below. The cost per ADT of $35 was then applied to the various land uses and their respective ADT trip generation rates to determine the proposed Fee.

Table 80: Traffic Signal Facilities Cost per EBU [1]

Proposed Facilities Costs	Total
Cost Allocated to New Development	$11,296,950
Total ADTs Added by New Development	324,853
DIF Cost Per ADT	$35

Note:

1. Numbers may not sum due to rounding.

I.5 Traffic Signal Facilities Fee Calculation

As discussed in Section III, per the directive of AB 602, for housing development projects, nexus studies adopted after July 1, 2022, will no longer be on a per-unit basis, but will be calculated based on *square footage* of proposed units of the development, unless the local agency demonstrates that another metric is more appropriate.

The Fee per sq. ft. was determined by multiplying the cost per EDU of $35 by the total number of residential EBUs (115,406), resulting in the total amount funded from residential property of $4,013,303. This result was then divided by the total anticipated residential square footage of 39,912,787, yielding a per-square-foot fee of $0.10. Details of this calculation are shown in **Table 81** below.

Table 81: Residential Traffic Signal Facilities Costs Financed by Fees per Land Use Category [1]

Land Use Type	ADTs per Unit	Number of Projected Units	Calculation	Total EDUs
Residential	5.64	20,462		115,406
Total Residential		20,462	[a]	115,406
		Total Cost per EDU	*[b]*	***$35***
		Total Fees	[c] = [a] x [b]	$4,013,303
		Total Residential Sq. Ft.	[d]	39,912,787
		Total Cost per Residential Sq. Ft.	[e] = [c]/[d]	**$0.10**

Note:

1. Numbers may not sum due to rounding.

Similarly, the non-residential fee per sq. ft. was calculated by multiplying the cost per EBU ($77) by the total number of non-residential EBUs applicable to each land-use type. The table below summarizes the Fee amounts per sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 82: Non-Residential Traffic Signal Facilities Costs Financed by Land Use Category [1]

Land Use Type	EBUs per Non-Res. Sq. Ft.[1]	Non-Residential Fee per 1,000 SF.	Number of Projected Non-Res. SF	Costs Financed by Fees
	[a]	[b] = [a] x $77	[c]	[e] = [c] x [b]
Commercial	15.28	$513	6,893,730	$3,622,528
Industrial	5.06	$176	20,599,049	$3,621,118
			Total	**$7,283,647**

Note:

1. Numbers may not sum due to rounding.

I.6 Proposed Fees

A summary of the proposed calculation of the Traffic Signal facilities Fee is presented in **Table 83** below. The Fees recommended in this Fee Study reflect the maximum justifiable Fee level that the City may impose on new residential and non-residential development, subject to the statutory requirements of Government Code Section 66000 et *seq.*

Table 83: Traffic Signal Facilities Costs Financed by Fees Summary per Land Use Category

Land Use Type	Residential Fee per Sq. Ft./per 1,000 Non-Res. Sq. Ft.	Number of Projected Units / Non-Res. Sq. Ft	Costs Financed by Fees
Residential	$0.10	20,462	$4,013,303
Commercial	$531	6,893,730	$3,662,528
Industrial	$176	20,599,049	$3,621,118
		Total	**$11,296,950**

Traffic Signal Facilities DIFs for residential and non-residential development (using a per square foot metric) are summarized in **Table 84** below

Table 84: Traffic Signal Facilities Fee Summary

Land Use	Fees
Residential (Per Sq. Ft.)	$0.10
Commercial (Per Sf. Ft.)	$0.53
Industrial (Per Sf. Ft.)	$0.18

I.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et. seq.* As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and

construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This construction cost index is based on the average of the BCI cost indices for Los Angeles, as produced by ENR.

J Sewer DIFs

J.1 Sewer Facilities (Nexus Requirement AB 1600)

The Sewer Facilities category encompasses the facilities utilized by the City to deliver basic sanitary sewer services to residents and employees within the City. These elements consist of downstream collectors that convey wastewater from local drainage areas, such as residential tracts and business parks, to county trunk sewer lines and treatment facilities. These proposed facilities provide a Citywide benefit by ensuring sufficient system-wide capacity to collect wastewater from new and existing developments through 2040. This section of the Fee Study considers existing and future needs to accommodate City staff at build-out and to expand City sewer facilities.

To support future development through General Plan build-out, the City has identified the need to combine projects, basins, and other facilities. **Table 76** below illustrates how the Sewer Facilities Fee meets the requirements of AB 1600 regarding the use of the Fee, the types of development funded or partially funded by Fee revenue, the reasonable relationship to the need for the facilities, and the proportionality requirements.

Table 85: Sewer Facilities

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source to pay for the construction/expansion of sewer facilities such as trunk mains, basins, and equipment that will mitigate the impacts of new development on the City's Sewer facilities.
66001(a)(2)	Identify the use to which the Fee is to be put.	Revenue from this fee will be used to construct and expand/enhance new sewer facilities, such as landfill flare modifications, trunk mains, basins, and equipment to provide general sewer collection and treatment services.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the Fee is imposed.	New residential and non-residential developments will generate additional residents and employees, thereby increasing demand for Sewer facilities. Sewer Fees collected from new development will be used exclusively for construction-related costs associated with these projects. Fees imposed on new residential and non-residential development are a reasonable means of mitigating the impacts of new development and any resulting increase in LOS beyond the current LOS required to meet the plan approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	New residential and non-residential development in the City's Sewer Service Area will generate additional residents and employees, who will increase the need to collect and treat sewage generated by such new development. New sewer infrastructure, such as trunk mains, basins, and equipment, is needed to collect and treat sewer generated from new developments in the City's Sewer Service Area.
66001(b)	Demonstrate a reasonable relationship between the Fee amount and the cost of the public facility.	The cost of the proposed facilities is based on projected sewer generation from the various land uses. The fee for each land use is calculated based on its relative contribution to the Citywide sewer flow.

It's important to note that for Sewer Facilities, the City provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 86** below summarizes the Needs List. The facilities presented below are based on estimates provided by the City.

Table 86: Sewer Facilities Needs List

Sewer Facilities	Facility Cost
Diversion Structures	$297,600
Pipelines	$58,727,175
Lift Stations	$11,625,000
Subtotal	$70,649,775
Offsetting Revenues	$0.00
Sewer Facilities Total	**$70,649,775**

J.2 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the total of the Sewer facilities calculations, as any existing account balance or other offsetting revenue funds must be subtracted from the facilities cost total. Currently, the City has $0.00 in its Sewer Facilities account, which can be subtracted from the total facilities cost, as indicated in **Table 77** above.

J.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section examines the LOS for water facilities, a system that encompasses several key considerations, including water supply, gallons per day, water quality, storage capacity, water pressure, and citywide reliability.

The City's latest Capital Improvement Plan update identifies and itemizes the planned sewer facilities necessary to accommodate new growth and provide required service to the City.

J.4 Calculation Methodology

Sewer generation is directly related to water demand. Interior water use (excluding landscape irrigation, which is considered part of water demand) generally accounts for half (and often more) of the total water demand for a residential unit. Sewer Fees were calculated for each of the three (3) land use categories based on wastewater generation measured in GPD; i.e., the EBU factor (see Section V) generated by each land use. Total GPDs were calculated by applying these wastewater generation rates to the various dwelling unit counts and non-residential square feet identified in the demographics section of this Fee Study. Calculations are presented in detail in **Appendix A**.

All proposed sewer facilities will serve both existing and future residents and employees. Therefore, the costs of these facilities are typically allocated between existing and new development based on their respective percentages of build-out EBUs.

All proposed sewer facilities were sized to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 87**, below, **74.45%** of the costs will be allocated to existing development, and **25.55%** to new development. Based on this allocation between new and existing development, $18,054,029 of the $70,649,775 in sewer facilities costs would be funded by the Fee imposed on new development. The remaining $52,595,746 must be funded through other sources to be determined by the City.

Table 87: Sewer Facilities Cost Allocation Summary

Development Type	Percentage Allocated to New Development	Facility Cost Allocation
Existing Development	74.45%	$52,595,746
New Development	25.55%	$18,054,029
	Total	**$70,649,775**

To determine the Sewer Fees, DTA calculated the number of gallons per day (GPDs) generated by sewer service through 2040, based on anticipated residential and non-residential growth in the City. As shown in **Table 88** below, the analysis estimates that land-use growth would generate 5,440,652 additional EDUs. This is presented in detail in **Appendix A**

Table 88: Sewer Generation by Land Use [1]

Land Use	Sewer Generated GPD	Unit Category	Units/Sq. Ft.	Total EDUs	Total Costs
Residential	208.81	Per Unit		4,272,684	$14,178,293
Commercial	55.10	Per 1000 sq. ft.	6,893,730	379,820	$1,260,378
Industrial	38.26	Per 1000 sq. ft.	20,599,049	788,148	$2,615,358
			Total	**5,440,652**	**$18,054,029**

Table 89 below summarizes the cost per $1,000 GPD (note: per 1,000 GPD is used to avoid rounding significant figures), calculated by dividing the total cost of new development ($18,054,029) by the number of GPDs generated by new development (5,440,652) and multiplying by 1,000 GPD, resulting in a total of $3,318, as shown in the table below. This cost was then applied to the various land uses and their respective GPD generation rates to determine the proposed Fee.

Table 89: Sewer Cost per EBU [1]

Proposed Facilities Costs	Calculation	Total
Cost Allocation to New Development	[a]	$18,054,029
Total GPDs added by New Development	[b]	$5,440,652
Multiplier	[c]	1,000
DIF Cost Per 1,000 GPDs	([a]/[b]) x [c]	$3,318
Cost per EBU	**[c]/1,000**	**$3.32**

Note:

1. Numbers may not sum due to rounding.

J.5 Sewer Fee Calculation

The Fee per sq. ft. was determined by first multiplying the cost per EBU of $3.32 by the total number of residential EBUs (4,272,684), resulting in the total amount funded from residential property of $14,178,293. This result was then divided by the total anticipated residential sq. ft. (39,912,787) to generate the Fee per sq. ft. of $0.36. Details of this calculation are shown in the table below.

Table 90: Residential Sewer Facilities Costs Financed by Fees

Land Use Type	GPDs per Unit	Number of Projected Units	Calculation	Total EDUs
Residential	208.81	20,462		4,272,684
Total Residential		20,462	[a]	4,272,684
		Total Cost per EBU	*[b]*	***$3.32***
		Total Fees	[c] = [a] x [b]	$14,178,293
		Total Residential Sq. Ft.	[d]	39,912,787
		Total Cost per Residential Sq. Ft.	[e] = [c]/[d]	**$0.36**

Note:

1. Numbers may not sum due to rounding.

Similarly, the fee per 1,000 sq. ft. was calculated by multiplying the cost per EBU ($3.32) by the total number of non-residential EBUs applicable to each land-use type. The table below summarizes the Fee amounts per sq. ft. and the total cost financed by Fees imposed on non-residential land uses.

Table 91: Non-Residential Sewer Facilities Costs Financed by Fee Summary per Land Use Category[1]

Land Use Type	EBUs per 1,000 Non-Res. Sq. Ft.[1]	Fee per 1,000 SF.	Number of Projected Non-Res. Sq. Ft.	Costs Financed by Fees
	[a]	[b] = [a] x $3.32	[c]	[e] = [c] x [b]
Commercial	55	$182.83	6,893,730	$1,260,378
Industrial	38	$126.97	20,599,049	$2,615,358
			Total	**$3,875,736**

Note:

1. Numbers may not sum due to rounding.

J.6 Proposed Fees

The proposed Sewer Fee amounts are summarized in **Table 92** below.

Table 77: Non-Residential Sewer DIF by Meter [1]

Land Use Type	Residential Fee per Sq. Ft./per 1,000 Non-Res. Sq. Ft.	Number of Project Units / Non-Res. St. Ft.	Costs Financed by Fees
Residential	$0.36	39,912,787	$14,178,293
Commercial	$182.83	6,893,730	$1,260,378
Industrial	$126.97	20,599,049	$2,615,358
		Total	**$18,054,029**

Note:

1. Numbers may not sum due to rounding.

Sewer Facilities DIFs for residential and non-residential development (using per sq foot metric are summarized in Table 93 below.

Table 93: Sewer Facilities Fee Summary

Land Use	Costs Financed by Fees
Residential (Per Sq. Ft.)	$0.36
Commercial (Per 1,000 Sq. Ft.	$0.18
Industrial (Per 1,000 Sq. Ft.	$013

J.7 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et seq*. As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This CCI is based on the BCI average for Los Angeles, as reported by ENR.

K Storm Drain Fees

K.1 Storm Drain Facilities (Nexus Requirement AB 1600)

The Storm Drain Facilities element will serve the residents of the City by providing infrastructure that ensures proper drainage in areas susceptible to stormwater runoff. Storm Drain Facilities include those used by the City to provide storm drainage services to residents and employees within the City's boundaries. The Storm Drain Fee will include the facilities and expansion necessary to handle storm drain runoff generated by new development through build-out by the year 2040.

Table 94 below illustrates how the Storm Drain Facilities Fee meets the requirements of AB 1600 regarding the use of the Fee, the types of development funded or partially funded by Fee revenue, the reasonable relationship to the need for the facilities, and proportionality requirements.

Table 78: Storm Drain Facilities Nexus Requirement

AB 1600 Code Section	Description	Justification
66001(a)(1)	Identify the purpose of the Fee.	Provide a revenue source that will provide funds to construct and expand/enhance storm drain improvements that will mitigate the impacts of new development on the City's storm drain system.
66001(a)(2)	Identify the use to which the Fee is to be put.	Fund or partially fund the construction and expansion of storm basins, laterals, tributary drains, and related projects within the City limits.
66001(a)(3)	Demonstrate how there is a reasonable relationship between the Fee's use and the type of development project on which the fee is imposed.	New residential and non-residential development will increase the City's storm drain needs. The Fee revenue will be used to construct and expand storm drain basins, laterals, tributary drains, and related improvements. Storm Drain fees collected from new development will be used exclusively for construction-related costs associated with these projects. Fees imposed on new residential and non-residential development are a reasonable means of mitigating the impacts of such development and any resulting increase in LOS beyond the current LOS required to meet the plans approved by the City.
66001(a)(4)	Demonstrate how there is a reasonable relationship between the need for the public facilities and the type of development project on which the Fee is imposed.	Storm Drain Fee revenue will go towards new facilities and improvements necessary to mitigate storm drain runoff from new development. The construction and expansion of storm drain basins, laterals, tributary drains, and related improvements are needed to ensure proper drainage of stormwater runoff and protect the City from flooding.
66001(b)	Demonstrate a reasonable relationship between the amount of the Fee and the cost of the public facility.	Project costs are allocated to new development based on the stormwater and impervious runoff generated per acre. The specific Fee imposed on various land uses is based on stormwater runoff coefficients relative to a residential unit (baseline rate or EDU factor).

For Storm Drain Facilities, the City has provided DTA with the list of Future Facilities to be included in the Fee Study (the "Needs List"). Please refer to Section V for details on the Needs List. **Table 95** below summarizes the Needs List. The facility costs presented below are based on estimates provided by the City.

Table 95: Storm Drain Facilities Costs

Storm Drain Facilities	Facility Cost
AOS 1	$898,928,000
AOS 2	$131,702,000
AOS 3	$137,433,000
Storm Drain Facilities Subtotal	$1,168,063,000
Offsetting Revenues	**$13,869,013**
Storm Drain Facilities Total	$1,154,193,987

K.2 Offsetting Revenues

In calculating DIFs, it is important to consider any offsetting revenue in the City Storm Drain calculations total, as any existing account balance or other offsetting revenue funds must be subtracted from the facilities cost total. Currently, there is a balance of $13,869,013 in the Storm Drain Facilities account to subtract from the total facilities cost, as indicated in **Table 95** above.

K.3 LOS

As stated earlier in Section III, in September of 2021, the Governor of California signed AB 602, which provides new statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these new requirements is that, when applicable, a Nexus study shall identify the existing LOS for each public facility, identify the proposed new LOS, and explain why the new LOS is necessary. This section examines the LOS for Storm Drain facilities to ensure sufficient system-wide capacity to direct storm drain runoff at storm recurrence intervals as dictated by City policy, from both new and existing developments.

Although the Storm Drain facilities fee is a plan-based calculation, the list of projects to be built by the City (and presented in detail in **Appendix B** to this Fee Study) details the planned facilities necessary to provide required services to the City, and it also outlines the criteria used to design a system needed to serve both existing and future development. The portion of the fee associated with existing Storm Drain facilities represents the current LOS, which would be applied to new developments. Notably, the future facilities have been identified by the City (in its Capital Improvement Plan) as necessary to serve both new and existing development; therefore, any increase in the LOS beyond the current level would be required to meet the City-approved plan.

K.4 Calculation Methodology

Storm Drain Fees were calculated for each of the three (3) land use categories based on the runoff rates, measured in terms of the relative contribution of runoff (i.e., the EBU factor - see Section V) generated by each land use. Specifically, the reasonable relationship used to allocate storm drain costs among existing, converted use, and future development is based on relative runoff contribution. The Rational Method of computing runoff rates was used in the form of Q = C x I x A, where "Q" is equal to

runoff volume, "C" is the ratio of area to total area studied, "I" is rainfall intensity, and "A" is Area, in acres of the Fee Study area. A runoff factor, "C" of 1.00, indicates a totally site, where every drop of rain would find its way to the public streets as runoff. However, it can be shown that only the relative contribution of runoff needs to be considered when computing runoff (Q/A), using only the runoff factor and acreage. This is the assumption used in this calculation.

Total Runoff was calculated by applying these runoff factors to the estimated acreage attributable to the various dwelling unit counts and non-residential square feet identified in the demographics section of this Fee Study. As discussed in Section V, runoff factors per acre for residential units and non-residential development are based on guidelines provided by the City Staff and from the 2020 Cal Trans Design Highway Design Manual Chapter 810 Hydrology, and reviewed with City staff. In addition, runoff factors were taken from the Municipal Separate Storm Sewer System (MS4) guidelines.

All proposed Storm Drain facilities were sized to meet the needs of both existing and future residents and employees. Therefore, the costs of these facilities have been allocated between existing and new development based on their respective percentages of build-out EBUs. As illustrated in **Table 96** below, based on the allocation of 6,802 existing runoff EBUs and 1,934 new development EBUs, 75.77% of costs will be allocated to existing development and 22.14% to new development. Based on this allocation between new and existing development, $255,556,461 of the $1,154,193,987 in Storm Drain facilities costs would be funded by the Fee imposed on new development. The remaining $898,637,526 must be funded through other sources to be determined by the City

Table 96: Storm Drain Facilities Cost Allocation Summary [1]

Development Type	Allocation by Total Unit Runoff (EBUs)	Percentage Allocations	Facility Cost Allocation
Existing Development	6,802	75.77%	$874,492,265
New Development	2,176	24.23%	$279,701,722
Total	**8,978**	**100.00%**	**$1,154,193,987**

Note:

1. Numbers may not sum due to rounding.

Table 97, presented below, summarizes the cost per unit runoff, calculated by dividing the cost of new development ($279,701,722) by the unit runoff generated by new development (2,176). When accounting for the anticipated unit runoff (EBUs) from new development, the cost per unit runoff totals $128,564 as shown in the table below. This per-unit runoff cost will be applied to the various land uses and their respective total runoff rates to determine the proposed Fee. This is presented in detail in **Appendix A**.

Table 97: Storm Drain Facilities Cost per Unit Runoff [1]

Land Use		Total
Cost Allocated to New Development	[a]	$279,701,722
Total Runoff Added by New Development	[b]	2,176
DIF Cost per Unit Runoff	**[a]/[b]**	**$128,564**

K.5 Floor Area Ratios (FARs) and Runoff Coefficients

To generate the Storm Drain Fees, DTA calculated the total runoff expected through 2040 based on the anticipated residential and non-residential growth in the City. To do this, residential development was calculated using dwelling units per acre, and non-residential development was calculated using FARs listed in the City's General Plan, with information reviewed and provided by the City.

In addition, runoff coefficients were estimated for each land use. Runoff coefficients are used to calculate the volume of water that will flow from the surface during a storm event. They represent the fraction of rainfall that becomes surface runoff and are used to estimate peak flow rates for drainage systems. A coefficient of 0 means all rainfall is absorbed or lost, while a coefficient of 1 signifies all rainfall becomes runoff. Essentially, runoff coefficients help determine how much water a drainage system needs to handle. Runoff coefficients generally vary by project, but under current Municipal Separate Storm Sewer System (MS4) guidelines, most new developments are in the 0.75 range. The calculations explaining this in detail are presented in **Appendix A** at the end of this Fee Study.

K.6 Storm Drain Facilities Fee Calculation

The Storm Drain fees are calculated based on the amount of surface area on a property. Hard surfaces, such as buildings, driveways, patios, and parking lots, prevent rainwater from soaking into the ground, leading to increased stormwater runoff. This runoff needs to be managed to prevent flooding and protect water quality. In this analysis, the storm drain fees are based on impervious acres.

Table 98: Projected Storm Drain Usage by Land Use

Land Use Category	Runoff Rate Coefficient "C"	Cost per Unit Runoff Allocation Rate per Impervious Acre	Total Acres	Cost Financed
	[a]	[b] = [a] x $128,564	[c]	[d] = [b] x [c]
Residential	0.60	$77,138	1,023	$78,920,173
Commercial	0.95	$122,136	316	$38,657,907
Industrial	0.80	$102,851	1,576	$162,123,642
			Total New Development	**$279,701,722**

As indicated in **Table 98** above, the residential Storm Drain Fee per acre. was determined by multiplying the runoff coefficient of 0.60 by the cost per unit runoff, resulting in a residential fee of $79,268 per impervious acre. This calculation is repeated for each non-residential land use listed and summarized in **Table 99** below.

K.7 Proposed fees

Storm Drain Facilities DIFs for residential and non-residential development, per acre, are summarized below.

Table 99: Storm Drain Fee Summary

Land Use	Fee per Impervious Acre
Residential	$77,138
Commercial Retail	$122,136
Industrial	$102,851

K.8 DIF Annual Cost Escalation Recommendations

The fees recommended within this Fee Study reflect the maximum justifiable fee level that may be imposed on new development under the statutory requirements of Government Code Section 66000 *et seq*. As the DIFs proposed in this Fee Study are based on Facilities costs in 2025 dollars, it is appropriate for the City to apply an annual escalator to these fee levels to account for inflation in acquisition and construction costs. DTA further recommends that, after adoption, the above impact fees be reviewed annually and include a provision for an adjustment based on the current CCCI. This CCI is based on the BCI average for Los Angeles, as reported by ENR.

VII IMPLEMENTATION OF FEE SCHEDULE

In addition to the legal requirements covered in Section III, this report presents several recommendations for the adoption and administration of the DIFs. All recommendations presented in this section are based on the Mitigation Fee Act (Government Code §66000 et seq.), also referred to as the "Act," which provides specific requirements for establishing and administering DIF programs. The Act also mandates procedures for administering impact fee programs, such as the collection and accounting of impact fees, refunds, mandatory updates, and reporting requirements.

At the time the City imposes an impact fee, Government Code 66020 requires a written statement of the fee amount and a written notice of a 90-day period during which the fee can be protested. Prior to the enactment of Section 66020, a developer could not challenge the validity of fees imposed on a residential development without refusing to pay them. Under these circumstances, developers were required to pay the disputed fees before they could challenge them. Section 66020 was drafted to correct that problem.

The various subparts of Section 66020 allow a developer to pay the fees under protest, obtain the relevant building permit, and proceed with the project while pursuing an action to challenge the fees. If the action is successful, the fees will be refunded with interest. However, failure to protest the imposition of the fee within the allowed period may deprive the fee payer of the right to pursue any subsequent legal challenge. Any challenges must be filed within 90 days of enactment. The subsequent sections provide specific guidelines for implementing DIFs.

A The Collection of DIFs

According to Government Code Section 66007, any local agency that imposes any fees or charges on a residential development for the construction of public improvements or facilities shall not require the payment of those fees or charges, notwithstanding any other provision of law, until the date of the final inspection, or the date the Certificate of Occupancy is issued, whichever occurs first.

However, utility service fees may be collected upon receipt of a utility service application. If the residential development contains more than one dwelling, the local agency may determine whether the fees or charges shall be paid on a pro rata basis for each dwelling when (i) it receives its final inspection or Certificate of Occupancy, (ii) on a pro rata basis when a certain percentage of the dwellings have received their final inspection or Certificate of Occupancy, or (iii) on a lump sum basis when the first dwelling in the development receives its final inspection or Certificate of Occupancy, whichever of the three occur first.

An exception allows DIFs to be collected earlier if they are used to reimburse the agency for expenditures previously incurred or for public improvements or facilities for which funds have already been appropriated. If any fee or charge specified is not fully paid prior to the issuance of a building permit for construction, the local agency issuing the building permit may require the property owner, or lessee if the lessee's interest appears of record, as a

condition of issuance of the building permit, to execute a contract to pay the fee or charge, or applicable portion.

Statutory restrictions in place for residential development at the time at which fees may be collected do not apply to non-residential development. In cases where the fees are not collected upon the issuance of building permits, Sections 6607(c)(1) and (2) provide that the City may require the property owner of a non-residential development to execute a contract to pay the fee and subsequently record that contract as a lien against the property owner.

In addition, pursuant to Government Code Section 65852.2(f), ADUs are exempt from incurring impact fees from local agencies, special districts, and water corporations if such a unit is less than 750 square feet. If an ADU is 750 square feet or larger, impact fees shall be charged proportionately in relation to the square footage of the ADU to the square footage of the primary dwelling unit. Furthermore, the water capital improvement fee, water supply fee, and sewer capital improvement fee shall not be applicable to any ADU created within the existing space of a single-family residence or accessory structure, including, but not limited to, a studio, pool house, or other similar structure. Please note that for purposes of this Fee Study, future ADUs are included in the build-out projections, but some of these units may not be required to pay an impact fee. As a result, the City may not collect the full amount of costs as shown in the Needs Lists included herein.

B The Assignment and Expenditure of Fee Revenue

According to Section 66006, if a local agency requires the payment of a fee specified in connection with the approval of a development project, the local agency receiving the fee shall deposit it with the other fees for the improvement to be funded in a separate capital facilities account or fund in a manner to avoid any commingling of the fees with other revenues and funds of the local agency, except for temporary investments, and expend those fees solely for the purpose for which the fee was collected.

Any interest income earned in the capital facilities account or fund shall also be deposited in that account or fund and shall be expended only for the purpose for which the fee was originally collected.

Common practice is to maintain separate funds or accounts for impact fee revenues by facility category (e.g., streets and park improvements), but not for individual projects. DTA recommends continuing that approach.

DIF revenue should not be spent on any infrastructure, property, or equipment needed to mitigate an existing deficiency.

C Exemptions, Reductions, and Waivers

If a project has characteristics that indicate its impact on a particular public facility or infrastructure system will be significantly and permanently smaller than the average impact used to calculate impact fees in this Fee Study, the fees should be reduced accordingly. The City may voluntarily waive or reduce fees that would otherwise apply to a project to

promote goals such as affordable housing or economic development. However, implementing this policy may not increase costs for other development projects and is permitted only if any such costs are offset by other revenue sources.

D Developer Improvement Credits

If the City maintains a policy that requires a developer, as a condition of project approval, to construct facilities for which impact fees have been or will be charged, the impact fee imposed on that development project for that type of facility must be adjusted to reflect a credit for such dedication or construction. Furthermore, the impact fee imposed on that development project for that type of facility must be adjusted to reflect a credit for the cost of the facilities or improvements constructed by the developer. If circumstances allow a developer to dedicate land, buildings, or other valuable considerations in lieu of paying fees, the City maintains the discretion to accept or reject such offers and may negotiate the terms under which an offer would be accepted.

E Existing Development Credit

If a project involves replacement, redevelopment, or intensification of existing development, impact fees should be applied only to the portion of the project that represents a net increase in demand for relevant facilities, using the demand measure used in this Fee Study to calculate that fee. Since residential service demand is typically estimated per dwelling unit, an addition to a single-family dwelling unit would typically not be subject to an impact fee if it does not increase the number of dwelling units in the structure. In any project that results in a net increase in the number of dwelling units, the added units would normally be subjected to impact fees. A similar analysis can be applied to non-residential development using a demand measure on which impact fees are based.

F Annual Reporting and Accounting of Fees.

AB 1600 requires that both general law and charter cities account for every fee that they collect under its terms. Funds collected for each capital facility or service shall be deposited in separate accounts and not commingled with any other funds for other impact fees. While funds are accrued for individual capital facilities, the City must keep track of each fund and provide an annual report. Section 66006 requires that for each separate account or fund established, the local agency shall, within 180 days after the last day of each fiscal year, make available to the public the following information for the fiscal year:

1. A brief description of the type of fee in the account or fund;
2. The amount of the fee;
3. The beginning and ending balance of the account or fund;
4. The amount of the fees collected, and the interest earned;
5. An identification of each public improvement on which fees were expended and the amount of the expenditure on each improvement, including the total percentage of

the cost of the public improvement that was funded with fees;

6. An identification of an approximate date by which the construction of the public improvement will commence if the local agency determines that sufficient funds have been collected to complete financing on an incomplete public improvement, as identified in Paragraph (2) of Subdivision (a) of Section 66001, and the public improvement remains incomplete;
7. A description of each interfund transfer or loan made from the account or fund, including the public improvement on which the transferred or loaned fees will be expended, and, in the case of an interfund loan, the date on which the loan will be repaid and the rate of interest that the account or fund will receive on the loan; and
8. The amount of refunds made pursuant to Subdivision (e) of Section 66001 and any allocations pursuant to Subdivision (f) of Section 66001.

The City must review the information at the next regularly scheduled public meeting, not less than 15 days after it is made available to the public. Notice of the time and place of the meeting, including the address where this information may be reviewed, should be mailed at least 15 days prior to the meeting to any interested party who files a written request with the local agency for mailed notice.

G Refunding Policy

Under the Mitigation Fee Act, the Government Code §66000 et seq., each DIF must be deposited in a separate capital facilities account and may be expended only for the purposes for which it was collected. For all unexpended fees, the agency must make findings every 5 years that:

1. Identify the purpose to which the fee will be put;
2. Demonstrate a reasonable relationship between the unexpended balance and the purpose for which the fee was charged;
3. Ascertain the sources and funding for any as-yet-incomplete public improvements; and
4. Designate the approximate date the agency expects the funding for uncompleted improvements to be deposited in the account [§66001(d)(1)]. The Act provides that "if the findings are not made as required by [the Act], the local agency shall refund the moneys in the account" to the current owners of the properties for which the fees were paid [§66001(d)(2)].

Failure to make the findings specified in the Mitigation Fee Act requires a refund of all unexpended DIFs. When sufficient funds have been collected to complete financing of the public improvements contained in the CIP, the public agency shall identify "an approximate date by which the construction of the public improvement will be commenced" within 180 days of collecting the required funds (Gov. Code §66001(e)]. Failure to comply with this

requirement also mandates the return of the collected funds, as stated above.

In addition, pursuant to Government Code Section 65852.2(f), ADUs are exempt from incurring impact fees from local agencies, special districts, and water corporations if such a unit is less than 750 square feet. If an ADU is 750 square feet or larger, impact fees shall be charged proportionately in relation to the square footage of the ADU to the square footage of the primary dwelling unit. Furthermore, as mentioned earlier, the water improvement fee, water supply fee, and sewer fee shall not be applicable to any accessory dwelling unit created within the existing space of a single-family residence or accessory structure, including, but not limited to, a studio, pool house, or other similar structure.

This report does not address, nor has DTA been asked to determine, whether any current or proposed DIFs are valid under the U.S. Constitution's Fifth Amendment Takings Clause. In Sheetz v. County of El Dorado (2024) ___U.S.___, the U.S. Supreme Court held that its decisions in Nollan v. California Coastal Comm'n (1987) 483 U.S. 825 and Dolan v. City of Tigard (1994) 512 U.S. 374 apply to legislatively imposed conditions on land-use permits. But the Supreme Court left it to the California appellate court on remand to address the validity of the traffic impact fee at issue and to determine how to apply Nollan/Dolan in this context. DTA cannot predict how courts will resolve such issues in the future and is providing no services or guarantees of any kind concerning the validity of any impact fees under the U.S. Constitution's Fifth Amendment Takings Clause.

H Annual Update of the CIP

It is common for jurisdictions to prepare a CIP in conjunction with a fee program. In fact, AB 1600 encourages the use of a CIP to assist in scheduling and implementing the services and improvements funded through impact fees (Gov. Code §66002). A good CIP establishes a schedule of improvements necessary to accommodate the projected growth. The CIP must indicate the approximate size, location, time of availability, and estimated costs of all improvements to be financed through fees [Gov. Code §66002(a)]. To create a usable CIP, a municipality must have an accurate understanding of its current service baseline and projected growth. This requires an understanding of when, where, and how growth may occur within the area. The more information collected about future growth, the more comprehensive and accurate the CIP will be. A CIP can also help a municipality determine when new public improvements or the expansion of existing public improvements are needed relative to the timing of new development.

If the public agency adopts a CIP, it must be updated annually [Gov. Code §66002(b)]. A 10-day published notice is provided pursuant to Government Code §65090 and is also provided to any city or county that may be significantly affected by the CIP. If a CIP is adopted and is used as a basis for identifying the use of impact fees, the CIP must be adopted and updated annually by a resolution of the governing body at a public hearing. In the absence of a CIP, an alternative is to identify improvements in other public documents, such as General Plans, land studies, and other documents.

I Administration Costs of Fee Implementation

The cost of implementing the DIFs is not included in the fees themselves and must be determined by the City. To recover the periodic costs of updating the fee studies, implementing the program, ongoing staff costs, managing the updates, and preparing annual and five-year updates required by the Mitigation Fee Act, an administration fee may be added to the impact fees calculated in this Fee Study. DTA recommends that these expenses be handled administratively and passed on to applicants through application processing fees. The calculation of the administrative cost for each fee in this Fee Study is presented in each respective fee section and in the Executive Summary.

J Indexing of Impact Fee Rates.

The DIFs presented in this report are based on current facility costs provided by the City and should be adjusted annually to account for inflation. The purpose of the adjustment is to account for future cost escalations in land, equipment, vehicles, and construction. DTA recommends that, after adoption, the fee be reviewed each year and adjusted using a reliable index, such as the ENR BCI, which is generally used as the primary basis for indexing construction costs. Ordinarily, land costs make up a significant portion of the fees and do not lend themselves to traditional cost indexes. As such, land costs should be adjusted to changes in local land prices.

K Updating the Impact Fee Study

As stated in Section III, AB 602 was signed into law in September of 2021 by the Governor of California, and it provides new Statewide requirements for local jurisdictions seeking to impose DIFs on development projects. Among these requirements is the requirement that Nexus Studies be updated at least every 8 years, effective January 1, 2023. However, DTA concurs with the generally accepted policy that 5 years is a good rule of thumb for impact fee updates, particularly because the required 5-Year Findings (see above) can be approved at the same time. In some instances, fees may remain valid for a longer period of time if the City's land use and facility plans do not change. A case in point is a municipality at or near full build-out capacity. However, a dynamic, growing municipality facing significant land-use changes would do itself a disservice by maintaining the current fee structure for too long without a fee study to update the rates.

L Administering an Impact Fee Program.

Creating and administering an impact fee program can be a labor-intensive process requiring considerable preparation and training that should not be undertaken more often than necessary. A well-planned fee program can generate sufficient funds to enable the City to adequately mitigate the impacts of future development. Conversely, a poorly planned fee can result in either collecting too little money and being forced to pay for public facilities required as a result of future development through its General Fund or collecting too much money based on an unsupported fee program, thus exposing the City to a fee challenge or a requirement to refund unexpected proceeds.

All personnel involved in the process, including accounting, capital budgeting, and project management in any other area, must be fully aware of the difference between impact fees and other fees, such as user fees, and of the guidelines and restrictions governing the expenditure of impact fee revenues. The building impact fees generated in this report are tied to specific facility improvements and cost estimates provided by the City. The fees must be expended accordingly, withstand any challenges, and demonstrate that the funds have been properly directed in accordance with AB 1600 guidelines.

VIII SUMMARY OF FEES

The total proposed fee is intended to finance the new development's share of the costs of new facilities, as summarized below.

Table 100: DIF Summary

Land Use [1,2]	Public Facilities	Police	Fire	Library	Parks	Landscape Medians	Local Arterials	Active Trans. Plan	Traffic Signals	Sewer
Residential	$0.57	$0.55	$0.13	$0.04	$1.26	$0.07	$0.08	$0.22	$0.10	$0.36
Commercial	$0.42	$0.41	$0.10	$0.03	-	$0.39	$0.44	$1.17	$0.53	$0.18
Industrial	$0.12	$0.11	$0.03	$0.01	-	$0.13	$0.15	$0.39	$0.18	$0.13

Notes:

1. Residential fees are for single-family residences, multi-family residences, and mobile homes and are per square foot to comply with California AB 602.
2. Non-Residential fees are per 1,000 square feet.

The Storm Drain fees presented in **Table 101** below are calculated based on the amount of surface area on a property. Surfaces such as buildings, driveways, patios, and parking lots are hard surfaces that prevent rainwater from soaking into the ground, increasing stormwater runoff. This runoff needs to be managed to prevent flooding and protect water quality. In this analysis, storm drain fees are based on the number of acres.

Table 101: Proposed Sewer DIF (Maximum Allowable Fee)

Land Use	Fee per Impervious Acre
Residential	$77,138
Commercial Retail	$122,136
Industrial	$102,851

The cost estimates for facilities used in this Fee Study are in 2025 dollars. Therefore, DTA further recommends that, after adoption, the above impact fees be reviewed each year and include a provision for an annual inflationary adjustment based on the CCCI. This construction cost index is based upon the BCI cost index for Los Angeles as produced by the ENR.

APPENDIX A

City of Fontana
DRAFT Development Impact Fee Justification Study

FEE DERIVATION WORKSHEETS

APPENDIX A
FONTANA, CALIFORNIA
PUBLIC FACILITIES FEE CALCULATION

I. Existing EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ per 1,000 Non-Res. SF	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	214,223	3.63	1.00	58,993	58,993
Commercial	22,795	1.38	0.38	13,882,988	5,257
Industrial	18,077	0.38	0.10	72,309,782	7,467
Total	**255,096**				**71,717**

II. Projected EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ per 1,000 Non-Res. SF	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	74,304	3.63	1.00	20,462	20,462
Commercial	5,773	1.38	0.38	6,893,730	2,610
Industrial	16,763	0.38	0.10	20,599,049	2,127
Total	**96,840**				**25,200**

III. Projected Facilities Costs

Facility	Facility Cost
Facilities Costs	$110,000,000
Offsetting Revenues	$1,915,624
Total Facilities Cost	**$108,084,376**

IV. Allocation of New Development to New and Existing Facilities

Development	EDU's	Percentage of Cost Allocated	Percentage of Cost Allocated
Existing Development	71,717	74.00%	$79,981,071
New Development	25,200	26.00%	$28,103,305
Total	**96,917**	**100.00%**	**$108,084,376**

V. Allocation of New Development

Facility	Number of Projected EDUs	Cost to New Development	Cost per EDU
Public Facilities	25,200	$28,103,305	$1,115

VI. Calculated Fee

Land Use Type	Sq. Ft/ 1,000 Sq. Ft.	Units/ Sq. Ft.	Costs Financed by DIF
Residential	$0.57	20,462	$22,819,869
Commercial	$422	6,893,730	$2,911,093
Industrial	$115	20,599,049	$2,372,343
Total			**$28,103,305**

VII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.57
Commercial Retail (per Sq. Ft.)	$0.42
Industrial (per Sq. Ft.)	$0.12

APPENDIX A
FONTANA, CALIFORNIA
POLICE FEE CALCULATION

I. Existing EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	214,223	3.63	1.00	58,993	58,993
Commercial	22,795	1.38	0.38	13,882,988	5,257
Industrial	18,077	0.38	0.10	72,309,782	7,467
Total	**255,096**				**71,717**

II. Projected EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	74,304	3.63	1.00	20,462	20,462
Commercial	5,773	1.38	0.38	6,893,730	2,610
Industrial	16,763	0.38	0.10	20,599,049	2,127
Total	**96,840**				**25,200**

III. Projected Facilities Costs

Facility	Facility Cost
Facilities Cost	$108,500,000
Offsetting Revenues	$4,079,433
Total Facilities Cost	**$104,420,567**

IV. Allocation of New Development to New and Existing Facilities

Development	EDU's	Percentage of Cost Allocated	Percentage of Cost Allocated
Existing Development	71,717	74.00%	$77,269,899
New Development	25,200	26.00%	$27,150,668
Total	**96,917**	**100.00%**	**$104,420,567**

V. Allocation of New Development

Facility	Number of Projected EDUs	Cost to New Development	Cost per EDU
Facilities Costs	25,200	$27,150,668	$1,077

VI. Calculated Fee

Land Use Type	Sq. Ft/ 1,000 Sq. Ft.	Units/ Sq. Ft.	Costs Financed by DIF
Residential	$0.55	20,462	$22,046,328
Commercial	$408	6,893,730	$2,812,414
Industrial	$111	20,599,049	$2,291,926
Total			**$27,150,668**

VII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.55
Commercial (per Sq. Ft.)	$0.41
Industrial (per Sq. Ft.)	$0.11

APPENDIX A
FONTANA, CALIFORNIA
FIRE FEE CALCULATION

I. Existing EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	214,223	3.63	1.00	58,993	58,993
Commercial	22,795	1.38	0.38	13,882,988	5,257
Industrial	18,077	0.38	0.10	72,309,782	7,467
Total	**255,096**				**71,717**

II. Projected EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	74,304	3.63	1.00	20,462	20,462
Commercial	5,773	1.38	0.38	6,893,730	2,610
Industrial	16,763	0.38	0.10	20,599,049	2,127
Total	**96,840**				**25,200**

III. Projected Facilities Costs

Facility	Facility Cost
Facilities Costs	$25,000,000
Offsetting Revenues	$0
Total Facilities Cost	**$25,000,000**

IV. Allocation of New Development to New and Existing Facilities

Development	EDU's	Percentage of Cost Allocated	Percentage of Cost Allocated
Existing Development	71,717	74.00%	$18,499,684
New Development	25,200	26.00%	$6,500,316
Total	**96,917**	**100.00%**	**$25,000,000**

V. Allocation of New Development

Facility	Number of Projected EDUs	ost to New Developmer	Cost per EDU
Facilities Costs	25,200	$6,500,316	$258

VI. Calculated Fee

Land Use Type	Sq. Ft/ 1,000 Sq. Ft.	Units/ Sq. Ft.	Costs Financed by DIF
Residential	$0.13	20,462	$5,278,253
Commercial	$98	6,893,730	$673,338
Industrial	$27	20,599,049	$548,725
Total			**$6,500,316**

VII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.13
Commercial (per Sq. Ft.)	$0.10
Industrial (per Sq. Ft.)	$0.03

APPENDIX A
FONTANA, CALIFORNIA
LIBRARY FEE CALCULATION

I. Existing EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	214,223	3.63	1.00	58,993	58,993
Commercial	22,795	1.38	0.38	13,882,988	5,257
Industrial	18,077	0.38	0.10	72,309,782	7,467
Total	**255,096**				**71,717**

II. Projected EDU Calculation

Land Use Type	Number of Persons Served	Residents per Unit/ Persons Served per 1,000 Non-Res. SF	EDUs per Unit/ ıer 1,000 Non-Res. S	Number of Units/ Non-Res. SF	Total Number of EDUs
Residential	74,304	3.63	1.00	20,462	20,462
Commercial	5,773	1.38	0.38	6,893,730	2,610
Industrial	16,763	0.38	0.10	20,599,049	2,127
Total	**96,840**				**25,200**

III. Projected Facilities Costs

Facility	Facility Cost
Facilities Costs	$9,395,351
Offsetting Revenues	$1,464,571
Total Facilities Cost	**$7,930,780**

IV. Allocation of New Development to New and Existing Facilities

Development	EDU's	Percentage of Cost Allocated	Percentage of Cost Allocated
Existing Development	71,717	74.00%	$5,868,677
New Development	25,200	26.00%	$2,062,103
Total	**96,917**	**100.00%**	**$7,930,780**

V. Allocation of New Development

Facility	Number of Projected EDUs	:ost to New Developmer	Cost per EDU
Facilities Costs	25,200	$2,062,103	$82

VI. Calculated Fee

Land Use Type	Sq. Ft/ 1,000 Sq. Ft.	Units/ Sq. Ft.	Costs Financed by DIF
Residential	$0.04	20,462	$1,674,427
Commercial	$31	6,893,730	$213,604
Industrial	$8	20,599,049	$174,073
Total			**$2,062,103**

VII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.04
Commercial (per Sq. Ft.)	$0.03
Industrial (per Sq. Ft.)	$0.01

APPENDIX A
FONTANA, CALIFORNIA
PARK FEE CALCULATION

I. Existing EDU Calcul

Land Use Typ	Number of Persons Serve	Residents per Unit/ Persons Served per 1,000 Non-Res.	EDUs per Unit/ per 1,000 Non-Res	Number of Units/ Non-Res. S	Total Number of EDUs
Residential	214,223	3.63	1.00	58,993	58,99
Commercial					
Industr:					
Tota:	**214,22:**				**58,99:**

II. Projected EDU Calcul

Land Use Typ	Number of Persons Serve	Residents per Unit/ Persons Served per 1,000 Non-Res.	EDUs per Unit/ per 1,000 Non-Res	Number of Units/ Non-Res. S	Total Number of EDUs
Residential	74,304	3.63	1.00	20,462	20,46
Commercial					
Industr:					
Tota:	**74,30**				**20,46**

III. Projected Facilitie

Facility		Facility Cost
Facilities Costs	$	204,000,000
Offsetting Revenu	$	9,323,18
Total Facilities	**$**	**194,676,81**

IV. Allocation of New Development to New and Existing

Development	EDU's	Percentage of Cost Allocated	Percentage of Co Allocated
Existing Development	58,993	74.25%	$144,541,776
New Development	20,46:	25.75%	$50,135,0:
Tota:	**79,45:**	**100.00%**	**$194,676,81**

V. Allocation of New Develop

Facility	Number of Projected EDUs	ost to New Developme	Cost per EDU
Facilities (	20,46:	$50,135,0:	$2,45

VI. Calculated

Land Use Type	Sq. Ft/ 1,000 Sq. Ft.	Units/ Sq. Ft.	Costs Financed DIF
Residential	$1.26	20,462	$50,135,019
Commercial	$0	0	$0
Industr:	$0	0	$0
Tota:			**$50,135,03**

VI. Calculated Fee per S

Land Use	Fees
Residential (per Sq. Ft.)	$1.26
Commercial (per Sq. Ft.)	$0.00
Industrial (per Sq. Ft.)	$0.00

APPENDIX A-1
FONTANA, CALIFORNIA
LANDSCAPE MEDIAN FEE CALCULATION

I. Existing EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Existing Units	Existing Non-Residential S.F.	Average Daily EBUs (Per Unit/1,000 SF)
Residential	5.64	58,993		332,721
Commercial	15.28		13,882,988	212,097
Industrial	5.06		72,309,782	365,526
Total				**910,344**

II. Future EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Projected Units	Projected Non-Residential S.F.	Average Daily EBUs (Per Unit/1,000 SF)
Residential	5.64	20,462		115,406
Commercial	15.28		6,893,730	105,319
Industrial	5.06		20,599,049	104,128
Total				**324,853**

III. Proposed Facilities Cost

Facility	Facility Cost
Facilities Cost	**$32,607,600**
Offsetting Revenues	**$848,043**
Total Facilities Cost	**$31,759,557**

IV. Allocation of Facilities to Existing and New Development (based on Daily Trips)

Development	Average Daily Trips (EBUs)	Percentage of Cost Allocated	Facility Cost
Existing Development	910,344	73.70%	$23,406,892
New Development	324,853	26.30%	$8,352,665
Total Facilities Cost	**1,235,197**	**100.00%**	**$31,759,557**

V. Allocation of Facilities to New Development (based on New EDUs)

Facility	Projected Daily Trips ew Development	Facility Cost Allocated to	Facilities Cost Per Daily Trip
Facilities Cost	324,853	$8,352,665	$26
Total Facilities Cost per Daily Trip	**324,853**		**$26**

VI. Impact Fees and Cost Financed by Fees per Unit/per 1,000 Non-Res. S.F.

Land Use Type	Estimated Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Fee per Unit	Fees per 1,000 Non-Res. S.F.	Cost Financed by Impact Fees
Residential	5.64	$145		$2,967,330
Commercial	15.28		$393	$2,707,976
Industrial	5.06		$130	$2,677,359
Initial Allocation to New Development				**$8,352,665**
Total Allocated to Existing Development				$23,406,892
Total Facilities Costs				**$31,759,557**

VII. Fees

Land Use	Fees	Units / Sq. Ft	Costs Financed by DIF
Residential	$0.07	20,462	$2,967,330
Commercial	$393	6,893,730	$2,707,976
Industrial	$130	20,599,049	$2,677,359
Total			**$8,352,665**

VIII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.07
Commercial (per Sq. Ft.)	$0.393
Industrial (per Sq. Ft.)	$0.130

APPENDIX A-1
FONTANA, CALIFORNIA
LOCAL ARTERIALS FEE CALCULATION

I. Existing EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Existing Units	Existing Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	58,993		332,721
Commercial	15.28		13,882,988	212,097
Industrial	5.06		72,309,782	365,526
Total				**910,344**

II. Future EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Projected Units	Projected Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	20,462		115,406
Commercial	15.28		6,893,730	105,319
Industrial	5.06		20,599,049	104,128
Total				**324,853**

III. Proposed Facilities Cost

Facility	Facility Cost
Facilities Cost	**$35,748,800**
Offsetting Revenues	**$97,229**
Total Facilities Cost	**$35,651,571**

IV. Allocation of Facilities to Existing and New Development (based on Daily Trips)

Development	Average Daily Trips (EBUs)	Percentage of Cost Allocated	Facility Cost
Existing Development	910,344	73.70%	$26,275,318
New Development	324,853	26.30%	$9,376,253
Total Facilities Cost	**1,235,197**	**100.00%**	**$35,651,571**

V. Allocation of Facilities to New Development (based on New EDUs)

Facility	Projected Daily Trips ew Development	Facility Cost Allocated to	Facilities Cost Per Daily Trip
Facilities Cost	324,853	$9,376,253	$29
Total Facilities Cost per Daily Trip	**324,853**		**$29**

VI. Impact Fees and Cost Financed by Fees per Unit/per 1,000 Non-Res. S.F.

Land Use Type	Estimated Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Fee per Unit	Fees per 1,000 Non-Res. S.F.	Cost Financed by Impact Fees
Residential	5.64	$163		$3,330,965
Commercial	15.28		$441	$3,039,829
Industrial	5.06		$146	$3,005,459
Initial Allocation to New Development				**$9,376,253**
Total Allocated to Existing Development				$26,275,318
Total Facilities Costs				**$35,651,571**

VII. Fees

Land Use	Fees	Units / Sq. Ft	Costs Financed by DIF
Residential	$0.08	20,462	$3,330,965
Commercial	$441	6,893,730	$3,039,829
Industrial	$146	20,599,049	$3,005,459
Total			**$9,376,253**

VIII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.08
Commercial (per Sq. Ft.)	$0.441
Industrial (per Sq. Ft.)	$0.146

APPENDIX A-1
FONTANA, CALIFORNIA
ACTIVE TRANSPORTATION FEE CALCULATION

I. Existing EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Existing Units	Existing Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	58,993		332,721
Commercial	15.28		13,882,988	212,097
Industrial	5.06		72,309,782	365,526
Total				**910,344**

II. Future EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Projected Units	Projected Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	20,462		115,406
Commercial	15.28		6,893,730	105,319
Industrial	5.06		20,599,049	104,128
Total				**324,853**

III. Proposed Facilities Cost

Facility	Facility Cost
Facilities Cost	**$95,028,721**
Offsetting Revenues	**$173,776**
Total Facilities Cost	**$94,854,945**

IV. Allocation of Facilities to Existing and New Development (based on Daily Trips)

Development	Average Daily Trips (EBUs)	Percentage of Cost Allocated	Facility Cost
Existing Development	910,344	73.70%	$69,908,387
New Development	324,853	26.30%	$24,946,558
Total Facilities Cost	**1,235,197**	**100.00%**	**$94,854,945**

V. Allocation of Facilities to New Development (based on New EDUs)

Facility	Projected Daily Trips ew Development	Facility Cost Allocated to	Facilities Cost Per Daily Trip
Facilities Costs	324,853	$24,946,558	$77
Total Facilities Cost per Daily Trip	**324,853**		**$77**

VI. Impact Fees and Cost Financed by Fees per Unit/per 1,000 Non-Res. S.F.

Land Use Type	Estimated Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Fee per Unit	Fees per 1,000 Non-Res. S.F.	Cost Financed by Impact Fees
Residential	5.64	$433		$8,862,401
Commercial	15.28		$1,173	$8,087,800
Industrial	5.06		$388	$7,996,357
Initial Allocation to New Development				**$24,946,558**
Total Allocated to Existing Development				$69,908,387
Total Facilities Costs				**$94,854,945**

VII. Fees

Land Use	Fees	Units / Sq. Ft	Costs Financed by DIF
Residential	$0.22	20,462	$8,862,401
Commercial	$1,173	6,893,730	$8,087,800
Industrial	$388	20599048.73	$7,996,357
Total			**$24,946,558**

VIII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.22
Commercial (per Sq. Ft.)	$1.173
Industrial (per Sq. Ft.)	$0.388

APPENDIX A-1
FONTANA, CALIFORNIA
TRAFFIC SIGNALS FEE CALCULATION

I. Existing EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Existing Units	Existing Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	58,993		332,721
Commercial	15.28		13,882,988	212,097
Industrial	5.06		72,309,782	365,526
Total				**910,344**

II. Future EBU Calculation

Land Use Type	Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Projected Units	Projected Non-Residential S.F.	Average Daily Trips EBUs (Per Unit/1,000 SF)
Residential	5.64	20,462		115,406
Commercial	15.28		6,893,730	105,319
Industrial	5.06		20,599,049	104,128
Total				**324,853**

III. Proposed Facilities Cost

Facility	Facility Cost
Facilities Cost	**$43,000,000**
Offsetting Revenues	**$45,315**
Total Facilities Cost	**$42,954,685**

IV. Allocation of Facilities to Existing and New Development (based on Daily Trips)

Development	Average Daily Trips (EBUs)	Percentage of Cost Allocated	Facility Cost
Existing Development	910,344	73.70%	$31,657,735
New Development	324,853	26.30%	$11,296,950
Total Facilities Cost	**1,235,197**	**100.00%**	**$42,954,685**

V. Allocation of Facilities to New Development (based on New EDUs)

Facility	Projected Daily Trips ew Development	Facility Cost Allocated to	Facilities Cost Per Daily Trip
Facilities Costs	324,853	$11,296,950	$35
Total Facilities Cost per Daily Trip	**324,853**		**$35**

VI. Impact Fees and Cost Financed by Fees per Unit/per 1,000 Non-Res. S.F.

Land Use Type	Estimated Trip Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Fee per Unit	Fees per 1,000 Non-Res. S.F.	Cost Financed by Impact Fees
Residential	5.64	$196		$4,013,303
Commercial	15.28		$531	$3,662,528
Industrial	5.06		$176	$3,621,118
Initial Allocation to New Development				**$11,296,950**
Total Allocated to Existing Development				$31,657,735
Total Facilities Costs				**$42,954,685**

VII. Fees

Land Use	Fees	Units / Sq. Ft	Costs Financed by DIF
Residential	$0.10	20,462	$4,013,303
Commercial	$531	6,893,730	$3,662,528
Industrial	$176	20,599,049	$3,621,118
Total			**$11,296,950**

VIII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.10
Commercial (per Sq. Ft.)	$0.531
Industrial (per Sq. Ft.)	$0.176

APPENDIX A-1
FONTANA, CALIFORNIA
STORM DRAIN FEE CALCULATION

I. Existing EDU Calculation

Land Use Type	Units/Sq. Ft.	Units per Acre / FAR	Developed Acreage	Runoff Rate Coefficient "C"	Current Total Unit Runoff
Residential	58,993	20.0	2,950	0.60	1,770
Commercial	13,882,988	0.50	637.4	0.95	606
Industrial	72,309,782	0.30	5,533.3	0.80	4,427
Total					**6,802**

II. Projected EDU Calculation

Land Use Type	Units/Sq. Ft.	Units per Acre / FAR	Developed Acreage	Runoff Rate Coefficient "C"	Current Total Unit Runoff
Residential	20,462	20.0	1,023	0.60	614
Commercial	6,893,730	0.50	316.5	0.95	301
Industrial	20,599,049	0.30	1,576.3	0.80	1,261
Total					**2,176**

III. Projected Facilities Costs

Facility	Facility Cost
Facilities Costs	$1,168,063,000
Offsetting Revenues	$13,869,013
Total Facilities Cost	**$1,154,193,987**

IV. Allocation of New Development to New and Existing Facilities

Land Use Category	Allocation by Total Unit Runoff (EBUs)	Percentage	New Development Costs
Existing Development	6,802	75.77%	$874,492,265
New Development	2,176	24.23%	$279,701,722
Total	**8,978**	**100.00%**	**$1,154,193,987**

V. Allocation of New Development

Facility	Number of Projected EBUs	Cost to New Development	Cost per EBU
Facilities Costs	8,978	$1,154,193,987	$128,564

VI. Calculated Fee

Land Use Category	Rubinoff Rate Coefficient "C"	Cost per Unit Runoff Allocation Rate per Acre	Total Acres	Cost Financed
Residential	0.60	$77,138	1,023	$78,920,173
Commercial	0.95	$122,136	317	$38,657,907
Industrial	0.80	$102,851	1,576	$162,123,642
Total				**$279,701,722**

VII. Calculated Fee per Acre

Land Use Category	Fee
Residential (per Sq. Ft.)	$77,138
Commercial (per Sq. Ft.)	$122,136
Industrial (per Sq. Ft.)	$102,851

APPENDIX A-1
FONTANA, CALIFORNIA
SEWER FEE CALCULATION

I. Existing EBU Calculation

Land Use Type	Sewer Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Existing Units	Existing Non-Residential S.F.	Total GPD "EBUs" (Per Unit/1,000 SF)
Residential	208.81	58,993		12,318,358
Commercial	55.10		13,882,988	764,903
Industrial	38.26		72,309,782	2,766,674
Total				**15,849,935**

II. Future EBU Calculation

Land Use Type	Sewer Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Number of Projected Units	Projected Non-Residential S.F.	Total GPD "EBUs" (Per Unit/1,000 SF)
Residential	208.81	20,462		4,272,684
Commercial	55.10		6,893,730	379,820
Industrial	38.26		20,599,049	788,148
Total				**5,440,652**

III. Proposed Facilities Cost

Facility	Facility Cost
Facilities Cost	**$70,649,775**
Offsetting Revenues	**$0**
Total Facilities Cost	**$70,649,775**

IV. Allocation of Facilities to Existing and New Development

Development	Total GPDs (EBUs)	Percentage of Cost Allocated	Facility Cost
Existing Development	15,849,935	74.45%	$52,595,746
New Development	5,440,652	25.55%	$18,054,029
Total Facilities Cost	**21,290,587**	**100.00%**	**$70,649,775**

V. Allocation of Facilities to New Development

Facility	Projected GPDs	Facility Cost Allocated to New Development	Facilities Cost Per GPD
Facilities Costs	5,440,652	$18,054,029	$3.32
Total Facilities Cost per Daily Trip	**5,440,652**		**$3.32**

VI. Impact Fees and Cost Financed by Fees per Unit/per 1,000 Non-Res. S.F.

Land Use Type	Sewer Generation Rate per Unit/ per 1,000 Non-Res. S.F.	Fee per Unit	Fees per 1,000 Non-Res. S.F.	Cost Financed by Impact Fees
Residential	208.81	$693		$14,178,293
Commercial	55.10		$183	$1,260,378
Industrial	38.26		$127	$2,615,358
Initial Allocation to New Development				**$18,054,029**
Total Allocated to Existing Development				$52,595,746
Total Facilities Costs				**$70,649,775**

VII. Fees

Land Use	Fees per Unit / Per 1,000 Sq. Ft.	Units / Sq. Ft	Sq. Ft.	Costs Financed by DIF
Residential	$693	20,462	39,912,787	$14,178,293
Commercial	$183	6,893,730	6,893,730	$1,260,378
Industrial	$127	20,599,049	20,599,049	$2,615,358
Total				**$18,054,029**

VIII. Calculated Fee per Sq. Ft.

Land Use	Fees
Residential (per Sq. Ft.)	$0.36
Commercial (per Sq. Ft.)	$0.183
Industrial (per Sq. Ft.)	$0.127

Backup to Sewer Generation Rate - Residential

Metric	Calculation	Amount
Water Usage (Gallons per Day per Person)	[a]	123
Adjustment: 85% of Total Water Usage is Non-Irrigation	*[b]*	*0.85*
Adjustment: 55% Water becomes Wastewater	*[c]*	*0.55*
Sewage Flow per Person	**[d] = [a] x [b] x [c]**	**57.50**
Persons per Unit		3.63
GPD per Unit		**208.81**

Backup to Sewer Generation Rate - Non-Residential

Metric	Calculation	Commercial	Indusrial
GDP/Ac [1]	[a]	1,200	500
FAR [1]	[b]	0.50	0.30
Ac/Sq. Ft.	[c]	43,560	43,560
GDP/Sq. Ft.	[d] = [a] /([b] x [c])	0.055	0.038
GDP/1000 Sq. Ft.	**[e] = [d] x 1000**	**55.10**	**38.26**

[1] Fontana 2023 Sewer Master Plan

APPENDIX B

City of Fontana
DRAFT Development Impact Fee Justification Study

INVENTORY AND FACILITIES NEEDS LIST

APPENDIX I

DEVELOPMENT IMPACT FEES

FONTANA, CALIFORNIA

PUBLIC FACILITIES NEEDS LIST

Facility Name	Total Cost f Facility	Off-setti Revenues	Net Cost to City	Percent of Co Allocated to New Development	Cost Allocated to New Development	Policy Background Objective
Public Facilities (Projects over next 20 years)						
Corporate Yard Expansion (III phases of expansion)	$30,000,000	$0	$30,000,000	26.00%	$7,800,379	CIP - North Yard/Fleet and Facilities Building
Proposed Parking Structure (OmniTrans - 1,500 spaces)	$70,000,000	$0	$70,000,000	26.00%	$18,200,885	Future CIP - base the latest parking structure costs
City Hall Improvement (Phase III Expansion)	$10,000,000	$0	$10,000,000	26.00%	$2,600,126	City's General Pla 12, Goal 2
Offsetting Revenue	$0	**$1,915,624**	**($1,915,624)**	26.00%	($498,086)	
Tota	**$110,000,00**	**$1,915,62**	**$108,084,37**		**$28,103,30**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
POLICE FACILITIES NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Police Facilities (Projects over next 20 years)						
Police Department - 12,000 sq ft. with furniture and fixtures ($3,300/sq ft)	$40,000,000	$0	$40,000,000	26.00%	$10,400,506	CIP
Police Department Secure Parking Structure	$40,000,000	$0	$40,000,000	26.00%	$10,400,506	CIP
Police Sub Station - North end of town 2000 sq ft	$5,000,000	$0	$5,000,000	26.00%	$1,300,063	CIP
Police Hangar for Helicopter storage	$6,000,000	$0	$6,000,000	26.00%	$1,560,076	CIP
Command Post 50 ft motor home increase the size	$650,000	$0	$650,000	26.00%	$169,008	CIP
Police Black & White Vehicles - Fleet increase 1 vehicle per every 3 officers (30 officer)	$1,000,000	$0	$1,000,000	26.00%	$260,013	CIP
Armored Vehicle	$400,000	$0	$400,000	26.00%	$104,005	CIP
Helicopter (need to have a better one due to high wind, the existing doesn't work)	$5,000,000	$0	$5,000,000	26.00%	$1,300,063	CIP
Motorcycles ($45,000 each x 10)	$450,000	$0	$450,000	26.00%	$117,006	CIP
Property Office Site Storage facility 2500 sq ft		$0	$0	26.00%	$0	CIP
Police Substation (Metrolink)	$10,000,000	$0	$10,000,000			
Offsetting Revenue		**$4,079,433**	**($4,079,433)**	26.00%	**($1,060,704)**	
Total	**$108,500,000**	**$4,079,433**	**$104,420,567**		**$24,550,542**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
FIRE FACILITIES NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Fire Facilities (Projects over next 20 years)						
Station 77 Expansion to the neighboring lot with addition of apparatus bays and dorm rooms.	$5,000,000		$5,000,000	26.00%	$1,300,063	To assist needs for new residents based on the GP
Construction of Phase 2 station 80 fire station once development begins in Westgate Specific Plan area	$15,000,000		$15,000,000	26.00%	$3,900,190	GP zoning - will serve the future residents based on the GP
Two High-End Ladder Fire Trucks $2 mil each total $4 mil	$4,000,000		$4,000,000	26.00%	$1,040,051	Fire Department's projection to fight fire
Purchase Firecat Swat Vehicle for fire fighting	$1,000,000		$1,000,000	26.00%	$260,013	Fire Department's projection to fight fire
Offsetting Revenue		**$0**	**$0**	26.00%	**$0**	
Total	**$25,000,000**	**$0**	**$25,000,000**		**$6,500,316**	

Source: City of Fontana

APPENDIX B

DEVELOPMENT IMPACT FEES

FONTANA, CALIFORNIA

LIBRARY FACILITIES NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Library Service Facilities (Projects over next 20 years)						
Library Facility Modernization and Expansion	$1,004,936	$0	$1,004,936	26.00%	$261,296	
Facility Improvements and Reconfiguration	$797,568	$0	$797,568	26.00%	$207,378	
Site Circulation	$103,684	$0	$103,684	26.00%	$26,959	
Technology, Infrastructure, and Building enhancements	$7,178,112	$0	$7,178,112	26.00%	$1,866,400	
Growth-servicing library facilities	$311,052	$0	$311,052	26.00%	$80,877	
Offsetting Revenue		**$1,464,571**	**($1,464,571)**	26.00%	**($380,807)**	
Total	**$9,395,351**	**$1,464,571**	**$7,930,780**		**$2,062,103**	

Source: City of Fontana

APPENDIX B

DEVELOPMENT IMPACT FEES

FONTANA, CALIFORNIA

PARK FACILITIES NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Park Facilities (Projects over next 20 years)						
New South Fontana Community Center (Don Day)	$35,000,000	$0	$35,000,000	25.75%	$9,013,535	Parks and Trail Master Plan
Park Improvements	$35,000,000	$0	$35,000,000	25.75%	$9,013,535	Parks and Trail Master Plan
Recreational Trails	$35,000,000	$0	$35,000,000	25.75%	$9,013,535	Parks and Trail Master Plan
Fontana Commons	$30,000,000	$0	$30,000,000	25.75%	$7,725,887	Parks and Trail Master Plan
New Community Center in Core of City (Miller)	$30,000,000	$0	$30,000,000	25.75%	$7,725,887	Parks and Trail Master Plan
Action Park	$7,500,000	$0	$7,500,000	25.75%	$1,931,472	Parks and Trail Master Plan
Security Camera Upgrades	$6,500,000	$0	$6,500,000	25.75%	$1,673,942	Parks and Trail Master Plan
Action Park - Martin Tudor	$10,000,000	$0	$10,000,000	25.75%	$2,575,296	Parks and Trail Master Plan
Miller Amphitheater	$15,000,000		$15,000,000	25.75%	$3,862,944	Parks and Trail Master Plan
Offsetting Revenue		**$9,323,185**	**($9,323,185)**	25.75%		
Total	**$204,000,000**	**$9,323,185**	**$194,676,815**		**$52,536,035**	

Source: City of Fontana

APPENDIX B

DEVELOPMENT IMPACT FEES

FONTANA, CALIFORNIA

LANDSCAPE MEDIANS NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Landscape Medians						
S Highland Ave - 600' Past Citrus to Auto Center Drive Heading East: Construct Raised Landscape Median	$2,400,000	$0	$2,400,000	26.30%	$631,193	Capital Improvement Plan
Valley Blvd. from Bananah Ave. to Cherry Ave.	$1,500,000	$0	$1,500,000	26.30%	$394,495	Capital Improvement Plan
Mulberry Ave. from Santa Ana Ave. to Slover Ave.	$1,500,000	$0	$1,500,000	26.30%	$394,495	Capital Improvement Plan
Arrow Blvd. from Citrus Ave. to Jurupa Ave.	$2,400,000	$0	$2,400,000	26.30%	$631,193	Capital Improvement Plan
Arrow Blvd. from Palmetto Ave. to Alder Ave.	$1,500,000	$0	$1,500,000	26.30%	$394,495	Capital Improvement Plan
Slover Ave. from Jasmine St to Sierra Ave	$14,889,600	$0	$14,889,600	26.30%	$3,915,919	Capital Improvement Plan
Beech Ave. from Slover to Jurupa Ave.	$3,168,000	$0	$3,168,000	26.30%	$833,174	Capital Improvement Plan
Beech Ave. from Baseline Ave. to Miller Ave.	$1,500,000	$0	$1,500,000	26.30%	$394,495	Capital Improvement Plan
Beech Ave. from PE Trail to Foothill Blvd	$630,000	$0	$630,000	26.30%	$165,688	Capital Improvement Plan
Sierra Lakes from San Sevaine to Beach	$1,560,000	$0	$1,560,000	26.30%	$410,275	Capital Improvement Plan
Sierra Lakes from Lytle Creek to Catawba	$1,560,000	$0	$1,560,000	26.30%	$410,275	Capital Improvement Plan
Offsetting Revenue		**$848,043**	**($848,043)**	26.30%	**($223,033)**	
Total	**$32,607,600**	**$848,043**	**$31,759,557**		**$8,352,665**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
LOCAL ARTERIALS NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Local Arterials						
Alder Ave - from 650 feet north of Miller Ave to Miller Ave	$338,000	$0	$338,000	26.30%	$88,893	Capital Improvement Plan
Alder Ave - from 460 feet south of Marygold Ave to Valley Blvd (West Side)	$405,600	$0	$405,600	26.30%	$106,672	Capital Improvement Plan
Fontana Ave from Merrill Ave to Randall Ave	$5,168,000	$0	$5,168,000	26.30%	$1,359,168	Capital Improvement Plan
Fontana Ave from Poplar Ave to San Bernardino Ave	$3,600,000	$0	$3,600,000	26.30%	$946,789	Capital Improvement Plan
Fontana Ave from San Bernardino Ave to Valley Ave	$4,586,000	$0	$4,586,000	26.30%	$1,206,104	Capital Improvement Plan
Knox Ave - from Sierra Lakes Pkwy to S. Highland Ave	$2,448,000	$0	$2,448,000	26.30%	$643,816	Capital Improvement Plan
Locust Ave - from San Jacinto to 320 feet north of Miller Ave	$496,400	$0	$496,400	26.30%	$130,552	Capital Improvement Plan
Locust Ave - from Miller Ave to Foothill Blvd	$1,346,400	$0	$1,346,400	26.30%	$354,099	Capital Improvement Plan
Locust Ave - from Foothill Blvd to 275 feet north of PE Trail	$3,300,000	$0	$3,300,000	26.30%	$867,890	Capital Improvement Plan
Locust Ave - from Arrow Blvd to Metrolink RR	$1,950,000	$0	$1,950,000	26.30%	$512,844	Capital Improvement Plan
Locust Ave - from Metrolink RR to Merrill Ave	$770,000	$0	$770,000	26.30%	$202,508	Capital Improvement Plan
Locust Ave - from Merrill Ave to Randall Ave	$4,080,000	$0	$4,080,000	26.30%	$1,073,027	Capital Improvement Plan
Miller Ave - Date Ave to Cypress Ave	$306,000	$0	$306,000	26.30%	$80,477	Capital Improvement Plan
Miller Ave - 230 feet west of Laurel Ave to Laurel Ave	$156,400	$0	$156,400	26.30%	$41,133	Capital Improvement Plan
Miller Ave - 150 feet east of Laurel Ave to Texas Way	$210,000	$0	$210,000	26.30%	$55,229	Capital Improvement Plan
Miller Ave - Locust Ave to Maple Ave	$980,000	$0	$980,000	26.30%	$257,737	Capital Improvement Plan
Randall Ave. from Lime Ave. to Fontana Ave.	$2,590,000	$0	$2,590,000	26.30%	$681,162	Capital Improvement Plan
Randall Ave from Laurel Ave to Locust Ave (North side)	$1,280,000	$0	$1,280,000	26.30%	$336,636	Capital Improvement Plan
Randall Ave from 650 feet east of Locust Ave to Maple Ave (North side)	$650,000	$0	$650,000	26.30%	$170,948	Capital Improvement Plan
Valley Blvd. Banana to Almond	$1,088,000	$0	$1,088,000	26.30%	$286,141	Capital Improvement Plan
Offsetting Revenue		**$97,229**	**($97,229)**	26.30%	**($25,571)**	
Subtotal	**$35,748,800**	**$97,229**	**$35,651,571**		**$9,376,253**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
ACTIVE TRANSPORTATION NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Local Arterials						
CLASS I SHARED-USE PATHS						
San Bernardino County Parcel from Southern California Edison Utility North to Riverside Ave	$10,240,112	$0	$10,240,112	26.30%	$2,693,118	Capital Improvement Plan
Southern California Edison Utility North Spur I from Bridlepath Dr to SCE Utility North Spur II	$5,217,850	$0	$5,217,850	26.30%	$1,372,279	Capital Improvement Plan
Connector Path from Wilson Ave to Southern California Edison Utility North Spur I	$1,630,542	$0	$1,630,542	26.30%	$428,827	Capital Improvement Plan
Southern California Edison Utility North from East Ave to Sierra Ave	$21,197,626	$0	$21,197,626	26.30%	$5,574,910	Capital Improvement Plan
SR-210 Drainage (South) from Victoria Ave to Knox Ave	$8,087,756	$0	$8,087,756	26.30%	$2,127,055	Capital Improvement Plan
SR-210 Drainage (North) from San Sevaine Rd to Knox Ave	$3,261,230	$0	$3,261,230	26.30%	$857,693	Capital Improvement Plan
San Sevaine Trail Extension from Pacific Electric Trail to Victoria Ave	$1,630,542	$0	$1,630,542	26.30%	$428,827	Capital Improvement Plan
Metrolink Trail from Catawba Ave to Maple Ave	$9,881,264	$0	$9,881,264	26.30%	$2,598,742	Capital Improvement Plan
San Sevaine Trail (South) from Philadelphia Ave to 1-10 Freeway	$8,152,854	$0	$8,152,854	26.30%	$2,144,176	Capital Improvement Plan
Southern California Edison Utility South I from San Sevaine Trail to Rancherias Dr	$2,608,925	$0	$2,608,925	26.30%	$686,139	Capital Improvement Plan
Southern California Edison Utility South II from Live Oak Ave to Poplar Ave	$3,587,309	$0	$3,587,309	26.30%	$943,451	Capital Improvement Plan
Southern California Edison Utility South III form Catawba Park to Locust Av	$9,783,542	$0	$9,783,542	26.30%	$2,573,041	Capital Improvement Plan
Subtotal	**$85,279,551**					
CLASS II BIKE LANES						
Sierra Ave (Central) from Foothill Blvd to Merrill Ave	$347,437	$0	$347,437	26.30%	$91,375	Capital Improvement Plan
Valley Blvd from Banana Ave to Alder Ave	$781,771	$0	$781,771	26.30%	$205,603	Capital Improvement Plan
Alder Ave (North) from Shamrock to Randall Ave	$437,844	$0	$437,844	26.30%	$115,152	Capital Improvement Plan
Cypress Ave (South) from Slover Ave to Southern California Edison Utility P	$86,896	$0	$86,896	26.30%	$22,853	Capital Improvement Plan
Juniper Ave (Central) from Foothill Ave to Merrill Ave	$173,792	$0	$173,792	26.30%	$45,707	Capital Improvement Plan
Jurupa Ave from Etiwanda Ave to Like Oak Ave	$564,677	$0	$564,677	26.30%	$148,508	Capital Improvement Plan
Merrill Ave from Catawba Ave to Maple Ave	$521,229	$0	$521,229	26.30%	$137,082	Capital Improvement Plan
Miller Ave from Beech Ave to Maple Ave	$654,938	$0	$654,938	26.30%	$172,247	Capital Improvement Plan
Fontana Ave from Athol Ave to Randall Ave	$65,977	$0	$65,977	26.30%	$17,352	Capital Improvement Plan
Live Oak Ave from Jurupa Ave to Fernwood Way	$52,079	$0	$52,079	26.30%	$13,697	Capital Improvement Plan
Mulberry Ave from Jurupa Ave to Philadelphia Ave	$175,547	$0	$175,547	26.30%	$46,168	Capital Improvement Plan
Poplar Ave (South) from Boyle St to Beech Ave	$303,989	$0	$303,989	26.30%	$79,948	Capital Improvement Plan
Randall Ave from Lime Ave to Catawba Ave	$477,781	$0	$477,781	26.30%	$125,655	Capital Improvement Plan
Randall Ave from Juniper Ave to Palmetto Ave	$955,658	$0	$955,658	26.30%	$251,335	Capital Improvement Plan
San Bernardino Ave from Fontana Ave to Catawba Ave	$483,048	$0	$483,048	26.30%	$127,040	Capital Improvement Plan
San Bernardino Ave from Juniper Ave to Alder Ave	$1,209,723	$0	$1,209,723	26.30%	$318,153	Capital Improvement Plan
Sierra Ave from Jurupa Ave to South City Border	$172,036	$0	$172,036	26.30%	$45,245	Capital Improvement Plan
Slover Ave from San Sevaine Trail to Sierra Ave	$781,771	$0	$781,771	26.30%	$205,603	Capital Improvement Plan
Mango Ave (Central) from Foothill Blvd to Merrill Ave	$173,792	$0	$173,792	26.30%	$45,707	Capital Improvement Plan
Subtotal	**$8,419,984**					
CLASS IV SEPARATED BIKEWAY CONSTRUCTION						
Slover Ave from Sierra Ave to Tamarind Ave	$151,995	$0	$151,995	26.30%	$39,974	Capital Improvement Plan
Sierra Ave (South) from Slover Ave to Jurupa Ave	$407,270	$0	$407,270	26.30%	$107,111	Capital Improvement Plan
Jurupa Ave from Live Oak Ave to Sierra Ave	$526,788	$0	$526,788	26.30%	$138,544	Capital Improvement Plan
Citrus Ave (South) from Slover Ave to Jurupa Ave	$243,133	$0	$243,133	26.30%	$63,943	Capital Improvement Plan
Subtotal	**$1,329,185**					
Offsetting Revenue		**$173,776**	**($173,776)**	26.30%	**($45,703)**	
Total	**$95,028,721**	**$173,776**	**$94,854,945**		**$24,946,558**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
TRAFFIC SIGNALS NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Traffic Signals						
SIERRA RIVERSIDE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
MERRILL AVE CYPRESS AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
VALLEY BLVD BEECH AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
BASELINE AVE TAMARIND AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
VALLEY BLVD ELM AVENUE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SLOVER AVE HEMLOCK AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
LIVE OAK AVE VILLAGE DR	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
FOOTHILL BLVD BEECH AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
BEECH AVE SR-210	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
CHERRY AVE BANANA AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
BEECH AVE MILLER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
ARROW BLVD LAUREL AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
ALDER AVE MARYGOLD AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SANTA ANA AVEALMOND AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SAN BERNARDINO OLEANDER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SAN BERNARDINO MANGO AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SAN BERNARDINO CATAWBA AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
CHERRY AVE VILLAGE DR	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SOUTH HIGHLAND JUNIPER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SLOVER AVE POPLAR AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
MILLER AVE LOCUST AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SLOVER AVE BANANA AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
CHERRY AVE SUMMIT AVENUE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
RANDALL AVE MANGO AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
RANDALL AVE FONTANA AVE/CATAWBA	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
JUNIPER AVE VALENCIA AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
MILLER AVE MANGO AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SLOVER AVE ELM AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SOUTH HIGHLAND ALMERIA AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SOUTH HIGHLAND KNOX AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
MILLER AVE JUNIPER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
RANDALL AVE CYPRESS AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
BEECH AVE WALNUT AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
WALNUT AVE JUNIPER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
RANDALL AVE OLEANDER AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
BEECH AVE KRISTINE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SUMMIT AVE CYPRESS AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SANTA ANA AVE ALMOND AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
MARLAY AVE PACIFIC AVE	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
CYPRESS AVE WALNUT STREET	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SOUTH HERITAGE WEST LIBERTY PKWY	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
SOUTH HERITAGE EAST LIBERTY PKWY	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
RANDALL AVE PEPPER ST	$1,000,000	$0	$1,000,000	26.30%	$262,997	Future Traffic Signals Master Plan
Offsetting Revenue		**$45,315**	**($45,315)**	26.30%	**($11,918)**	Future Traffic Signals Master Plan
Total	**$43,000,000**	**$45,315**	**$42,954,685**		**$11,296,950**	

Source: City of Fontana

APPENDIX B

DEVELOPMENT IMPACT FEES

FONTANA, CALIFORNIA

STORM DRAIN FACILITIES NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Storm Drain Facilities						
AOS 1	$898,928,000	$0	$898,928,000	24.23%	$217,841,812	
AOS 2	$131,702,000	$0	$131,702,000	24.23%	$31,916,018	
AOS 3	$137,433,000	$0	$137,433,000	24.23%	$33,304,841	
Offsetting Revenue		$13,869,013	($13,869,013)	24.23%	($3,360,949)	
Total	**$1,168,063,000**	**$13,869,013**	**$1,154,193,987**		**$279,701,722**	

Source: City of Fontana

APPENDIX B
DEVELOPMENT IMPACT FEES
FONTANA, CALIFORNIA
SEWER NEEDS LIST THROUGH 2043

Facility Name		Total Cost for Facility [1]	Off-setting Revenues	Net Cost to City	Percent of Cost Allocated to New Development	Cost Allocated to New Development	Policy Background or Objective
Sewer Facilities							
Diversion Structures							
San Bernardino Ave and Citrus Ave		$0	$0	$0	26.30%	$0	
San Bernardino Ave and Poplar Ave		$0	$0	$0	26.30%	$0	
Cypress Ave and Baseline Ave		$0	$0	$0	26.30%	$0	
Palmetto Ave and Valley Blvd		$148,800	$0	$148,800	26.30%	$39,134	
Alder Ave and Hawthorne Ave		$148,800	$0	$148,800	26.30%	$39,134	
	Subtotal	**$297,600**					
Pipelines							
Alder Ave. and Hawthorne Ave		$777,713	$0	$777,713	26.30%	$204,536	
Granada Ave. and Alder Ave.		$2,831,850	$0	$2,831,850	26.30%	$744,768	
Marygold Ave. and Palmetto Ave.		$906,750	$0	$906,750	26.30%	$238,472	
Juniper Ave. and Randall Ave.		$2,480,775	$0	$2,480,775	26.30%	$652,436	
Oleander Ave. and Orange Way		$830,025	$0	$830,025	26.30%	$218,294	
Gravity Collectors and Local Street Sewer Improvements		$13,078,125	$0	$13,078,125	26.30%	$3,439,506	
Downtown Core		$9,150,038	$0	$9,150,038	26.30%	$2,406,432	
Westgate SP Phase 1		$2,501,700	$0	$2,501,700	26.30%	$657,939	
Westgate SP Phase 2		$1,970,438	$0	$1,970,438	26.30%	$518,219	
Arboretum SP		$754,463	$0	$754,463	26.30%	$198,421	
Tamarind Ave. and Grevillea St.		$1,479,863	$0	$1,479,863	26.30%	$389,199	
Alder Ave. and Pine Ave.		$1,499,625	$0	$1,499,625	26.30%	$394,397	
Maple Ave		$7,387,688	$0	$7,387,688	26.30%	$1,942,939	
Gravity Collectors and Local Street Sewer Improvements		$13,078,125	$0	$13,078,125	26.30%	$3,439,506	
	Subtotal	**$58,727,175**					
Lift Stations							
Southridge Lift Station		$4,650,000	$0	$4,650,000	26.30%	$1,222,936	
Tamarind		$3,487,500	$0	$3,487,500	26.30%	$917,202	
11th St and Linden Lift Station		$3,487,500	$0	$3,487,500	26.30%	$917,202	
	Subtotal	**$11,625,000**					
Offsetting Revenue			**$0**	**$0**	26.30%	**$0**	
Total		**$70,649,775**	**$0**	**$70,649,775**		**$18,580,673**	

Source: City of Fontana
[1] Includes 6.25% to account for cost increase from Dec 2023 to Dec 2025 per California Construction Cost Index, and 10% to account for Administration and Environmental costs related to the project.

APPENDIX C

City of Fontana
DRAFT Development Impact Fee Justification Study

CITY OF FONTANA CAPITAL IMPROVEMENT LIST

City of Fontana Capital Improvement List

2026-2027

The City's Capital Improvement Program (CIP) identifies the public infrastructure necessary to accommodate future growth while maintaining the level of service established by the City Council. The CIP serves as the planning and implementation framework for the City's Development Impact Fee (DIF) Program and identifies the public facilities reasonably required to mitigate the impacts generated by future development.

The projects included in this Capital Improvement Program (CIP) have been evaluated to determine whether they are reasonably related to the anticipated growth identified in the City's General Plan, Specific Plans, Housing Element, Transportation Plans, Storm Drain and Sewer Master Plans, Parks Master Plan, and other adopted planning documents. The CIP also incorporates recommendations derived from engineering studies, traffic analyses, utility and infrastructure assessments, and other technical and administrative information developed by City staff and professional consultants. Following review and consideration by the City Council, this CIP serves as the City's official long-range planning document for identifying public infrastructure improvements needed to accommodate future growth, maintain adopted levels of service, preserve public assets, enhance public safety, and support the community's long-term development objectives.

The Capital Improvement Program (CIP) is intended to serve as the technical foundation supporting the City's Development Impact Fee Nexus Study and will be periodically reviewed and updated to reflect changes in development projections, construction costs, adopted planning documents, completed projects, funding availability, and applicable legal requirements. Because future development patterns, travel demand, funding opportunities, and infrastructure needs are inherently uncertain, the CIP does not identify specific construction schedules or anticipated completion dates for individual projects. Project implementation will be prioritized and scheduled based on development activity, available funding, operational needs, engineering evaluations, and City Council direction.

The inclusion of a project in this CIP does not constitute a determination that the project currently satisfies all applicable engineering criteria, operational thresholds, regulatory requirements, or warrants for construction. Rather, the CIP identifies public infrastructure improvements that may become necessary to accommodate future growth and maintain the City's adopted level-of-service objectives. Individual projects—including, but not limited to, traffic signals, intersection improvements, roadway widenings, and other transportation facilities—will be subject to separate engineering analyses, warrant evaluations, environmental review, funding availability, and all applicable federal, state, and local approval requirements before design or construction is authorized.

PUBLIC FACILITIES NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
Corporate Yard Expansion (Public Works North yard)	$30,000,000
Proposed Parking Structure (Metro Station - 1,500 spaces)	$70,000,000
City Hall (Phase III Expansion – Energy Efficiency & Sustainability Project)	$10,000,000

POLICE FACILITIES NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
Police Department – add 3,300/sq ft TI work for additional PDs	$40,000
Police Department Secure Parking Structure	$40,000
Police Sub Station - North end of town 2000 sq ft	$5,000,000
Police Hangar for Helicopter storage	$6,000,000
Command Post 50 ft motor home increase the size	$650,000
Police Black & White Vehicles - Fleet increase 1 vehicle per every 3 officers (30 officers)	$1,000,000
Armored Vehicle	$400,000
Helicopter (for high wind situation)	$5,000,000
Motorcycles ($45,000 each x 10)	$450,000
Property Office Site Storage facility 2500 sq ft	$0
Police Substation (Metrolink)	$10,000,000

FIRE FACILITIES NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
Station 77 Expansion to the neighboring lot with addition of apparatus bays and dorm rooms	$5,000,000

Construction of Phase 2 station 80 fire station once development begins in Westgate Specific Plan area	$12,000,000
Two High-End Ladder Fire Trucks $2 mil each total $4 mil to support additional population	$4,000,000
Purchase Firecat Swat Vehicle for fire fighting	$1,000,000

LIBRARY FACILITIES NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
Library Facility Modernization and Expansion (STEAM Learning Center)	$1,004,936
Facility Improvements and Reconfiguration (STEAM Learning Center)	$797,568
Site Circulation	$103,684
Technology, Infrastructure, and Building enhancements (STEAM Learning Center)	$7,178,112
Growth-servicing library facilities	$311,052

PARKS FACILITIES NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
New South Fontana Community Center (Don Day)	$35,000,000
Park Improvements – See Park and Recreational Trail Master Plan	$35,000,000
Recreational Trails – See Park and Recreational Trail Master Plan	$35,000,000
New Community Center in Core of City (Miller)	$30,000,000
Action Park - North or Mid portion of Fontana	$7,500,000
Security Camera Upgrades	$6,500,000
Action Park – Martin Tudor	$10,000,000
Millar Amphitheater	$15,000,000

LANDSCAPE MEDIANS NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
S Highland Ave - 600' Past Citrus to Auto Center Drive Heading East: Construct Raised Landscape Median	$2,400,000
Valley Blvd. from Banana Ave. to Cherry Ave.	$1,500,000
Mulberry Ave. from Santa Ana Ave. to Slover Ave.	$1,500,000
Arrow Blvd. from Citrus Ave. to Jurupa Ave.	$2,400,000
Arrow Blvd. from Palmetto Ave. to Alder Ave.	$1,500,000
Slover Ave. from Jasmine St to Sierra Ave	$14,889,600
Beech Ave. from Slover to Jurupa Ave.	$3,168,000
Beech Ave. from Baseline Ave. to Miller Ave.	$1,500,000
Beech Ave. from PE Trail to Foothill Blvd	$630,000
Sierra Lakes from San Sevaine to Beach	$1,560,000
Sierra Lakes from Lytle Creek to Catawba	$1,560,000

LOCAL ARTERIALS NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility
Alder Ave - from 650 feet north of Miller Ave to Miller Ave	$338,000
Alder Ave - from 460 feet south of Marygold Ave to Valley Blvd (West Side)	$405,600
Fontana Ave from Merrill Ave to Randall Ave	$5,168,000
Fontana Ave from Poplar Ave to San Bernardino Ave	$3,600,000
Fontana Ave from San Bernardino Ave to Valley Ave	$4,586,000
Knox Ave - from Sierra Lakes Pkwy to S. Highland Ave	$2,448,000
Locust Ave - from San Jacinto to 320 feet north of Miller Ave	$496,400

Locust Ave - from Miller Ave to Foothill Blvd	$1,346,400
Locust Ave - from Foothill Blvd to 275 feet north of PE Trail	$3,300,000
Locust Ave - from Arrow Blvd to Metrolink RR	$1,950,000
Locust Ave - from Metrolink RR to Merrill Ave	$770,000
Locust Ave - from Merrill Ave to Randall Ave	$4,080,000
Miller Ave - Date Ave to Cypress Ave	$306,000
Miller Ave - 230 feet west of Laurel Ave to Laurel Ave	$156,400
Miller Ave - 150 feet east of Laurel Ave to Texas Way	$210,000
Miller Ave - Locust Ave to Maple Ave	$980,000
Randall Ave. from Lime Ave. to Fontana Ave.	$2,590,000
Randall Ave from Laurel Ave to Locust Ave (North side)	$1,280,000
Randall Ave from 650 feet east of Locust Ave to Maple Ave (North side)	$650,000
Valley Blvd. Banana to Almond	$1,088,000

ACTIVE TRANSPORTATION NEEDS LIST THROUGH 2043

Facility Name (Projects over next 20 yrs)	Total Cost for Facility
CLASS I SHARED-USE PATHS	
San Bernardino County Parcel from Southern California Edison Utility North to Riverside Ave	$10,240,112
Southern California Edison Utility North Spur I from Bridlepath Dr to SCE Utility North Spur II	$5,217,850
Connector Path from Wilson Ave to Southern California Edison Utility North Spur I	$1,630,542
Southern California Edison Utility North from East Ave to Sierra Ave	$21,197,626
SR-210 Drainage (South) from Victoria Ave to Knox Ave	$8,087,756
SR-210 Drainage (North) from San Sevaine Rd to Knox Ave	$3,261,230
San Sevaine Trail Extension from Pacific Electric Trail to Victoria Ave	$1,630,542

Metrolink Trail from Catawba Ave to Maple Ave	$9,881,264
San Sevaine Trail (South) from Philadelphia Ave to 1-10 Freeway	$8,152,854
Southern California Edison Utility South I from San Sevaine Trail to Rancherias Dr	$2,608,925
Southern California Edison Utility South II from Live Oak Ave to Poplar Ave	$3,587,309
Southern California Edison Utility South III from Catawba Park to Locust Ave	$9,783,542

CLASS II BIKE LANES

Sierra Ave (Central) from Foothill Blvd to Merrill Ave	$347,437
Valley Blvd from Banana Ave to Alder Ave	$781,771
Alder Ave (North) from Shamrock to Randall Ave	$437,844
Cypress Ave (South) from Slover Ave to Southern California Edison Utility Path	$86,896
Juniper Ave (Central) from Foothill Ave to Merrill Ave	$173,792
Jurupa Ave from Etiwanda Ave to Live Oak Ave	$564,677
Merrill Ave from Catawba Ave to Maple Ave	$521,229
Miller Ave from Beech Ave to Maple Ave	$654,938
Fontana Ave from Athol Ave to Randall Ave	$65,977
Live Oak Ave from Jurupa Ave to Fernwood Way	$52,079
Mulberry Ave from Jurupa Ave to Philadelphia Ave	$175,547
Poplar Ave (South) from Boyle St to Beech Ave	$303,989
Randall Ave from Lime Ave to Catawba Ave	$477,781
Randall Ave from Juniper Ave to Palmetto Ave	$955,658
San Bernardino Ave from Fontana Ave to Catawba Ave	$483,048
San Bernardino Ave from Juniper Ave to Alder Ave	$1,209,723
Sierra Ave from Jurupa Ave to South City Border	$172,036

Slover Ave from San Sevaine Trail to Sierra Ave	$781,771
Mango Ave (Central) from Foothill Blvd to Merrill Ave	$173,792

CLASS IV SEPARATED BIKEWAY CONSTRUCTION

Slover Ave from Sierra Ave to Tamarind Ave	$151,995
Sierra Ave (South) from Slover Ave to Jurupa Ave	$407,270
Jurupa Ave from Live Oak Ave to Sierra Ave	$526,788
Citrus Ave (South) from Slover Ave to Jurupa Ave	$243,133

TRAFFIC SIGNALS NEEDS LIST THROUGH 2043

Facility Name	Total Cost for Facility
SIERRA RIVERSIDE	$1,000,000
MERRILL AVE CYPRESS AVE	$1,000,000
VALLEY BLVD BEECH AVE	$1,000,000
BASELINE AVE TAMARIND AVE	$1,000,000
VALLEY BLVD ELM AVENUE	$1,000,000
SLOVER AVE HEMLOCK AVE	$1,000,000
LIVE OAK AVE VILLAGE DR	$1,000,000
FOOTHILL BLVD BEECH AVE	$1,000,000
BEECH AVE SR-210	$1,000,000
CHERRY AVE BANANA AVE	$1,000,000
BEECH AVE MILLER AVE	$1,000,000
ARROW BLVD LAUREL AVE	$1,000,000
ALDER AVE MARYGOLD AVE	$1,000,000

SANTA ANA AVE ALMOND AVE	$1,000,000
SAN BERNARDINO OLEANDER AVE	$1,000,000
SAN BERNARDINO MANGO AVE	$1,000,000
SAN BERNARDINO CATAWBA AVE	$1,000,000
CHERRY AVE VILLAGE DR	$1,000,000
SOUTH HIGHLAND JUNIPER AVE	$1,000,000
SLOVER AVE POPLAR AVE	$1,000,000
MILLER AVE LOCUST AVE	$1,000,000
SLOVER AVE BANANA AVE	$1,000,000
CHERRY AVE SUMMIT AVENUE	$1,000,000
RANDALL AVE MANGO AVE	$1,000,000
RANDALL AVE FONTANA AVE/CATAWBA	$1,000,000
JUNIPER AVE VALENCIA AVE	$1,000,000
MILLER AVE MANGO AVE	$1,000,000
SLOVER AVE ELM AVE	$1,000,000
SOUTH HIGHLAND ALMERIA AVE	$1,000,000
SOUTH HIGHLAND KNOX AVE	$1,000,000
MILLER AVE JUNIPER AVE	$1,000,000
RANDALL AVE CYPRESS AVE	$1,000,000
BEECH AVE WALNUT AVE	$1,000,000
WALNUT AVE JUNIPER AVE	$1,000,000
RANDALL AVE OLEANDER AVE	$1,000,000
BEECH AVE KRISTINE	$1,000,000
SUMMIT AVE CYPRESS AVE	$1,000,000

SANTA ANA AVE ALMOND AVE	$1,000,000
MARLAY AVE PACIFIC AVE	$1,000,000
CYPRESS AVE WALNUT STREET	$1,000,000
SOUTH HERITAGE WEST LIBERTY PKWY	$1,000,000
SOUTH HERITAGE EAST LIBERTY PKWY	$1,000,000
RANDALL AVE PEPPER ST	$1,000,000

SEWER NEEDS LIST THROUGH 2043

YEAR 0 TO YEAR 5

Facility Name	Proj. ID	Description of Improvement	Est. Proj. Cost
Diversion Structures			
San Bernardino Ave and Citrus Ave (1)	-	Change diversion of splitter box. Reconfigure flow direction westerly (MH ID: I24_70)	$0
San Bernardino Ave and Poplar Ave (1)	-	Change diversion of splitter box. Reconfigure flow direction westerly (MH ID: H24_88)	$0
Cypress Ave and Baseline Ave (1)	-	Change diversion of splitter box. Reconfigure flow direction westerly (MH ID: I26_28)	$0
Palmetto Ave and Valley Blvd	H-1	Install diversion stop plate to divert flow into southerly parallel line	$128,000
Alder Ave and Hawthorne Ave	H-3	Install diversion structure to split half flow into Hawthorne Ave and half into Alder Ave	$128,000
Pipelines			
Alder Ave and Hawthorne Ave	H-2	Replace ±1,350 LF of 6" dia. pipe with 10" dia. pipe	$669,000
Granada Ave and Alder Ave	H-4	Replace ±2,400 LF of 8"-12" dia. pipe with 12" and 15" dia. pipe	$2,436,000
Marygold Ave and Palmetto Ave	H-5	Replace ±1,300 LF of 10" dia. pipe with 15" dia. pipe	$780,000
Juniper Ave and Randall Ave	H-6	Replace ±2,650 LF of 18" dia. pipe with 24" dia. pipe	$2,134,000
Oleander Ave and Orange Way	H-7	Lower invert elevation of manhole L21_22 to increase slope and maximize pipe capacity prior to RR crossing. Replace ±1,000 LF of 12"	$714,000

		dia. pipe and ±300 LF of 10" dia. pipe.	
Gravity Collectors and Local Street Sewer Imprv.	-	Proposed 25,000 LF of 8" dia. Pipe	$11,250,000
Downtown Core	-	Refer to Appendix A	$7,871,000

* Apply 10% of Admin and Env Cost to the project

* Apply 6.25% of cost increase from Dec 2023 to Dec 2025 per California Construction Cost Index

SEWER NEEDS LIST THROUGH 2043

YEAR 6 TO YEAR 20

Facility Name	Proj. ID	Description of Improvement	Est. Proj. Cost
Pipelines			
Westgate SP Phase 1	H-8	Proposed ±2,520 of 10" dia. and 1,600± of 12" dia. backbone piping for Westgate SP	$2,152,000
Westgate SP Phase 2	H-9	Proposed ±3,000 of 12" dia. backbone piping for Westgate SP	$1,695,000
Arboretum SP	H-10	Proposed ±1,310 of 10" dia. backbone piping for Arboretum Specific Plan	$649,000
Tamarind Ave. and Grevillea St.	H-11	Replace ±1,900 LF of 15" dia. pipe with 18" dia. pipe	$1,273,000
Alder Ave and Pine Ave	H-12	Replace ±2,150 LF of 12" dia. pipe with 15" dia. pipe	$1,290,000
Maple Ave	S-2	Proposed ±2,650 LF of 15" dia. pipe, ±2,650 LF of 12" dia. pipe, and ±6,600 of 10" dia. pipe	$6,355,000
Gravity Collectors and Local Street Sewer Improv.	-	Proposed 25,000 LF of 8" dia. Pipe	$11,250,000
Lift Stations			
Southridge Lift Station	-	Proposed 2.0 MGD LS (1.7 MGD firm capacity)	$4,000,000
Tamarind	L-1	Proposed 1.7 MGD LS (1.3 MGD firm capacity)	$3,000,000
11th St and Linden Lift Station	IDI development	Treating IDI development Sewer - Lift Station	$3,000,000

* Apply 10% of Admin and Env Cost to the project

* Apply 6.25% of cost increase from Dec 2023 to Dec 2025 per California Construction Cost Index

PARKS FACILITIES NEEDS LIST THROUGH 2043

I. Park Improvements (Existing Parks)

	Construction Costs	A&E Costs	Total Costs	Priority Level
Almeria Park			**$385,000**	
2 new ADA inclusive Playground Structures	$350,000	$35,000		High
Cambria Park			**$605,000**	
Playground Shade Structure	$150,000	$15,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
New Park Gazebo	$150,000	$15,000		Low
Catawba Park			**$440,000**	
New Restrooms	$300,000	$30,000		High
Resurface Parking	$100,000	$10,000		Low
Chaparral Park			**$753,500**	
Shelter Roof Renovation	$85,000	$8,500		Moderate
New Restroom	$300,000	$30,000		High
New ADA Inclusive Playground w/ shade Structure	$300,000	$30,000		Moderate
Condor Park			**$165,000**	
Full coverage playground shade structure	$150,000	$15,000		Moderate
Coyote Canyon Park			**$1,419,000**	
Add shade at ballfield dugouts (6)	$150,000	$15,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
Replace rubber playground safety surfacing	$80,000	$8,000		Low
Add shade for ballfield spectator areas (6)	$360,000	$36,000		Low
Ballfield Score Boards (3)	$450,000	$45,000		Moderate
Fiesta Park			**$412,500**	
Playground Shade Structure	$100,000	$10,000		High
Replace rubber playground safety surfacing	$75,000	$7,500		High
New ADA Inclusive Playground Structure	$200,000	$20,000		Low
Fontana Park			**$330,000**	
Shaded spectator areas for the pool deck (2)	$300,000	$30,000		Low
Dr. Charles Koehler Park			**$572,000**	
ADA Playground w/ shade & Improvements	$400,000	$40,000		Moderate
Resurface Parking Lot	$120,000	$12,000		Low
Heritage Circle Park			**$731,000**	
Security Lighting	$200,000	$20,000		High
Renovate Restroom	$150,000	$15,000		High
Fitness Trail	$200,000	$36,000		Moderaate
New Park Gazebo	$100,000	$10,000		High
Heritage Tot Lot West			**$385,000**	
Playground Shade Structure	$100,000	$10,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
Hunter's Ridge			**$632,500**	
Snack Bar Roof Improvement	$100,000	$10,000		Moderate
Resurface Parking Lot	$120,000	$12,000		Low
Add Shade at Ballfield Dugouts (2)	$30,000	$3,000		High
Full Coverage Playground Shade Structure	$150,000	$15,000		Low
Add shade for ballfield spectator areas (2)	$175,000	$17,500		Low
Martin Tudor Regional Park			**$3,135,000**	
Park Rehabilitation	$450,000	$45,000		High
Resurface Parking Lot	$100,000	$10,000		High
Sewer Extension	$300,000	$30,000		High
Playground Shade Structure	$150,000	$15,000		High
Replace rubber playground safety surfacing	$100,000	$10,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		High
Bicycle Pump Track Action Park	$1,500,000	$150,000		High
Jurupa Hills Open space Park			**$330,000**	
Hillside Stabilization above the splash Pad	$200,000	$20,000		Low
Wilderness Trails	$100,000	$10,000		Moderate

PARKS FACILITIES NEEDS LIST
THROUGH 2043

Mary Vagle Museum and Nature Center			**$165,000**	
Resurface Existing Parking Lot	$150,000	$15,000		High
McDermott Sports Park			**$385,000**	
Playground Shade Structure	$150,000	$15,000		High
ADA Playground Structure	$200,000	$20,000		High
McDermott Soccer Park			**$2,787,500**	
Replace Fence	$225,000	$22,500		High
Resurface Parking Lot	$150,000	$15,000		Low
Shade Structures	$250,000	$25,000		Moderate
Artifical Turf	$2,000,000	$100,000		Low
Miller Park			**$20,460,000**	
New outdoor pool facility	$2,500,000	$250,000		Low
New Indoor Pool Facility	$400,000	$40,000		Low
Gymnasium with two indoor basketball courts Courts	$15,000,000	$1,500,000		Low
Indoor racketball courts	$300,000	$30,000		Low
Amphitheature seating with Dance Area	$400,000	$40,000		Low
North Heritage Park			**$687,500**	
Playground Shade Structure	$150,000	$15,000		High
Replace rubber playground safety surfacing	$75,000	$7,500		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
Lighting	$150,000	$15,000		High
North Tamarind Park			**$110,000**	
ADA sidewalk improvements	$100,000	$10,000		High
Oak Park			**$825,000**	
Restroom Improvement	$150,000	$15,000		High
Security Lights	$150,000	$15,000		High
Shelter Roof	$50,000	$5,000		Moderate
Playground Shade Structure	$150,000	$15,000		Moderate
New ADA Inclusive Playground Structure	$250,000	$25,000		Moderate
Patricia Marrujo Park			**$770,000**	
Playground Shade Structures (2)	$200,000	$20,000		Moderate
New ADA Inclusive Playground Structure	$250,000	$25,000		Moderate
New Park Gazebos (2)	$250,000	$25,000		Moderate
Patricia Murry Park			**$550,000**	
Playground Shade Structure	$100,000	$10,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Moderate
New Park Gazebo (2)	$150,000	$15,000		Moderate
Ralph M. Lewis Park			**$704,000**	
New Football Goal Posts with Catch Net Systems(8)	$640,000	$64,000		High
Rosena East Park			**$1,210,000**	
Playground Shade Structures (2)	$400,000	$40,000		High
New Park Gazebo	$100,000	$10,000		Low
New ADA Inclusive Playground Structures (2)	$600,000	$60,000		Low
Rosena West Park			**$528,000**	
Playground Shade Structure	$150,000	$15,000		High
Replace rubber playground safety surfacing	$80,000	$8,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
San Sevaine			**$715,000**	
Resurface Parking Lot	$200,000	$20,000		Low
Full Coverage Playground Shade Structure	$150,000	$15,000		Low
Upgrade Existing Park Exercise Equipment	$150,000	$15,000		Low
New Park Gazebo	$150,000	$15,000		Low
Seville Park			**$880,000**	
Resurface Parking Lot	$100,000	$10,000		Low
Remove the old amphitheater and stage	$150,000	$15,000		Low
New Pickle Ball Courts (4)	$400,000	$40,000		Low
ADA sidewalk improvements	$150,000	$15,000		Low
Shadow Park			**$440,000**	
Playground Shade Structure	$150,000	$15,000		Moderate
New ADA Playground Improvements	$250,000	$25,000		Moderate

PARKS FACILITIES NEEDS LIST THROUGH 2043

Southridge Park and Don Day Community Center			**$715,000**	
Resurface Existing Parking Lot	$100,000	$10,000		Low
Shade for Ballfield Spectator Areas (4)	$300,000	$30,000		Low
New ADA Inclusive Playground Structure	$250,000	$25,000		Low
Sycamore Hills Park			**$605,000**	
Playground Shade Structure (2)	$300,000	$30,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		High
Village Park			**$1,630,000**	
Playground Shade Structure	$150,000	$15,000		High
Replace roof on Park Gazebo	$100,000	$10,000		High
Shade for Ballfield Spectator Areas (4)	$250,000	$25,000		High
New ADA Inclusive Playground Structure	$250,000	$25,000		Moderate
Expand Parking	$250,000	$25,000		Moderate
ADA sidewalk improvements	$50,000	$150,000		Moderate
Ballfield Score Boards(3)	$300,000	$30,000		Moderate
VOH Pool Facility			**$330,000**	
Spectator Shade Structure (2)	$300,000	$30,000		High
General Park Camera Based Security for Parks			**$165,000**	
Annual Security up grades to parks	$150,000	$15,000		High
	$40,815,000	**$4,142,500**	**$44,957,500**	

II. New Community Facilities

	Sq. Ft.	Construction Costs	A&E Costs	Total Costs	Priority Level
		$650.00 /SF			
Renovated Don Day Community Center				**$28,080,000**	
	40,000	$26,000,000	$2,080,000		Moderate
				$28,080,000	

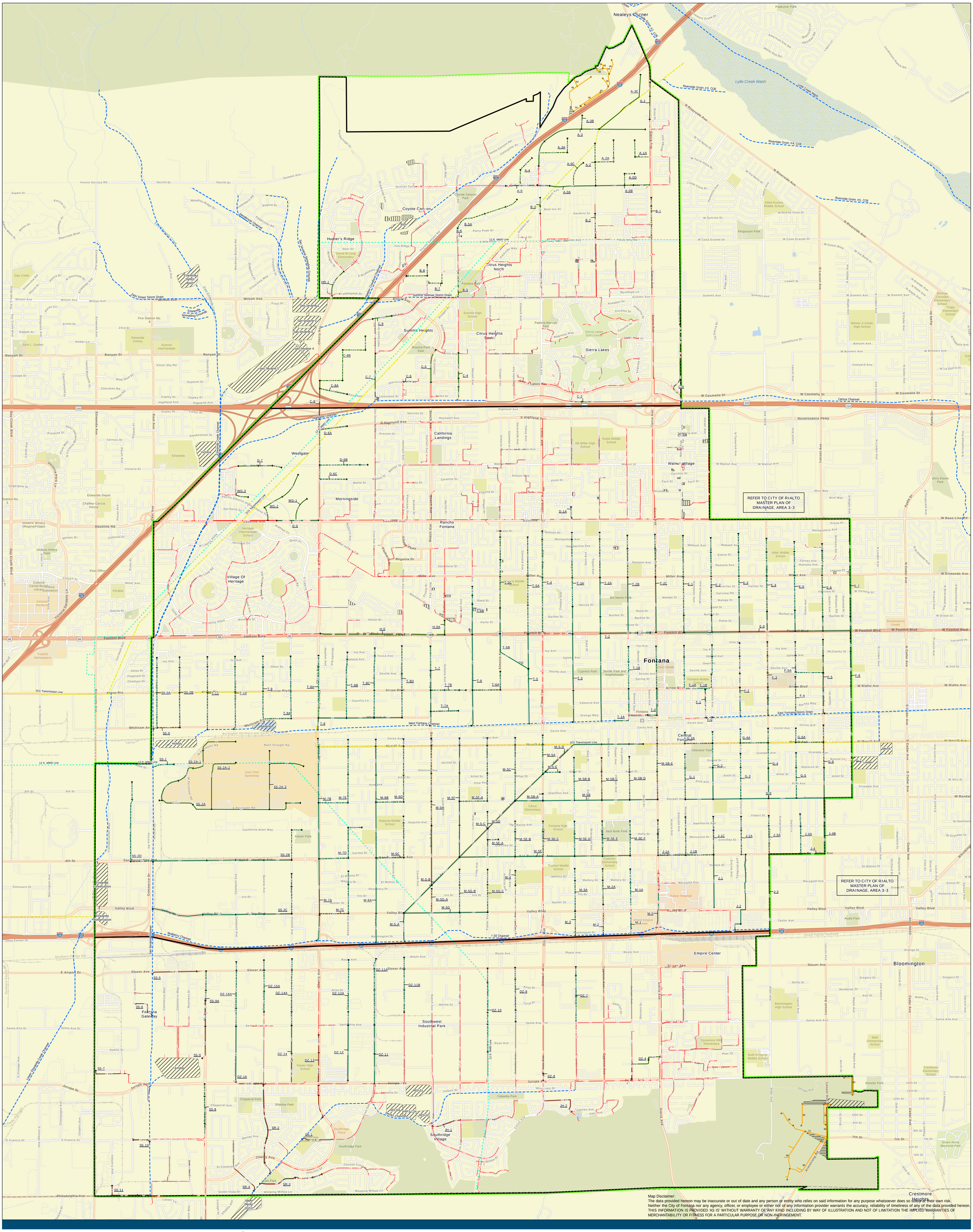
III. Recreation Trails

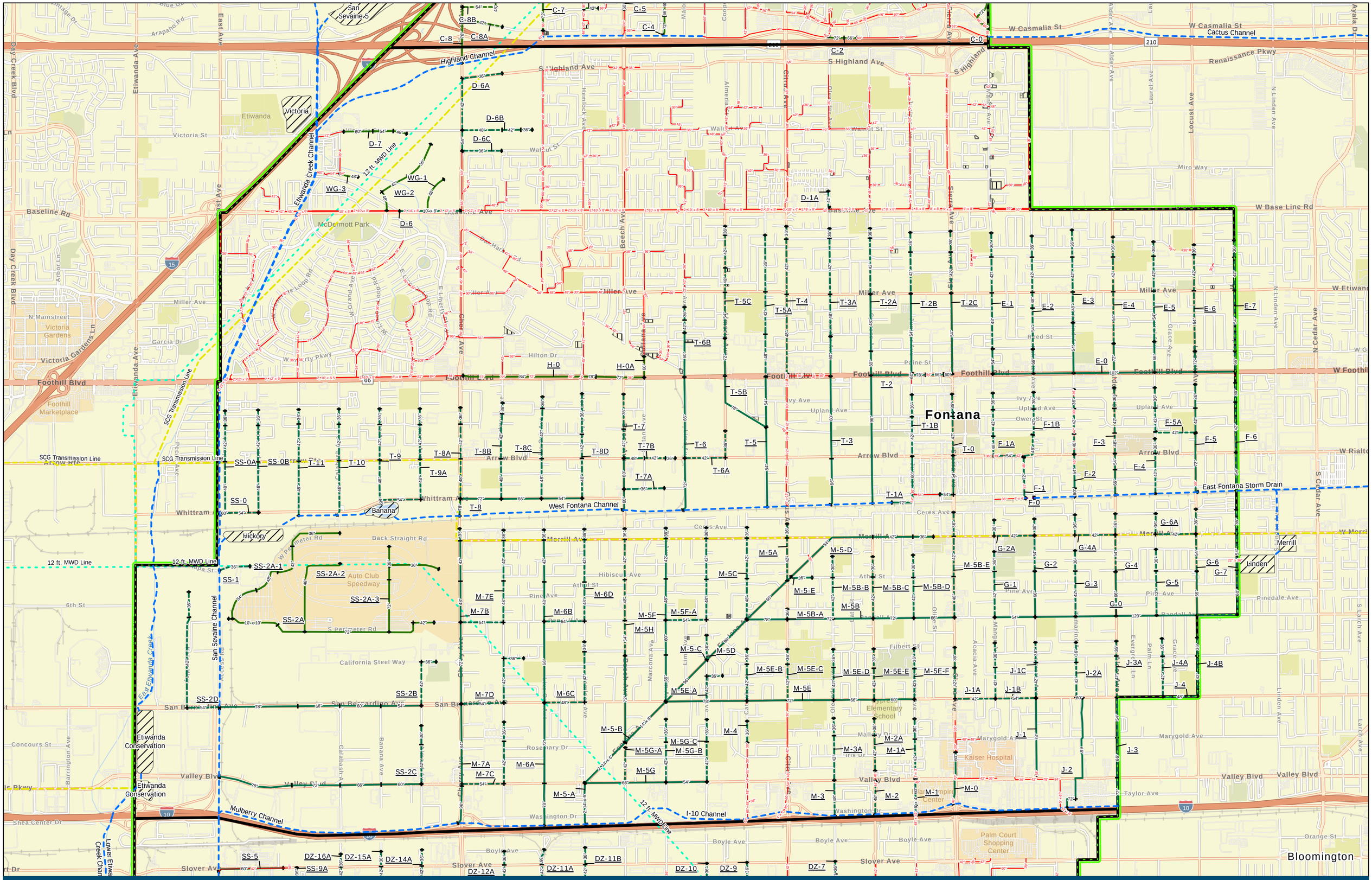
	Acres	Construction Costs	A&E Costs	Total Costs	Priority Level
		$450,000 /Acre			
Hiking and Biking Trails (12" Wide)					
Sec Utility Corridor	8.73	$3,928,500	$392,850	**$4,321,350**	Low
Joint Use Trail (27' Wide)					
San Sevaine Creek Channel	33.71	$15,169,500	$758,475	**$15,927,975**	Low
				$20,249,325	

IV. New Parks

	Acres	Land Costs	Construction Costs	A&E Costs	Total Costs	Priority Level
		$600,000 /Acre	$750,000 /Acre			
Arboretum Parks					**$7,722,000**	
	13		$7,150,000	$572,000		Moderate
Downtown Linear Park on P.E. Trail					**$1,603,800**	
	2.7		$1,485,000	$118,800		Moderate
Sierra Lakes Sports Park					**$35,820,000**	
	30	$18,000,000	$16,500,000	$1,320,000		Moderate
Westgate Parks					**$11,309,760**	
	19.04		$10,472,000	$837,760		Moderate
					$56,455,560	

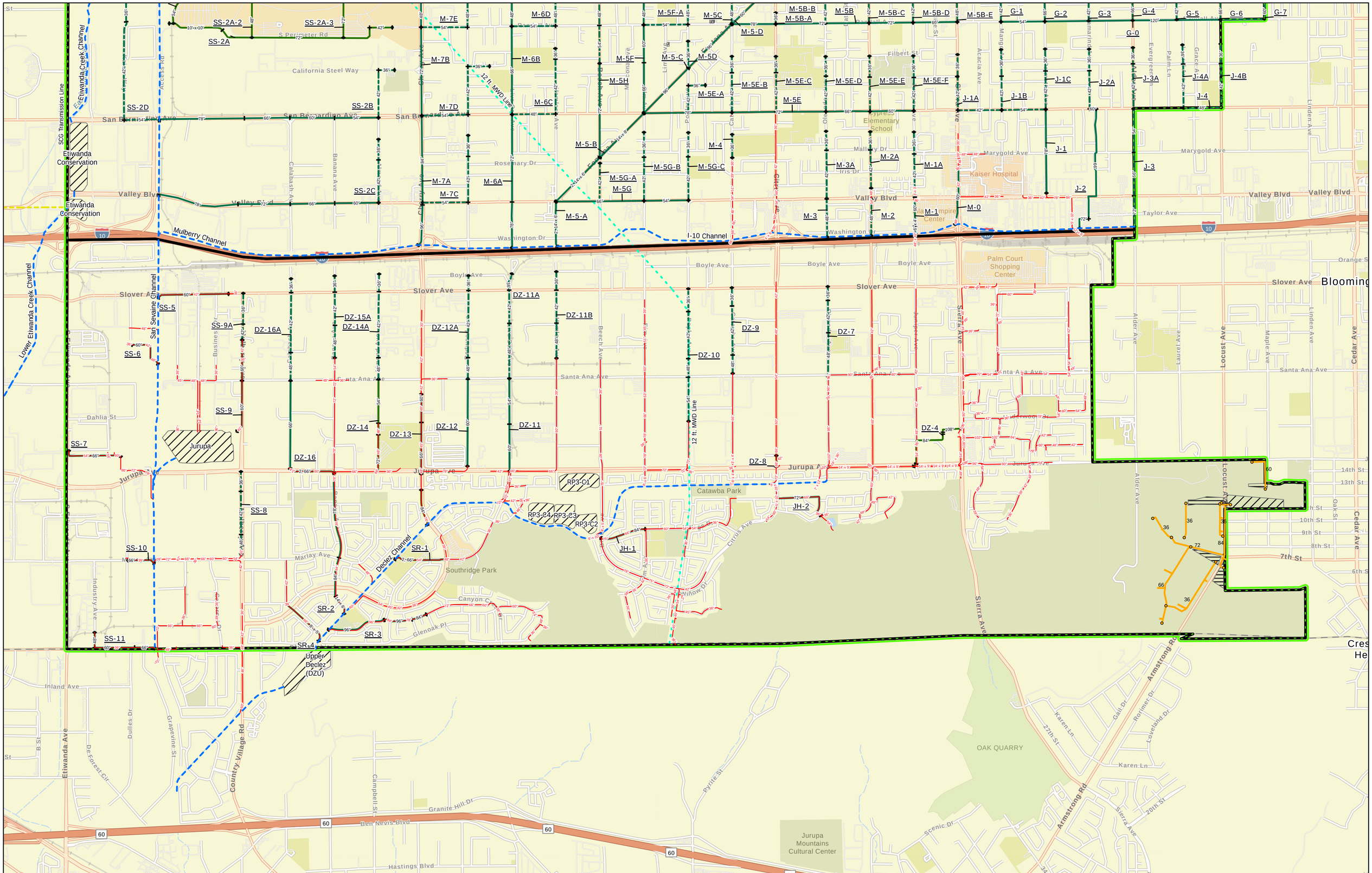
STORM DRAIN FACILITIES NEEDS LIST THROUGH 2043


Nealeys Chutney
Riverside Groin #2, COE
Riverside Groin #3, COE
Riverside Groin #4, COE
Riverside Groin #5, COE
Lytle Creek Wash
N Riverside Ave
Hunter's Ridge
Coyote Canyon
Citrus Heights North
Citrus Heights South
Summit Heights
Sierra Lakes
Westgate
Morningside
California Landings
Rancho Fontana
Village Of Heritage
Fontana
Central Fontana
Walnut Village
Southwest Industrial Park
Southridge Village
Empire Center
Bloomington
Crestmore Heights
Etiwanda Debris Basin
Etiwanda Spreading Grounds
San Sevaine 1
San Sevaine 2
San Sevaine 3
San Sevaine 4
San Sevaine 5
24th Street Storm Drain
Summit Avenue Storm Drain
East Etiwanda Creek
Henderson Channel
Cucamonga-Crawford Channel
Cherry Ave Storm Drain
San Sevaine Channel
Highland Channel
Deer Creek Channel
West Fontana Channel
East Fontana Storm Drain
Cactus Channel
Mulberry Channel
I-10 Channel
Lower Etiwanda Creek Channel
12 ft. MWD Line
SCG Transmission Line
Pacific Electric Inland Empire Trail
Auto Club Speedway
Kaiser Park
Jurupa
Hickory
Victoria
Banana
Fire Station No. 6
Etiwanda Colony
Etiwanda Depot
Chaffey-Garcia House
Historic Winery (Regina/Filippi)
Victoria Arbors Park
Heritage Intermediate School
Sequoia Middle School
Citrus Elementary
Fontana High School
Truman Middle School
Cypress Elementary School
Jack Bulik Park
Ball Martin Park
Kaiser Hospital
Alder Middle School
Ethel Kucera Middle School
Fergusson Park
Summit High School
Patricia Marrujo Park
Sierra Lakes Golf Course
Foothill Marketplace
Civic Center
Seville Park and Amphitheater
Cypress Park
Fontana Metrolink Station
Veterans' Park
Ruble Middle School
AB Miller High School
Kaiser High School
Sycamore Hills Elementary
Ruth O Harris Middle School
Bloomington High School
Walt Zimmerman School
Crestmore Elementary School
Kessler Park
Green Acres Memorial Park
Ayala Park
Wilmer A Carter High School
Sunrise Christian Elementary School
Trapp Elementary School
Jerry Eaves Park
Paakuma' Park
Lytle Creek Ranch
Fontana Gateway
Foothill Marketplace
Chaparral Park
Shadow Park
Catawba Park
Southridge Park
Southridge Plaza
Deer Creek
Day Creek
Etiwanda Conservation
Victoria Gardens
Cultural Center/Library
Police Substation
Post Office
Foothill Blvd
Arrow Rte
Arrow Blvd
Valley Blvd
Wilson Ave
Baseline Ave
Banyan St
Whittram Ave
Slover Ave
Jurupa Ave
4th St
W Casmalia St
W Base Line Rd
W Etiwanda Ave
W Foothill Blvd
Renaissance Pkwy
Locust Ave
Cherry Ave
Beech Ave
Sierra Ave
Citrus Ave
Cedar Ave
Declift Dr
Summit Ave
Forest Service Rd
Woodley Ridge Dr
Regina Dr
Aguacate Rd
Duncan Canyon Rd
Coyote Canyon Rd
Caterpillar Dr
Foxborough Dr
Bridlepath Ave
Deer Dr
Fox Ridge Pl
Parry Peak Dr
Blue Iris St
Gardens St
Casa Grande Ave
Tres Miller Rd
Parkside Way
Saddlepeak Dr
Summit Ave
Wyndham Ln
Atmaden Dr
Escalon Dr
Colonial Dr
Stonehurst Dr
Linda Vista Dr
Palomino Ave
Alder Ave
W Vista Bella Dr
W Terra Vista Dr
W Sunrise Dr
W Buena Vista Dr
W Coast Blvd
Lowell St
Rima Dr
Magic Ave
Institution Rd
Vanderhoof Ranch Rd
Obsidian Rd
Quartzite Ln
American Elm Rd
White Ash Rd
Laurel Ln
Alamo Dr
Encino Ct
Stillwater Pl
Indian Wells Pl
Melton Dr
Daycreek Blvd
Day Creek Blvd
Stonerose Rd
Alliura Dr
N Overlook Dr
Etiwanda Ave
Parke Cir
Bluegrass Ave
Arena Dr
Dapple Dr
23rd St
John L. Golden
Amber Ln
Banyan St
Vintage Dr
Silver Sky Rd
Blue Gum Dr
Cherokee Rd
Araphoe Rd
Copley Dr
Highland Ave
Gypsum Dr
Countrywood Dr
Laurel Blossom Pl
Raindrop Pl
Fisher Dr
East Ave
Etiwanda Ave
Smokestone St
Pistache St
Carnesi Dr
Pecan Ave
Victoria St
Victoria Park Ln
Sugargum St
Station No. 3
Baseline Rd
Mosaic Dr
Colonial Dr
Victoria Gardens Ln
Foothill Blvd
Cornwall Ave
Joliet Dr
Flagstaff Dr
Chatham Dr
Ivy Ave
Upland Ave
Yucca Ave
Owen St
Seville Ave
Country Ln
Juniperberry Dr
Shea Center Dr
Southern Pacific RR
Union Pacific RR
E Airport Dr
Santa Ana St
Dahlia St
S Vintage Ave
E Francis St
S Valley Ave
Champagne Ave
Chablis Ave
Philadelphia Ave
Latour Ln
Green Vista Dr
Weeping Willow Ln
El Contento Ave
Hillcrest Dr
Canyon Crest Dr
Marlay Ave
Cherry Ave
Jurupa Ave
Chaparral Ave
Colleen St
Camellia Dr
Winchester Dr
Rose Ave
Pear St
Orchid St
Athol St
Pine Ave
Hibiscus Ave
Randall Ave
Filbert St
Hawthorne Ave
Manzanita Dr
Grevillea St
Miro Way
Caroline St
Virginia Dr
Allison Way
Plum St
Fern St
Cerritos St
Micalliff Dr
Walnut Ave
W Walnut St
Maine St
Baseline Ave
Foothill Blvd
Begonia Dr
Sanhurst St
Miller Ave
Meadow Park Dr
Hilton Dr
Paine St
Reed Dr
Harvey Dr
Barbee St
Malaga St
Fairview Rd
Fairfax St
Ramona Ave
Elaine Dr
Wabash Ave
Montgomery Ave
Grove Pl
Williams St
Farney Ave
Laguna Pl
Lowell St
Summit Ave
W Summit Ave
N Palm Ave
N Apple Ave
N Orange Ave
N Maple Ave
N Locust Ave
N Cedar Ave
N Linden Ave
N Pepper Ave
N Citrus Ave
N Willow Ave
N Sycamore Ave
N Almond Ave
N Acacia Ave
N Juniper Ave
N Spruce Ave
N Larch Ave
N Birch Ave
N Beech Ave
N Redwood Ave
N Fir Ave
N Elm Ave
N Poplar Ave
N Locust Ave
N Maple Ave
N Linden Ave
N Cedar Ave
N Larch Ave
N Birch Ave
N Beech Ave
N Redwood Ave
N Fir Ave
N Elm Ave
N Poplar Ave
W Casmalia St
W Vineyard Ave
W La Glotia Dr
W Bonnert Ave
Banyon Ave
Vineyard Ave
N Cedar Ave
N Fillmore Ave
Institution Rd
W Rialto Ave
W Merrill Ave
W Randall Ave
W Hawthorne Ave
W Granada St
W Alru St
W Grove St
W Foothill Blvd
W Victoria St
W Etiwanda Ave
W Base Line Rd
W 2nd St
Lorraine Pl
Pomona Ave
Grove Pl
Orchid St
Magnolia St
Vine St
Drive St
Lurton Ave
Cedar Ave
Locust Ave
Maple Ave
Linden Ave
Birch St
Palmetto Ln
Bloomington Ave
Jurupa Ave
14th St
13th St
12th St
10th St
9th St
8th St
7th St
6th St
5th St
4th St
Ayala Dr
Riverside Dr
Orange St
Slover Ave
Santa Ana Ave
Mindanao St
Gregory St
Ash St
Otilia St
Maple Ln
Spruce Ave
Larch Ave
Linden Ave
Locust Ave
Cedar Ave
Maple



AOS 1 Capital Projects

City of Fontana Storm Drain Master Plan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M-5E-C
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J-1C
J-2A
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J-4A
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J-1
J-3
SS-2D
SS-2B
M-7D
M-6C
M-5-B
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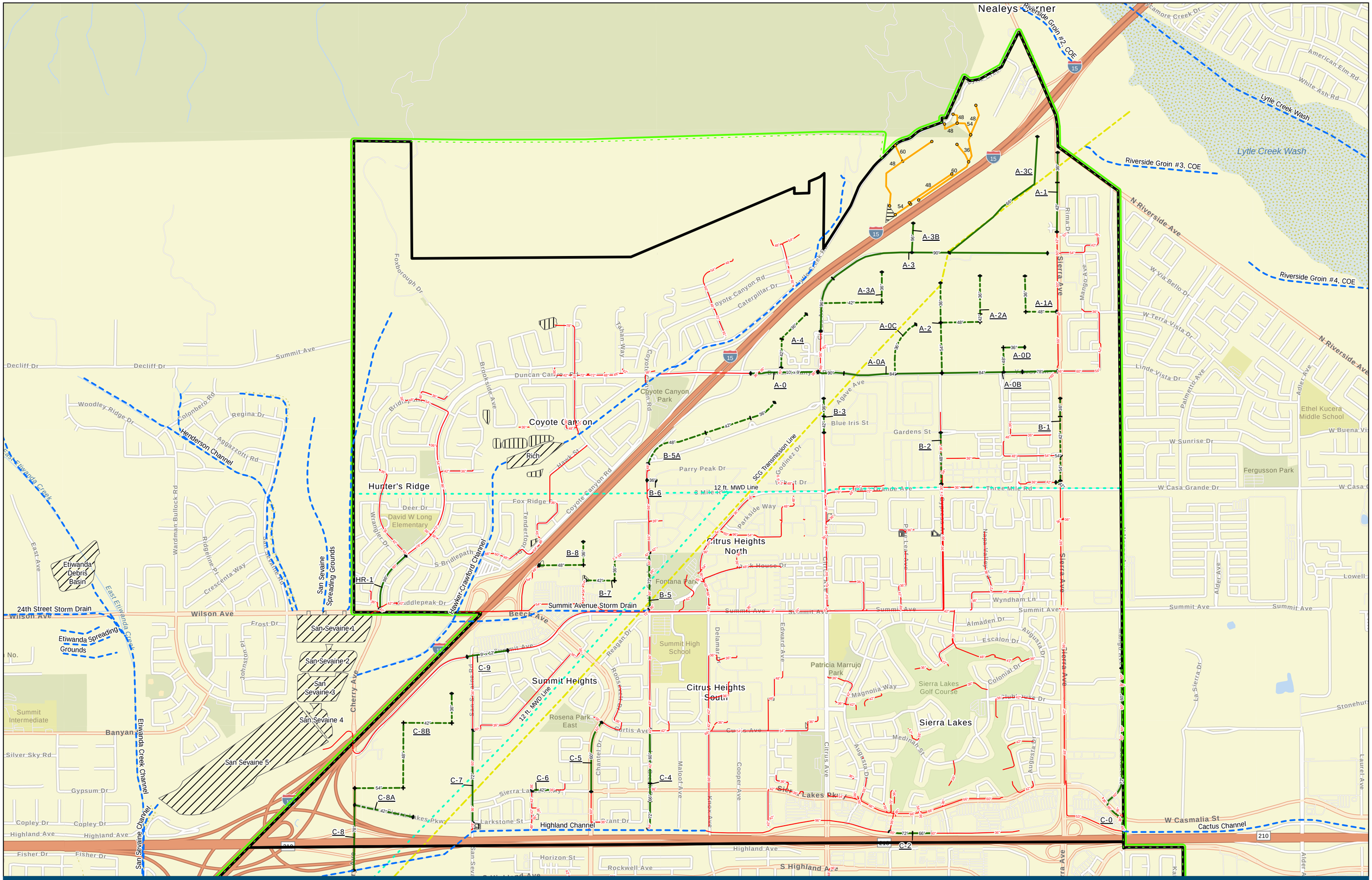
M-2A
M-1A
J-2
M-7A
M-6A
M-5G-B
M-5G-C
M-5G-A
M-5G
SS-2C
M-7C
M-5-A
M-3
M-2
M-1
M-0
I-10 Channel
Mulberry Channel
SS-5
SS-6
SS-9A
DZ-16A
DZ-15A
DZ-14A
DZ-12A
DZ-11A
DZ-11B
DZ-9
DZ-7
DZ-10
SS-9
SS-7
DZ-14
DZ-13
DZ-12
DZ-11
DZ-4
DZ-16
DZ-8
SS-8
RP3-C1
RP3-C4
RP3-C3
RP3-C2
JH-2
JH-1
SS-10
SR-1
SR-2
SR-3
SR-4
SS-11
Upper Declez (DZU)
Declez Channel
12 ft. MWD Line
Lower Etiwanda Creek Channel
San Sevaine Channel
Etiwanda Conservation
Jurupa
Catawba Park
Southridge Park
Cypress Elementary School
Kaiser Hospital
Empire Center
Palm Court Shopping Center
OAK QUARRY
Jurupa Mountains Cultural Center
California Steel Way
S Perimeter Rd
San Bernardino Ave
Valley Blvd
Washington Dr
Boyle Ave
Slover Ave
Santa Ana Ave
Jurupa Ave
Marlay Ave
Granite Hill Dr
Ben Nevis Blvd
Hastings Blvd
Rosemary Dr
Marygold Ave
Taylor Ave
Filbert St
Dahlia St
Inland Ave
Glenoak Pl
Canyon Crest Dr
Willow Dr
Scenic Dr
Karen Ln
27th St
20th St
14th St
13th St
10th St
9th St
8th St
7th St
6th St
Bloomington
Cres
He
Etiwanda Ave
Industry Ave
Dulles Dr
Grapevine St
De Forest Cir
B St
Country Village Rd
Campbell St
Pyrite St
Armstrong Rd
Sierra Ave
Gail Dr
Rorimer Dr
Loveland Dr
Locust Ave
Cedar Ave
Maple Ave
Linden Ave
Alder Ave
Laurel Ave
Acacia Ave
Palm Ln
Grace Ave
Evergreen Ln
Mango Ave
Citrus Ave
Willow Ave
Beech Ave
Poplar Ave
Cherry Ave
Oleander Ave
Sierra Ave
Summer Ave
Spruce St
Banana Ave
Calabash Ave
Juniper Ave
Linden Ave
Maple Ave
Cedar Ave
Oak St
Orange St
Taylor Ave
Laurel Ave
Alder Ave
Locust Ave
Sierra Ave
Armstrong Rd
Karen Ln
Gail Dr
Rorimer Dr
Loveland Dr
27th St
20th St
Scenic Dr
Pyrite St
Campbell St
Granite Hill Dr
Ben Nevis Blvd
Hastings Blvd
Inland Ave
Etiwanda Ave
Dulles Dr
Grapevine St
De Forest Cir
B St
Country Village Rd
Industry Ave
Marlay



AOS Boundary
Fontana Sphere of Influence
Existing Pipes (36-inch diameter and larger)
Regional Flood Control Channels

Proposed Projects
100-Year
25-Year
36 Proposed Pipe Sizes (inches or feet)

Proposed Private Development Projects
Proposed Detention Basins
Existing Detention Basins
Existing Recharge Basins

Metropolitan Water District Feeders
Gas Transmission Lines

N

0 2,000 4,000 8,000 Feet

AOS 3 Capital Projects

City of Fontana Storm Drain Master Plan

AOS 1 Capital Project Cost Estimates

FONTANA
CALIFORNIA

DAVID EVANS
AND ASSOCIATES INC.

Project	Cost
D-1A	$638,000.00
D-6	$20,519,000.00
D-6A	$4,675,000.00
D-6B	$3,028,000.00
D-6C	$1,459,000.00
D-7	$3,131,000.00
E-0	$27,459,000.00
E-1	$10,120,000.00
E-2	$6,511,000.00
E-3	$6,394,000.00
E-4	$6,764,000.00
E-5	$6,409,000.00
E-6	$6,249,000.00
E-7	$6,321,000.00
F-1	$2,821,000.00
F-1A	$4,093,000.00
F-1B	$2,986,000.00
F-2	$4,982,000.00
F-3	$4,898,000.00
F-4	$2,134,000.00
F-5	$5,824,000.00
F-5A	$3,272,000.00
F-6	$4,530,000.00
G-0	$31,966,000.00
G-1	$2,509,000.00
G-2	$5,221,000.00
G-2A	$2,275,000.00
G-3	$2,518,000.00
G-4	$5,360,000.00
G-4A	$2,411,000.00
G-5	$2,514,000.00
G-6	$5,496,000.00
G-6A	$2,435,000.00
G-7	$5,223,000.00

Project	Cost
H-0	$16,558,000.00
H-0A	$1,376,000.00
J-1	$5,558,000.00
J-1A	$3,660,000.00
J-1B	$4,074,000.00
J-1C	$2,140,000.00
J-2	$7,918,000.00
J-2A	$2,425,000.00
J-3	$6,428,000.00
J-3A	$2,178,000.00
J-4	$1,528,000.00
J-4A	$2,248,000.00
J-4B	$2,255,000.00
M-0	$3,064,000.00
M-1	$2,254,000.00
M-1A	$2,228,000.00
M-2	$1,528,000.00
M-2A	$1,980,000.00
M-3	$1,604,000.00
M-3A	$2,490,000.00
M-4	$775,000.00
M-5-A	$42,209,000.00
M-5-B	$87,343,000.00
M-5-C	$11,275,000.00
M-5-D	$10,714,000.00
M-5-E	$807,000.00
M-5A	$2,295,000.00
M-5B	$13,584,000.00
M-5B-A	$377,000.00
M-5B-B	$2,380,000.00
M-5B-C	$2,359,000.00
M-5B-D	$2,398,000.00
M-5B-E	$4,419,000.00
M-5C	$3,936,000.00

Project	Cost
M-5D	$883,000.00
M-5E	$27,493,000.00
M-5E-A	$1,543,000.00
M-5E-B	$1,985,000.00
M-5E-C	$1,960,000.00
M-5E-D	$1,931,000.00
M-5E-E	$1,936,000.00
M-5E-F	$1,914,000.00
M-5F	$8,724,000.00
M-5F-A	$5,968,000.00
M-5G	$7,041,000.00
M-5G-A	$1,450,000.00
M-5G-B	$2,428,000.00
M-5G-C	$2,473,000.00
M-5H	$11,553,000.00
M-6A	$8,300,000.00
M-6B	$8,904,000.00
M-6C	$4,254,000.00
M-6D	$6,021,000.00
M-7A	$10,749,000.00
M-7B	$9,501,000.00
M-7C	$4,550,000.00
M-7D	$4,736,000.00
M-7E	$6,074,000.00
SS-0	$3,850,000.00
SS-0A	$3,800,000.00
SS-0B	$4,371,000.00
SS-1	$1,130,000.00
SS-2A-1	$7,183,000.00
SS-2A	$28,483,000.00
SS-2A-2	$4,513,000.00
SS-2A-3	$6,658,000.00
SS-2B	$15,071,000.00
SS-2C	$16,093,000.00

Project	Cost
SS-2D	$4,625,000.00
T-0	$6,570,000.00
T-10	$4,439,000.00
T-11	$4,489,000.00
T-1A	$3,929,000.00
T-1B	$2,342,000.00
T-2	$20,035,000.00
T-2A	$7,649,000.00
T-2B	$6,375,000.00
T-2C	$6,388,000.00
T-3	$9,259,000.00
T-3A	$11,376,000.00
T-4	$5,880,000.00
T-5	$8,995,000.00
T-5A	$5,790,000.00
T-5B	$5,614,000.00
T-5C	$7,346,000.00
T-6	$7,250,000.00
T-6A	$2,584,000.00
T-6B	$3,350,000.00
T-7	$12,064,000.00
T-7A	$1,434,000.00
T-7B	$2,069,000.00
T-8	$10,190,000.00
T-8A	$3,685,000.00
T-8B	$3,920,000.00
T-8C	$3,768,000.00
T-8D	$5,920,000.00
T-9	$4,593,000.00
T-9A	$5,871,000.00
WG-1	$1,625,000.00
WG-2	$3,643,000.00
WG-3	$828,000.00

Name	D-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 42" RCP	FT	540	$588	$ 318,000
2	Manhole	EA	1	$20,322	$ 20,000
3	Sawcut and Remove Existing AC Pavement	SF	3,180	$2.66	$ 8,000
4	Crushed Miscellaneous Base	SF	3,180	$4	$ 13,000
5	Replace Asphalt Concrete Pavement	SF	3,180	$2	$ 6,000
6	Traffic Control	%	5%		$ 18,000
7	Erosion Control	%	1%		$ 4,000
8	Moblilization/Demobilization	%	10%		$ 39,000
			SUBTOTAL (CONSTRUCTION)		$ 426,000
	Engineering and Design	%	10%		$ 42,600
	Surveying & Staking & Geotechnical	%	5%		$ 21,000
	Construction Management/Staff	%	10%		$ 42,600
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 106,000
			SUBTOTAL COST		$ 532,000
			CONTINGENCY	20%	$ 106,000
			TOTAL PROJECT		$ 638,000

* All unit prices reflect 2024 costs.

Name	D-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 10' x 8' RCB	FT	1,990	$4,491	$ 8,937,000
2	Manhole	EA	5	$20,322	$ 102,000
3	Remove 14' x 8' RCB	FT	850	$910	$ 773,000
4	Remove 12' x 8' RCB	FT	1,990	$639	$ 1,272,000
5	Sawcut and Remove Existing AC Pavement	SF	19,900	$2.66	$ 53,000
6	Crushed Miscellaneous Base	SF	19,900	$4	$ 80,000
7	Replace Asphalt Concrete Pavement	SF	19,900	$2	$ 40,000
8	Traffic Control	%	5%		$ 563,000
9	Erosion Control	%	1%		$ 118,000
10	Moblilization/Demobilization	%	10%		$ 1,194,000
			SUBTOTAL (CONSTRUCTION)		$ 13,132,000
	Engineering and Design	%	10%		$ 1,313,000
	Surveying & Staking & Geotechnical	%	5%		$ 657,000
	Construction Management/Staff	%	10%		$ 1,313,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 3,283,000
			SUBTOTAL COST		$ 16,415,000
			CONTINGENCY +	25%	$ 4,104,000
			TOTAL PROJECT		$ 20,519,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	D-6A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,320	$527	$ 696,000
2	Install 42" RCP	FT	1,700	$588	$ 1,000,000
3	Install 54" RCP	FT	680	$732	$ 498,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	21,740	$2.66	$ 58,000
6	Crushed Miscellaneous Base	SF	21,740	$4	$ 87,000
7	Replace Asphalt Concrete Pavement	SF	21,740	$2	$ 43,000
8	Traffic Control	%	5%		$ 128,000
9	Erosion Control	%	1%		$ 27,000
10	Moblilization/Demobilization	%	10%		$ 272,000
			SUBTOTAL (CONSTRUCTION)		$ 2,992,000
	Engineering and Design	%	10%		$ 299,000
	Surveying & Staking & Geotechnical	%	5%		$ 150,000
	Construction Management/Staff	%	10%		$ 299,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 748,000
			SUBTOTAL COST		$ 3,740,000
			CONTINGENCY +	25%	$ 935,000
			TOTAL PROJECT		$ 4,675,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway, 12' water main, and SCG transmisson line conflict

Name	D-6B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	380	$527	$ 200,000
2	Install 42" RCP	FT	620	$588	$ 365,000
3	Install 48" RCP	FT	1,300	$656	$ 853,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Sawcut and Remove Existing AC Pavement	SF	14,020	$2.66	$ 37,000
6	Crushed Miscellaneous Base	SF	14,020	$4	$ 56,000
7	Replace Asphalt Concrete Pavement	SF	14,020	$2	$ 28,000
8	Traffic Control	%	5%		$ 83,000
9	Erosion Control	%	1%		$ 17,000
10	Moblilization/Demobilization	%	10%		$ 176,000
			SUBTOTAL (CONSTRUCTION)		$ 1,937,000
	Engineering and Design	%	10%		$ 194,000
	Surveying & Staking & Geotechnical	%	5%		$ 97,000
	Construction Management/Staff	%	10%		$ 194,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 485,000
			SUBTOTAL COST		$ 2,422,000
			CONTINGENCY +	25%	$ 606,000
			TOTAL PROJECT		$ 3,028,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	D-6C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,290	$527	$ 680,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	6,880	$2.66	$ 18,000
4	Crushed Miscellaneous Base	SF	6,880	$4	$ 28,000
5	Replace Asphalt Concrete Pavement	SF	6,880	$2	$ 14,000
6	Traffic Control	%	5%		$ 40,000
7	Erosion Control	%	1%		$ 8,000
8	Moblilization/Demobilization	%	10%		$ 85,000
			SUBTOTAL (CONSTRUCTION)		$ 934,000
	Engineering and Design	%	10%		$ 93,000
	Surveying & Staking & Geotechnical	%	5%		$ 47,000
	Construction Management/Staff	%	10%		$ 93,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 233,000
			SUBTOTAL COST		$ 1,167,000
			CONTINGENCY +	25%	$ 292,000
			TOTAL PROJECT		$ 1,459,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	D-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	450	$656	$ 295,000
2	Install 54" RCP	FT	670	$732	$ 490,000
3	Install 60" RCP	FT	950	$816	$ 775,000
4	Manhole	EA	5	$20,322	$ 102,000
5	Sawcut and Remove Existing AC Pavement	SF	14,680	$2.66	$ 39,000
6	Crushed Miscellaneous Base	SF	14,680	$4	$ 59,000
7	Replace Asphalt Concrete Pavement	SF	14,680	$2	$ 29,000
8	Traffic Control	%	5%		$ 89,000
9	Erosion Control	%	1%		$ 19,000
10	Moblilization/Demobilization	%	10%		$ 190,000
			SUBTOTAL (CONSTRUCTION)		$ 2,087,000
	Engineering and Design	%	10%		$ 209,000
	Surveying & Staking & Geotechnical	%	5%		$ 104,000
	Construction Management/Staff	%	10%		$ 209,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 522,000
			SUBTOTAL COST		$ 2,609,000
			CONTINGENCY	20%	$ 522,000
			TOTAL PROJECT		$ 3,131,000

* All unit prices reflect 2024 costs.

Name	E-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 102" RCP	FT	7,920	$1,753	$ 13,884,000
2	Manhole	EA	20	$20,322	$ 406,000
3	Sawcut and Remove Existing AC Pavement	SF	89,430	$2.66	$ 238,000
4	Crushed Miscellaneous Base	SF	89,430	$4	$ 358,000
5	Replace Asphalt Concrete Pavement	SF	89,430	$2	$ 179,000
6	Traffic Control	%	5%		$ 753,000
7	Erosion Control	%	1%		$ 158,000
8	Moblilization/Demobilization	%	10%		$ 1,598,000
			SUBTOTAL (CONSTRUCTION)		$ 17,574,000
	Engineering and Design	%	10%		$ 1,757,000
	Surveying & Staking & Geotechnical	%	5%		$ 879,000
	Construction Management/Staff	%	10%		$ 1,757,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 4,393,000
			SUBTOTAL COST		$ 21,967,000
			CONTINGENCY +	25%	$ 5,492,000
			TOTAL PROJECT		$ 27,459,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	790	$527	$ 416,000
2	Install 42" RCP	FT	1,170	$588	$ 688,000
3	Install 48" RCP	FT	2,650	$656	$ 1,738,000
4	Install 54" RCP	FT	2,650	$732	$ 1,940,000
5	Manhole	EA	18	$20,322	$ 366,000
6	Sawcut and Remove Existing AC Pavement	SF	46,540	$2.66	$ 124,000
7	Crushed Miscellaneous Base	SF	46,540	$4	$ 186,000
8	Replace Asphalt Concrete Pavement	SF	46,540	$2	$ 93,000
9	Traffic Control	%	5%		$ 278,000
10	Erosion Control	%	1%		$ 58,000
11	Moblilization/Demobilization	%	10%		$ 589,000
			SUBTOTAL (CONSTRUCTION)		$ 6,476,000
	Engineering and Design	%	10%		$ 648,000
	Surveying & Staking & Geotechnical	%	5%		$ 324,000
	Construction Management/Staff	%	10%		$ 648,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,620,000
			SUBTOTAL COST		$ 8,096,000
			CONTINGENCY +	25%	$ 2,024,000
			TOTAL PROJECT		$ 10,120,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	690	$527	$ 364,000
2	Install 42" RCP	FT	1,150	$588	$ 676,000
3	Install 48" RCP	FT	520	$656	$ 341,000
4	Install 54" RCP	FT	1,340	$732	$ 981,000
5	Install 66" RCP	FT	800	$911	$ 729,000
6	Manhole	EA	11	$20,322	$ 224,000
7	Sawcut and Remove Existing AC Pavement	SF	29,540	$2.66	$ 79,000
8	Crushed Miscellaneous Base	SF	29,540	$4	$ 118,000
9	Replace Asphalt Concrete Pavement	SF	29,540	$2	$ 59,000
10	Traffic Control	%	5%		$ 179,000
11	Erosion Control	%	1%		$ 38,000
12	Moblilization/Demobilization	%	10%		$ 379,000
			SUBTOTAL (CONSTRUCTION)		$ 4,167,000
	Engineering and Design	%	10%		$ 417,000
	Surveying & Staking & Geotechnical	%	5%		$ 208,000
	Construction Management/Staff	%	10%		$ 417,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,042,000
			SUBTOTAL COST		$ 5,209,000
			CONTINGENCY +	25%	$ 1,302,000
			TOTAL PROJECT		$ 6,511,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	890	$527	$ 469,000
2	Install 42" RCP	FT	1,150	$588	$ 676,000
3	Install 48" RCP	FT	1,000	$656	$ 656,000
4	Install 54" RCP	FT	1,650	$732	$ 1,208,000
5	Manhole	EA	12	$20,322	$ 244,000
6	Sawcut and Remove Existing AC Pavement	SF	29,410	$2.66	$ 78,000
7	Crushed Miscellaneous Base	SF	29,410	$4	$ 118,000
8	Replace Asphalt Concrete Pavement	SF	29,410	$2	$ 59,000
9	Traffic Control	%	5%		$ 175,000
10	Erosion Control	%	1%		$ 37,000
11	Moblilization/Demobilization	%	10%		$ 372,000
			SUBTOTAL (CONSTRUCTION)		$ 4,092,000
	Engineering and Design	%	10%		$ 409,000
	Surveying & Staking & Geotechnical	%	5%		$ 205,000
	Construction Management/Staff	%	10%		$ 409,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,023,000
			SUBTOTAL COST		$ 5,115,000
			CONTINGENCY +	25%	$ 1,279,000
			TOTAL PROJECT		$ 6,394,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	650	$527	$ 343,000
2	Install 42" RCP	FT	1,140	$588	$ 670,000
3	Install 54" RCP	FT	1,690	$732	$ 1,237,000
4	Install 72" RCP	FT	960	$1,016	$ 975,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	30,170	$2.66	$ 80,000
7	Crushed Miscellaneous Base	SF	30,170	$4	$ 121,000
8	Replace Asphalt Concrete Pavement	SF	30,170	$2	$ 60,000
9	Traffic Control	%	5%		$ 186,000
10	Erosion Control	%	1%		$ 39,000
11	Moblilization/Demobilization	%	10%		$ 394,000
			SUBTOTAL (CONSTRUCTION)		$ 4,329,000
	Engineering and Design	%	10%		$ 433,000
	Surveying & Staking & Geotechnical	%	5%		$ 216,000
	Construction Management/Staff	%	10%		$ 433,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,082,000
			SUBTOTAL COST		$ 5,411,000
			CONTINGENCY +	25%	$ 1,353,000
			TOTAL PROJECT		$ 6,764,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	480	$527	$ 253,000
2	Install 42" RCP	FT	1,140	$588	$ 670,000
3	Install 54" RCP	FT	1,650	$732	$ 1,208,000
4	Install 66" RCP	FT	1,000	$911	$ 911,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	28,790	$2.66	$ 77,000
7	Crushed Miscellaneous Base	SF	28,790	$4	$ 115,000
8	Replace Asphalt Concrete Pavement	SF	28,790	$2	$ 58,000
9	Traffic Control	%	5%		$ 176,000
10	Erosion Control	%	1%		$ 37,000
11	Moblilization/Demobilization	%	10%		$ 373,000
			SUBTOTAL (CONSTRUCTION)		$ 4,102,000
	Engineering and Design	%	10%		$ 410,000
	Surveying & Staking & Geotechnical	%	5%		$ 205,000
	Construction Management/Staff	%	10%		$ 410,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,025,000
			SUBTOTAL COST		$ 5,127,000
			CONTINGENCY +	25%	$ 1,282,000
			TOTAL PROJECT		$ 6,409,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	320	$527	$ 169,000
2	Install 42" RCP	FT	1,180	$588	$ 694,000
3	Install 54" RCP	FT	1,970	$732	$ 1,442,000
4	Install 72" RCP	FT	680	$1,016	$ 691,000
5	Manhole	EA	10	$20,322	$ 203,000
6	Sawcut and Remove Existing AC Pavement	SF	26,450	$2.66	$ 70,000
7	Crushed Miscellaneous Base	SF	26,450	$4	$ 106,000
8	Replace Asphalt Concrete Pavement	SF	26,450	$2	$ 53,000
9	Traffic Control	%	5%		$ 171,000
10	Erosion Control	%	1%		$ 36,000
11	Moblilization/Demobilization	%	10%		$ 364,000
			SUBTOTAL (CONSTRUCTION)		$ 3,999,000
	Engineering and Design	%	10%		$ 400,000
	Surveying & Staking & Geotechnical	%	5%		$ 200,000
	Construction Management/Staff	%	10%		$ 400,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,000,000
			SUBTOTAL COST		$ 4,999,000
			CONTINGENCY +	25%	$ 1,250,000
			TOTAL PROJECT		$ 6,249,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	E-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	560	$527	$ 295,000
2	Install 42" RCP	FT	1,070	$588	$ 629,000
3	Install 54" RCP	FT	1,990	$732	$ 1,457,000
4	Install 66" RCP	FT	670	$911	$ 610,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	29,240	$2.66	$ 78,000
7	Crushed Miscellaneous Base	SF	29,240	$4	$ 117,000
8	Replace Asphalt Concrete Pavement	SF	29,240	$2	$ 58,000
9	Traffic Control	%	5%		$ 173,000
10	Erosion Control	%	1%		$ 36,000
11	Moblilization/Demobilization	%	10%		$ 368,000
			SUBTOTAL (CONSTRUCTION)		$ 4,045,000
	Engineering and Design	%	10%		$ 405,000
	Surveying & Staking & Geotechnical	%	5%		$ 202,000
	Construction Management/Staff	%	10%		$ 405,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,012,000
			SUBTOTAL COST		$ 5,057,000
			CONTINGENCY +	25%	$ 1,264,000
			TOTAL PROJECT		$ 6,321,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	F-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	1,340	$1,016	$ 1,361,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Remove 48" RCP	FT	530	$71	$ 38,000
4	Remove 54" RCP	FT	650	$80	$ 52,000
5	Sawcut and Remove Existing AC Pavement	SF	11,510	$2.66	$ 31,000
6	Crushed Miscellaneous Base	SF	11,510	$4	$ 46,000
7	Replace Asphalt Concrete Pavement	SF	11,510	$2	$ 23,000
8	Traffic Control	%	5%		$ 81,000
9	Erosion Control	%	1%		$ 17,000
10	Moblilization/Demobilization	%	10%		$ 171,000
			SUBTOTAL (CONSTRUCTION)		$ 1,881,000
	Engineering and Design	%	10%		$ 188,000
	Surveying & Staking & Geotechnical	%	5%		$ 94,000
	Construction Management/Staff	%	10%		$ 188,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 470,000
			SUBTOTAL COST		$ 2,351,000
			CONTINGENCY	20%	$ 470,000
			TOTAL PROJECT		$ 2,821,000

* All unit prices reflect 2024 costs.

Name	F-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	730	$527	$ 385,000
2	Install 42" RCP	FT	690	$588	$ 406,000
3	Install 48" RCP	FT	650	$656	$ 426,000
4	Install 54" RCP	FT	1,000	$732	$ 732,000
5	Manhole	EA	8	$20,322	$ 163,000
6	Remove 42" RCP	FT	980	$62	$ 61,000
7	Sawcut and Remove Existing AC Pavement	SF	19,210	$2.66	$ 51,000
8	Crushed Miscellaneous Base	SF	19,210	$4	$ 77,000
9	Replace Asphalt Concrete Pavement	SF	19,210	$2	$ 38,000
10	Traffic Control	%	5%		$ 117,000
11	Erosion Control	%	1%		$ 25,000
12	Moblilization/Demobilization	%	10%		$ 248,000
			SUBTOTAL (CONSTRUCTION)		$ 2,729,000
	Engineering and Design	%	10%		$ 273,000
	Surveying & Staking & Geotechnical	%	5%		$ 136,000
	Construction Management/Staff	%	10%		$ 273,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 682,000
			SUBTOTAL COST		$ 3,411,000
			CONTINGENCY	20%	$ 682,000
			TOTAL PROJECT		$ 4,093,000

* All unit prices reflect 2024 costs.

Name	F-1B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	710	$527	$ 374,000
2	Install 42" RCP	FT	690	$588	$ 406,000
3	Install 48" RCP	FT	970	$656	$ 636,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Remove 24" RCP	FT	200	$35	$ 7,000
6	Remove 30" RCP	FT	920	$44	$ 40,000
7	Sawcut and Remove Existing AC Pavement	SF	14,070	$2.66	$ 37,000
8	Crushed Miscellaneous Base	SF	14,070	$4	$ 56,000
9	Replace Asphalt Concrete Pavement	SF	14,070	$2	$ 28,000
10	Traffic Control	%	5%		$ 85,000
11	Erosion Control	%	1%		$ 18,000
12	Moblilization/Demobilization	%	10%		$ 181,000
			SUBTOTAL (CONSTRUCTION)		$ 1,990,000
	Engineering and Design	%	10%		$ 199,000
	Surveying & Staking & Geotechnical	%	5%		$ 100,000
	Construction Management/Staff	%	10%		$ 199,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 498,000
			SUBTOTAL COST		$ 2,488,000
			CONTINGENCY	20%	$ 498,000
			TOTAL PROJECT		$ 2,986,000

* All unit prices reflect 2024 costs.

Name	F-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	820	$527	$ 432,000
2	Install 42" RCP	FT	650	$588	$ 382,000
3	Install 48" RCP	FT	660	$656	$ 433,000
4	Install 54" RCP	FT	1,110	$732	$ 813,000
5	Install 60" RCP	FT	280	$816	$ 228,000
6	Manhole	EA	9	$20,322	$ 183,000
7	Remove 36" RCP	FT	720	$53	$ 38,000
8	Remove 39" RCP	FT	850	$58	$ 49,000
9	Remove 42" RCP	FT	320	$62	$ 20,000
10	Remove 48" RCP	FT	1,080	$71	$ 77,000
11	Sawcut and Remove Existing AC Pavement	SF	22,260	$2.66	$ 59,000
12	Crushed Miscellaneous Base	SF	22,260	$4	$ 89,000
13	Replace Asphalt Concrete Pavement	SF	22,260	$2	$ 45,000
14	Traffic Control	%	5%		$ 142,000
15	Erosion Control	%	1%		$ 30,000
16	Moblilization/Demobilization	%	10%		$ 302,000
	SUBTOTAL (CONSTRUCTION)				$ 3,322,000
	Engineering and Design	%	10%		$ 332,000
	Surveying & Staking & Geotechnical	%	5%		$ 166,000
	Construction Management/Staff	%	10%		$ 332,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 830,000
	SUBTOTAL COST				$ 4,152,000
	CONTINGENCY			20%	$ 830,000
	TOTAL PROJECT				$ 4,982,000

* All unit prices reflect 2024 costs.

Name	F-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	850	$527	$ 448,000
2	Install 42" RCP	FT	640	$588	$ 376,000
3	Install 48" RCP	FT	670	$656	$ 440,000
4	Install 54" RCP	FT	530	$732	$ 388,000
5	Install 66" RCP	FT	840	$911	$ 765,000
6	Manhole	EA	9	$20,322	$ 183,000
7	Sawcut and Remove Existing AC Pavement	SF	23,040	$2.66	$ 61,000
8	Crushed Miscellaneous Base	SF	23,040	$4	$ 92,000
9	Replace Asphalt Concrete Pavement	SF	23,040	$2	$ 46,000
10	Traffic Control	%	5%		$ 140,000
11	Erosion Control	%	1%		$ 29,000
12	Moblilization/Demobilization	%	10%		$ 297,000
			SUBTOTAL (CONSTRUCTION)		$ 3,265,000
	Engineering and Design	%	10%		$ 327,000
	Surveying & Staking & Geotechnical	%	5%		$ 163,000
	Construction Management/Staff	%	10%		$ 327,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 817,000
			SUBTOTAL COST		$ 4,082,000
			CONTINGENCY	20%	$ 816,000
			TOTAL PROJECT		$ 4,898,000

* All unit prices reflect 2024 costs.

Name	F-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	480	$527	$ 253,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,320	$2.66	$ 27,000
5	Crushed Miscellaneous Base	SF	10,320	$4	$ 41,000
6	Replace Asphalt Concrete Pavement	SF	10,320	$2	$ 21,000
7	Traffic Control	%	5%		$ 61,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 129,000
			SUBTOTAL (CONSTRUCTION)		$ 1,423,000
	Engineering and Design	%	10%		$ 142,000
	Surveying & Staking & Geotechnical	%	5%		$ 71,000
	Construction Management/Staff	%	10%		$ 142,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 355,000
			SUBTOTAL COST		$ 1,778,000
			CONTINGENCY	20%	$ 356,000
			TOTAL PROJECT		$ 2,134,000

* All unit prices reflect 2024 costs.

Name	F-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	890	$527	$ 469,000
2	Install 42" RCP	FT	710	$588	$ 417,000
3	Install 72" RCP	FT	1,970	$1,016	$ 2,002,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Remove 39" RCP	FT	590	$58	$ 34,000
6	Sawcut and Remove Existing AC Pavement	SF	25,830	$2.66	$ 69,000
7	Crushed Miscellaneous Base	SF	25,830	$4	$ 103,000
8	Replace Asphalt Concrete Pavement	SF	25,830	$2	$ 52,000
9	Traffic Control	%	5%		$ 166,000
10	Erosion Control	%	1%		$ 35,000
11	Moblilization/Demobilization	%	10%		$ 353,000
			SUBTOTAL (CONSTRUCTION)		$ 3,883,000
	Engineering and Design	%	10%		$ 388,000
	Surveying & Staking & Geotechnical	%	5%		$ 194,000
	Construction Management/Staff	%	10%		$ 388,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 970,000
			SUBTOTAL COST		$ 4,853,000
			CONTINGENCY	20%	$ 971,000
			TOTAL PROJECT		$ 5,824,000

* All unit prices reflect 2024 costs.

Name	F-5A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	830	$527	$ 437,000
2	Install 42" RCP	FT	610	$588	$ 359,000
3	Install 42" RCP	FT	1,330	$588	$ 782,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Sawcut and Remove Existing AC Pavement	SF	17,270	$2.66	$ 46,000
6	Crushed Miscellaneous Base	SF	17,270	$4	$ 69,000
7	Replace Asphalt Concrete Pavement	SF	17,270	$2	$ 35,000
8	Traffic Control	%	5%		$ 94,000
9	Erosion Control	%	1%		$ 20,000
10	Moblilization/Demobilization	%	10%		$ 198,000
			SUBTOTAL (CONSTRUCTION)		$ 2,182,000
	Engineering and Design	%	10%		$ 218,000
	Surveying & Staking & Geotechnical	%	5%		$ 109,000
	Construction Management/Staff	%	10%		$ 218,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 545,000
			SUBTOTAL COST		$ 2,727,000
			CONTINGENCY	20%	$ 545,000
			TOTAL PROJECT		$ 3,272,000

* All unit prices reflect 2024 costs.

Name	F-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	630	$527	$ 332,000
2	Install 42" RCP	FT	1,650	$588	$ 970,000
3	Install 54" RCP	FT	1,250	$732	$ 915,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	21,760	$2.66	$ 58,000
6	Crushed Miscellaneous Base	SF	21,760	$4	$ 87,000
7	Replace Asphalt Concrete Pavement	SF	21,760	$2	$ 44,000
8	Traffic Control	%	5%		$ 129,000
9	Erosion Control	%	1%		$ 27,000
10	Moblilization/Demobilization	%	10%		$ 275,000
			SUBTOTAL (CONSTRUCTION)		$ 3,020,000
	Engineering and Design	%	10%		$ 302,000
	Surveying & Staking & Geotechnical	%	5%		$ 151,000
	Construction Management/Staff	%	10%		$ 302,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 755,000
			SUBTOTAL COST		$ 3,775,000
			CONTINGENCY	20%	$ 755,000
			TOTAL PROJECT		$ 4,530,000

* All unit prices reflect 2024 costs.

Name	G-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,320	$732	$ 966,000
2	Install 120" RCP	FT	6,610	$2,433	$ 16,082,000
3	Manhole	EA	20	$20,322	$ 406,000
4	Sawcut and Remove Existing AC Pavement	SF	94,020	$2.66	$ 250,000
5	Crushed Miscellaneous Base	SF	94,020	$4	$ 376,000
6	Replace Asphalt Concrete Pavement	SF	94,020	$2	$ 188,000
7	Traffic Control	%	5%		$ 913,000
8	Erosion Control	%	1%		$ 192,000
9	Moblilization/Demobilization	%	10%		$ 1,937,000
	SUBTOTAL (CONSTRUCTION)				$ 21,310,000
	Engineering and Design	%	10%		$ 2,131,000
	Surveying & Staking & Geotechnical	%	5%		$ 1,066,000
	Construction Management/Staff	%	10%		$ 2,131,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 5,328,000
	SUBTOTAL COST				$ 26,638,000
	CONTINGENCY			20%	$ 5,328,000
	TOTAL PROJECT				$ 31,966,000

* All unit prices reflect 2024 costs.

Name	G-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	650	$527	$ 343,000
2	Install 42" RCP	FT	1,500	$588	$ 882,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	12,280	$2.66	$ 33,000
5	Crushed Miscellaneous Base	SF	12,280	$4	$ 49,000
6	Replace Asphalt Concrete Pavement	SF	12,280	$2	$ 25,000
7	Traffic Control	%	5%		$ 72,000
8	Erosion Control	%	1%		$ 15,000
9	Moblilization/Demobilization	%	10%		$ 152,000
			SUBTOTAL (CONSTRUCTION)		$ 1,673,000
	Engineering and Design	%	10%		$ 167,000
	Surveying & Staking & Geotechnical	%	5%		$ 84,000
	Construction Management/Staff	%	10%		$ 167,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 418,000
			SUBTOTAL COST		$ 2,091,000
			CONTINGENCY	20%	$ 418,000
			TOTAL PROJECT		$ 2,509,000

* All unit prices reflect 2024 costs.

Name	G-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	550	$527	$ 290,000
2	Install 54" RCP	FT	1,170	$732	$ 856,000
3	Install 66" RCP	FT	1,490	$911	$ 1,357,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	23,060	$2.66	$ 61,000
6	Crushed Miscellaneous Base	SF	23,060	$4	$ 92,000
7	Replace Asphalt Concrete Pavement	SF	23,060	$2	$ 46,000
8	Traffic Control	%	5%		$ 143,000
9	Erosion Control	%	1%		$ 30,000
10	Moblilization/Demobilization	%	10%		$ 304,000
			SUBTOTAL (CONSTRUCTION)		$ 3,342,000
	Engineering and Design	%	10%		$ 334,000
	Surveying & Staking & Geotechnical	%	5%		$ 167,000
	Construction Management/Staff	%	10%		$ 334,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 835,000
			SUBTOTAL COST		$ 4,177,000
			CONTINGENCY +	25%	$ 1,044,000
			TOTAL PROJECT		$ 5,221,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	530	$527	$ 279,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,590	$2.66	$ 28,000
5	Crushed Miscellaneous Base	SF	10,590	$4	$ 42,000
6	Replace Asphalt Concrete Pavement	SF	10,590	$2	$ 21,000
7	Traffic Control	%	5%		$ 62,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 132,000
			SUBTOTAL (CONSTRUCTION)		$ 1,455,000
	Engineering and Design	%	10%		$ 146,000
	Surveying & Staking & Geotechnical	%	5%		$ 73,000
	Construction Management/Staff	%	10%		$ 146,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 365,000
			SUBTOTAL COST		$ 1,820,000
			CONTINGENCY +	25%	$ 455,000
			TOTAL PROJECT		$ 2,275,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	1,490	$588	$ 876,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	12,330	$2.66	$ 33,000
5	Crushed Miscellaneous Base	SF	12,330	$4	$ 49,000
6	Replace Asphalt Concrete Pavement	SF	12,330	$2	$ 25,000
7	Traffic Control	%	5%		$ 72,000
8	Erosion Control	%	1%		$ 15,000
9	Moblilization/Demobilization	%	10%		$ 153,000
			SUBTOTAL (CONSTRUCTION)		$ 1,678,000
	Engineering and Design	%	10%		$ 168,000
	Surveying & Staking & Geotechnical	%	5%		$ 84,000
	Construction Management/Staff	%	10%		$ 168,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 420,000
			SUBTOTAL COST		$ 2,098,000
			CONTINGENCY	20%	$ 420,000
			TOTAL PROJECT		$ 2,518,000

* All unit prices reflect 2024 costs.

Name	G-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	690	$527	$ 364,000
2	Install 54" RCP	FT	1,210	$732	$ 886,000
3	Install 66" RCP	FT	1,450	$911	$ 1,321,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	23,760	$2.66	$ 63,000
6	Crushed Miscellaneous Base	SF	23,760	$4	$ 95,000
7	Replace Asphalt Concrete Pavement	SF	23,760	$2	$ 48,000
8	Traffic Control	%	5%		$ 147,000
9	Erosion Control	%	1%		$ 31,000
10	Moblilization/Demobilization	%	10%		$ 312,000
			SUBTOTAL (CONSTRUCTION)		$ 3,430,000
	Engineering and Design	%	10%		$ 343,000
	Surveying & Staking & Geotechnical	%	5%		$ 172,000
	Construction Management/Staff	%	10%		$ 343,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 858,000
			SUBTOTAL COST		$ 4,288,000
			CONTINGENCY +	25%	$ 1,072,000
			TOTAL PROJECT		$ 5,360,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-4A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,280	$2.66	$ 30,000
5	Crushed Miscellaneous Base	SF	11,280	$4	$ 45,000
6	Replace Asphalt Concrete Pavement	SF	11,280	$2	$ 23,000
7	Traffic Control	%	5%		$ 66,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 140,000
			SUBTOTAL (CONSTRUCTION)		$ 1,544,000
	Engineering and Design	%	10%		$ 154,000
	Surveying & Staking & Geotechnical	%	5%		$ 77,000
	Construction Management/Staff	%	10%		$ 154,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 385,000
			SUBTOTAL COST		$ 1,929,000
			CONTINGENCY +	25%	$ 482,000
			TOTAL PROJECT		$ 2,411,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	710	$527	$ 374,000
2	Install 42" RCP	FT	1,450	$588	$ 853,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	12,310	$2.66	$ 33,000
5	Crushed Miscellaneous Base	SF	12,310	$4	$ 49,000
6	Replace Asphalt Concrete Pavement	SF	12,310	$2	$ 25,000
7	Traffic Control	%	5%		$ 72,000
8	Erosion Control	%	1%		$ 15,000
9	Moblilization/Demobilization	%	10%		$ 152,000
			SUBTOTAL (CONSTRUCTION)		$ 1,675,000
	Engineering and Design	%	10%		$ 168,000
	Surveying & Staking & Geotechnical	%	5%		$ 84,000
	Construction Management/Staff	%	10%		$ 168,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 420,000
			SUBTOTAL COST		$ 2,095,000
			CONTINGENCY	20%	$ 419,000
			TOTAL PROJECT		$ 2,514,000

* All unit prices reflect 2024 costs.

Name	G-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	810	$527	$ 427,000
2	Install 54" RCP	FT	1,220	$732	$ 893,000
3	Install 66" RCP	FT	1,440	$911	$ 1,312,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	23,050	$2.66	$ 61,000
6	Crushed Miscellaneous Base	SF	23,050	$4	$ 92,000
7	Replace Asphalt Concrete Pavement	SF	23,050	$2	$ 46,000
8	Traffic Control	%	5%		$ 151,000
9	Erosion Control	%	1%		$ 32,000
10	Moblilization/Demobilization	%	10%		$ 320,000
			SUBTOTAL (CONSTRUCTION)		$ 3,517,000
	Engineering and Design	%	10%		$ 352,000
	Surveying & Staking & Geotechnical	%	5%		$ 176,000
	Construction Management/Staff	%	10%		$ 352,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 880,000
			SUBTOTAL COST		$ 4,397,000
			CONTINGENCY +	25%	$ 1,099,000
			TOTAL PROJECT		$ 5,496,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-6A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	680	$527	$ 358,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,390	$2.66	$ 30,000
5	Crushed Miscellaneous Base	SF	11,390	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,390	$2	$ 23,000
7	Traffic Control	%	5%		$ 67,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 142,000
			SUBTOTAL (CONSTRUCTION)		$ 1,558,000
	Engineering and Design	%	10%		$ 156,000
	Surveying & Staking & Geotechnical	%	5%		$ 78,000
	Construction Management/Staff	%	10%		$ 156,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 390,000
			SUBTOTAL COST		$ 1,948,000
			CONTINGENCY +	25%	$ 487,000
			TOTAL PROJECT		$ 2,435,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	G-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	780	$527	$ 411,000
2	Install 54" RCP	FT	1,200	$732	$ 878,000
3	Install 60" RCP	FT	1,460	$816	$ 1,191,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	23,460	$2.66	$ 62,000
6	Crushed Miscellaneous Base	SF	23,460	$4	$ 94,000
7	Replace Asphalt Concrete Pavement	SF	23,460	$2	$ 47,000
8	Traffic Control	%	5%		$ 143,000
9	Erosion Control	%	1%		$ 30,000
10	Moblilization/Demobilization	%	10%		$ 304,000
			SUBTOTAL (CONSTRUCTION)		$ 3,343,000
	Engineering and Design	%	10%		$ 334,000
	Surveying & Staking & Geotechnical	%	5%		$ 167,000
	Construction Management/Staff	%	10%		$ 334,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 835,000
			SUBTOTAL COST		$ 4,178,000
			CONTINGENCY +	25%	$ 1,045,000
			TOTAL PROJECT		$ 5,223,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	H-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	1,330	$1,016	$ 1,351,000
2	Install 78" RCP	FT	1,330	$1,133	$ 1,507,000
3	Install 84" RCP	FT	3,900	$1,264	$ 4,930,000
4	Manhole	EA	16	$20,322	$ 325,000
5	Remove 42" RCP	FT	420	$62	$ 26,000
6	Remove 66" RCP	FT	730	$99	$ 72,000
7	Remove 72" RCP	FT	3,170	$108	$ 342,000
8	Sawcut and Remove Existing AC Pavement	SF	61,260	$2.66	$ 163,000
9	Crushed Miscellaneous Base	SF	61,260	$4	$ 245,000
10	Replace Asphalt Concrete Pavement	SF	61,260	$2	$ 123,000
11	Traffic Control	%	5%		$ 454,000
12	Erosion Control	%	1%		$ 95,000
13	Moblilization/Demobilization	%	10%		$ 963,000
			SUBTOTAL (CONSTRUCTION)		$ 10,596,000
	Engineering and Design	%	10%		$ 1,060,000
	Surveying & Staking & Geotechnical	%	5%		$ 530,000
	Construction Management/Staff	%	10%		$ 1,060,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,650,000
			SUBTOTAL COST		$ 13,246,000
			CONTINGENCY +	25%	$ 3,312,000
			TOTAL PROJECT		$ 16,558,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	H-0A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	690	$911	$ 629,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Remove 36" RCP	FT	690	$53	$ 37,000
4	Sawcut and Remove Existing AC Pavement	SF	5,550	$2.66	$ 15,000
5	Crushed Miscellaneous Base	SF	5,550	$4	$ 22,000
6	Replace Asphalt Concrete Pavement	SF	5,550	$2	$ 11,000
7	Traffic Control	%	5%		$ 38,000
8	Erosion Control	%	1%		$ 8,000
9	Moblilization/Demobilization	%	10%		$ 80,000
			SUBTOTAL (CONSTRUCTION)		$ 881,000
	Engineering and Design	%	10%		$ 88,000
	Surveying & Staking & Geotechnical	%	5%		$ 44,000
	Construction Management/Staff	%	10%		$ 88,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 220,000
			SUBTOTAL COST		$ 1,101,000
			CONTINGENCY +	25%	$ 275,000
			TOTAL PROJECT		$ 1,376,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	J-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 78" RCP	FT	2,520	$1,133	$ 2,855,000
2	Manhole	EA	6	$20,322	$ 122,000
3	Sawcut and Remove Existing AC Pavement	SF	23,000	$2.66	$ 61,000
4	Crushed Miscellaneous Base	SF	23,000	$4	$ 92,000
5	Replace Asphalt Concrete Pavement	SF	23,000	$2	$ 46,000
6	Traffic Control	%	5%		$ 159,000
7	Erosion Control	%	1%		$ 33,000
8	Moblilization/Demobilization	%	10%		$ 337,000
			SUBTOTAL (CONSTRUCTION)		$ 3,705,000
	Engineering and Design	%	10%		$ 371,000
	Surveying & Staking & Geotechnical	%	5%		$ 185,000
	Construction Management/Staff	%	10%		$ 371,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 927,000
			SUBTOTAL COST		$ 4,632,000
			CONTINGENCY	20%	$ 926,000
			TOTAL PROJECT		$ 5,558,000

* All unit prices reflect 2024 costs.

Name	J-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	2,330	$588	$ 1,370,000
3	Manhole	EA	7	$20,322	$ 142,000
4	Sawcut and Remove Existing AC Pavement	SF	17,210	$2.66	$ 46,000
5	Crushed Miscellaneous Base	SF	17,210	$4	$ 69,000
6	Replace Asphalt Concrete Pavement	SF	17,210	$2	$ 34,000
7	Traffic Control	%	5%		$ 100,000
8	Erosion Control	%	1%		$ 21,000
9	Moblilization/Demobilization	%	10%		$ 213,000
			SUBTOTAL (CONSTRUCTION)		$ 2,343,000
	Engineering and Design	%	10%		$ 234,000
	Surveying & Staking & Geotechnical	%	5%		$ 117,000
	Construction Management/Staff	%	10%		$ 234,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 585,000
			SUBTOTAL COST		$ 2,928,000
			CONTINGENCY +	25%	$ 732,000
			TOTAL PROJECT		$ 3,660,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	J-1B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	800	$527	$ 422,000
2	Install 42" RCP	FT	1,020	$588	$ 600,000
3	Install 54" RCP	FT	1,330	$732	$ 974,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	19,520	$2.66	$ 52,000
6	Crushed Miscellaneous Base	SF	19,520	$4	$ 78,000
7	Replace Asphalt Concrete Pavement	SF	19,520	$2	$ 39,000
8	Traffic Control	%	5%		$ 116,000
9	Erosion Control	%	1%		$ 24,000
10	Moblilization/Demobilization	%	10%		$ 247,000
			SUBTOTAL (CONSTRUCTION)		$ 2,715,000
	Engineering and Design	%	10%		$ 272,000
	Surveying & Staking & Geotechnical	%	5%		$ 136,000
	Construction Management/Staff	%	10%		$ 272,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 680,000
			SUBTOTAL COST		$ 3,395,000
			CONTINGENCY	20%	$ 679,000
			TOTAL PROJECT		$ 4,074,000

* All unit prices reflect 2024 costs.

Name	J-1C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,160	$588	$ 682,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,340	$2.66	$ 28,000
5	Crushed Miscellaneous Base	SF	10,340	$4	$ 41,000
6	Replace Asphalt Concrete Pavement	SF	10,340	$2	$ 21,000
7	Traffic Control	%	5%		$ 61,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 130,000
			SUBTOTAL (CONSTRUCTION)		$ 1,426,000
	Engineering and Design	%	10%		$ 143,000
	Surveying & Staking & Geotechnical	%	5%		$ 71,000
	Construction Management/Staff	%	10%		$ 143,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 357,000
			SUBTOTAL COST		$ 1,783,000
			CONTINGENCY	20%	$ 357,000
			TOTAL PROJECT		$ 2,140,000

* All unit prices reflect 2024 costs.

Name	J-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	3,570	$911	$ 3,252,000
2	Install 72" RCP	FT	560	$1,016	$ 569,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Remove 24" RCP	FT	400	$35	$ 14,000
5	Remove 30" RCP	FT	340	$44	$ 15,000
6	Sawcut and Remove Existing AC Pavement	SF	33,520	$2.66	$ 89,000
7	Crushed Miscellaneous Base	SF	33,520	$4	$ 134,000
8	Replace Asphalt Concrete Pavement	SF	33,520	$2	$ 67,000
9	Traffic Control	%	5%		$ 217,000
10	Erosion Control	%	1%		$ 46,000
11	Moblilization/Demobilization	%	10%		$ 461,000
			SUBTOTAL (CONSTRUCTION)		$ 5,067,000
	Engineering and Design	%	10%		$ 507,000
	Surveying & Staking & Geotechnical	%	5%		$ 253,000
	Construction Management/Staff	%	10%		$ 507,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,267,000
			SUBTOTAL COST		$ 6,334,000
			CONTINGENCY +	25%	$ 1,584,000
			TOTAL PROJECT		$ 7,918,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	J-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	650	$527	$ 343,000
2	Install 42" RCP	FT	1,150	$588	$ 676,000
3	Install 60" RCP	FT	200	$816	$ 163,000
4	Manhole	EA	5	$20,322	$ 102,000
5	Sawcut and Remove Existing AC Pavement	SF	11,730	$2.66	$ 31,000
6	Crushed Miscellaneous Base	SF	11,730	$4	$ 47,000
7	Replace Asphalt Concrete Pavement	SF	11,730	$2	$ 23,000
8	Traffic Control	%	5%		$ 69,000
9	Erosion Control	%	1%		$ 15,000
10	Moblilization/Demobilization	%	10%		$ 147,000
			SUBTOTAL (CONSTRUCTION)		$ 1,616,000
	Engineering and Design	%	10%		$ 162,000
	Surveying & Staking & Geotechnical	%	5%		$ 81,000
	Construction Management/Staff	%	10%		$ 162,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 405,000
			SUBTOTAL COST		$ 2,021,000
			CONTINGENCY	20%	$ 404,000
			TOTAL PROJECT		$ 2,425,000

* All unit prices reflect 2024 costs.

Name	J-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,320	$732	$ 966,000
2	Install 66" RCP	FT	1,310	$911	$ 1,193,000
3	Install 72" RCP	FT	930	$1,016	$ 945,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	27,670	$2.66	$ 74,000
6	Crushed Miscellaneous Base	SF	27,670	$4	$ 111,000
7	Replace Asphalt Concrete Pavement	SF	27,670	$2	$ 55,000
8	Traffic Control	%	5%		$ 176,000
9	Erosion Control	%	1%		$ 37,000
10	Moblilization/Demobilization	%	10%		$ 374,000
			SUBTOTAL (CONSTRUCTION)		$ 4,114,000
	Engineering and Design	%	10%		$ 411,000
	Surveying & Staking & Geotechnical	%	5%		$ 206,000
	Construction Management/Staff	%	10%		$ 411,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,028,000
			SUBTOTAL COST		$ 5,142,000
			CONTINGENCY +	25%	$ 1,286,000
			TOTAL PROJECT		$ 6,428,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	J-3A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	490	$527	$ 258,000
2	Install 42" RCP	FT	1,350	$588	$ 794,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,550	$2.66	$ 28,000
5	Crushed Miscellaneous Base	SF	10,550	$4	$ 42,000
6	Replace Asphalt Concrete Pavement	SF	10,550	$2	$ 21,000
7	Traffic Control	%	5%		$ 62,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 132,000
			SUBTOTAL (CONSTRUCTION)		$ 1,452,000
	Engineering and Design	%	10%		$ 145,000
	Surveying & Staking & Geotechnical	%	5%		$ 73,000
	Construction Management/Staff	%	10%		$ 145,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 363,000
			SUBTOTAL COST		$ 1,815,000
			CONTINGENCY	20%	$ 363,000
			TOTAL PROJECT		$ 2,178,000

* All unit prices reflect 2024 costs.

Name	J-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	1,140	$656	$ 748,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,320	$2.66	$ 19,000
4	Crushed Miscellaneous Base	SF	7,320	$4	$ 29,000
5	Replace Asphalt Concrete Pavement	SF	7,320	$2	$ 15,000
6	Traffic Control	%	5%		$ 44,000
7	Erosion Control	%	1%		$ 9,000
8	Moblilization/Demobilization	%	10%		$ 93,000
			SUBTOTAL (CONSTRUCTION)		$ 1,018,000
	Engineering and Design	%	10%		$ 102,000
	Surveying & Staking & Geotechnical	%	5%		$ 51,000
	Construction Management/Staff	%	10%		$ 102,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 255,000
			SUBTOTAL COST		$ 1,273,000
			CONTINGENCY	20%	$ 255,000
			TOTAL PROJECT		$ 1,528,000

* All unit prices reflect 2024 costs.

Name	J-4A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	580	$527	$ 306,000
2	Install 42" RCP	FT	1,330	$588	$ 782,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,910	$2.66	$ 29,000
5	Crushed Miscellaneous Base	SF	10,910	$4	$ 44,000
6	Replace Asphalt Concrete Pavement	SF	10,910	$2	$ 22,000
7	Traffic Control	%	5%		$ 64,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 136,000
			SUBTOTAL (CONSTRUCTION)		$ 1,498,000
	Engineering and Design	%	10%		$ 150,000
	Surveying & Staking & Geotechnical	%	5%		$ 75,000
	Construction Management/Staff	%	10%		$ 150,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 375,000
			SUBTOTAL COST		$ 1,873,000
			CONTINGENCY	20%	$ 375,000
			TOTAL PROJECT		$ 2,248,000

* All unit prices reflect 2024 costs.

Name	J-4B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	600	$527	$ 316,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,960	$2.66	$ 29,000
5	Crushed Miscellaneous Base	SF	10,960	$4	$ 44,000
6	Replace Asphalt Concrete Pavement	SF	10,960	$2	$ 22,000
7	Traffic Control	%	5%		$ 64,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 137,000
			SUBTOTAL (CONSTRUCTION)		$ 1,504,000
	Engineering and Design	%	10%		$ 150,000
	Surveying & Staking & Geotechnical	%	5%		$ 75,000
	Construction Management/Staff	%	10%		$ 150,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 375,000
			SUBTOTAL COST		$ 1,879,000
			CONTINGENCY	20%	$ 376,000
			TOTAL PROJECT		$ 2,255,000

* All unit prices reflect 2024 costs.

Name	M-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,700	$816	$ 1,387,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 42" RCP	FT	910	$62	$ 56,000
4	Remove 48" RCP	FT	650	$71	$ 46,000
5	Sawcut and Remove Existing AC Pavement	SF	12,750	$2.66	$ 34,000
6	Crushed Miscellaneous Base	SF	12,750	$4	$ 51,000
7	Replace Asphalt Concrete Pavement	SF	12,750	$2	$ 26,000
8	Traffic Control	%	5%		$ 84,000
9	Erosion Control	%	1%		$ 18,000
10	Moblilization/Demobilization	%	10%		$ 178,000
			SUBTOTAL (CONSTRUCTION)		$ 1,961,000
	Engineering and Design	%	10%		$ 196,000
	Surveying & Staking & Geotechnical	%	5%		$ 98,000
	Construction Management/Staff	%	10%		$ 196,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 490,000
			SUBTOTAL COST		$ 2,451,000
			CONTINGENCY +	25%	$ 613,000
			TOTAL PROJECT		$ 3,064,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	870	$816	$ 710,000
2	Install 6' x 4' RCB	FT	250	$1,323	$ 331,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Remove 48" RCP	FT	840	$71	$ 60,000
5	Sawcut and Remove Existing AC Pavement	SF	8,680	$2.66	$ 23,000
6	Crushed Miscellaneous Base	SF	8,680	$4	$ 35,000
7	Replace Asphalt Concrete Pavement	SF	8,680	$2	$ 17,000
8	Traffic Control	%	5%		$ 62,000
9	Erosion Control	%	1%		$ 13,000
10	Moblilization/Demobilization	%	10%		$ 131,000
			SUBTOTAL (CONSTRUCTION)		$ 1,443,000
	Engineering and Design	%	10%		$ 144,000
	Surveying & Staking & Geotechnical	%	5%		$ 72,000
	Construction Management/Staff	%	10%		$ 144,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 360,000
			SUBTOTAL COST		$ 1,803,000
			CONTINGENCY +	25%	$ 451,000
			TOTAL PROJECT		$ 2,254,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,240	$588	$ 729,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,810	$2.66	$ 29,000
5	Crushed Miscellaneous Base	SF	10,810	$4	$ 43,000
6	Replace Asphalt Concrete Pavement	SF	10,810	$2	$ 22,000
7	Traffic Control	%	5%		$ 64,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 135,000
			SUBTOTAL (CONSTRUCTION)		$ 1,485,000
	Engineering and Design	%	10%		$ 149,000
	Surveying & Staking & Geotechnical	%	5%		$ 74,000
	Construction Management/Staff	%	10%		$ 149,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 372,000
			SUBTOTAL COST		$ 1,857,000
			CONTINGENCY	20%	$ 371,000
			TOTAL PROJECT		$ 2,228,000

* All unit prices reflect 2024 costs.

Name	M-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	1,090	$656	$ 715,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,000	$2.66	$ 19,000
4	Crushed Miscellaneous Base	SF	7,000	$4	$ 28,000
5	Replace Asphalt Concrete Pavement	SF	7,000	$2	$ 14,000
6	Traffic Control	%	5%		$ 42,000
7	Erosion Control	%	1%		$ 9,000
8	Moblilization/Demobilization	%	10%		$ 89,000
			SUBTOTAL (CONSTRUCTION)		$ 977,000
	Engineering and Design	%	10%		$ 98,000
	Surveying & Staking & Geotechnical	%	5%		$ 49,000
	Construction Management/Staff	%	10%		$ 98,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 245,000
			SUBTOTAL COST		$ 1,222,000
			CONTINGENCY +	25%	$ 306,000
			TOTAL PROJECT		$ 1,528,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	550	$527	$ 290,000
2	Install 42" RCP	FT	1,150	$588	$ 676,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	9,690	$2.66	$ 26,000
5	Crushed Miscellaneous Base	SF	9,690	$4	$ 39,000
6	Replace Asphalt Concrete Pavement	SF	9,690	$2	$ 19,000
7	Traffic Control	%	5%		$ 57,000
8	Erosion Control	%	1%		$ 12,000
9	Moblilization/Demobilization	%	10%		$ 120,000
			SUBTOTAL (CONSTRUCTION)		$ 1,320,000
	Engineering and Design	%	10%		$ 132,000
	Surveying & Staking & Geotechnical	%	5%		$ 66,000
	Construction Management/Staff	%	10%		$ 132,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 330,000
			SUBTOTAL COST		$ 1,650,000
			CONTINGENCY	20%	$ 330,000
			TOTAL PROJECT		$ 1,980,000

* All unit prices reflect 2024 costs.

Name	M-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	1,150	$656	$ 754,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,380	$2.66	$ 20,000
4	Crushed Miscellaneous Base	SF	7,380	$4	$ 30,000
5	Replace Asphalt Concrete Pavement	SF	7,380	$2	$ 15,000
6	Traffic Control	%	5%		$ 44,000
7	Erosion Control	%	1%		$ 9,000
8	Moblilization/Demobilization	%	10%		$ 93,000
			SUBTOTAL (CONSTRUCTION)		$ 1,026,000
	Engineering and Design	%	10%		$ 103,000
	Surveying & Staking & Geotechnical	%	5%		$ 51,000
	Construction Management/Staff	%	10%		$ 103,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 257,000
			SUBTOTAL COST		$ 1,283,000
			CONTINGENCY +	25%	$ 321,000
			TOTAL PROJECT		$ 1,604,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-3A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	580	$527	$ 306,000
2	Install 42" RCP	FT	1,460	$588	$ 858,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,680	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,680	$4	$ 47,000
6	Replace Asphalt Concrete Pavement	SF	11,680	$2	$ 23,000
7	Traffic Control	%	5%		$ 68,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 145,000
			SUBTOTAL (CONSTRUCTION)		$ 1,594,000
	Engineering and Design	%	10%		$ 159,000
	Surveying & Staking & Geotechnical	%	5%		$ 80,000
	Construction Management/Staff	%	10%		$ 159,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 398,000
			SUBTOTAL COST		$ 1,992,000
			CONTINGENCY +	25%	$ 498,000
			TOTAL PROJECT		$ 2,490,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	700	$527	$ 369,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Sawcut and Remove Existing AC Pavement	SF	3,740	$2.66	$ 10,000
4	Crushed Miscellaneous Base	SF	3,740	$4	$ 15,000
5	Replace Asphalt Concrete Pavement	SF	3,740	$2	$ 7,000
6	Traffic Control	%	5%		$ 22,000
7	Erosion Control	%	1%		$ 5,000
8	Moblilization/Demobilization	%	10%		$ 47,000
			SUBTOTAL (CONSTRUCTION)		$ 516,000
	Engineering and Design	%	10%		$ 51,600
	Surveying & Staking & Geotechnical	%	5%		$ 26,000
	Construction Management/Staff	%	10%		$ 52,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 129,600
			SUBTOTAL COST		$ 645,600
			CONTINGENCY	20%	$ 129,000
			TOTAL PROJECT		$ 774,600

* All unit prices reflect 2024 costs.

Name	M-5-A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install Double 14' x 6' RCB	FT	1,360	$16,722	$ 22,742,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	40,800	$2.66	$ 109,000
4	Crushed Miscellaneous Base	SF	40,800	$4	$ 163,000
5	Replace Asphalt Concrete Pavement	SF	40,800	$2	$ 82,000
6	Traffic Control	%	5%		$ 1,158,000
7	Erosion Control	%	1%		$ 243,000
8	Moblilization/Demobilization	%	10%		$ 2,456,000
			SUBTOTAL (CONSTRUCTION)		$ 27,014,000
	Engineering and Design	%	10%		$ 2,701,000
	Surveying & Staking & Geotechnical	%	5%		$ 1,351,000
	Construction Management/Staff	%	10%		$ 2,701,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 6,753,000
			SUBTOTAL COST		$ 33,767,000
			CONTINGENCY +	25%	$ 8,442,000
			TOTAL PROJECT		$ 42,209,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-5-B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 14' x 8' RCB	FT	1,880	$8,361	$ 15,719,000
2	Install Double 14' x 6' RCB	FT	1,870	$16,722	$ 31,270,000
3	Manhole	EA	9	$20,322	$ 183,000
4	Sawcut and Remove Existing AC Pavement	SF	86,180	$2.66	$ 229,000
5	Crushed Miscellaneous Base	SF	86,180	$4	$ 345,000
6	Replace Asphalt Concrete Pavement	SF	86,180	$2	$ 172,000
7	Traffic Control	%	5%		$ 2,396,000
8	Erosion Control	%	1%		$ 503,000
9	Moblilization/Demobilization	%	10%		$ 5,082,000
			SUBTOTAL (CONSTRUCTION)		$ 55,899,000
	Engineering and Design	%	10%		$ 5,590,000
	Surveying & Staking & Geotechnical	%	5%		$ 2,795,000
	Construction Management/Staff	%	10%		$ 5,590,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 13,975,000
			SUBTOTAL COST		$ 69,874,000
			CONTINGENCY +	25%	$ 17,469,000
			TOTAL PROJECT		$ 87,343,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	M-5-C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 96" RCP	FT	3,760	$1,572	$ 5,911,000
2	Manhole	EA	9	$20,322	$ 183,000
3	Sawcut and Remove Existing AC Pavement	SF	40,270	$2.66	$ 107,000
4	Crushed Miscellaneous Base	SF	40,270	$4	$ 161,000
5	Replace Asphalt Concrete Pavement	SF	40,270	$2	$ 81,000
6	Traffic Control	%	5%		$ 322,000
7	Erosion Control	%	1%		$ 68,000
8	Moblilization/Demobilization	%	10%		$ 683,000
			SUBTOTAL (CONSTRUCTION)		$ 7,516,000
	Engineering and Design	%	10%		$ 752,000
	Surveying & Staking & Geotechnical	%	5%		$ 376,000
	Construction Management/Staff	%	10%		$ 752,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,880,000
			SUBTOTAL COST		$ 9,396,000
			CONTINGENCY	20%	$ 1,879,000
			TOTAL PROJECT		$ 11,275,000

* All unit prices reflect 2024 costs.

Name	M-5-D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	1,310	$588	$ 770,000
3	Install 54" RCP	FT	3,180	$732	$ 2,328,000
4	Install 60" RCP	FT	2,010	$816	$ 1,640,000
5	Manhole	EA	18	$20,322	$ 366,000
6	Sawcut and Remove Existing AC Pavement	SF	48,560	$2.66	$ 129,000
7	Crushed Miscellaneous Base	SF	48,560	$4	$ 194,000
8	Replace Asphalt Concrete Pavement	SF	48,560	$2	$ 97,000
9	Traffic Control	%	5%		$ 294,000
10	Erosion Control	%	1%		$ 62,000
11	Moblilization/Demobilization	%	10%		$ 623,000
			SUBTOTAL (CONSTRUCTION)		$ 6,856,000
	Engineering and Design	%	10%		$ 686,000
	Surveying & Staking & Geotechnical	%	5%		$ 343,000
	Construction Management/Staff	%	10%		$ 686,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,715,000
			SUBTOTAL COST		$ 8,571,000
			CONTINGENCY +	25%	$ 2,143,000
			TOTAL PROJECT		$ 10,714,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5-E				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	700	$527	$ 369,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Sawcut and Remove Existing AC Pavement	SF	3,740	$2.66	$ 10,000
4	Crushed Miscellaneous Base	SF	3,740	$4	$ 15,000
5	Replace Asphalt Concrete Pavement	SF	3,740	$2	$ 7,000
6	Traffic Control	%	5%		$ 22,000
7	Erosion Control	%	1%		$ 5,000
8	Moblilization/Demobilization	%	10%		$ 47,000
			SUBTOTAL (CONSTRUCTION)		$ 516,000
	Engineering and Design	%	10%		$ 51,600
	Surveying & Staking & Geotechnical	%	5%		$ 26,000
	Construction Management/Staff	%	10%		$ 52,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 129,600
			SUBTOTAL COST		$ 645,600
			CONTINGENCY +	25%	$ 161,000
			TOTAL PROJECT		$ 806,600

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	460	$527	$ 242,000
2	Install 42" RCP	FT	1,400	$588	$ 823,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	10,680	$2.66	$ 28,000
5	Crushed Miscellaneous Base	SF	10,680	$4	$ 43,000
6	Replace Asphalt Concrete Pavement	SF	10,680	$2	$ 21,000
7	Traffic Control	%	5%		$ 63,000
8	Erosion Control	%	1%		$ 13,000
9	Moblilization/Demobilization	%	10%		$ 134,000
			SUBTOTAL (CONSTRUCTION)		$ 1,469,000
	Engineering and Design	%	10%		$ 147,000
	Surveying & Staking & Geotechnical	%	5%		$ 73,000
	Construction Management/Staff	%	10%		$ 147,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 367,000
			SUBTOTAL COST		$ 1,836,000
			CONTINGENCY +	25%	$ 459,000
			TOTAL PROJECT		$ 2,295,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	1,330	$911	$ 1,212,000
2	Install 72" RCP	FT	4,130	$1,016	$ 4,196,000
3	Install 78" RCP	FT	1,330	$1,133	$ 1,507,000
4	Manhole	EA	17	$20,322	$ 345,000
5	Sawcut and Remove Existing AC Pavement	SF	58,000	$2.66	$ 154,000
6	Crushed Miscellaneous Base	SF	58,000	$4	$ 232,000
7	Replace Asphalt Concrete Pavement	SF	58,000	$2	$ 116,000
8	Traffic Control	%	5%		$ 388,000
9	Erosion Control	%	1%		$ 82,000
10	Moblilization/Demobilization	%	10%		$ 823,000
			SUBTOTAL (CONSTRUCTION)		$ 9,055,000
	Engineering and Design	%	10%		$ 906,000
	Surveying & Staking & Geotechnical	%	5%		$ 453,000
	Construction Management/Staff	%	10%		$ 906,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,265,000
			SUBTOTAL COST		$ 11,320,000
			CONTINGENCY	20%	$ 2,264,000
			TOTAL PROJECT		$ 13,584,000

* All unit prices reflect 2024 costs.

Name	M-5B-A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	340	$527	$ 179,000
2	Manhole	EA	1	$20,322	$ 20,000
3	Sawcut and Remove Existing AC Pavement	SF	1,820	$2.66	$ 5,000
4	Crushed Miscellaneous Base	SF	1,820	$4	$ 7,000
5	Replace Asphalt Concrete Pavement	SF	1,820	$2	$ 4,000
6	Traffic Control	%	5%		$ 11,000
7	Erosion Control	%	1%		$ 2,000
8	Moblilization/Demobilization	%	10%		$ 23,000
			SUBTOTAL (CONSTRUCTION)		$ 251,000
	Engineering and Design	%	10%		$ 25,100
	Surveying & Staking & Geotechnical	%	5%		$ 13,000
	Construction Management/Staff	%	10%		$ 25,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 63,100
			SUBTOTAL COST		$ 314,100
			CONTINGENCY	20%	$ 63,000
			TOTAL PROJECT		$ 377,100

* All unit prices reflect 2024 costs.

Name	M-5B-B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	690	$527	$ 364,000
2	Install 42" RCP	FT	1,350	$588	$ 794,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,620	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,620	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,620	$2	$ 23,000
7	Traffic Control	%	5%		$ 68,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 144,000
			SUBTOTAL (CONSTRUCTION)		$ 1,586,000
	Engineering and Design	%	10%		$ 159,000
	Surveying & Staking & Geotechnical	%	5%		$ 79,000
	Construction Management/Staff	%	10%		$ 159,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 397,000
			SUBTOTAL COST		$ 1,983,000
			CONTINGENCY	20%	$ 397,000
			TOTAL PROJECT		$ 2,380,000

* All unit prices reflect 2024 costs.

Name	M-5B-C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	1,350	$588	$ 794,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,510	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,510	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,510	$2	$ 23,000
7	Traffic Control	%	5%		$ 67,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 143,000
			SUBTOTAL (CONSTRUCTION)		$ 1,573,000
	Engineering and Design	%	10%		$ 157,000
	Surveying & Staking & Geotechnical	%	5%		$ 79,000
	Construction Management/Staff	%	10%		$ 157,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 393,000
			SUBTOTAL COST		$ 1,966,000
			CONTINGENCY	20%	$ 393,000
			TOTAL PROJECT		$ 2,359,000

* All unit prices reflect 2024 costs.

Name	M-5B-D	100			
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	730	$527	$ 385,000
2	Install 42" RCP	FT	1,330	$588	$ 782,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,710	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,710	$4	$ 47,000
6	Replace Asphalt Concrete Pavement	SF	11,710	$2	$ 23,000
7	Traffic Control	%	5%		$ 69,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 145,000
			SUBTOTAL (CONSTRUCTION)		$ 1,598,000
	Engineering and Design	%	10%		$ 160,000
	Surveying & Staking & Geotechnical	%	5%		$ 80,000
	Construction Management/Staff	%	10%		$ 160,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 400,000
			SUBTOTAL COST		$ 1,998,000
			CONTINGENCY	20%	$ 400,000
			TOTAL PROJECT		$ 2,398,000

* All unit prices reflect 2024 costs.

Name	M-5B-E				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	790	$527	$ 416,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,330	$656	$ 872,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	20,510	$2.66	$ 55,000
6	Crushed Miscellaneous Base	SF	20,510	$4	$ 82,000
7	Replace Asphalt Concrete Pavement	SF	20,510	$2	$ 41,000
8	Traffic Control	%	5%		$ 121,000
9	Erosion Control	%	1%		$ 25,000
10	Moblilization/Demobilization	%	10%		$ 257,000
			SUBTOTAL (CONSTRUCTION)		$ 2,828,000
	Engineering and Design	%	10%		$ 283,000
	Surveying & Staking & Geotechnical	%	5%		$ 141,000
	Construction Management/Staff	%	10%		$ 283,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 707,000
			SUBTOTAL COST		$ 3,535,000
			CONTINGENCY +	25%	$ 884,000
			TOTAL PROJECT		$ 4,419,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway and SCG transmisson line conflict

Name	M-5C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	350	$527	$ 184,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,340	$656	$ 879,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	18,220	$2.66	$ 48,000
6	Crushed Miscellaneous Base	SF	18,220	$4	$ 73,000
7	Replace Asphalt Concrete Pavement	SF	18,220	$2	$ 36,000
8	Traffic Control	%	5%		$ 108,000
9	Erosion Control	%	1%		$ 23,000
10	Moblilization/Demobilization	%	10%		$ 229,000
			SUBTOTAL (CONSTRUCTION)		$ 2,519,000
	Engineering and Design	%	10%		$ 252,000
	Surveying & Staking & Geotechnical	%	5%		$ 126,000
	Construction Management/Staff	%	10%		$ 252,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 630,000
			SUBTOTAL COST		$ 3,149,000
			CONTINGENCY +	25%	$ 787,000
			TOTAL PROJECT		$ 3,936,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	810	$527	$ 427,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Sawcut and Remove Existing AC Pavement	SF	4,320	$2.66	$ 11,000
4	Crushed Miscellaneous Base	SF	4,320	$4	$ 17,000
5	Replace Asphalt Concrete Pavement	SF	4,320	$2	$ 9,000
6	Traffic Control	%	5%		$ 25,000
7	Erosion Control	%	1%		$ 5,000
8	Moblilization/Demobilization	%	10%		$ 54,000
			SUBTOTAL (CONSTRUCTION)		$ 589,000
	Engineering and Design	%	10%		$ 58,900
	Surveying & Staking & Geotechnical	%	5%		$ 29,000
	Construction Management/Staff	%	10%		$ 59,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 146,900
			SUBTOTAL COST		$ 735,900
			CONTINGENCY	20%	$ 147,000
			TOTAL PROJECT		$ 882,900

* All unit prices reflect 2024 costs.

Name	M-5E				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,320	$816	$ 1,077,000
2	Install 66" RCP	FT	1,330	$911	$ 1,212,000
3	Install 72" RCP	FT	5,480	$1,016	$ 5,568,000
4	Install 78" RCP	FT	5,480	$1,133	$ 6,209,000
5	Manhole	EA	34	$20,322	$ 691,000
6	Sawcut and Remove Existing AC Pavement	SF	110,270	$2.66	$ 293,000
7	Crushed Miscellaneous Base	SF	110,270	$4	$ 441,000
8	Replace Asphalt Concrete Pavement	SF	110,270	$2	$ 221,000
9	Traffic Control	%	5%		$ 786,000
10	Erosion Control	%	1%		$ 165,000
11	Moblilization/Demobilization	%	10%		$ 1,666,000
			SUBTOTAL (CONSTRUCTION)		$ 18,329,000
	Engineering and Design	%	10%		$ 1,833,000
	Surveying & Staking & Geotechnical	%	5%		$ 916,000
	Construction Management/Staff	%	10%		$ 1,833,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 4,582,000
			SUBTOTAL COST		$ 22,911,000
			CONTINGENCY	20%	$ 4,582,000
			TOTAL PROJECT		$ 27,493,000

* All unit prices reflect 2024 costs.

Name	M-5E-A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 42" RCP	FT	820	$588	$ 482,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	7,600	$2.66	$ 20,000
5	Crushed Miscellaneous Base	SF	7,600	$4	$ 30,000
6	Replace Asphalt Concrete Pavement	SF	7,600	$2	$ 15,000
7	Traffic Control	%	5%		$ 44,000
8	Erosion Control	%	1%		$ 9,000
9	Moblilization/Demobilization	%	10%		$ 94,000
			SUBTOTAL (CONSTRUCTION)		$ 1,029,000
	Engineering and Design	%	10%		$ 103,000
	Surveying & Staking & Geotechnical	%	5%		$ 51,000
	Construction Management/Staff	%	10%		$ 103,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 257,000
			SUBTOTAL COST		$ 1,286,000
			CONTINGENCY	20%	$ 257,000
			TOTAL PROJECT		$ 1,543,000

* All unit prices reflect 2024 costs.

Name	M-5E-B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	500	$527	$ 264,000
2	Install 42" RCP	FT	1,200	$588	$ 706,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	9,720	$2.66	$ 26,000
5	Crushed Miscellaneous Base	SF	9,720	$4	$ 39,000
6	Replace Asphalt Concrete Pavement	SF	9,720	$2	$ 19,000
7	Traffic Control	%	5%		$ 57,000
8	Erosion Control	%	1%		$ 12,000
9	Moblilization/Demobilization	%	10%		$ 120,000
			SUBTOTAL (CONSTRUCTION)		$ 1,324,000
	Engineering and Design	%	10%		$ 132,000
	Surveying & Staking & Geotechnical	%	5%		$ 66,000
	Construction Management/Staff	%	10%		$ 132,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 330,000
			SUBTOTAL COST		$ 1,654,000
			CONTINGENCY	20%	$ 331,000
			TOTAL PROJECT		$ 1,985,000

* All unit prices reflect 2024 costs.

Name	M-5E-C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	490	$527	$ 258,000
2	Install 42" RCP	FT	1,180	$588	$ 694,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Remove 36" RCP	FT	70	$53	$ 4,000
5	Sawcut and Remove Existing AC Pavement	SF	9,550	$2.66	$ 25,000
6	Crushed Miscellaneous Base	SF	9,550	$4	$ 38,000
7	Replace Asphalt Concrete Pavement	SF	9,550	$2	$ 19,000
8	Traffic Control	%	5%		$ 56,000
9	Erosion Control	%	1%		$ 12,000
10	Moblilization/Demobilization	%	10%		$ 119,000
			SUBTOTAL (CONSTRUCTION)		$ 1,306,000
	Engineering and Design	%	10%		$ 131,000
	Surveying & Staking & Geotechnical	%	5%		$ 65,000
	Construction Management/Staff	%	10%		$ 131,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 327,000
			SUBTOTAL COST		$ 1,633,000
			CONTINGENCY	20%	$ 327,000
			TOTAL PROJECT		$ 1,960,000

* All unit prices reflect 2024 costs.

Name	M-5E-D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	590	$527	$ 311,000
2	Install 42" RCP	FT	1,070	$588	$ 629,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	9,440	$2.66	$ 25,000
5	Crushed Miscellaneous Base	SF	9,440	$4	$ 38,000
6	Replace Asphalt Concrete Pavement	SF	9,440	$2	$ 19,000
7	Traffic Control	%	5%		$ 55,000
8	Erosion Control	%	1%		$ 12,000
9	Moblilization/Demobilization	%	10%		$ 117,000
			SUBTOTAL (CONSTRUCTION)		$ 1,287,000
	Engineering and Design	%	10%		$ 129,000
	Surveying & Staking & Geotechnical	%	5%		$ 64,000
	Construction Management/Staff	%	10%		$ 129,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 322,000
			SUBTOTAL COST		$ 1,609,000
			CONTINGENCY	20%	$ 322,000
			TOTAL PROJECT		$ 1,931,000

* All unit prices reflect 2024 costs.

Name	M-5E-E				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	640	$527	$ 337,000
2	Install 42" RCP	FT	1,030	$588	$ 606,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	9,470	$2.66	$ 25,000
5	Crushed Miscellaneous Base	SF	9,470	$4	$ 38,000
6	Replace Asphalt Concrete Pavement	SF	9,470	$2	$ 19,000
7	Traffic Control	%	5%		$ 55,000
8	Erosion Control	%	1%		$ 12,000
9	Moblilization/Demobilization	%	10%		$ 117,000
			SUBTOTAL (CONSTRUCTION)		$ 1,290,000
	Engineering and Design	%	10%		$ 129,000
	Surveying & Staking & Geotechnical	%	5%		$ 65,000
	Construction Management/Staff	%	10%		$ 129,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 323,000
			SUBTOTAL COST		$ 1,613,000
			CONTINGENCY	20%	$ 323,000
			TOTAL PROJECT		$ 1,936,000

* All unit prices reflect 2024 costs.

Name	M-5E-F				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	650	$527	$ 343,000
2	Install 42" RCP	FT	1,000	$588	$ 588,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	9,350	$2.66	$ 25,000
5	Crushed Miscellaneous Base	SF	9,350	$4	$ 37,000
6	Replace Asphalt Concrete Pavement	SF	9,350	$2	$ 19,000
7	Traffic Control	%	5%		$ 55,000
8	Erosion Control	%	1%		$ 11,000
9	Moblilization/Demobilization	%	10%		$ 116,000
			SUBTOTAL (CONSTRUCTION)		$ 1,275,000
	Engineering and Design	%	10%		$ 128,000
	Surveying & Staking & Geotechnical	%	5%		$ 64,000
	Construction Management/Staff	%	10%		$ 128,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 320,000
			SUBTOTAL COST		$ 1,595,000
			CONTINGENCY	20%	$ 319,000
			TOTAL PROJECT		$ 1,914,000

* All unit prices reflect 2024 costs.

Name	M-5F				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	350	$527	$ 184,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,350	$656	$ 886,000
4	Install 60" RCP	FT	1,140	$816	$ 930,000
5	Install 66" RCP	FT	1,520	$911	$ 1,385,000
6	Manhole	EA	14	$20,322	$ 285,000
7	Sawcut and Remove Existing AC Pavement	SF	39,320	$2.66	$ 105,000
8	Crushed Miscellaneous Base	SF	39,320	$4	$ 157,000
9	Replace Asphalt Concrete Pavement	SF	39,320	$2	$ 79,000
10	Traffic Control	%	5%		$ 239,000
11	Erosion Control	%	1%		$ 50,000
12	Moblilization/Demobilization	%	10%		$ 508,000
			SUBTOTAL (CONSTRUCTION)		$ 5,584,000
	Engineering and Design	%	10%		$ 558,000
	Surveying & Staking & Geotechnical	%	5%		$ 279,000
	Construction Management/Staff	%	10%		$ 558,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,395,000
			SUBTOTAL COST		$ 6,979,000
			CONTINGENCY +	25%	$ 1,745,000
			TOTAL PROJECT		$ 8,724,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5F-A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	360	$527	$ 190,000
2	Install 42" RCP	FT	1,330	$588	$ 782,000
3	Install 48" RCP	FT	1,320	$656	$ 866,000
4	Install 54" RCP	FT	1,330	$732	$ 974,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	27,460	$2.66	$ 73,000
7	Crushed Miscellaneous Base	SF	27,460	$4	$ 110,000
8	Replace Asphalt Concrete Pavement	SF	27,460	$2	$ 55,000
9	Traffic Control	%	5%		$ 164,000
10	Erosion Control	%	1%		$ 34,000
11	Moblilization/Demobilization	%	10%		$ 347,000
			SUBTOTAL (CONSTRUCTION)		$ 3,819,000
	Engineering and Design	%	10%		$ 382,000
	Surveying & Staking & Geotechnical	%	5%		$ 191,000
	Construction Management/Staff	%	10%		$ 382,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 955,000
			SUBTOTAL COST		$ 4,774,000
			CONTINGENCY +	25%	$ 1,194,000
			TOTAL PROJECT		$ 5,968,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-5G				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,340	$732	$ 981,000
2	Install 66" RCP	FT	2,650	$911	$ 2,414,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Sawcut and Remove Existing AC Pavement	SF	30,530	$2.66	$ 81,000
5	Crushed Miscellaneous Base	SF	30,530	$4	$ 122,000
6	Replace Asphalt Concrete Pavement	SF	30,530	$2	$ 61,000
7	Traffic Control	%	5%		$ 193,000
8	Erosion Control	%	1%		$ 41,000
9	Moblilization/Demobilization	%	10%		$ 410,000
			SUBTOTAL (CONSTRUCTION)		$ 4,506,000
	Engineering and Design	%	10%		$ 451,000
	Surveying & Staking & Geotechnical	%	5%		$ 225,000
	Construction Management/Staff	%	10%		$ 451,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,127,000
			SUBTOTAL COST		$ 5,633,000
			CONTINGENCY +	25%	$ 1,408,000
			TOTAL PROJECT		$ 7,041,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway and 12' water main conflict

Name	M-5G-A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 42" RCP	FT	1,150	$588	$ 676,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	6,760	$2.66	$ 18,000
4	Crushed Miscellaneous Base	SF	6,760	$4	$ 27,000
5	Replace Asphalt Concrete Pavement	SF	6,760	$2	$ 14,000
6	Traffic Control	%	5%		$ 40,000
7	Erosion Control	%	1%		$ 8,000
8	Moblilization/Demobilization	%	10%		$ 84,000
			SUBTOTAL (CONSTRUCTION)		$ 928,000
	Engineering and Design	%	10%		$ 93,000
	Surveying & Staking & Geotechnical	%	5%		$ 46,000
	Construction Management/Staff	%	10%		$ 93,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 232,000
			SUBTOTAL COST		$ 1,160,000
			CONTINGENCY +	25%	$ 290,000
			TOTAL PROJECT		$ 1,450,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-5G-B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,310	$527	$ 690,000
2	Install 42" RCP	FT	750	$588	$ 441,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,400	$2.66	$ 30,000
5	Crushed Miscellaneous Base	SF	11,400	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,400	$2	$ 23,000
7	Traffic Control	%	5%		$ 67,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 141,000
			SUBTOTAL (CONSTRUCTION)		$ 1,554,000
	Engineering and Design	%	10%		$ 155,000
	Surveying & Staking & Geotechnical	%	5%		$ 78,000
	Construction Management/Staff	%	10%		$ 155,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 388,000
			SUBTOTAL COST		$ 1,942,000
			CONTINGENCY +	25%	$ 486,000
			TOTAL PROJECT		$ 2,428,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-5G-C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	730	$527	$ 385,000
2	Install 42" RCP	FT	1,310	$588	$ 770,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,590	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,590	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,590	$2	$ 23,000
7	Traffic Control	%	5%		$ 68,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 144,000
			SUBTOTAL (CONSTRUCTION)		$ 1,583,000
	Engineering and Design	%	10%		$ 158,000
	Surveying & Staking & Geotechnical	%	5%		$ 79,000
	Construction Management/Staff	%	10%		$ 158,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 395,000
			SUBTOTAL COST		$ 1,978,000
			CONTINGENCY +	25%	$ 495,000
			TOTAL PROJECT		$ 2,473,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-5H				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	350	$527	$ 184,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,340	$656	$ 879,000
4	Install 54" RCP	FT	1,150	$732	$ 842,000
5	Install 72" RCP	FT	2,830	$1,016	$ 2,875,000
6	Manhole	EA	17	$20,322	$ 345,000
7	Sawcut and Remove Existing AC Pavement	SF	50,520	$2.66	$ 134,000
8	Crushed Miscellaneous Base	SF	50,520	$4	$ 202,000
9	Replace Asphalt Concrete Pavement	SF	50,520	$2	$ 101,000
10	Traffic Control	%	5%		$ 317,000
11	Erosion Control	%	1%		$ 67,000
12	Moblilization/Demobilization	%	10%		$ 672,000
			SUBTOTAL (CONSTRUCTION)		$ 7,394,000
	Engineering and Design	%	10%		$ 739,000
	Surveying & Staking & Geotechnical	%	5%		$ 370,000
	Construction Management/Staff	%	10%		$ 739,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,848,000
			SUBTOTAL COST		$ 9,242,000
			CONTINGENCY +	25%	$ 2,311,000
			TOTAL PROJECT		$ 11,553,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-6A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	2,630	$1,016	$ 2,672,000
2	Install 78" RCP	FT	1,380	$1,133	$ 1,564,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Sawcut and Remove Existing AC Pavement	SF	35,170	$2.66	$ 94,000
5	Crushed Miscellaneous Base	SF	35,170	$4	$ 141,000
6	Replace Asphalt Concrete Pavement	SF	35,170	$2	$ 70,000
7	Traffic Control	%	5%		$ 237,000
8	Erosion Control	%	1%		$ 50,000
9	Moblilization/Demobilization	%	10%		$ 503,000
			SUBTOTAL (CONSTRUCTION)		$ 5,534,000
	Engineering and Design	%	10%		$ 553,000
	Surveying & Staking & Geotechnical	%	5%		$ 277,000
	Construction Management/Staff	%	10%		$ 553,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,383,000
			SUBTOTAL COST		$ 6,917,000
			CONTINGENCY	20%	$ 1,383,000
			TOTAL PROJECT		$ 8,300,000

* All unit prices reflect 2024 costs.

Name	M-6B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	340	$527	$ 179,000
2	Install 42" RCP	FT	1,370	$588	$ 806,000
3	Install 48" RCP	FT	1,290	$656	$ 846,000
4	Install 66" RCP	FT	2,650	$911	$ 2,414,000
5	Manhole	EA	14	$20,322	$ 285,000
6	Sawcut and Remove Existing AC Pavement	SF	40,890	$2.66	$ 109,000
7	Crushed Miscellaneous Base	SF	40,890	$4	$ 164,000
8	Replace Asphalt Concrete Pavement	SF	40,890	$2	$ 82,000
9	Traffic Control	%	5%		$ 244,000
10	Erosion Control	%	1%		$ 51,000
11	Moblilization/Demobilization	%	10%		$ 518,000
			SUBTOTAL (CONSTRUCTION)		$ 5,698,000
	Engineering and Design	%	10%		$ 570,000
	Surveying & Staking & Geotechnical	%	5%		$ 285,000
	Construction Management/Staff	%	10%		$ 570,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,425,000
			SUBTOTAL COST		$ 7,123,000
			CONTINGENCY +	25%	$ 1,781,000
			TOTAL PROJECT		$ 8,904,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main and SCG transmisson line conflict

Name	M-6C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	320	$527	$ 169,000
2	Install 42" RCP	FT	1,650	$588	$ 970,000
3	Install 48" RCP	FT	1,310	$656	$ 859,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	19,810	$2.66	$ 53,000
6	Crushed Miscellaneous Base	SF	19,810	$4	$ 79,000
7	Replace Asphalt Concrete Pavement	SF	19,810	$2	$ 40,000
8	Traffic Control	%	5%		$ 117,000
9	Erosion Control	%	1%		$ 25,000
10	Moblilization/Demobilization	%	10%		$ 248,000
			SUBTOTAL (CONSTRUCTION)		$ 2,723,000
	Engineering and Design	%	10%		$ 272,000
	Surveying & Staking & Geotechnical	%	5%		$ 136,000
	Construction Management/Staff	%	10%		$ 272,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 680,000
			SUBTOTAL COST		$ 3,403,000
			CONTINGENCY +	25%	$ 851,000
			TOTAL PROJECT		$ 4,254,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	M-6D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	340	$527	$ 179,000
2	Install 42" RCP	FT	1,380	$588	$ 811,000
3	Install 48" RCP	FT	1,280	$656	$ 840,000
4	Install 54" RCP	FT	1,380	$732	$ 1,010,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	27,740	$2.66	$ 74,000
7	Crushed Miscellaneous Base	SF	27,740	$4	$ 111,000
8	Replace Asphalt Concrete Pavement	SF	27,740	$2	$ 55,000
9	Traffic Control	%	5%		$ 165,000
10	Erosion Control	%	1%		$ 35,000
11	Moblilization/Demobilization	%	10%		$ 350,000
			SUBTOTAL (CONSTRUCTION)		$ 3,854,000
	Engineering and Design	%	10%		$ 385,000
	Surveying & Staking & Geotechnical	%	5%		$ 193,000
	Construction Management/Staff	%	10%		$ 385,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 963,000
			SUBTOTAL COST		$ 4,817,000
			CONTINGENCY +	25%	$ 1,204,000
			TOTAL PROJECT		$ 6,021,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	M-7A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 84" RCP	FT	2,680	$1,264	$ 3,388,000
2	Install 96" RCP	FT	1,250	$1,572	$ 1,965,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Sawcut and Remove Existing AC Pavement	SF	39,350	$2.66	$ 105,000
5	Crushed Miscellaneous Base	SF	39,350	$4	$ 157,000
6	Replace Asphalt Concrete Pavement	SF	39,350	$2	$ 79,000
7	Traffic Control	%	5%		$ 295,000
8	Erosion Control	%	1%		$ 62,000
9	Moblilization/Demobilization	%	10%		$ 625,000
			SUBTOTAL (CONSTRUCTION)		$ 6,879,000
	Engineering and Design	%	10%		$ 688,000
	Surveying & Staking & Geotechnical	%	5%		$ 344,000
	Construction Management/Staff	%	10%		$ 688,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,720,000
			SUBTOTAL COST		$ 8,599,000
			CONTINGENCY +	25%	$ 2,150,000
			TOTAL PROJECT		$ 10,749,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-7B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	400	$527	$ 211,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,340	$656	$ 879,000
4	Install 72" RCP	FT	2,660	$1,016	$ 2,703,000
5	Manhole	EA	14	$20,322	$ 285,000
6	Sawcut and Remove Existing AC Pavement	SF	41,320	$2.66	$ 110,000
7	Crushed Miscellaneous Base	SF	41,320	$4	$ 165,000
8	Replace Asphalt Concrete Pavement	SF	41,320	$2	$ 83,000
9	Traffic Control	%	5%		$ 261,000
10	Erosion Control	%	1%		$ 55,000
11	Moblilization/Demobilization	%	10%		$ 553,000
			SUBTOTAL (CONSTRUCTION)		$ 6,081,000
	Engineering and Design	%	10%		$ 608,000
	Surveying & Staking & Geotechnical	%	5%		$ 304,000
	Construction Management/Staff	%	10%		$ 608,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,520,000
			SUBTOTAL COST		$ 7,601,000
			CONTINGENCY +	25%	$ 1,900,000
			TOTAL PROJECT		$ 9,501,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway, 12' water main conflict, and SCG transmisson line conflict

Name	M-7C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	640	$527	$ 337,000
2	Install 42" RCP	FT	1,380	$588	$ 811,000
3	Install 54" RCP	FT	1,370	$732	$ 1,003,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	21,060	$2.66	$ 56,000
6	Crushed Miscellaneous Base	SF	21,060	$4	$ 84,000
7	Replace Asphalt Concrete Pavement	SF	21,060	$2	$ 42,000
8	Traffic Control	%	5%		$ 125,000
9	Erosion Control	%	1%		$ 26,000
10	Moblilization/Demobilization	%	10%		$ 265,000
			SUBTOTAL (CONSTRUCTION)		$ 2,912,000
	Engineering and Design	%	10%		$ 291,000
	Surveying & Staking & Geotechnical	%	5%		$ 146,000
	Construction Management/Staff	%	10%		$ 291,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 728,000
			SUBTOTAL COST		$ 3,640,000
			CONTINGENCY +	25%	$ 910,000
			TOTAL PROJECT		$ 4,550,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	M-7D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,450	$588	$ 853,000
3	Install 54" RCP	FT	1,400	$732	$ 1,025,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	21,790	$2.66	$ 58,000
6	Crushed Miscellaneous Base	SF	21,790	$4	$ 87,000
7	Replace Asphalt Concrete Pavement	SF	21,790	$2	$ 44,000
8	Traffic Control	%	5%		$ 130,000
9	Erosion Control	%	1%		$ 27,000
10	Moblilization/Demobilization	%	10%		$ 276,000
			SUBTOTAL (CONSTRUCTION)		$ 3,031,000
	Engineering and Design	%	10%		$ 303,000
	Surveying & Staking & Geotechnical	%	5%		$ 152,000
	Construction Management/Staff	%	10%		$ 303,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 758,000
			SUBTOTAL COST		$ 3,789,000
			CONTINGENCY +	25%	$ 947,000
			TOTAL PROJECT		$ 4,736,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	M-7E				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	340	$527	$ 179,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,350	$656	$ 886,000
4	Install 54" RCP	FT	1,400	$732	$ 1,025,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	27,980	$2.66	$ 74,000
7	Crushed Miscellaneous Base	SF	27,980	$4	$ 112,000
8	Replace Asphalt Concrete Pavement	SF	27,980	$2	$ 56,000
9	Traffic Control	%	5%		$ 167,000
10	Erosion Control	%	1%		$ 35,000
11	Moblilization/Demobilization	%	10%		$ 353,000
			SUBTOTAL (CONSTRUCTION)		$ 3,887,000
	Engineering and Design	%	10%		$ 389,000
	Surveying & Staking & Geotechnical	%	5%		$ 194,000
	Construction Management/Staff	%	10%		$ 389,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 972,000
			SUBTOTAL COST		$ 4,859,000
			CONTINGENCY +	25%	$ 1,215,000
			TOTAL PROJECT		$ 6,074,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict and SCG transmisson line conflict

Name	SS-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,090	$732	$ 798,000
2	Install 60" RCP	FT	200	$816	$ 163,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	9,090	$2.66	$ 24,000
5	Crushed Miscellaneous Base	SF	9,090	$4	$ 36,000
6	Replace Asphalt Concrete Pavement	SF	9,090	$2	$ 18,000
7	Traffic Control	%	5%		$ 55,000
8	Erosion Control	%	1%		$ 12,000
9	Moblilization/Demobilization	%	10%		$ 117,000
			SUBTOTAL (CONSTRUCTION)		$ 1,284,000
	Engineering and Design	%	10%		$ 128,000
	Surveying & Staking & Geotechnical	%	5%		$ 64,000
	Construction Management/Staff	%	10%		$ 128,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 320,000
			SUBTOTAL COST		$ 3,208,000
			CONTINGENCY	20%	$ 642,000
			TOTAL PROJECT		$ 3,850,000

* All unit prices reflect 2024 costs.

Name	SS-0A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 42" RCP	FT	1,180	$588	$ 694,000
2	Install 48" RCP	FT	1,670	$656	$ 1,096,000
3	Manhole	EA	7	$20,322	$ 142,000
4	Sawcut and Remove Existing AC Pavement	SF	17,650	$2.66	$ 47,000
5	Crushed Miscellaneous Base	SF	17,650	$4	$ 71,000
6	Replace Asphalt Concrete Pavement	SF	17,650	$2	$ 35,000
7	Traffic Control	%	5%		$ 104,000
8	Erosion Control	%	1%		$ 22,000
9	Moblilization/Demobilization	%	10%		$ 221,000
			SUBTOTAL (CONSTRUCTION)		$ 2,432,000
	Engineering and Design	%	10%		$ 243,000
	Surveying & Staking & Geotechnical	%	5%		$ 122,000
	Construction Management/Staff	%	10%		$ 243,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 608,000
			SUBTOTAL COST		$ 3,040,000
			CONTINGENCY +	25%	$ 760,000
			TOTAL PROJECT		$ 3,800,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	SS-0B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	500	$527	$ 264,000
2	Install 42" RCP	FT	1,200	$588	$ 706,000
3	Install 48" RCP	FT	1,660	$656	$ 1,089,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	20,370	$2.66	$ 54,000
6	Crushed Miscellaneous Base	SF	20,370	$4	$ 81,000
7	Replace Asphalt Concrete Pavement	SF	20,370	$2	$ 41,000
8	Traffic Control	%	5%		$ 120,000
9	Erosion Control	%	1%		$ 25,000
10	Moblilization/Demobilization	%	10%		$ 254,000
			SUBTOTAL (CONSTRUCTION)		$ 2,797,000
	Engineering and Design	%	10%		$ 280,000
	Surveying & Staking & Geotechnical	%	5%		$ 140,000
	Construction Management/Staff	%	10%		$ 280,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 700,000
			SUBTOTAL COST		$ 3,497,000
			CONTINGENCY +	25%	$ 874,000
			TOTAL PROJECT		$ 4,371,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	SS-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,020	$527	$ 538,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	5,440	$2.66	$ 14,000
4	Crushed Miscellaneous Base	SF	5,440	$4	$ 22,000
5	Replace Asphalt Concrete Pavement	SF	5,440	$2	$ 11,000
6	Traffic Control	%	5%		$ 32,000
7	Erosion Control	%	1%		$ 7,000
8	Moblilization/Demobilization	%	10%		$ 69,000
			SUBTOTAL (CONSTRUCTION)		$ 754,000
	Engineering and Design	%	10%		$ 75,000
	Surveying & Staking & Geotechnical	%	5%		$ 38,000
	Construction Management/Staff	%	10%		$ 75,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 188,000
			SUBTOTAL COST		$ 942,000
			CONTINGENCY	20%	$ 188,000
			TOTAL PROJECT		$ 1,130,000

* All unit prices reflect 2024 costs.

Name	SS-2A-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,820	$527	$ 959,000
2	Install 42" RCP	FT	1,220	$588	$ 717,000
3	Install 48" RCP	FT	1,040	$656	$ 682,000
4	Install 54" RCP	FT	1,380	$732	$ 1,010,000
5	Manhole	EA	14	$20,322	$ 285,000
6	Sawcut and Remove Existing AC Pavement	SF	33,150	$2.66	$ 88,000
7	Crushed Miscellaneous Base	SF	33,150	$4	$ 133,000
8	Replace Asphalt Concrete Pavement	SF	33,150	$2	$ 66,000
9	Traffic Control	%	5%		$ 197,000
10	Erosion Control	%	1%		$ 41,000
11	Moblilization/Demobilization	%	10%		$ 418,000
			SUBTOTAL (CONSTRUCTION)		$ 4,596,000
	Engineering and Design	%	10%		$ 460,000
	Surveying & Staking & Geotechnical	%	5%		$ 230,000
	Construction Management/Staff	%	10%		$ 460,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,150,000
			SUBTOTAL COST		$ 5,746,000
			CONTINGENCY +	25%	$ 1,437,000
			TOTAL PROJECT		$ 7,183,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	SS-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 42" RCP	FT	690	$588	$ 406,000
2	Install 72" RCP	FT	4,810	$1,016	$ 4,887,000
3	Install 10' x 10' RCB	FT	1,670	$6,012	$ 10,040,000
4	Manhole	EA	18	$20,322	$ 366,000
5	Sawcut and Remove Existing AC Pavement	SF	66,780	$2.66	$ 178,000
6	Crushed Miscellaneous Base	SF	66,780	$4	$ 267,000
7	Replace Asphalt Concrete Pavement	SF	66,780	$2	$ 134,000
8	Traffic Control	%	5%		$ 814,000
9	Erosion Control	%	1%		$ 171,000
10	Moblilization/Demobilization	%	10%		$ 1,726,000
			SUBTOTAL (CONSTRUCTION)		$ 18,989,000
	Engineering and Design	%	10%		$ 1,899,000
	Surveying & Staking & Geotechnical	%	5%		$ 949,000
	Construction Management/Staff	%	10%		$ 1,899,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 4,747,000
			SUBTOTAL COST		$ 23,736,000
			CONTINGENCY	20%	$ 4,747,000
			TOTAL PROJECT		$ 28,483,000

* All unit prices reflect 2024 costs.

Name	SS-2A-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	3,250	$656	$ 2,132,000
2	Manhole	EA	8	$20,322	$ 163,000
3	Sawcut and Remove Existing AC Pavement	SF	20,860	$2.66	$ 55,000
4	Crushed Miscellaneous Base	SF	20,860	$4	$ 83,000
5	Replace Asphalt Concrete Pavement	SF	20,860	$2	$ 42,000
6	Traffic Control	%	5%		$ 124,000
7	Erosion Control	%	1%		$ 26,000
8	Moblilization/Demobilization	%	10%		$ 263,000
			SUBTOTAL (CONSTRUCTION)		$ 2,888,000
	Engineering and Design	%	10%		$ 289,000
	Surveying & Staking & Geotechnical	%	5%		$ 144,000
	Construction Management/Staff	%	10%		$ 289,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 722,000
			SUBTOTAL COST		$ 3,610,000
			CONTINGENCY +	25%	$ 903,000
			TOTAL PROJECT		$ 4,513,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	SS-2A-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	2,730	$527	$ 1,439,000
2	Install 72" RCP	FT	1,710	$1,016	$ 1,737,000
3	Manhole	EA	11	$20,322	$ 224,000
4	Sawcut and Remove Existing AC Pavement	SF	29,240	$2.66	$ 78,000
5	Crushed Miscellaneous Base	SF	29,240	$4	$ 117,000
6	Replace Asphalt Concrete Pavement	SF	29,240	$2	$ 58,000
7	Traffic Control	%	5%		$ 183,000
8	Erosion Control	%	1%		$ 38,000
9	Moblilization/Demobilization	%	10%		$ 387,000
			SUBTOTAL (CONSTRUCTION)		$ 4,261,000
	Engineering and Design	%	10%		$ 426,000
	Surveying & Staking & Geotechnical	%	5%		$ 213,000
	Construction Management/Staff	%	10%		$ 426,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,065,000
			SUBTOTAL COST		$ 5,326,000
			CONTINGENCY +	25%	$ 1,332,000
			TOTAL PROJECT		$ 6,658,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main conflict

Name	SS-2B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	490	$527	$ 258,000
2	Install 42" RCP	FT	1,430	$588	$ 841,000
3	Install 54" RCP	FT	1,330	$732	$ 974,000
4	Install 60" RCP	FT	1,340	$816	$ 1,093,000
5	Install 66" RCP	FT	1,370	$911	$ 1,248,000
6	Install 78" RCP	FT	2,550	$1,133	$ 2,889,000
7	Manhole	EA	20	$20,322	$ 406,000
8	Sawcut and Remove Existing AC Pavement	SF	64,610	$2.66	$ 172,000
9	Crushed Miscellaneous Base	SF	64,610	$4	$ 258,000
10	Replace Asphalt Concrete Pavement	SF	64,610	$2	$ 129,000
11	Traffic Control	%	5%		$ 413,000
12	Erosion Control	%	1%		$ 87,000
13	Moblilization/Demobilization	%	10%		$ 877,000
			SUBTOTAL (CONSTRUCTION)		$ 9,645,000
	Engineering and Design	%	10%		$ 965,000
	Surveying & Staking & Geotechnical	%	5%		$ 482,000
	Construction Management/Staff	%	10%		$ 965,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,412,000
			SUBTOTAL COST		$ 12,057,000
			CONTINGENCY +	25%	$ 3,014,000
			TOTAL PROJECT		$ 15,071,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	SS-2C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	620	$527	$ 327,000
2	Install 42" RCP	FT	1,290	$588	$ 759,000
3	Install 60" RCP	FT	1,320	$816	$ 1,077,000
4	Install 66" RCP	FT	1,340	$911	$ 1,221,000
5	Install 72" RCP	FT	1,570	$1,016	$ 1,595,000
6	Install 78" RCP	FT	2,520	$1,133	$ 2,855,000
7	Manhole	EA	20	$20,322	$ 406,000
8	Sawcut and Remove Existing AC Pavement	SF	68,040	$2.66	$ 181,000
9	Crushed Miscellaneous Base	SF	68,040	$4	$ 272,000
10	Replace Asphalt Concrete Pavement	SF	68,040	$2	$ 136,000
11	Traffic Control	%	5%		$ 441,000
12	Erosion Control	%	1%		$ 93,000
13	Moblilization/Demobilization	%	10%		$ 936,000
	SUBTOTAL (CONSTRUCTION)				$ 10,299,000
	Engineering and Design	%	10%		$ 1,030,000
	Surveying & Staking & Geotechnical	%	5%		$ 515,000
	Construction Management/Staff	%	10%		$ 1,030,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 2,575,000
	SUBTOTAL COST				$ 12,874,000
	CONTINGENCY +			25%	$ 3,219,000
	TOTAL PROJECT				$ 16,093,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	SS-2D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	830	$527	$ 437,000
2	Install 42" RCP	FT	2,940	$588	$ 1,729,000
3	Manhole	EA	9	$20,322	$ 183,000
4	Sawcut and Remove Existing AC Pavement	SF	21,700	$2.66	$ 58,000
5	Crushed Miscellaneous Base	SF	21,700	$4	$ 87,000
6	Replace Asphalt Concrete Pavement	SF	21,700	$2	$ 43,000
7	Traffic Control	%	5%		$ 127,000
8	Erosion Control	%	1%		$ 27,000
9	Moblilization/Demobilization	%	10%		$ 269,000
			SUBTOTAL (CONSTRUCTION)		$ 2,960,000
	Engineering and Design	%	10%		$ 296,000
	Surveying & Staking & Geotechnical	%	5%		$ 148,000
	Construction Management/Staff	%	10%		$ 296,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 740,000
			SUBTOTAL COST		$ 3,700,000
			CONTINGENCY +	25%	$ 925,000
			TOTAL PROJECT		$ 4,625,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	730	$527	$ 385,000
2	Install 42" RCP	FT	1,280	$588	$ 753,000
3	Install 54" RCP	FT	2,870	$732	$ 2,101,000
4	Manhole	EA	12	$20,322	$ 244,000
5	Sawcut and Remove Existing AC Pavement	SF	31,390	$2.66	$ 83,000
6	Crushed Miscellaneous Base	SF	31,390	$4	$ 126,000
7	Replace Asphalt Concrete Pavement	SF	31,390	$2	$ 63,000
8	Traffic Control	%	5%		$ 188,000
9	Erosion Control	%	1%		$ 39,000
10	Moblilization/Demobilization	%	10%		$ 398,000
			SUBTOTAL (CONSTRUCTION)		$ 4,380,000
	Engineering and Design	%	10%		$ 438,000
	Surveying & Staking & Geotechnical	%	5%		$ 219,000
	Construction Management/Staff	%	10%		$ 438,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,095,000
			SUBTOTAL COST		$ 5,475,000
			CONTINGENCY	20%	$ 1,095,000
			TOTAL PROJECT		$ 6,570,000

* All unit prices reflect 2024 costs.

Name	T-10				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	500	$527	$ 264,000
2	Install 42" RCP	FT	1,750	$588	$ 1,029,000
3	Install 48" RCP	FT	1,190	$656	$ 781,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	20,590	$2.66	$ 55,000
6	Crushed Miscellaneous Base	SF	20,590	$4	$ 82,000
7	Replace Asphalt Concrete Pavement	SF	20,590	$2	$ 41,000
8	Traffic Control	%	5%		$ 122,000
9	Erosion Control	%	1%		$ 26,000
10	Moblilization/Demobilization	%	10%		$ 258,000
			SUBTOTAL (CONSTRUCTION)		$ 2,841,000
	Engineering and Design	%	10%		$ 284,000
	Surveying & Staking & Geotechnical	%	5%		$ 142,000
	Construction Management/Staff	%	10%		$ 284,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 710,000
			SUBTOTAL COST		$ 3,551,000
			CONTINGENCY +	25%	$ 888,000
			TOTAL PROJECT		$ 4,439,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	T-11				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	480	$527	$ 253,000
2	Install 42" RCP	FT	1,780	$588	$ 1,047,000
3	Install 48" RCP	FT	1,220	$656	$ 800,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Sawcut and Remove Existing AC Pavement	SF	20,850	$2.66	$ 55,000
6	Crushed Miscellaneous Base	SF	20,850	$4	$ 83,000
7	Replace Asphalt Concrete Pavement	SF	20,850	$2	$ 42,000
8	Traffic Control	%	5%		$ 123,000
9	Erosion Control	%	1%		$ 26,000
10	Moblilization/Demobilization	%	10%		$ 261,000
			SUBTOTAL (CONSTRUCTION)		$ 2,873,000
	Engineering and Design	%	10%		$ 287,000
	Surveying & Staking & Geotechnical	%	5%		$ 144,000
	Construction Management/Staff	%	10%		$ 287,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 718,000
			SUBTOTAL COST		$ 3,591,000
			CONTINGENCY +	25%	$ 898,000
			TOTAL PROJECT		$ 4,489,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	T-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,220	$816	$ 996,000
2	Install 72" RCP	FT	960	$1,016	$ 975,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Remove 54" RCP	FT	250	$80	$ 20,000
5	Sawcut and Remove Existing AC Pavement	SF	17,530	$2.66	$ 47,000
6	Crushed Miscellaneous Base	SF	17,530	$4	$ 70,000
7	Replace Asphalt Concrete Pavement	SF	17,530	$2	$ 35,000
8	Traffic Control	%	5%		$ 112,000
9	Erosion Control	%	1%		$ 24,000
10	Moblilization/Demobilization	%	10%		$ 238,000
			SUBTOTAL (CONSTRUCTION)		$ 2,619,000
	Engineering and Design	%	10%		$ 262,000
	Surveying & Staking & Geotechnical	%	5%		$ 131,000
	Construction Management/Staff	%	10%		$ 262,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 655,000
			SUBTOTAL COST		$ 3,274,000
			CONTINGENCY	20%	$ 655,000
			TOTAL PROJECT		$ 3,929,000

* All unit prices reflect 2024 costs.

Name	T-1B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	720	$527	$ 379,000
2	Install 42" RCP	FT	1,290	$588	$ 759,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,420	$2.66	$ 30,000
5	Crushed Miscellaneous Base	SF	11,420	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,420	$2	$ 23,000
7	Traffic Control	%	5%		$ 67,000
8	Erosion Control	%	1%		$ 14,000
9	Moblilization/Demobilization	%	10%		$ 142,000
			SUBTOTAL (CONSTRUCTION)		$ 1,562,000
	Engineering and Design	%	10%		$ 156,000
	Surveying & Staking & Geotechnical	%	5%		$ 78,000
	Construction Management/Staff	%	10%		$ 156,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 390,000
			SUBTOTAL COST		$ 1,952,000
			CONTINGENCY	20%	$ 390,000
			TOTAL PROJECT		$ 2,342,000

* All unit prices reflect 2024 costs.

Name	T-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	290	$816	$ 237,000
2	Install 66" RCP	FT	600	$911	$ 547,000
3	Install 78" RCP	FT	460	$1,133	$ 521,000
4	Install 96" RCP	FT	5,490	$1,572	$ 8,630,000
5	Manhole	EA	17	$20,322	$ 345,000
6	Remove 54" RCP	FT	1,300	$80	$ 104,000
7	Sawcut and Remove Existing AC Pavement	SF	70,220	$2.66	$ 187,000
8	Crushed Miscellaneous Base	SF	70,220	$4	$ 281,000
9	Replace Asphalt Concrete Pavement	SF	70,220	$2	$ 140,000
10	Traffic Control	%	5%		$ 550,000
11	Erosion Control	%	1%		$ 115,000
12	Moblilization/Demobilization	%	10%		$ 1,166,000
			SUBTOTAL (CONSTRUCTION)		$ 12,823,000
	Engineering and Design	%	10%		$ 1,282,000
	Surveying & Staking & Geotechnical	%	5%		$ 641,000
	Construction Management/Staff	%	10%		$ 1,282,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 3,205,000
			SUBTOTAL COST		$ 16,028,000
			CONTINGENCY +	25%	$ 4,007,000
			TOTAL PROJECT		$ 20,035,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	320	$527	$ 169,000
2	Install 42" RCP	FT	1,830	$588	$ 1,076,000
3	Install 48" RCP	FT	1,860	$656	$ 1,220,000
4	Install 60" RCP	FT	790	$816	$ 645,000
5	Manhole	EA	12	$20,322	$ 244,000
6	Sawcut and Remove Existing AC Pavement	SF	30,320	$2.66	$ 81,000
7	Crushed Miscellaneous Base	SF	30,320	$4	$ 121,000
8	Replace Asphalt Concrete Pavement	SF	30,320	$2	$ 61,000
9	Traffic Control	%	5%		$ 181,000
10	Erosion Control	%	1%		$ 38,000
11	Moblilization/Demobilization	%	10%		$ 384,000
			SUBTOTAL (CONSTRUCTION)		$ 4,220,000
	Engineering and Design	%	10%		$ 422,000
	Surveying & Staking & Geotechnical	%	5%		$ 211,000
	Construction Management/Staff	%	10%		$ 422,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,055,000
			SUBTOTAL COST		$ 5,275,000
			CONTINGENCY +	25%	$ 1,319,000
			TOTAL PROJECT		$ 7,649,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-2B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	640	$527	$ 337,000
2	Install 42" RCP	FT	1,360	$588	$ 800,000
3	Install 54" RCP	FT	2,580	$732	$ 1,889,000
4	Manhole	EA	11	$20,322	$ 224,000
5	Remove 36" RCP	FT	90	$53	$ 5,000
6	Sawcut and Remove Existing AC Pavement	SF	27,960	$2.66	$ 74,000
7	Crushed Miscellaneous Base	SF	27,960	$4	$ 112,000
8	Replace Asphalt Concrete Pavement	SF	27,960	$2	$ 56,000
9	Traffic Control	%	5%		$ 175,000
10	Erosion Control	%	1%		$ 37,000
11	Moblilization/Demobilization	%	10%		$ 371,000
			SUBTOTAL (CONSTRUCTION)		$ 4,080,000
	Engineering and Design	%	10%		$ 408,000
	Surveying & Staking & Geotechnical	%	5%		$ 204,000
	Construction Management/Staff	%	10%		$ 408,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,020,000
			SUBTOTAL COST		$ 5,100,000
			CONTINGENCY +	25%	$ 1,275,000
			TOTAL PROJECT		$ 6,375,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-2C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	690	$527	$ 364,000
2	Install 42" RCP	FT	1,340	$588	$ 788,000
3	Install 54" RCP	FT	2,560	$732	$ 1,874,000
4	Manhole	EA	11	$20,322	$ 224,000
5	Sawcut and Remove Existing AC Pavement	SF	29,370	$2.66	$ 78,000
6	Crushed Miscellaneous Base	SF	29,370	$4	$ 117,000
7	Replace Asphalt Concrete Pavement	SF	29,370	$2	$ 59,000
8	Traffic Control	%	5%		$ 175,000
9	Erosion Control	%	1%		$ 37,000
10	Moblilization/Demobilization	%	10%		$ 372,000
			SUBTOTAL (CONSTRUCTION)		$ 4,088,000
	Engineering and Design	%	10%		$ 409,000
	Surveying & Staking & Geotechnical	%	5%		$ 204,000
	Construction Management/Staff	%	10%		$ 409,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,022,000
			SUBTOTAL COST		$ 5,110,000
			CONTINGENCY +	25%	$ 1,278,000
			TOTAL PROJECT		$ 6,388,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	3,990	$816	$ 3,256,000
2	Install 66" RCP	FT	1,520	$911	$ 1,385,000
3	Manhole	EA	14	$20,322	$ 285,000
4	Sawcut and Remove Existing AC Pavement	SF	42,150	$2.66	$ 112,000
5	Crushed Miscellaneous Base	SF	42,150	$4	$ 169,000
6	Replace Asphalt Concrete Pavement	SF	42,150	$2	$ 84,000
7	Traffic Control	%	5%		$ 265,000
8	Erosion Control	%	1%		$ 56,000
9	Moblilization/Demobilization	%	10%		$ 561,000
			SUBTOTAL (CONSTRUCTION)		$ 6,173,000
	Engineering and Design	%	10%		$ 617,000
	Surveying & Staking & Geotechnical	%	5%		$ 309,000
	Construction Management/Staff	%	10%		$ 617,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,543,000
			SUBTOTAL COST		$ 7,716,000
			CONTINGENCY	20%	$ 1,543,000
			TOTAL PROJECT		$ 9,259,000

* All unit prices reflect 2024 costs.

Name	T-3A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	330	$527	$ 174,000
2	Install 42" RCP	FT	1,830	$588	$ 1,076,000
3	Install 48" RCP	FT	1,380	$656	$ 905,000
4	Install 60" RCP	FT	3,990	$816	$ 3,256,000
5	Manhole	EA	19	$20,322	$ 386,000
6	Sawcut and Remove Existing AC Pavement	SF	51,300	$2.66	$ 136,000
7	Crushed Miscellaneous Base	SF	51,300	$4	$ 205,000
8	Replace Asphalt Concrete Pavement	SF	51,300	$2	$ 103,000
9	Traffic Control	%	5%		$ 312,000
10	Erosion Control	%	1%		$ 66,000
11	Moblilization/Demobilization	%	10%		$ 662,000
			SUBTOTAL (CONSTRUCTION)		$ 7,281,000
	Engineering and Design	%	10%		$ 728,000
	Surveying & Staking & Geotechnical	%	5%		$ 364,000
	Construction Management/Staff	%	10%		$ 728,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,820,000
			SUBTOTAL COST		$ 9,101,000
			CONTINGENCY +	25%	$ 2,275,000
			TOTAL PROJECT		$ 11,376,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 42" RCP	FT	1,140	$588	$ 670,000
3	Install 48" RCP	FT	1,310	$656	$ 859,000
4	Install 54" RCP	FT	1,310	$732	$ 959,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Remove 54" RCP	FT	60	$80	$ 5,000
7	Remove 60" RCP	FT	20	$89	$ 2,000
8	Sawcut and Remove Existing AC Pavement	SF	27,000	$2.66	$ 72,000
9	Crushed Miscellaneous Base	SF	27,000	$4	$ 108,000
10	Replace Asphalt Concrete Pavement	SF	27,000	$2	$ 54,000
11	Traffic Control	%	5%		$ 161,000
12	Erosion Control	%	1%		$ 34,000
13	Moblilization/Demobilization	%	10%		$ 342,000
			SUBTOTAL (CONSTRUCTION)		$ 3,764,000
	Engineering and Design	%	10%		$ 376,000
	Surveying & Staking & Geotechnical	%	5%		$ 188,000
	Construction Management/Staff	%	10%		$ 376,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 940,000
			SUBTOTAL COST		$ 4,704,000
			CONTINGENCY +	25%	$ 1,176,000
			TOTAL PROJECT		$ 5,880,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,650	$732	$ 1,208,000
2	Install 84" RCP	FT	2,540	$1,264	$ 3,211,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Sawcut and Remove Existing AC Pavement	SF	36,040	$2.66	$ 96,000
5	Crushed Miscellaneous Base	SF	36,040	$4	$ 144,000
6	Replace Asphalt Concrete Pavement	SF	36,040	$2	$ 72,000
7	Traffic Control	%	5%		$ 247,000
8	Erosion Control	%	1%		$ 52,000
9	Moblilization/Demobilization	%	10%		$ 523,000
			SUBTOTAL (CONSTRUCTION)		$ 5,756,000
	Engineering and Design	%	10%		$ 576,000
	Surveying & Staking & Geotechnical	%	5%		$ 288,000
	Construction Management/Staff	%	10%		$ 576,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,440,000
			SUBTOTAL COST		$ 7,196,000
			CONTINGENCY +	25%	$ 1,799,000
			TOTAL PROJECT		$ 8,995,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-5A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,850	$527	$ 975,000
2	Install 42" RCP	FT	1,380	$588	$ 811,000
3	Install 48" RCP	FT	1,390	$656	$ 912,000
4	Manhole	EA	12	$20,322	$ 244,000
5	Sawcut and Remove Existing AC Pavement	SF	26,900	$2.66	$ 72,000
6	Crushed Miscellaneous Base	SF	26,900	$4	$ 108,000
7	Replace Asphalt Concrete Pavement	SF	26,900	$2	$ 54,000
8	Traffic Control	%	5%		$ 159,000
9	Erosion Control	%	1%		$ 33,000
10	Moblilization/Demobilization	%	10%		$ 337,000
			SUBTOTAL (CONSTRUCTION)		$ 3,705,000
	Engineering and Design	%	10%		$ 371,000
	Surveying & Staking & Geotechnical	%	5%		$ 185,000
	Construction Management/Staff	%	10%		$ 371,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 927,000
			SUBTOTAL COST		$ 4,632,000
			CONTINGENCY +	25%	$ 1,158,000
			TOTAL PROJECT		$ 5,790,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-5B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 78" RCP	FT	2,420	$1,133	$ 2,742,000
2	Manhole	EA	6	$20,322	$ 122,000
3	Remove 24" RCP	FT	720	$35	$ 25,000
4	Sawcut and Remove Existing AC Pavement	SF	22,090	$2.66	$ 59,000
5	Crushed Miscellaneous Base	SF	22,090	$4	$ 88,000
6	Replace Asphalt Concrete Pavement	SF	22,090	$2	$ 44,000
7	Traffic Control	%	5%		$ 154,000
8	Erosion Control	%	1%		$ 32,000
9	Moblilization/Demobilization	%	10%		$ 327,000
			SUBTOTAL (CONSTRUCTION)		$ 3,593,000
	Engineering and Design	%	10%		$ 359,000
	Surveying & Staking & Geotechnical	%	5%		$ 180,000
	Construction Management/Staff	%	10%		$ 359,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 898,000
			SUBTOTAL COST		$ 4,491,000
			CONTINGENCY +	25%	$ 1,123,000
			TOTAL PROJECT		$ 5,614,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-5C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	300	$527	$ 158,000
2	Install 42" RCP	FT	1,070	$588	$ 629,000
3	Install 48" RCP	FT	800	$656	$ 525,000
4	Install 54" RCP	FT	1,500	$732	$ 1,098,000
5	Install 72" RCP	FT	1,230	$1,016	$ 1,250,000
6	Manhole	EA	12	$20,322	$ 244,000
7	Sawcut and Remove Existing AC Pavement	SF	34,020	$2.66	$ 90,000
8	Crushed Miscellaneous Base	SF	34,020	$4	$ 136,000
9	Replace Asphalt Concrete Pavement	SF	34,020	$2	$ 68,000
10	Traffic Control	%	5%		$ 210,000
11	Erosion Control	%	1%		$ 44,000
12	Moblilization/Demobilization	%	10%		$ 445,000
			SUBTOTAL (CONSTRUCTION)		$ 4,897,000
	Engineering and Design	%	10%		$ 490,000
	Surveying & Staking & Geotechnical	%	5%		$ 245,000
	Construction Management/Staff	%	10%		$ 490,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,225,000
			SUBTOTAL COST		$ 6,122,000
			CONTINGENCY	20%	$ 1,224,000
			TOTAL PROJECT		$ 7,346,000

* All unit prices reflect 2024 costs.

Name	T-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	1,990	$911	$ 1,813,000
2	Install 72" RCP	FT	1,690	$1,016	$ 1,717,000
3	Manhole	EA	9	$20,322	$ 183,000
4	Sawcut and Remove Existing AC Pavement	SF	30,510	$2.66	$ 81,000
5	Crushed Miscellaneous Base	SF	30,510	$4	$ 122,000
6	Replace Asphalt Concrete Pavement	SF	30,510	$2	$ 61,000
7	Traffic Control	%	5%		$ 199,000
8	Erosion Control	%	1%		$ 42,000
9	Moblilization/Demobilization	%	10%		$ 422,000
			SUBTOTAL (CONSTRUCTION)		$ 4,640,000
	Engineering and Design	%	10%		$ 464,000
	Surveying & Staking & Geotechnical	%	5%		$ 232,000
	Construction Management/Staff	%	10%		$ 464,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,160,000
			SUBTOTAL COST		$ 5,800,000
			CONTINGENCY +	25%	$ 1,450,000
			TOTAL PROJECT		$ 7,250,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	T-6A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	880	$527	$ 464,000
2	Install 42" RCP	FT	1,330	$588	$ 782,000
3	Manhole	EA	6	$20,322	$ 122,000
4	Sawcut and Remove Existing AC Pavement	SF	12,510	$2.66	$ 33,000
5	Crushed Miscellaneous Base	SF	12,510	$4	$ 50,000
6	Replace Asphalt Concrete Pavement	SF	12,510	$2	$ 25,000
7	Traffic Control	%	5%		$ 74,000
8	Erosion Control	%	1%		$ 16,000
9	Moblilization/Demobilization	%	10%		$ 157,000
			SUBTOTAL (CONSTRUCTION)		$ 1,723,000
	Engineering and Design	%	10%		$ 172,000
	Surveying & Staking & Geotechnical	%	5%		$ 86,000
	Construction Management/Staff	%	10%		$ 172,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 430,000
			SUBTOTAL COST		$ 2,153,000
			CONTINGENCY	20%	$ 431,000
			TOTAL PROJECT		$ 2,584,000

* All unit prices reflect 2024 costs.

Name	T-6B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	430	$527	$ 227,000
2	Install 42" RCP	FT	420	$588	$ 247,000
3	Install 60" RCP	FT	1,450	$816	$ 1,183,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Sawcut and Remove Existing AC Pavement	SF	15,640	$2.66	$ 42,000
6	Crushed Miscellaneous Base	SF	15,640	$4	$ 63,000
7	Replace Asphalt Concrete Pavement	SF	15,640	$2	$ 31,000
8	Traffic Control	%	5%		$ 96,000
9	Erosion Control	%	1%		$ 20,000
10	Moblilization/Demobilization	%	10%		$ 203,000
			SUBTOTAL (CONSTRUCTION)		$ 2,234,000
	Engineering and Design	%	10%		$ 223,000
	Surveying & Staking & Geotechnical	%	5%		$ 112,000
	Construction Management/Staff	%	10%		$ 223,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 558,000
			SUBTOTAL COST		$ 2,792,000
			CONTINGENCY	20%	$ 558,000
			TOTAL PROJECT		$ 3,350,000

* All unit prices reflect 2024 costs.

Name	T-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	2,620	$527	$ 1,381,000
2	Install 42" RCP	FT	2,620	$588	$ 1,541,000
3	Install Double 66" RCP	FT	1,720	$1,822	$ 3,134,000
4	Manhole	EA	17	$20,322	$ 345,000
5	Sawcut and Remove Existing AC Pavement	SF	57,030	$2.66	$ 152,000
6	Crushed Miscellaneous Base	SF	57,030	$4	$ 228,000
7	Replace Asphalt Concrete Pavement	SF	57,030	$2	$ 114,000
8	Traffic Control	%	5%		$ 345,000
9	Erosion Control	%	1%		$ 72,000
10	Moblilization/Demobilization	%	10%		$ 731,000
			SUBTOTAL (CONSTRUCTION)		$ 8,043,000
	Engineering and Design	%	10%		$ 804,000
	Surveying & Staking & Geotechnical	%	5%		$ 402,000
	Construction Management/Staff	%	10%		$ 804,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,010,000
			SUBTOTAL COST		$ 10,053,000
			CONTINGENCY	20%	$ 2,011,000
			TOTAL PROJECT		$ 12,064,000

* All unit prices reflect 2024 costs.

Name	T-7A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,320	$527	$ 696,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,040	$2.66	$ 19,000
4	Crushed Miscellaneous Base	SF	7,040	$4	$ 28,000
5	Replace Asphalt Concrete Pavement	SF	7,040	$2	$ 14,000
6	Traffic Control	%	5%		$ 41,000
7	Erosion Control	%	1%		$ 9,000
8	Moblilization/Demobilization	%	10%		$ 87,000
			SUBTOTAL (CONSTRUCTION)		$ 955,000
	Engineering and Design	%	10%		$ 96,000
	Surveying & Staking & Geotechnical	%	5%		$ 48,000
	Construction Management/Staff	%	10%		$ 96,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 240,000
			SUBTOTAL COST		$ 1,195,000
			CONTINGENCY	20%	$ 239,000
			TOTAL PROJECT		$ 1,434,000

* All unit prices reflect 2024 costs.

Name	T-7B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	320	$527	$ 169,000
2	Install 42" RCP	FT	690	$588	$ 406,000
3	Install 48" RCP	FT	670	$656	$ 440,000
4	Manhole	EA	4	$20,322	$ 81,000
5	Sawcut and Remove Existing AC Pavement	SF	10,060	$2.66	$ 27,000
6	Crushed Miscellaneous Base	SF	10,060	$4	$ 40,000
7	Replace Asphalt Concrete Pavement	SF	10,060	$2	$ 20,000
8	Traffic Control	%	5%		$ 59,000
9	Erosion Control	%	1%		$ 12,000
10	Moblilization/Demobilization	%	10%		$ 125,000
			SUBTOTAL (CONSTRUCTION)		$ 1,379,000
	Engineering and Design	%	10%		$ 138,000
	Surveying & Staking & Geotechnical	%	5%		$ 69,000
	Construction Management/Staff	%	10%		$ 138,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 345,000
			SUBTOTAL COST		$ 1,724,000
			CONTINGENCY	20%	$ 345,000
			TOTAL PROJECT		$ 2,069,000

* All unit prices reflect 2024 costs.

Name	T-8				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	2,630	$732	$ 1,925,000
2	Install 66" RCP	FT	1,310	$911	$ 1,193,000
3	Install 72" RCP	FT	1,340	$1,016	$ 1,361,000
4	Install 78" RCP	FT	570	$1,133	$ 646,000
5	Manhole	EA	15	$20,322	$ 305,000
6	Sawcut and Remove Existing AC Pavement	SF	45,540	$2.66	$ 121,000
7	Crushed Miscellaneous Base	SF	45,540	$4	$ 182,000
8	Replace Asphalt Concrete Pavement	SF	45,540	$2	$ 91,000
9	Traffic Control	%	5%		$ 291,000
10	Erosion Control	%	1%		$ 61,000
11	Moblilization/Demobilization	%	10%		$ 618,000
			SUBTOTAL (CONSTRUCTION)		$ 6,794,000
	Engineering and Design	%	10%		$ 679,000
	Surveying & Staking & Geotechnical	%	5%		$ 340,000
	Construction Management/Staff	%	10%		$ 679,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,698,000
			SUBTOTAL COST		$ 8,492,000
			CONTINGENCY	20%	$ 1,698,000
			TOTAL PROJECT		$ 10,190,000

* All unit prices reflect 2024 costs.

Name	T-8A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	540	$527	$ 285,000
2	Install 42" RCP	FT	1,140	$588	$ 670,000
3	Install 48" RCP	FT	1,300	$656	$ 853,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Sawcut and Remove Existing AC Pavement	SF	17,920	$2.66	$ 48,000
6	Crushed Miscellaneous Base	SF	17,920	$4	$ 72,000
7	Replace Asphalt Concrete Pavement	SF	17,920	$2	$ 36,000
8	Traffic Control	%	5%		$ 105,000
9	Erosion Control	%	1%		$ 22,000
10	Moblilization/Demobilization	%	10%		$ 223,000
			SUBTOTAL (CONSTRUCTION)		$ 2,456,000
	Engineering and Design	%	10%		$ 246,000
	Surveying & Staking & Geotechnical	%	5%		$ 123,000
	Construction Management/Staff	%	10%		$ 246,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 615,000
			SUBTOTAL COST		$ 3,071,000
			CONTINGENCY	20%	$ 614,000
			TOTAL PROJECT		$ 3,685,000

* All unit prices reflect 2024 costs.

Name	T-8B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	360	$527	$ 190,000
2	Install 42" RCP	FT	1,470	$588	$ 864,000
3	Install 48" RCP	FT	1,310	$656	$ 859,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	18,970	$2.66	$ 50,000
6	Crushed Miscellaneous Base	SF	18,970	$4	$ 76,000
7	Replace Asphalt Concrete Pavement	SF	18,970	$2	$ 38,000
8	Traffic Control	%	5%		$ 112,000
9	Erosion Control	%	1%		$ 24,000
10	Moblilization/Demobilization	%	10%		$ 238,000
			SUBTOTAL (CONSTRUCTION)		$ 2,614,000
	Engineering and Design	%	10%		$ 261,000
	Surveying & Staking & Geotechnical	%	5%		$ 131,000
	Construction Management/Staff	%	10%		$ 261,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 653,000
			SUBTOTAL COST		$ 3,267,000
			CONTINGENCY	20%	$ 653,000
			TOTAL PROJECT		$ 3,920,000

* All unit prices reflect 2024 costs.

Name	T-8C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	390	$527	$ 206,000
2	Install 42" RCP	FT	1,640	$588	$ 964,000
3	Install 48" RCP	FT	1,300	$656	$ 853,000
4	Manhole	EA	8	$20,322	$ 163,000
4	Sawcut and Remove Existing AC Pavement	SF	20,060	$2.66	$ 53,000
5	Crushed Miscellaneous Base	SF	20,060	$4	$ 80,000
6	Replace Asphalt Concrete Pavement	SF	20,060	$2	$ 40,000
7	Traffic Control	%	5%		$ 108,000
8	Erosion Control	%	1%		$ 23,000
9	Moblilization/Demobilization	%	10%		$ 228,000
			SUBTOTAL (CONSTRUCTION)		$ 2,512,000
	Engineering and Design	%	10%		$ 251,000
	Surveying & Staking & Geotechnical	%	5%		$ 126,000
	Construction Management/Staff	%	10%		$ 251,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 628,000
			SUBTOTAL COST		$ 3,140,000
			CONTINGENCY	20%	$ 628,000
			TOTAL PROJECT		$ 3,768,000

* All unit prices reflect 2024 costs.

Name	T-8D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,330	$527	$ 701,000
2	Install 42" RCP	FT	790	$588	$ 465,000
3	Install 48" RCP	FT	2,630	$656	$ 1,725,000
4	Manhole	EA	12	$20,322	$ 244,000
5	Sawcut and Remove Existing AC Pavement	SF	28,620	$2.66	$ 76,000
6	Crushed Miscellaneous Base	SF	28,620	$4	$ 114,000
7	Replace Asphalt Concrete Pavement	SF	28,620	$2	$ 57,000
8	Traffic Control	%	5%		$ 169,000
9	Erosion Control	%	1%		$ 36,000
10	Moblilization/Demobilization	%	10%		$ 359,000
			SUBTOTAL (CONSTRUCTION)		$ 3,946,000
	Engineering and Design	%	10%		$ 395,000
	Surveying & Staking & Geotechnical	%	5%		$ 197,000
	Construction Management/Staff	%	10%		$ 395,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 987,000
			SUBTOTAL COST		$ 4,933,000
			CONTINGENCY	20%	$ 987,000
			TOTAL PROJECT		$ 5,920,000

* All unit prices reflect 2024 costs.

Name	T-9				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 42" RCP	FT	1,160	$588	$ 682,000
3	Install 48" RCP	FT	1,330	$656	$ 872,000
4	Install 66" RCP	FT	380	$911	$ 346,000
5	Manhole	EA	8	$20,322	$ 163,000
6	Sawcut and Remove Existing AC Pavement	SF	21,180	$2.66	$ 56,000
7	Crushed Miscellaneous Base	SF	21,180	$4	$ 85,000
8	Replace Asphalt Concrete Pavement	SF	21,180	$2	$ 42,000
9	Traffic Control	%	5%		$ 126,000
10	Erosion Control	%	1%		$ 26,000
11	Moblilization/Demobilization	%	10%		$ 267,000
			SUBTOTAL (CONSTRUCTION)		$ 2,939,000
	Engineering and Design	%	10%		$ 294,000
	Surveying & Staking & Geotechnical	%	5%		$ 147,000
	Construction Management/Staff	%	10%		$ 294,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 735,000
			SUBTOTAL COST		$ 3,674,000
			CONTINGENCY +	25%	$ 919,000
			TOTAL PROJECT		$ 4,593,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	T-9A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 42" RCP	FT	1,140	$588	$ 670,000
3	Install 48" RCP	FT	1,310	$656	$ 859,000
4	Install 54" RCP	FT	1,310	$732	$ 959,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	27,000	$2.66	$ 72,000
7	Crushed Miscellaneous Base	SF	27,000	$4	$ 108,000
8	Replace Asphalt Concrete Pavement	SF	27,000	$2	$ 54,000
9	Traffic Control	%	5%		$ 161,000
10	Erosion Control	%	1%		$ 34,000
11	Moblilization/Demobilization	%	10%		$ 342,000
			SUBTOTAL (CONSTRUCTION)		$ 3,757,000
	Engineering and Design	%	10%		$ 376,000
	Surveying & Staking & Geotechnical	%	5%		$ 188,000
	Construction Management/Staff	%	10%		$ 376,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 940,000
			SUBTOTAL COST		$ 4,697,000
			CONTINGENCY +	25%	$ 1,174,000
			TOTAL PROJECT		$ 5,871,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	WG-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	1,220	$656	$ 800,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,830	$2.66	$ 21,000
4	Crushed Miscellaneous Base	SF	7,830	$4	$ 31,000
5	Replace Asphalt Concrete Pavement	SF	7,830	$2	$ 16,000
6	Traffic Control	%	5%		$ 46,000
7	Erosion Control	%	1%		$ 10,000
8	Moblilization/Demobilization	%	10%		$ 99,000
			SUBTOTAL (CONSTRUCTION)		$ 1,084,000
	Engineering and Design	%	10%		$ 108,000
	Surveying & Staking & Geotechnical	%	5%		$ 54,000
	Construction Management/Staff	%	10%		$ 108,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 270,000
			SUBTOTAL COST		$ 1,354,000
			CONTINGENCY	20%	$ 271,000
			TOTAL PROJECT		$ 1,625,000

* All unit prices reflect 2024 costs.

Name	WG-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,330	$527	$ 701,000
2	Install 42" RCP	FT	990	$588	$ 582,000
3	Install 48" RCP	FT	650	$656	$ 426,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Sawcut and Remove Existing AC Pavement	SF	17,090	$2.66	$ 45,000
6	Crushed Miscellaneous Base	SF	17,090	$4	$ 68,000
7	Replace Asphalt Concrete Pavement	SF	17,090	$2	$ 34,000
8	Traffic Control	%	5%		$ 100,000
9	Erosion Control	%	1%		$ 21,000
10	Moblilization/Demobilization	%	10%		$ 212,000
			SUBTOTAL (CONSTRUCTION)		$ 2,331,000
	Engineering and Design	%	10%		$ 233,000
	Surveying & Staking & Geotechnical	%	5%		$ 117,000
	Construction Management/Staff	%	10%		$ 233,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 583,000
			SUBTOTAL COST		$ 2,914,000
			CONTINGENCY +	25%	$ 729,000
			TOTAL PROJECT		$ 3,643,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	WG-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	610	$656	$ 400,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Sawcut and Remove Existing AC Pavement	SF	3,660	$2.66	$ 10,000
4	Crushed Miscellaneous Base	SF	3,660	$4	$ 15,000
5	Replace Asphalt Concrete Pavement	SF	3,660	$2	$ 7,000
6	Traffic Control	%	5%		$ 24,000
7	Erosion Control	%	1%		$ 5,000
8	Moblilization/Demobilization	%	10%		$ 50,000
			SUBTOTAL (CONSTRUCTION)		$ 552,000
	Engineering and Design	%	10%		$ 55,200
	Surveying & Staking & Geotechnical	%	5%		$ 28,000
	Construction Management/Staff	%	10%		$ 55,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 138,200
			SUBTOTAL COST		$ 690,200
			CONTINGENCY	20%	$ 138,000
			TOTAL PROJECT		$ 828,200

* All unit prices reflect 2024 costs.

AOS 2 Capital Project Cost Estimates

FONTANA
CALIFORNIA

DAVID EVANS
AND ASSOCIATES INC.

Project	Cost
DZ-10	$6,060,000.00
DZ-11	$4,500,000.00
DZ-11A	$3,978,000.00
DZ-11B	$3,065,000.00
DZ-12	$4,272,000.00
DZ-12A	$3,806,000.00
DZ-13	$6,870,000.00
DZ-14	$4,683,000.00
DZ-14A	$2,651,000.00
DZ-15A	$3,030,000.00
DZ-16	$9,314,000.00
DZ-16A	$2,599,000.00
DZ-4	$7,155,000.00
DZ-7	$3,398,000.00
DZ-8	$745,000.00
DZ-9	$2,810,000.00
JH-1	$3,281,000.00
JH-2	$3,823,000.00
SR-1	$5,008,000.00
SR-2	$15,527,000.00
SR-3	$7,451,000.00
SR-4	$5,772,000.00
SS-10	$1,415,000.00
SS-11	$3,556,000.00
SS-5	$3,380,000.00
SS-6	$1,950,000.00
SS-7	$3,065,000.00
SS-8	$3,105,000.00
SS-9	$2,447,000.00
SS-9A	$2,986,000.00

Name	DZ-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 84" RCP	FT	1,650	$1,264	$ 2,086,000
2	Install 108" RCP	FT	640	$2,000	$ 1,280,000
3	Install 6' x 7' RCB	FT	110	$2,052	$ 226,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Sawcut and Remove Existing AC Pavement	SF	24,490	$2.66	$ 65,000
6	Crushed Miscellaneous Base	SF	24,490	$4	$ 98,000
7	Replace Asphalt Concrete Pavement	SF	24,490	$2	$ 49,000
8	Traffic Control	%	5%		$ 196,000
9	Erosion Control	%	1%		$ 41,000
10	Mobilization/Demobilization	%	10%		$ 416,000
			SUBTOTAL (CONSTRUCTION)		$ 4,579,000
	Engineering and Design	%	10%		$ 458,000
	Surveying & Staking & Geotechnical	%	5%		$ 229,000
	Construction Management/Staff	%	10%		$ 458,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,145,000
			SUBTOTAL COST		$ 5,724,000
			CONTINGENCY +	25%	$ 1,431,000
			TOTAL PROJECT		$ 7,155,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	420	$527	$ 221,000
2	Install 42" RCP	FT	970	$588	$ 570,000
3	Install 48" RCP	FT	1,320	$656	$ 866,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Sawcut and Remove Existing AC Pavement	SF	16,410	$2.66	$ 44,000
6	Crushed Miscellaneous Base	SF	16,410	$4	$ 66,000
7	Replace Asphalt Concrete Pavement	SF	16,410	$2	$ 33,000
8	Traffic Control	%	5%		$ 97,000
9	Erosion Control	%	1%		$ 20,000
10	Mobilization/Demobilization	%	10%		$ 206,000
			SUBTOTAL (CONSTRUCTION)		$ 2,265,000
	Engineering and Design	%	10%		$ 227,000
	Surveying & Staking & Geotechnical	%	5%		$ 113,000
	Construction Management/Staff	%	10%		$ 227,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 567,000
			SUBTOTAL COST		$ 2,832,000
			CONTINGENCY	20%	$ 566,000
			TOTAL PROJECT		$ 3,398,000

* All unit prices reflect 2024 cost.

Name	DZ-8				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	340	$1,016	$ 345,000
2	Manhole	EA	1	$20,322	$ 20,000
3	Remove 66" RCP	FT	590	$99	$ 58,000
4	Sawcut and Remove Existing AC Pavement	SF	2,920	$2.66	$ 8,000
5	Crushed Miscellaneous Base	SF	2,920	$4	$ 12,000
6	Replace Asphalt Concrete Pavement	SF	2,920	$2	$ 6,000
7	Traffic Control	%	5%		$ 22,000
8	Erosion Control	%	1%		$ 5,000
9	Mobilization/Demobilization	%	10%		$ 48,000
			SUBTOTAL (CONSTRUCTION)		$ 476,000
	Engineering and Design	%	10%		$ 47,600
	Surveying & Staking & Geotechnical	%	5%		$ 24,000
	Construction Management/Staff	%	10%		$ 48,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 119,600
			SUBTOTAL COST		$ 595,600
			CONTINGENCY +	25%	$ 149,000
			TOTAL PROJECT		$ 744,600

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-9				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	550	$527	$ 290,000
2	Install 42" RCP	FT	1,470	$588	$ 864,000
3	Install 48" RCP	FT	550	$656	$ 361,000
4	Manhole	EA	6	$20,322	$ 122,000
6	Sawcut and Remove Existing AC Pavement	SF	15,100	$2.66	$ 40,000
7	Crushed Miscellaneous Base	SF	15,100	$4	$ 60,000
8	Replace Asphalt Concrete Pavement	SF	15,100	$2	$ 30,000
9	Traffic Control	%	5%		$ 88,000
10	Erosion Control	%	1%		$ 19,000
11	Mobilization/Demobilization	%	10%		$ 187,000
			SUBTOTAL (CONSTRUCTION)		$ 1,874,000
	Engineering and Design	%	10%		$ 187,000
	Surveying & Staking & Geotechnical	%	5%		$ 94,000
	Construction Management/Staff	%	10%		$ 187,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 468,000
			SUBTOTAL COST		$ 2,342,000
			CONTINGENCY	20%	$ 468,000
			TOTAL PROJECT		$ 2,810,000

* All unit prices reflect 2024 cost.

Name	DZ-10				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	340	$527	$ 179,000
2	Install 42" RCP	FT	1,320	$588	$ 776,000
3	Install 48" RCP	FT	1,350	$656	$ 886,000
4	Install 54" RCP	FT	1,390	$732	$ 1,017,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	27,900	$2.66	$ 74,000
7	Crushed Miscellaneous Base	SF	27,900	$4	$ 112,000
8	Replace Asphalt Concrete Pavement	SF	27,900	$2	$ 56,000
9	Traffic Control	%	5%		$ 166,000
10	Erosion Control	%	1%		$ 35,000
11	Mobilization/Demobilization	%	10%		$ 353,000
			SUBTOTAL (CONSTRUCTION)		$ 3,878,000
	Engineering and Design	%	10%		$ 388,000
	Surveying & Staking & Geotechnical	%	5%		$ 194,000
	Construction Management/Staff	%	10%		$ 388,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 970,000
			SUBTOTAL COST		$ 4,848,000
			CONTINGENCY +	25%	$ 1,212,000
			TOTAL PROJECT		$ 6,060,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to 12' water main conflict

Name	DZ-11				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,370	$732	$ 1,003,000
2	Install 60" RCP	FT	1,410	$816	$ 1,151,000
3	Manhole	EA	7	$20,322	$ 142,000
4	Sawcut and Remove Existing AC Pavement	SF	20,110	$2.66	$ 53,000
5	Crushed Miscellaneous Base	SF	20,110	$4	$ 80,000
6	Replace Asphalt Concrete Pavement	SF	20,110	$2	$ 40,000
7	Traffic Control	%	5%		$ 123,000
8	Erosion Control	%	1%		$ 26,000
9	Mobilization/Demobilization	%	10%		$ 262,000
			SUBTOTAL (CONSTRUCTION)		$ 2,880,000
	Engineering and Design	%	10%		$ 288,000
	Surveying & Staking & Geotechnical	%	5%		$ 144,000
	Construction Management/Staff	%	10%		$ 288,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 720,000
			SUBTOTAL COST		$ 3,600,000
			CONTINGENCY +	25%	$ 900,000
			TOTAL PROJECT		$ 4,500,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-11A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 42" RCP	FT	1,000	$588	$ 588,000
3	Install 48" RCP	FT	1,650	$656	$ 1,082,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	19,240	$2.66	$ 51,000
6	Crushed Miscellaneous Base	SF	19,240	$4	$ 77,000
7	Replace Asphalt Concrete Pavement	SF	19,240	$2	$ 38,000
8	Traffic Control	%	5%		$ 114,000
9	Erosion Control	%	1%		$ 24,000
10	Mobilization/Demobilization	%	10%		$ 241,000
			SUBTOTAL (CONSTRUCTION)		$ 2,652,000
	Engineering and Design	%	10%		$ 265,000
	Surveying & Staking & Geotechnical	%	5%		$ 133,000
	Construction Management/Staff	%	10%		$ 265,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 663,000
			SUBTOTAL COST		$ 3,315,000
			CONTINGENCY	20%	$ 663,000
			TOTAL PROJECT		$ 3,978,000

* All unit prices reflect 2024 cost.

Name	DZ-11B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	560	$527	$ 295,000
2	Install 42" RCP	FT	990	$588	$ 582,000
3	Install 48" RCP	FT	1,060	$656	$ 695,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Remove 24" RCP	FT	1,340	$35	$ 47,000
6	Remove 30" RCP	FT	750	$44	$ 33,000
7	Sawcut and Remove Existing AC Pavement	SF	15,600	$2.66	$ 41,000
8	Crushed Miscellaneous Base	SF	15,600	$4	$ 62,000
9	Replace Asphalt Concrete Pavement	SF	15,600	$2	$ 31,000
10	Traffic Control	%	5%		$ 96,000
11	Erosion Control	%	1%		$ 20,000
12	Mobilization/Demobilization	%	10%		$ 204,000
			SUBTOTAL (CONSTRUCTION)		$ 2,044,000
	Engineering and Design	%	10%		$ 204,000
	Surveying & Staking & Geotechnical	%	5%		$ 102,000
	Construction Management/Staff	%	10%		$ 204,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 510,000
			SUBTOTAL COST		$ 2,554,000
			CONTINGENCY	20%	$ 511,000
			TOTAL PROJECT		$ 3,065,000

* All unit prices reflect 2024 cost.

Name	DZ-12				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	2,610	$816	$ 2,130,000
2	Manhole	EA	7	$20,322	$ 142,000
3	Sawcut and Remove Existing AC Pavement	SF	19,580	$2.66	$ 52,000
4	Crushed Miscellaneous Base	SF	19,580	$4	$ 78,000
5	Replace Asphalt Concrete Pavement	SF	19,580	$2	$ 39,000
6	Traffic Control	%	5%		$ 122,000
7	Erosion Control	%	1%		$ 26,000
8	Mobilization/Demobilization	%	10%		$ 259,000
	SUBTOTAL (CONSTRUCTION)				$ 2,848,000
	Engineering and Design	%	10%		$ 285,000
	Surveying & Staking & Geotechnical	%	5%		$ 142,000
	Construction Management/Staff	%	10%		$ 285,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 712,000
	SUBTOTAL COST				$ 3,560,000
	CONTINGENCY			20%	$ 712,000
	TOTAL PROJECT				$ 4,272,000

* All unit prices reflect 2024 cost.

Name	DZ-12A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	450	$527	$ 237,000
2	Install 42" RCP	FT	2,020	$588	$ 1,188,000
3	Install 48" RCP	FT	650	$656	$ 426,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	18,440	$2.66	$ 49,000
6	Crushed Miscellaneous Base	SF	18,440	$4	$ 74,000
7	Replace Asphalt Concrete Pavement	SF	18,440	$2	$ 37,000
8	Traffic Control	%	5%		$ 109,000
9	Erosion Control	%	1%		$ 23,000
10	Mobilization/Demobilization	%	10%		$ 231,000
			SUBTOTAL (CONSTRUCTION)		$ 2,537,000
	Engineering and Design	%	10%		$ 254,000
	Surveying & Staking & Geotechnical	%	5%		$ 127,000
	Construction Management/Staff	%	10%		$ 254,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 635,000
			SUBTOTAL COST		$ 3,172,000
			CONTINGENCY	20%	$ 634,000
			TOTAL PROJECT		$ 3,806,000

* All unit prices reflect 2024 cost.

Name	DZ-13				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	850	$816	$ 694,000
2	Install 66" RCP	FT	1,550	$911	$ 1,412,000
3	Install 84" RCP	FT	1,080	$1,264	$ 1,365,000
4	Manhole	EA	9	$20,322	$ 183,000
5	Remove 48" RCP	FT	1,600	$71	$ 114,000
6	Remove 78" RCP	FT	1,050	$117	$ 123,000
7	Sawcut and Remove Existing AC Pavement	SF	29,280	$2.66	$ 78,000
8	Crushed Miscellaneous Base	SF	29,280	$4	$ 117,000
9	Replace Asphalt Concrete Pavement	SF	29,280	$2	$ 59,000
10	Traffic Control	%	5%		$ 207,000
11	Erosion Control	%	1%		$ 44,000
12	Mobilization/Demobilization	%	10%		$ 440,000
			SUBTOTAL (CONSTRUCTION)		$ 4,396,000
	Engineering and Design	%	10%		$ 440,000
	Surveying & Staking & Geotechnical	%	5%		$ 220,000
	Construction Management/Staff	%	10%		$ 440,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,100,000
			SUBTOTAL COST		$ 5,496,000
			CONTINGENCY +	25%	$ 1,374,000
			TOTAL PROJECT		$ 6,870,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-14				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 54" RCP	FT	1,310	$732	$ 959,000
2	Install 66" RCP	FT	350	$911	$ 319,000
3	Install 72" RCP	FT	1,100	$1,016	$ 1,118,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Remove 48" RCP	FT	1,320	$71	$ 94,000
6	Remove 64" RCP	FT	80	$96	$ 8,000
7	Sawcut and Remove Existing AC Pavement	SF	21,370	$2.66	$ 57,000
8	Crushed Miscellaneous Base	SF	21,370	$4	$ 85,000
9	Replace Asphalt Concrete Pavement	SF	21,370	$2	$ 43,000
10	Traffic Control	%	5%		$ 141,000
11	Erosion Control	%	1%		$ 30,000
12	Mobilization/Demobilization	%	10%		$ 300,000
			SUBTOTAL (CONSTRUCTION)		$ 2,996,000
	Engineering and Design	%	10%		$ 300,000
	Surveying & Staking & Geotechnical	%	5%		$ 150,000
	Construction Management/Staff	%	10%		$ 300,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 750,000
			SUBTOTAL COST		$ 3,746,000
			CONTINGENCY +	25%	$ 937,000
			TOTAL PROJECT		$ 4,683,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-14A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	530	$527	$ 279,000
2	Install 42" RCP	FT	1,000	$588	$ 588,000
3	Install 48" RCP	FT	660	$656	$ 433,000
4	Manhole	EA	5	$20,322	$ 102,000
5	Sawcut and Remove Existing AC Pavement	SF	12,940	$2.66	$ 34,000
6	Crushed Miscellaneous Base	SF	12,940	$4	$ 52,000
7	Replace Asphalt Concrete Pavement	SF	12,940	$2	$ 26,000
8	Traffic Control	%	5%		$ 76,000
9	Erosion Control	%	1%		$ 16,000
10	Mobilization/Demobilization	%	10%		$ 161,000
			SUBTOTAL (CONSTRUCTION)		$ 1,767,000
	Engineering and Design	%	10%		$ 177,000
	Surveying & Staking & Geotechnical	%	5%		$ 88,000
	Construction Management/Staff	%	10%		$ 177,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 442,000
			SUBTOTAL COST		$ 2,209,000
			CONTINGENCY	20%	$ 442,000
			TOTAL PROJECT		$ 2,651,000

* All unit prices reflect 2024 cost.

Name	DZ-15A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	490	$527	$ 258,000
2	Install 42" RCP	FT	1,000	$588	$ 588,000
3	Install 48" RCP	FT	970	$656	$ 636,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Sawcut and Remove Existing AC Pavement	SF	14,710	$2.66	$ 39,000
6	Crushed Miscellaneous Base	SF	14,710	$4	$ 59,000
7	Replace Asphalt Concrete Pavement	SF	14,710	$2	$ 29,000
8	Traffic Control	%	5%		$ 87,000
9	Erosion Control	%	1%		$ 18,000
10	Mobilization/Demobilization	%	10%		$ 184,000
			SUBTOTAL (CONSTRUCTION)		$ 2,020,000
	Engineering and Design	%	10%		$ 202,000
	Surveying & Staking & Geotechnical	%	5%		$ 101,000
	Construction Management/Staff	%	10%		$ 202,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 505,000
			SUBTOTAL COST		$ 2,525,000
			CONTINGENCY	20%	$ 505,000
			TOTAL PROJECT		$ 3,030,000

* All unit prices reflect 2024 cost.

Name	DZ-16				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	2,640	$911	$ 2,405,000
2	Install Double 66" RCP	FT	1,380	$1,822	$ 2,514,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Remove 42" RCP	FT	180	$62	$ 11,000
5	Remove 60" RCP	FT	1,250	$89	$ 111,000
6	Sawcut and Remove Existing AC Pavement	SF	43,430	$2.66	$ 116,000
7	Crushed Miscellaneous Base	SF	43,430	$4	$ 174,000
8	Replace Asphalt Concrete Pavement	SF	43,430	$2	$ 87,000
9	Traffic Control	%	5%		$ 281,000
10	Erosion Control	%	1%		$ 59,000
11	Mobilization/Demobilization	%	10%		$ 596,000
			SUBTOTAL (CONSTRUCTION)		$ 5,961,000
	Engineering and Design	%	10%		$ 596,000
	Surveying & Staking & Geotechnical	%	5%		$ 298,000
	Construction Management/Staff	%	10%		$ 596,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,490,000
			SUBTOTAL COST		$ 7,451,000
			CONTINGENCY +	25%	$ 1,863,000
			TOTAL PROJECT		$ 9,314,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	DZ-16A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	420	$527	$ 221,000
2	Install 42" RCP	FT	840	$588	$ 494,000
3	Install 48" RCP	FT	850	$656	$ 558,000
4	Manhole	EA	5	$20,322	$ 102,000
5	Sawcut and Remove Existing AC Pavement	SF	12,630	$2.66	$ 34,000
6	Crushed Miscellaneous Base	SF	12,630	$4	$ 51,000
7	Replace Asphalt Concrete Pavement	SF	12,630	$2	$ 25,000
8	Traffic Control	%	5%		$ 74,000
9	Erosion Control	%	1%		$ 16,000
10	Mobilization/Demobilization	%	10%		$ 158,000
			SUBTOTAL (CONSTRUCTION)		$ 1,733,000
	Engineering and Design	%	10%		$ 173,000
	Surveying & Staking & Geotechnical	%	5%		$ 87,000
	Construction Management/Staff	%	10%		$ 173,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 433,000
			SUBTOTAL COST		$ 2,166,000
			CONTINGENCY	20%	$ 433,000
			TOTAL PROJECT		$ 2,599,000

* All unit prices reflect 2024 cost.

Name	JH-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 84" RCP	FT	1,380	$1,264	$ 1,744,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Remove 66" RCP	FT	1,090	$99	$ 108,000
4	Remove 78" RCP	FT	290	$117	$ 34,000
5	Sawcut and Remove Existing AC Pavement	SF	13,340	$2.66	$ 35,000
6	Crushed Miscellaneous Base	SF	13,340	$4	$ 53,000
7	Replace Asphalt Concrete Pavement	SF	13,340	$2	$ 27,000
8	Traffic Control	%	5%		$ 103,000
9	Erosion Control	%	1%		$ 22,000
10	Mobilization/Demobilization	%	10%		$ 219,000
	SUBTOTAL (CONSTRUCTION)				$ 2,187,000
	Engineering and Design	%	10%		$ 219,000
	Surveying & Staking & Geotechnical	%	5%		$ 109,000
	Construction Management/Staff	%	10%		$ 219,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 547,000
	SUBTOTAL COST				$ 2,734,000
	CONTINGENCY			20%	$ 547,000
	TOTAL PROJECT				$ 3,281,000

* All unit prices reflect 2024 cost.

Name	JH-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	1,930	$1,016	$ 1,961,000
2	Manhole	EA	5	$20,322	$ 102,000
3	Remove 69" RCP	FT	1,920	$103	$ 198,000
4	Sawcut and Remove Existing AC Pavement	SF	16,570	$2.66	$ 44,000
5	Crushed Miscellaneous Base	SF	16,570	$4	$ 66,000
6	Replace Asphalt Concrete Pavement	SF	16,570	$2	$ 33,000
7	Traffic Control	%	5%		$ 120,000
8	Erosion Control	%	1%		$ 25,000
9	Mobilization/Demobilization	%	10%		$ 255,000
			SUBTOTAL (CONSTRUCTION)		$ 2,549,000
	Engineering and Design	%	10%		$ 255,000
	Surveying & Staking & Geotechnical	%	5%		$ 127,000
	Construction Management/Staff	%	10%		$ 255,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 637,000
			SUBTOTAL COST		$ 3,186,000
			CONTINGENCY	20%	$ 637,000
			TOTAL PROJECT		$ 3,823,000

* All unit prices reflect 2024 cost.

Name	SR-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install Double 66" RCP	FT	1,560	$1,822	$ 2,842,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 54" RCP	FT	1,460	$80	$ 117,000
4	Sawcut and Remove Existing AC Pavement	SF	12,550	$2.66	$ 33,000
5	Crushed Miscellaneous Base	SF	12,550	$4	$ 50,000
6	Replace Asphalt Concrete Pavement	SF	12,550	$2	$ 25,000
7	Traffic Control	%	5%		$ 157,000
8	Erosion Control	%	1%		$ 33,000
9	Mobilization/Demobilization	%	10%		$ 334,000
			SUBTOTAL (CONSTRUCTION)		$ 3,338,000
	Engineering and Design	%	10%		$ 334,000
	Surveying & Staking & Geotechnical	%	5%		$ 167,000
	Construction Management/Staff	%	10%		$ 334,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 835,000
			SUBTOTAL COST		$ 4,173,000
			CONTINGENCY	20%	$ 835,000
			TOTAL PROJECT		$ 5,008,000

* All unit prices reflect 2024 cost.

Name	SR-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 78" RCP	FT	2,570	$1,133	$ 2,912,000
2	Install 84" RCP	FT	1,170	$1,264	$ 1,479,000
3	Install 14' x 6' RCB	FT	620	$7,627	$ 4,729,000
4	Manhole	EA	11	$20,322	$ 224,000
5	Remove 84" RCP	FT	580	$126	$ 73,000
6	Sawcut and Remove Existing AC Pavement	SF	39,720	$2.66	$ 106,000
7	Crushed Miscellaneous Base	SF	39,720	$4	$ 159,000
8	Replace Asphalt Concrete Pavement	SF	39,720	$2	$ 79,000
9	Traffic Control	%	5%		$ 488,000
10	Erosion Control	%	1%		$ 102,000
11	Mobilization/Demobilization	%	10%		$ 1,035,000
			SUBTOTAL (CONSTRUCTION)		$ 10,351,000
	Engineering and Design	%	10%		$ 1,035,000
	Surveying & Staking & Geotechnical	%	5%		$ 518,000
	Construction Management/Staff	%	10%		$ 1,035,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,588,000
			SUBTOTAL COST		$ 12,939,000
			CONTINGENCY	20%	$ 2,588,000
			TOTAL PROJECT		$ 15,527,000

* All unit prices reflect 2024 cost.

Name	SR-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 84" RCP	FT	460	$1,264	$ 581,000
2	Install 96" RCP	FT	2,260	$1,572	$ 3,553,000
3	Manhole	EA	7	$20,322	$ 142,000
4	Remove 72" RCP	FT	510	$108	$ 55,000
5	Remove 78" RCP	FT	290	$117	$ 34,000
6	Remove 84" RCP	FT	560	$126	$ 71,000
7	Sawcut and Remove Existing AC Pavement	SF	28,740	$2.66	$ 76,000
8	Crushed Miscellaneous Base	SF	28,740	$4	$ 115,000
9	Replace Asphalt Concrete Pavement	SF	28,740	$2	$ 57,000
10	Traffic Control	%	5%		$ 234,000
11	Erosion Control	%	1%		$ 49,000
12	Mobilization/Demobilization	%	10%		$ 497,000
			SUBTOTAL (CONSTRUCTION)		$ 4,967,000
	Engineering and Design	%	10%		$ 497,000
	Surveying & Staking & Geotechnical	%	5%		$ 248,000
	Construction Management/Staff	%	10%		$ 497,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,242,000
			SUBTOTAL COST		$ 6,209,000
			CONTINGENCY	20%	$ 1,242,000
			TOTAL PROJECT		$ 7,451,000

* All unit prices reflect 2024 cost.

Name	SR-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 8' x 5' RCB	FT	1,540	$2,150	$ 3,311,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 66" RCP	FT	1,440	$99	$ 143,000
4	Sawcut and Remove Existing AC Pavement	SF	10,780	$2.66	$ 29,000
5	Crushed Miscellaneous Base	SF	10,780	$4	$ 43,000
6	Replace Asphalt Concrete Pavement	SF	10,780	$2	$ 22,000
7	Traffic Control	%	5%		$ 181,000
8	Erosion Control	%	1%		$ 38,000
9	Mobilization/Demobilization	%	10%		$ 385,000
			SUBTOTAL (CONSTRUCTION)		$ 3,848,000
	Engineering and Design	%	10%		$ 385,000
	Surveying & Staking & Geotechnical	%	5%		$ 192,000
	Construction Management/Staff	%	10%		$ 385,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 962,000
			SUBTOTAL COST		$ 4,810,000
			CONTINGENCY	20%	$ 962,000
			TOTAL PROJECT		$ 5,772,000

* All unit prices reflect 2024 cost.

Name	SS-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	2,150	$816	$ 1,754,000
2	Manhole	EA	5	$20,322	$ 102,000
3	Remove 42" RCP	FT	2,090	$62	$ 130,000
4	Sawcut and Remove Existing AC Pavement	SF	16,130	$2.66	$ 43,000
5	Crushed Miscellaneous Base	SF	16,130	$4	$ 65,000
6	Replace Asphalt Concrete Pavement	SF	16,130	$2	$ 32,000
7	Traffic Control	%	5%		$ 106,000
8	Erosion Control	%	1%		$ 22,000
9	Mobilization/Demobilization	%	10%		$ 225,000
			SUBTOTAL (CONSTRUCTION)		$ 2,254,000
	Engineering and Design	%	10%		$ 225,000
	Surveying & Staking & Geotechnical	%	5%		$ 113,000
	Construction Management/Staff	%	10%		$ 225,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 563,000
			SUBTOTAL COST		$ 2,817,000
			CONTINGENCY	20%	$ 563,000
			TOTAL PROJECT		$ 3,380,000

* All unit prices reflect 2024 cost.

Name	SS-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,240	$816	$ 1,012,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Remove 42" RCP	FT	920	$62	$ 57,000
4	Remove 48" RCP	FT	210	$71	$ 15,000
5	Sawcut and Remove Existing AC Pavement	SF	9,300	$2.66	$ 25,000
6	Crushed Miscellaneous Base	SF	9,300	$4	$ 37,000
7	Replace Asphalt Concrete Pavement	SF	9,300	$2	$ 19,000
8	Traffic Control	%	5%		$ 61,000
9	Erosion Control	%	1%		$ 13,000
10	Mobilization/Demobilization	%	10%		$ 130,000
			SUBTOTAL (CONSTRUCTION)		$ 1,300,000
	Engineering and Design	%	10%		$ 130,000
	Surveying & Staking & Geotechnical	%	5%		$ 65,000
	Construction Management/Staff	%	10%		$ 130,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 325,000
			SUBTOTAL COST		$ 1,625,000
			CONTINGENCY	20%	$ 325,000
			TOTAL PROJECT		$ 1,950,000

* All unit prices reflect 2024 cost.

Name	SS-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	1,720	$911	$ 1,567,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 54" RCP	FT	1,210	$80	$ 97,000
4	Remove 60" RCP	FT	710	$89	$ 63,000
5	Sawcut and Remove Existing AC Pavement	SF	13,830	$2.66	$ 37,000
6	Crushed Miscellaneous Base	SF	13,830	$4	$ 55,000
7	Replace Asphalt Concrete Pavement	SF	13,830	$2	$ 28,000
8	Traffic Control	%	5%		$ 96,000
9	Erosion Control	%	1%		$ 20,000
10	Mobilization/Demobilization	%	10%		$ 204,000
			SUBTOTAL (CONSTRUCTION)		$ 2,044,000
	Engineering and Design	%	10%		$ 204,000
	Surveying & Staking & Geotechnical	%	5%		$ 102,000
	Construction Management/Staff	%	10%		$ 204,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 510,000
			SUBTOTAL COST		$ 2,554,000
			CONTINGENCY	20%	$ 511,000
			TOTAL PROJECT		$ 3,065,000

* All unit prices reflect 2024 cost.

Name	SS-8				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	590	$527	$ 311,000
2	Install 42" RCP	FT	1,300	$588	$ 764,000
3	Install 48" RCP	FT	580	$656	$ 380,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Sawcut and Remove Existing AC Pavement	SF	14,510	$2.66	$ 39,000
6	Crushed Miscellaneous Base	SF	14,510	$4	$ 58,000
7	Replace Asphalt Concrete Pavement	SF	14,510	$2	$ 29,000
8	Traffic Control	%	5%		$ 85,000
9	Erosion Control	%	1%		$ 18,000
10	Mobilization/Demobilization	%	10%		$ 181,000
			SUBTOTAL (CONSTRUCTION)		$ 1,987,000
	Engineering and Design	%	10%		$ 199,000
	Surveying & Staking & Geotechnical	%	5%		$ 99,000
	Construction Management/Staff	%	10%		$ 199,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 497,000
			SUBTOTAL COST		$ 2,484,000
			CONTINGENCY +	25%	$ 621,000
			TOTAL PROJECT		$ 3,105,000

* All unit prices reflect 2024 cost.

+ Contingency increased to 25% due to major highway conflict

Name	SS-9				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,550	$816	$ 1,265,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 42" RCP	FT	1,470	$62	$ 91,000
4	Sawcut and Remove Existing AC Pavement	SF	11,630	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,630	$4	$ 47,000
6	Replace Asphalt Concrete Pavement	SF	11,630	$2	$ 23,000
7	Traffic Control	%	5%		$ 77,000
8	Erosion Control	%	1%		$ 16,000
9	Mobilization/Demobilization	%	10%		$ 163,000
			SUBTOTAL (CONSTRUCTION)		$ 1,631,000
	Engineering and Design	%	10%		$ 163,000
	Surveying & Staking & Geotechnical	%	5%		$ 82,000
	Construction Management/Staff	%	10%		$ 163,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 408,000
			SUBTOTAL COST		$ 2,039,000
			CONTINGENCY	20%	$ 408,000
			TOTAL PROJECT		$ 2,447,000

* All unit prices reflect 2024 cost.

Name	SS-9A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	930	$527	$ 490,000
2	Install 42" RCP	FT	480	$588	$ 282,000
3	Install 60" RCP	FT	1,220	$816	$ 996,000
4	Manhole	EA	7	$20,322	$ 142,000
5	Remove 42" RCP	FT	1,290	$62	$ 80,000
6	Sawcut and Remove Existing AC Pavement	SF	16,930	$2.66	$ 45,000
7	Crushed Miscellaneous Base	SF	16,930	$4	$ 68,000
8	Replace Asphalt Concrete Pavement	SF	16,930	$2	$ 34,000
9	Traffic Control	%	5%		$ 107,000
10	Erosion Control	%	1%		$ 22,000
11	Mobilization/Demobilization	%	10%		$ 227,000
			SUBTOTAL (CONSTRUCTION)		$ 1,990,000
	Engineering and Design	%	10%		$ 199,000
	Surveying & Staking & Geotechnical	%	5%		$ 100,000
	Construction Management/Staff	%	10%		$ 199,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 498,000
			SUBTOTAL COST		$ 2,488,000
			CONTINGENCY	20%	$ 498,000
			TOTAL PROJECT		$ 2,986,000

* All unit prices reflect 2024 cost.

Name	SS-10				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	820	$911	$ 747,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Remove 39" RCP	FT	770	$58	$ 45,000
4	Sawcut and Remove Existing AC Pavement	SF	6,590	$2.66	$ 18,000
5	Crushed Miscellaneous Base	SF	6,590	$4	$ 26,000
6	Replace Asphalt Concrete Pavement	SF	6,590	$2	$ 13,000
7	Traffic Control	%	5%		$ 45,000
8	Erosion Control	%	1%		$ 9,000
9	Mobilization/Demobilization	%	10%		$ 94,000
			SUBTOTAL (CONSTRUCTION)		$ 944,000
	Engineering and Design	%	10%		$ 94,000
	Surveying & Staking & Geotechnical	%	5%		$ 47,000
	Construction Management/Staff	%	10%		$ 94,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 235,000
			SUBTOTAL COST		$ 1,179,000
			CONTINGENCY	20%	$ 236,000
			TOTAL PROJECT		$ 1,415,000

* All unit prices reflect 2024 cost.

Name	SS-11				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	460	$656	$ 302,000
2	Install 60" RCP	FT	1,200	$816	$ 979,000
3	Install 66" RCP	FT	620	$911	$ 565,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Remove 36" RCP	FT	2,270	$53	$ 120,000
8	Sawcut and Remove Existing AC Pavement	SF	16,940	$2.66	$ 45,000
9	Crushed Miscellaneous Base	SF	16,940	$4	$ 68,000
10	Replace Asphalt Concrete Pavement	SF	16,940	$2	$ 34,000
11	Traffic Control	%	5%		$ 112,000
12	Erosion Control	%	1%		$ 23,000
13	Mobilization/Demobilization	%	10%		$ 237,000
			SUBTOTAL (CONSTRUCTION)		$ 2,370,000
	Engineering and Design	%	10%		$ 237,000
	Surveying & Staking & Geotechnical	%	5%		$ 119,000
	Construction Management/Staff	%	10%		$ 237,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 593,000
			SUBTOTAL COST		$ 2,963,000
			CONTINGENCY	20%	$ 593,000
			TOTAL PROJECT		$ 3,556,000

* All unit prices reflect 2024 cost.

AOS 3 Capital Project Cost Estimates

FONTANA
CALIFORNIA

DAVID EVANS
AND ASSOCIATES INC.

Project	Cost
A-0	$16,438,000.00
A-0A	$7,220,000.00
A-0B	$6,091,000.00
A-0C	$1,391,000.00
A-0D	$1,259,000.00
A-1	$2,042,000.00
A-1A	$1,799,000.00
A-2	$2,621,000.00
A-2A	$2,250,000.00
A-3	$16,535,000.00
A-3A	$2,359,000.00
A-3B	$1,996,000.00
A-3C	$6,606,000.00
A-4	$1,495,000.00
B-1	$2,709,000.00
B-2	$1,648,000.00
B-3	$911,000.00
B-5	$2,800,000.00
B-5A	$4,051,000.00
B-6	$235,000.00
B-7	$1,324,000.00
B-8	$1,886,000.00
C-0	$7,920,000.00
C-2	$1,951,000.00
C-4	$4,225,000.00
C-5	$2,776,000.00
C-6	$589,000.00
C-7	$4,623,000.00
C-8	$4,228,000.00
C-8A	$2,633,000.00
C-8B	$5,795,000.00
C-9	$12,900,000.00
HR-1	$4,127,000.00

Name	A-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 10' x9' RCB	FT	1,510	$5,252	$ 7,931,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 12' x 10' RCB	FT	1,510	$811	$ 1,225,000
4	Sawcut and Remove Existing AC Pavement	SF	18,120	$2.66	$ 48,000
5	Crushed Miscellaneous Base	SF	18,120	$4	$ 72,000
6	Replace Asphalt Concrete Pavement	SF	18,120	$2	$ 36,000
7	Traffic Control	%	5%		$ 470,000
8	Erosion Control	%	1%		$ 99,000
9	Mobilization/Demobilization	%	10%		$ 996,000
			SUBTOTAL (CONSTRUCTION)		$ 10,958,000
	Engineering and Design	%	10%		$ 1,096,000
	Surveying & Staking & Geotechnical	%	5%		$ 548,000
	Construction Management/Staff	%	10%		$ 1,096,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,740,000
			SUBTOTAL COST		$ 13,698,000
			CONTINGENCY	20%	$ 2,740,000
			TOTAL PROJECT		$ 16,438,000

* All unit prices reflect 2024 costs.

Name	A-0A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 84" RCP	FT	2,190	$1,264	$ 2,768,000
2	Install 90" RCP	FT	580	$1,409	$ 817,000
3	Manhole	EA	7	$20,322	$ 142,000
4	Sawcut and Remove Existing AC Pavement	SF	27,090	$2.66	$ 72,000
5	Crushed Miscellaneous Base	SF	27,090	$4	$ 108,000
6	Replace Asphalt Concrete Pavement	SF	27,090	$2	$ 54,000
7	Traffic Control	%	5%		$ 198,000
8	Erosion Control	%	1%		$ 42,000
9	Mobilization/Demobilization	%	10%		$ 420,000
	SUBTOTAL (CONSTRUCTION)				$ 4,621,000
	Engineering and Design	%	10%		$ 462,000
	Surveying & Staking & Geotechnical	%	5%		$ 231,000
	Construction Management/Staff	%	10%		$ 462,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 1,155,000
	SUBTOTAL COST				$ 5,776,000
	CONTINGENCY +			25%	$ 1,444,000
	TOTAL PROJECT				$ 7,220,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	**A-0B**	100			
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 78" RCP	FT	780	$1,133	$ 884,000
2	Install 84" RCP	FT	1,790	$1,264	$ 2,263,000
3	Manhole	EA	6	$20,322	$ 122,000
4	Sawcut and Remove Existing AC Pavement	SF	24,420	$2.66	$ 65,000
5	Crushed Miscellaneous Base	SF	24,420	$4	$ 98,000
6	Replace Asphalt Concrete Pavement	SF	24,420	$2	$ 49,000
7	Traffic Control	%	5%		$ 174,000
8	Erosion Control	%	1%		$ 37,000
9	Mobilization/Demobilization	%	10%		$ 369,000
			SUBTOTAL (CONSTRUCTION)		$ 4,061,000
	Engineering and Design	%	10%		$ 406,000
	Surveying & Staking & Geotechnical	%	5%		$ 203,000
	Construction Management/Staff	%	10%		$ 406,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,015,000
			SUBTOTAL COST		$ 5,076,000
			CONTINGENCY	20%	$ 1,015,000
			TOTAL PROJECT		$ 6,091,000

* All unit prices reflect 2024 costs.

Name	A-0C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,280	$527	$ 675,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	6,830	$2.66	$ 18,000
4	Crushed Miscellaneous Base	SF	6,830	$4	$ 27,000
5	Replace Asphalt Concrete Pavement	SF	6,830	$2	$ 14,000
6	Traffic Control	%	5%		$ 40,000
7	Erosion Control	%	1%		$ 8,000
8	Mobilization/Demobilization	%	10%		$ 84,000
	SUBTOTAL (CONSTRUCTION)				$ 927,000
	Engineering and Design	%	10%		$ 93,000
	Surveying & Staking & Geotechnical	%	5%		$ 46,000
	Construction Management/Staff	%	10%		$ 93,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 232,000
	SUBTOTAL COST				$ 1,159,000
	CONTINGENCY			20%	$ 232,000
	TOTAL PROJECT				$ 1,391,000

* All unit prices reflect 2024 costs.

Name	A-0D				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	480	$527	$ 253,000
2	Install 48" RCP	FT	550	$656	$ 361,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	5,790	$2.66	$ 15,000
5	Crushed Miscellaneous Base	SF	5,790	$4	$ 23,000
6	Replace Asphalt Concrete Pavement	SF	5,790	$2	$ 12,000
7	Traffic Control	%	5%		$ 36,000
8	Erosion Control	%	1%		$ 38,000
9	Mobilization/Demobilization	%	10%		$ 40,000
			SUBTOTAL (CONSTRUCTION)		$ 839,000
	Engineering and Design	%	10%		$ 84,000
	Surveying & Staking & Geotechnical	%	5%		$ 42,000
	Construction Management/Staff	%	10%		$ 84,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 210,000
			SUBTOTAL COST		$ 1,049,000
			CONTINGENCY	20%	$ 210,000
			TOTAL PROJECT		$ 1,259,000

* All unit prices reflect 2024 costs.

Name	A-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	1,100	$588	$ 647,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	10,040	$2.66	$ 27,000
5	Crushed Miscellaneous Base	SF	10,040	$4	$ 40,000
6	Replace Asphalt Concrete Pavement	SF	10,040	$2	$ 20,000
7	Traffic Control	%	5%		$ 58,000
8	Erosion Control	%	1%		$ 12,000
9	Mobilization/Demobilization	%	10%		$ 124,000
			SUBTOTAL (CONSTRUCTION)		$ 1,362,000
	Engineering and Design	%	10%		$ 136,000
	Surveying & Staking & Geotechnical	%	5%		$ 68,000
	Construction Management/Staff	%	10%		$ 136,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 340,000
			SUBTOTAL COST		$ 1,702,000
			CONTINGENCY	20%	$ 340,000
			TOTAL PROJECT		$ 2,042,000

* All unit prices reflect 2024 costs.

Name	A-1A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	800	$527	$ 422,000
2	Install 48" RCP	FT	690	$656	$ 453,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	8,320	$2.66	$ 22,000
5	Crushed Miscellaneous Base	SF	8,320	$4	$ 33,000
6	Replace Asphalt Concrete Pavement	SF	8,320	$2	$ 17,000
7	Traffic Control	%	5%		$ 51,000
8	Erosion Control	%	1%		$ 11,000
9	Mobilization/Demobilization	%	10%		$ 109,000
			SUBTOTAL (CONSTRUCTION)		$ 1,199,000
	Engineering and Design	%	10%		$ 120,000
	Surveying & Staking & Geotechnical	%	5%		$ 60,000
	Construction Management/Staff	%	10%		$ 120,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 300,000
			SUBTOTAL COST		$ 1,499,000
			CONTINGENCY	20%	$ 300,000
			TOTAL PROJECT		$ 1,799,000

* All unit prices reflect 2024 costs.

Name	A-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	890	$527	$ 469,000
2	Install 54" RCP	FT	1,130	$732	$ 827,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,390	$2.66	$ 30,000
5	Crushed Miscellaneous Base	SF	11,390	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,390	$2	$ 23,000
7	Traffic Control	%	5%		$ 75,000
8	Erosion Control	%	1%		$ 16,000
9	Mobilization/Demobilization	%	10%		$ 159,000
			SUBTOTAL (CONSTRUCTION)		$ 1,747,000
	Engineering and Design	%	10%		$ 175,000
	Surveying & Staking & Geotechnical	%	5%		$ 87,000
	Construction Management/Staff	%	10%		$ 175,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 437,000
			SUBTOTAL COST		$ 2,184,000
			CONTINGENCY	20%	$ 437,000
			TOTAL PROJECT		$ 2,621,000

* All unit prices reflect 2024 costs.

Name	A-2A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	850	$527	$ 448,000
2	Install 42" RCP	FT	120	$588	$ 71,000
3	Install 48" RCP	FT	870	$656	$ 571,000
4	Manhole	EA	5	$20,322	$ 102,000
5	Sawcut and Remove Existing AC Pavement	SF	10,820	$2.66	$ 29,000
6	Crushed Miscellaneous Base	SF	10,820	$4	$ 43,000
7	Replace Asphalt Concrete Pavement	SF	10,820	$2	$ 22,000
8	Traffic Control	%	5%		$ 64,000
9	Erosion Control	%	1%		$ 14,000
10	Mobilization/Demobilization	%	10%		$ 136,000
			SUBTOTAL (CONSTRUCTION)		$ 1,500,000
	Engineering and Design	%	10%		$ 150,000
	Surveying & Staking & Geotechnical	%	5%		$ 75,000
	Construction Management/Staff	%	10%		$ 150,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 375,000
			SUBTOTAL COST		$ 1,875,000
			CONTINGENCY	20%	$ 375,000
			TOTAL PROJECT		$ 2,250,000

* All unit prices reflect 2024 costs.

Name	A-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 90" RCP	FT	4,950	$1,409	$ 6,975,000
2	Install 96" RCP	FT	1,240	$1,572	$ 1,949,000
3	Manhole	EA	15	$20,322	$ 305,000
4	Sawcut and Remove Existing AC Pavement	SF	25,380	$2.66	$ 68,000
5	Crushed Miscellaneous Base	SF	25,380	$4	$ 102,000
6	Replace Asphalt Concrete Pavement	SF	25,380	$2	$ 51,000
7	Traffic Control	%	5%		$ 473,000
8	Erosion Control	%	1%		$ 99,000
9	Mobilization/Demobilization	%	10%		$ 1,002,000
			SUBTOTAL (CONSTRUCTION)		$ 11,024,000
	Engineering and Design	%	10%		$ 1,102,000
	Surveying & Staking & Geotechnical	%	5%		$ 551,000
	Construction Management/Staff	%	10%		$ 1,102,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,755,000
			SUBTOTAL COST		$ 13,779,000
			CONTINGENCY	20%	$ 2,756,000
			TOTAL PROJECT		$ 16,535,000

* All unit prices reflect 2024 costs.

Name	A-3A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	1,350	$588	$ 794,000
3	Manhole	EA	5	$20,322	$ 102,000
4	Sawcut and Remove Existing AC Pavement	SF	11,500	$2.66	$ 31,000
5	Crushed Miscellaneous Base	SF	11,500	$4	$ 46,000
6	Replace Asphalt Concrete Pavement	SF	11,500	$2	$ 23,000
7	Traffic Control	%	5%		$ 67,000
8	Erosion Control	%	1%		$ 14,000
9	Mobilization/Demobilization	%	10%		$ 143,000
			SUBTOTAL (CONSTRUCTION)		$ 1,573,000
	Engineering and Design	%	10%		$ 157,000
	Surveying & Staking & Geotechnical	%	5%		$ 79,000
	Construction Management/Staff	%	10%		$ 157,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 393,000
			SUBTOTAL COST		$ 1,966,000
			CONTINGENCY	20%	$ 393,000
			TOTAL PROJECT		$ 2,359,000

* All unit prices reflect 2024 costs.

Name	A-3B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 96" RCP	FT	660	$1,572	$ 1,038,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Sawcut and Remove Existing AC Pavement	SF	7,100	$2.66	$ 19,000
4	Crushed Miscellaneous Base	SF	7,100	$4	$ 28,000
5	Replace Asphalt Concrete Pavement	SF	7,100	$2	$ 14,000
6	Traffic Control	%	5%		$ 57,000
7	Erosion Control	%	1%		$ 12,000
8	Mobilization/Demobilization	%	10%		$ 121,000
			SUBTOTAL (CONSTRUCTION)		$ 1,330,000
	Engineering and Design	%	10%		$ 133,000
	Surveying & Staking & Geotechnical	%	5%		$ 67,000
	Construction Management/Staff	%	10%		$ 133,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 333,000
			SUBTOTAL COST		$ 1,663,000
			CONTINGENCY	20%	$ 333,000
			TOTAL PROJECT		$ 1,996,000

* All unit prices reflect 2024 costs.

Name	A-3C				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	3,510	$911	$ 3,198,000
2	Manhole	EA	9	$20,322	$ 183,000
3	Sawcut and Remove Existing AC Pavement	SF	28,230	$2.66	$ 75,000
4	Crushed Miscellaneous Base	SF	28,230	$4	$ 113,000
5	Replace Asphalt Concrete Pavement	SF	28,230	$2	$ 56,000
6	Traffic Control	%	5%		$ 181,000
7	Erosion Control	%	1%		$ 38,000
8	Mobilization/Demobilization	%	10%		$ 384,000
			SUBTOTAL (CONSTRUCTION)		$ 4,228,000
	Engineering and Design	%	10%		$ 423,000
	Surveying & Staking & Geotechnical	%	5%		$ 211,000
	Construction Management/Staff	%	10%		$ 423,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,057,000
			SUBTOTAL COST		$ 5,285,000
			CONTINGENCY +	25%	$ 1,321,000
			TOTAL PROJECT		$ 6,606,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	A-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	670	$527	$ 353,000
2	Install 42" RCP	FT	640	$588	$ 376,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	7,330	$2.66	$ 19,000
5	Crushed Miscellaneous Base	SF	7,330	$4	$ 29,000
6	Replace Asphalt Concrete Pavement	SF	7,330	$2	$ 15,000
7	Traffic Control	%	5%		$ 43,000
8	Erosion Control	%	1%		$ 9,000
9	Mobilization/Demobilization	%	10%		$ 91,000
			SUBTOTAL (CONSTRUCTION)		$ 996,000
	Engineering and Design	%	10%		$ 100,000
	Surveying & Staking & Geotechnical	%	5%		$ 50,000
	Construction Management/Staff	%	10%		$ 100,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 250,000
			SUBTOTAL COST		$ 1,246,000
			CONTINGENCY	20%	$ 249,000
			TOTAL PROJECT		$ 1,495,000

* All unit prices reflect 2024 costs.

Name	B-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	410	$527	$ 216,000
2	Install 42" RCP	FT	870	$588	$ 512,000
3	Install 42" RCP	FT	110	$588	$ 65,000
4	Install 54" RCP	FT	560	$732	$ 410,000
5	Install 54" RCP	FT	100	$732	$ 73,000
6	Manhole	EA	5	$20,322	$ 102,000
7	Sawcut and Remove Existing AC Pavement	SF	12,540	$2.66	$ 33,000
8	Crushed Miscellaneous Base	SF	12,540	$4	$ 50,000
9	Replace Asphalt Concrete Pavement	SF	12,540	$2	$ 25,000
10	Traffic Control	%	5%		$ 74,000
11	Erosion Control	%	1%		$ 16,000
12	Mobilization/Demobilization	%	10%		$ 158,000
			SUBTOTAL (CONSTRUCTION)		$ 1,734,000
	Engineering and Design	%	10%		$ 173,000
	Surveying & Staking & Geotechnical	%	5%		$ 87,000
	Construction Management/Staff	%	10%		$ 173,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 433,000
			SUBTOTAL COST		$ 2,167,000
			CONTINGENCY +	25%	$ 542,000
			TOTAL PROJECT		$ 2,709,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	B-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 48" RCP	FT	1,150	$656	$ 754,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Remove 36" RCP	FT	1,150	$53	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	7,380	$2.66	$ 20,000
5	Crushed Miscellaneous Base	SF	7,380	$4	$ 30,000
6	Replace Asphalt Concrete Pavement	SF	7,380	$2	$ 15,000
7	Traffic Control	%	5%		$ 47,000
8	Erosion Control	%	1%		$ 10,000
9	Mobilization/Demobilization	%	10%		$ 100,000
			SUBTOTAL (CONSTRUCTION)		$ 1,098,000
	Engineering and Design	%	10%		$ 110,000
	Surveying & Staking & Geotechnical	%	5%		$ 55,000
	Construction Management/Staff	%	10%		$ 110,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 275,000
			SUBTOTAL COST		$ 1,373,000
			CONTINGENCY	20%	$ 275,000
			TOTAL PROJECT		$ 1,648,000

* All unit prices reflect 2024 costs.

Name	B-3				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	400	$527	$ 211,000
2	Install 42" RCP	FT	360	$588	$ 212,000
3	Manhole	EA	2	$20,322	$ 41,000
4	Sawcut and Remove Existing AC Pavement	SF	4,250	$2.66	$ 11,000
5	Crushed Miscellaneous Base	SF	4,250	$4	$ 17,000
6	Replace Asphalt Concrete Pavement	SF	4,250	$2	$ 9,000
7	Traffic Control	%	5%		$ 25,000
8	Erosion Control	%	1%		$ 5,000
9	Mobilization/Demobilization	%	10%		$ 53,000
			SUBTOTAL (CONSTRUCTION)		$ 584,000
	Engineering and Design	%	10%		$ 58,400
	Surveying & Staking & Geotechnical	%	5%		$ 29,000
	Construction Management/Staff	%	10%		$ 58,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 145,000
			SUBTOTAL COST		$ 729,000
			CONTINGENCY +	25%	$ 182,000
			TOTAL PROJECT		$ 911,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to SCG transmisson line conflict

Name	B-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	1,240	$1,016	$ 1,260,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Remove 66" RCP	FT	1,240	$99	$ 123,000
4	Sawcut and Remove Existing AC Pavement	SF	10,640	$2.66	$ 28,000
5	Crushed Miscellaneous Base	SF	10,640	$4	$ 43,000
6	Replace Asphalt Concrete Pavement	SF	10,640	$2	$ 21,000
7	Traffic Control	%	5%		$ 77,000
8	Erosion Control	%	1%		$ 16,000
9	Mobilization/Demobilization	%	10%		$ 163,000
			SUBTOTAL (CONSTRUCTION)		$ 1,792,000
	Engineering and Design	%	10%		$ 179,000
	Surveying & Staking & Geotechnical	%	5%		$ 90,000
	Construction Management/Staff	%	10%		$ 179,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 448,000
			SUBTOTAL COST		$ 2,240,000
			CONTINGENCY +	25%	$ 560,000
			TOTAL PROJECT		$ 2,800,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main and SCG transmisson line conflict

Name	B-5A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,050	$588	$ 617,000
3	Install 48" RCP	FT	1,550	$656	$ 1,017,000
4	Manhole	EA	8	$20,322	$ 163,000
5	Sawcut and Remove Existing AC Pavement	SF	19,630	$2.66	$ 52,000
6	Crushed Miscellaneous Base	SF	19,630	$4	$ 79,000
7	Replace Asphalt Concrete Pavement	SF	19,630	$2	$ 39,000
8	Traffic Control	%	5%		$ 116,000
9	Erosion Control	%	1%		$ 24,000
10	Mobilization/Demobilization	%	10%		$ 246,000
			SUBTOTAL (CONSTRUCTION)		$ 2,701,000
	Engineering and Design	%	10%		$ 270,000
	Surveying & Staking & Geotechnical	%	5%		$ 135,000
	Construction Management/Staff	%	10%		$ 270,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 675,000
			SUBTOTAL COST		$ 3,376,000
			CONTINGENCY	20%	$ 675,000
			TOTAL PROJECT		$ 4,051,000

* All unit prices reflect 2024 costs.

Name	B-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	200	$527	$ 105,000
2	Manhole	EA	1	$20,322	$ 20,000
3	Sawcut and Remove Existing AC Pavement	SF	1,070	$2.66	$ 3,000
4	Crushed Miscellaneous Base	SF	1,070	$4	$ 4,000
5	Replace Asphalt Concrete Pavement	SF	1,070	$2	$ 2,000
6	Traffic Control	%	5%		$ 7,000
7	Erosion Control	%	1%		$ 1,000
8	Mobilization/Demobilization	%	10%		$ 14,000
			SUBTOTAL (CONSTRUCTION)		$ 156,000
	Engineering and Design	%	10%		$ 15,600
	Surveying & Staking & Geotechnical	%	5%		$ 8,000
	Construction Management/Staff	%	10%		$ 16,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 40,000
			SUBTOTAL COST		$ 196,000
			CONTINGENCY	20%	$ 39,000
			TOTAL PROJECT		$ 235,000

* All unit prices reflect 2024 costs.

Name	B-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	500	$527	$ 264,000
2	Install 42" RCP	FT	640	$588	$ 376,000
3	Manhole	EA	3	$20,322	$ 61,000
4	Sawcut and Remove Existing AC Pavement	SF	6,430	$2.66	$ 17,000
5	Crushed Miscellaneous Base	SF	6,430	$4	$ 26,000
6	Replace Asphalt Concrete Pavement	SF	6,430	$2	$ 13,000
7	Traffic Control	%	5%		$ 38,000
8	Erosion Control	%	1%		$ 8,000
9	Mobilization/Demobilization	%	10%		$ 80,000
			SUBTOTAL (CONSTRUCTION)		$ 883,000
	Engineering and Design	%	10%		$ 88,000
	Surveying & Staking & Geotechnical	%	5%		$ 44,000
	Construction Management/Staff	%	10%		$ 88,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 220,000
			SUBTOTAL COST		$ 1,103,000
			CONTINGENCY	20%	$ 221,000
			TOTAL PROJECT		$ 1,324,000

* All unit prices reflect 2024 costs.

Name	B-8				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	520	$527	$ 274,000
2	Install 48" RCP	FT	990	$656	$ 649,000
3	Manhole	EA	4	$20,322	$ 81,000
4	Sawcut and Remove Existing AC Pavement	SF	8,590	$2.66	$ 23,000
5	Crushed Miscellaneous Base	SF	8,590	$4	$ 34,000
6	Replace Asphalt Concrete Pavement	SF	8,590	$2	$ 17,000
7	Traffic Control	%	5%		$ 54,000
8	Erosion Control	%	1%		$ 11,000
9	Mobilization/Demobilization	%	10%		$ 114,000
			SUBTOTAL (CONSTRUCTION)		$ 1,257,000
	Engineering and Design	%	10%		$ 126,000
	Surveying & Staking & Geotechnical	%	5%		$ 63,000
	Construction Management/Staff	%	10%		$ 126,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 315,000
			SUBTOTAL COST		$ 1,572,000
			CONTINGENCY	20%	$ 314,000
			TOTAL PROJECT		$ 1,886,000

* All unit prices reflect 2024 costs.

Name	C-0				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,300	$816	$ 1,061,000
2	Install 72" RCP	FT	2,590	$1,016	$ 2,631,000
3	Manhole	EA	10	$20,322	$ 203,000
4	Remove 60" RCP	FT	3,030	$89	$ 270,000
5	Remove 66" RCP	FT	850	$99	$ 84,000
6	Sawcut and Remove Existing AC Pavement	SF	31,980	$2.66	$ 85,000
7	Crushed Miscellaneous Base	SF	31,980	$4	$ 128,000
8	Replace Asphalt Concrete Pavement	SF	31,980	$2	$ 64,000
9	Traffic Control	%	5%		$ 226,000
10	Erosion Control	%	1%		$ 48,000
11	Mobilization/Demobilization	%	10%		$ 480,000
			SUBTOTAL (CONSTRUCTION)		$ 5,280,000
	Engineering and Design	%	10%		$ 528,000
	Surveying & Staking & Geotechnical	%	5%		$ 264,000
	Construction Management/Staff	%	10%		$ 528,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,320,000
			SUBTOTAL COST		$ 6,600,000
			CONTINGENCY	20%	$ 1,320,000
			TOTAL PROJECT		$ 7,920,000

* All unit prices reflect 2024 costs.

Name	C-2				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 66" RCP	FT	430	$911	$ 392,000
2	Install 72" RCP	FT	520	$1,016	$ 528,000
3	Manhole	EA	2	$20,322	$ 41,000
4	Remove 60" RCP	FT	950	$89	$ 85,000
5	Sawcut and Remove Existing AC Pavement	SF	7,920	$2.66	$ 21,000
6	Crushed Miscellaneous Base	SF	7,920	$4	$ 32,000
7	Replace Asphalt Concrete Pavement	SF	7,920	$2	$ 16,000
8	Traffic Control	%	5%		$ 56,000
9	Erosion Control	%	1%		$ 12,000
10	Mobilization/Demobilization	%	10%		$ 118,000
			SUBTOTAL (CONSTRUCTION)		$ 1,301,000
	Engineering and Design	%	10%		$ 130,000
	Surveying & Staking & Geotechnical	%	5%		$ 65,000
	Construction Management/Staff	%	10%		$ 130,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 325,000
			SUBTOTAL COST		$ 1,626,000
			CONTINGENCY	20%	$ 325,000
			TOTAL PROJECT		$ 1,951,000

* All unit prices reflect 2024 costs.

Name	C-4				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,210	$816	$ 987,000
2	Install 66" RCP	FT	400	$911	$ 364,000
3	Install 72" RCP	FT	630	$1,016	$ 640,000
4	Manhole	EA	6	$20,322	$ 122,000
5	Remove 42" RCP	FT	1,240	$62	$ 77,000
6	Remove 54" RCP	FT	890	$80	$ 71,000
7	Sawcut and Remove Existing AC Pavement	SF	17,700	$2.66	$ 47,000
8	Crushed Miscellaneous Base	SF	17,700	$4	$ 71,000
9	Replace Asphalt Concrete Pavement	SF	17,700	$2	$ 35,000
10	Traffic Control	%	5%		$ 121,000
11	Erosion Control	%	1%		$ 25,000
12	Mobilization/Demobilization	%	10%		$ 256,000
			SUBTOTAL (CONSTRUCTION)		$ 2,816,000
	Engineering and Design	%	10%		$ 282,000
	Surveying & Staking & Geotechnical	%	5%		$ 141,000
	Construction Management/Staff	%	10%		$ 282,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 705,000
			SUBTOTAL COST		$ 3,521,000
			CONTINGENCY	20%	$ 704,000
			TOTAL PROJECT		$ 4,225,000

* All unit prices reflect 2024 costs.

Name	C-5				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 60" RCP	FT	1,600	$816	$ 1,306,000
2	Manhole	EA	4	$20,322	$ 81,000
3	Remove 42" RCP	FT	1,540	$62	$ 95,000
4	Sawcut and Remove Existing AC Pavement	SF	12,000	$2.66	$ 32,000
5	Crushed Miscellaneous Base	SF	12,000	$4	$ 48,000
6	Replace Asphalt Concrete Pavement	SF	12,000	$2	$ 24,000
7	Traffic Control	%	5%		$ 79,000
8	Erosion Control	%	1%		$ 17,000
9	Mobilization/Demobilization	%	10%		$ 168,000
			SUBTOTAL (CONSTRUCTION)		$ 1,850,000
	Engineering and Design	%	10%		$ 185,000
	Surveying & Staking & Geotechnical	%	5%		$ 93,000
	Construction Management/Staff	%	10%		$ 185,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 463,000
			SUBTOTAL COST		$ 2,313,000
			CONTINGENCY	20%	$ 463,000
			TOTAL PROJECT		$ 2,776,000

* All unit prices reflect 2024 costs.

Name	C-6				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 42" RCP	FT	450	$588	$ 265,000
2	Manhole	EA	1	$20,322	$ 20,000
3	Remove 36" RCP	FT	520	$53	$ 28,000
4	Sawcut and Remove Existing AC Pavement	SF	2,640	$2.66	$ 7,000
5	Crushed Miscellaneous Base	SF	2,640	$4	$ 11,000
6	Replace Asphalt Concrete Pavement	SF	2,640	$2	$ 5,000
7	Traffic Control	%	5%		$ 17,000
8	Erosion Control	%	1%		$ 4,000
9	Mobilization/Demobilization	%	10%		$ 36,000
	SUBTOTAL (CONSTRUCTION)				$ 393,000
	Engineering and Design	%	10%		$ 39,300
	Surveying & Staking & Geotechnical	%	5%		$ 20,000
	Construction Management/Staff	%	10%		$ 39,000
	SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)				$ 98,000
	SUBTOTAL COST				$ 491,000
	CONTINGENCY			20%	$ 98,000
	TOTAL PROJECT				$ 589,000

* All unit prices reflect 2024 costs.

Name	C-7				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 72" RCP	FT	2,060	$1,016	$ 2,093,000
2	Manhole	EA	5	$20,322	$ 102,000
3	Remove 60" RCP	FT	1,470	$89	$ 131,000
4	Remove 66" RCP	FT	570	$99	$ 56,000
5	Sawcut and Remove Existing AC Pavement	SF	17,680	$2.66	$ 47,000
6	Crushed Miscellaneous Base	SF	17,680	$4	$ 71,000
7	Replace Asphalt Concrete Pavement	SF	17,680	$2	$ 35,000
8	Traffic Control	%	5%		$ 127,000
9	Erosion Control	%	1%		$ 27,000
10	Mobilization/Demobilization	%	10%		$ 269,000
			SUBTOTAL (CONSTRUCTION)		$ 2,958,000
	Engineering and Design	%	10%		$ 296,000
	Surveying & Staking & Geotechnical	%	5%		$ 148,000
	Construction Management/Staff	%	10%		$ 296,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 740,000
			SUBTOTAL COST		$ 3,698,000
			CONTINGENCY +	25%	$ 925,000
			TOTAL PROJECT		$ 4,623,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to 12' water main and SCG transmisson line conflict

Name	C-8				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 78" RCP	FT	1,830	$1,133	$ 2,073,000
2	Manhole	EA	5	$20,322	$ 102,000
3	Sawcut and Remove Existing AC Pavement	SF	16,700	$2.66	$ 44,000
4	Crushed Miscellaneous Base	SF	16,700	$4	$ 67,000
5	Replace Asphalt Concrete Pavement	SF	16,700	$2	$ 33,000
6	Traffic Control	%	5%		$ 116,000
7	Erosion Control	%	1%		$ 24,000
8	Mobilization/Demobilization	%	10%		$ 246,000
			SUBTOTAL (CONSTRUCTION)		$ 2,705,000
	Engineering and Design	%	10%		$ 271,000
	Surveying & Staking & Geotechnical	%	5%		$ 135,000
	Construction Management/Staff	%	10%		$ 271,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 677,000
			SUBTOTAL COST		$ 3,382,000
			CONTINGENCY +	25%	$ 846,000
			TOTAL PROJECT		$ 4,228,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	C-8A				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	1,330	$527	$ 701,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	7,090	$2.66	$ 19,000
4	Crushed Miscellaneous Base	SF	7,090	$4	$ 28,000
5	Replace Asphalt Concrete Pavement	SF	7,090	$2	$ 14,000
6	Traffic Control	%	5%		$ 41,000
7	Erosion Control	%	1%		$ 9,000
8	Mobilization/Demobilization	%	10%		$ 87,000
			SUBTOTAL (CONSTRUCTION)		$ 960,000
	Engineering and Design	%	10%		$ 1,002,000
	Surveying & Staking & Geotechnical	%	5%		$ 48,000
	Construction Management/Staff	%	10%		$ 96,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 1,146,000
			SUBTOTAL COST		$ 2,106,000
			CONTINGENCY +	25%	$ 527,000
			TOTAL PROJECT		$ 2,633,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	C-8B				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 36" RCP	FT	660	$527	$ 348,000
2	Install 42" RCP	FT	1,080	$588	$ 635,000
3	Install 48" RCP	FT	1,450	$656	$ 951,000
4	Install 54" RCP	FT	1,080	$732	$ 791,000
5	Manhole	EA	11	$20,322	$ 224,000
6	Sawcut and Remove Existing AC Pavement	SF	26,680	$2.66	$ 71,000
7	Crushed Miscellaneous Base	SF	26,680	$4	$ 107,000
8	Replace Asphalt Concrete Pavement	SF	26,680	$2	$ 53,000
9	Traffic Control	%	5%		$ 159,000
10	Erosion Control	%	1%		$ 33,000
11	Mobilization/Demobilization	%	10%		$ 337,000
			SUBTOTAL (CONSTRUCTION)		$ 3,709,000
	Engineering and Design	%	10%		$ 371,000
	Surveying & Staking & Geotechnical	%	5%		$ 185,000
	Construction Management/Staff	%	10%		$ 371,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 927,000
			SUBTOTAL COST		$ 4,636,000
			CONTINGENCY +	25%	$ 1,159,000
			TOTAL PROJECT		$ 5,795,000

* All unit prices reflect 2024 costs.

+ Contingency increased to 25% due to major highway conflict

Name	C-9				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 12' x 9' RCB	FT	920	$7,251	$ 6,671,000
2	Manhole	EA	2	$20,322	$ 41,000
3	Remove 12' x 9' RCB	FT	790	$725	$ 573,000
4	Sawcut and Remove Existing AC Pavement	SF	10,120	$2.66	$ 27,000
5	Crushed Miscellaneous Base	SF	10,120	$4	$ 40,000
6	Replace Asphalt Concrete Pavement	SF	10,120	$2	$ 20,000
7	Traffic Control	%	5%		$ 369,000
8	Erosion Control	%	1%		$ 77,000
9	Mobilization/Demobilization	%	10%		$ 782,000
			SUBTOTAL (CONSTRUCTION)		$ 8,600,000
	Engineering and Design	%	10%		$ 860,000
	Surveying & Staking & Geotechnical	%	5%		$ 430,000
	Construction Management/Staff	%	10%		$ 860,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 2,150,000
			SUBTOTAL COST		$ 10,750,000
			CONTINGENCY	20%	$ 2,150,000
			TOTAL PROJECT		$ 12,900,000

* All unit prices reflect 2024 costs.

Name	HR-1				
Item No.	Item Description	Project Total			
		Units	Quantities	Unit Price *	Item Total
1	Install 96" RCP	FT	1,380	$1,572	$ 2,169,000
2	Manhole	EA	3	$20,322	$ 61,000
3	Sawcut and Remove Existing AC Pavement	SF	14,840	$2.66	$ 39,000
4	Crushed Miscellaneous Base	SF	14,840	$4	$ 59,000
5	Replace Asphalt Concrete Pavement	SF	14,840	$2	$ 30,000
6	Traffic Control	%	5%		$ 118,000
7	Erosion Control	%	1%		$ 25,000
8	Mobilization/Demobilization	%	10%		$ 250,000
			SUBTOTAL (CONSTRUCTION)		$ 2,751,000
	Engineering and Design	%	10%		$ 275,000
	Surveying & Staking & Geotechnical	%	5%		$ 138,000
	Construction Management/Staff	%	10%		$ 275,000
			SUBTOTAL (ENGINEERING AND CONSTRUCTION ADMINISTRATION)		$ 688,000
			SUBTOTAL COST		$ 3,439,000
			CONTINGENCY	20%	$ 688,000
			TOTAL PROJECT		$ 4,127,000

* All unit prices reflect 2024 costs.

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