FINAL

Boggs Tract Sustainable Community Plan

County of San Joaquin
Department of Public Works

Caltrans Sustainable Communities Grant

AECOM Project No.: 60635824

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1. Introduction

Boggs Tract Community is located near the interchange at Interstate 5 (I-5) and State Route 4 (SR-4) in the southwest part of Stockton, San Joaquin County, California. Roughly half of Boggs Tract is located within the City of Stockton limits and the remainder is within unincorporated San Joaquin County. The Port of Stockton and industrial facilities surround the community on three sides with I-5 forming its eastern border. The community is a vibrant and diverse neighborhood that is constrained by railroad tracks, highways and is traversed over by SR-4 resulting in the neighborhood being isolated from the surrounding city. There are several points of interest for residents within Boggs Tract including an elementary school, religious institutions, community farm, center, and park that pedestrians and cyclists travel to on a regular basis. However, many of the roadways that run through the Boggs Tract neighborhood lack bike paths or lanes, sidewalks, crosswalks, and other facilities for community members to access local destinations.

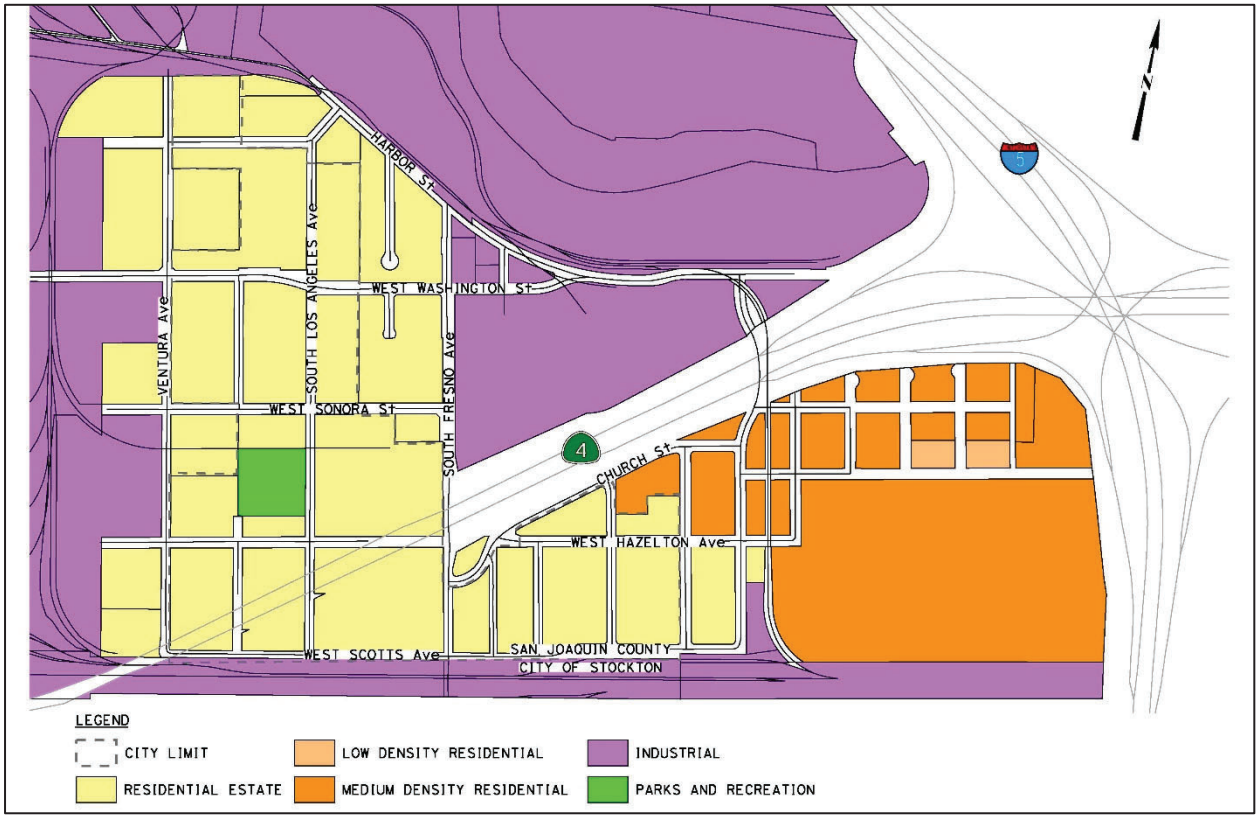
The goal of the Boggs Tract Sustainable Community Plan (SCP) is to guide future street and community improvements that enhance mobility, promote walking, biking and public transit, reduce greenhouse gas emissions from motor vehicles, and provide community spaces. The objective of the SCP is to inventory the existing facilities, engage the residents and stakeholders to understand the community's needs and desires, determine a viable list of improvements, and develop a funding strategy to address the project goals. This memorandum will document the processes followed, the results of the study, and recommendations for next steps.

2. Inventory

2.1 Land Uses

According to the 2040 Stockton General Plan (GP), the zoning in the area is primarily Residential Estate and Low Density Residential, and some Industrial. As such, most of the neighborhood is single family homes; however, much of the area is undeveloped including vacant lots and large open areas. The neighborhood includes a school, park, community center and farm, several religious institutions, and a few small commercial properties. The industrial uses are focused in the northeast quadrant of the neighborhood between West Washington Street/Harbor Street and SR-4. Rail lines nearly encircle the neighborhood except for where it adjoins the freeway. One rail line cuts through the neighborhood north to south just east of Garfield Avenue. Land uses immediately outside the neighborhood are industrial. **Figure 1** shows the GP Land Use Map of the Boggs Tract community.

Figure 1. 2040 Stockton General Plan Land Use Map of Boggs Tract Community



2.2 Transportation Facilities

This section summarizes the existing transportation facilities within the Boggs Tract Community including roadways, bike lanes, sidewalks, crosswalks, intersections, pavement conditions, and lighting. This inventory was compiled through a combination of site observation and Google Street View.

Roadways

The Boggs Tract Community is bounded by Ventura Avenue to the west, EB SR-4 to SB I-5 connector to the east, West Scotts Avenue to the south, and Harbor Street to the north. The details of major roadways within the community are presented in the following subsections.

Ventura Avenue

Ventura Avenue is a north-south, two-lane undivided local road. Ventura Avenue provides access to all the east-west local streets (e.g., West Scotts Avenue and West Washington Street), local residential, community farm, and local commercial areas within the community. A passive at-grade rail crossing is located on Ventura Avenue approximately 200 ft south of West Sonora Street. Pavement markings such as centerline and edge line markings are not visible on most of Ventura Avenue. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 miles per hour (mph) for residential areas.

South Los Angeles Avenue

South Los Angeles Avenue is a north-south, two-lane undivided local road with centerline. South Los Angeles Avenue connects West Scotts Avenue and Harbor Street and provides access to other east-west local streets within the community. South Los Angeles Avenue also provides access to local residential, community center and farm, and local commercial areas within the community. A passive at-grade rail crossing is located on South Los Angeles Avenue approximately 210 ft south of West Sonora Street. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Fresno Avenue
South Fresno Avenue is a north-south, two-lane undivided local collector with centerline. South Fresno Avenue connects West Scotts Avenue and Harbor Street and provides access to other east-west local streets, local residential, and commercial areas within the community. South Fresno Avenue also provides the only road link out of the south side of Boggs Tract to Charter Way. The posted speed limit is 25 mph.

Garfield Avenue
Garfield Avenue is a north-south, two lane undivided local road. Garfield Avenue connects West Scotts Avenue and West Washington Street and provides access to other east-west local streets and local residential areas within the community. An active at-grade rail crossing is located near the intersection at Garfield Avenue and West Washington Street. The crossing is equipped with flashing lights and gates that are installed on all intersection approaches. Centerlines are only visible on Garfield Avenue north of Church Street. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

Del Norte Street
Del Norte Street is a north-south, two lane undivided local road. Del Norte Street consists of two parts: one connects West Washington Street and West Sonora Street, and the other connects West Hazelton Avenue and West Scotts Avenue. Del Norte Street provides access to local residential areas. Centerlines and edge lines are not visible on Del Norte Street except approaching the intersections. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Wilke Avenue
South Wilke Avenue is a short north-south, two lane undivided local road connecting Church Street and West Scotts Avenue. South Wilke Avenue provides access to local residential areas. Centerlines and edge lines are not visible on South Wilke Avenue except approaching the intersections. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Merced Avenue
South Merced Avenue is a short north-south, two lane undivided local road connecting West Hazelton Avenue and West Scotts Avenue. South Merced Avenue provides access to local residential areas. Centerlines and edge lines are not visible on South Merced Avenue except approaching the intersections. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Modesto Avenue
South Modesto Avenue is a north-south, two lane undivided local road connecting Church Street and West Scotts Avenue. South Modesto Avenue provides access to local residential areas. Centerlines and edge lines are not visible on most parts of South Modesto Avenue. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Pershing Avenue
South Pershing Avenue is a north-south, two lane undivided local road east of South Modesto Avenue that also connects Church Street and West Scotts Avenue. South Pershing Avenue provides access to local residential areas. Centerlines and edge lines are not visible on South Pershing Avenue. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

South Orange Street
South Orange Street is a north-south, two lane undivided local road connecting West Sonora Street and West Hazelton Avenue. South Orange Street provides access to local residential areas. Centerlines and edge lines are not visible on South Orange Street. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

West Scotts Avenue
West Scotts Avenue is an east-west, two lane undivided local road. West Scotts Avenue connects Ventura Avenue and Garfield Avenue and provides access to other north-south local streets and local residential areas within the community. Centerlines are visible on the entire West Scotts Avenue. Edge lines are visible on some parts of West Scotts Avenue, mostly on the south side of the road. The posted speed limit is 25 mph.

West Hazelton Avenue
West Hazelton Avenue is an east-west, two lane undivided local road. West Hazelton Avenue connects Ventura Avenue and South Orange Street with a gap around SR-4 overpass. West Hazelton Avenue provides access to local residential areas and Mt Zion Baptist Church. Centerlines are visible on West Hazelton Avenue except the part east of South Pershing Avenue. The posted speed limit is 25 mph.

Church Street
Church Street is an east-west, two lane undivided local road within the community. Church Street connects South Fresno Avenue and Garfield Avenue and provides access to local residential areas. Centerlines are visible on Church Street. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

West Sonora Street
West Sonora Street is an east-west, two lane undivided local road within the community. West Sonora Street runs through the community and staggers along Garfield Avenue. West Sonora Street between South Fresno Avenue and Garfield Avenue is located within a gated area and not accessible to the public. West Sonora Street provides access to locale residential areas, Washington Elementary School, local industrial areas, and Mt Sinai Church. An active at-grade rail crossing equipped with flashing lights is located approximately 55 ft on West Sonora Street east of Garfield Avenue. Centerlines are only visible on West Sonora Street between Del Norte Street and South Fresno Avenue. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

West Washington Street
West Washington Street is an east-west, two lane undivided local collector within the community connecting West Weber Avenue (not included in the study area) and Ventura Avenue. West Washington Street provides access to local residential area, religious institutions, local commercial areas, and local industrial areas. An active at-grade rail crossing is located near the intersection at Garfield Avenue and West Washington Street and a passive crossing near the intersection at West Washington Street and Harbor Street. Highway-rail at grade crossing warning devices/signs are installed on all intersection approaches at both intersections. Centerlines are visible on West Washington Street within the community. The posted speed limit is 30 mph.

Harbor Street
Harbor Street is an east-west, two lane undivided local road within the community. Harbor Street is located in the north of the community near Penny Newman Grain Co. and provides access to local residential areas, local commercial areas, and local industrial areas. A passive at-grade rail crossing is located near the intersection at West Washington Street and Harbor Street. Highway-rail at grade crossing warning signs are installed on all intersection approaches. Centerlines are visible on Harbor Street within the community. The speed limit is not posted, but per CA Vehicle Code Section 22352, it is 25 mph for residential areas.

Bike Lanes

The Caltrans *Highway Design Manual (7th Edition*, 2020) classifies bikeways into four categories:

- **Class I Bike Path** – a completely separated right-of-way for the exclusive use of bicycles and pedestrians with cross flows of motorized traffic minimized.
- **Class II Bike Lane** – a striped and signed lane for one-way bike travel on a street or highway.
- **Class III Bike Route** – signing only for shared use with motor vehicles within the same travel lane on a street or highway.
- **Class IV Separated Bikeway** – exclusive use of bicycles and includes a physical separation between bikes and vehicles, such as grade separation, flexible or inflexible posts/barriers, or on-street parking.

Currently, there are no bicycle facilities within the Boggs Tract Community. The City of Stockton's current Bicycle Master Plan (2017) identified locations and corridors for bicycle improvements throughout the city; however, no bike facility improvements were identified in the Boggs Tract community. San Joaquin County's Bicycle Master Update (2020) proposed a Class II Bike Lane on South Fresno (Washington Street to Scotts Avenue), and Sonora Street (Fresno Avenue to Ventura Avenue)

Sidewalks

Sidewalks are available mostly east of South Pershing Avenue within the community, and provide pedestrians with access to transit stops, residential areas, and religious institutions. In addition, sidewalks are also available along most parts of South Fresno Avenue, some parts of Washington Street and Harbor Street, and Visalia Court north of West Washington Street. (See **Figure 2**)

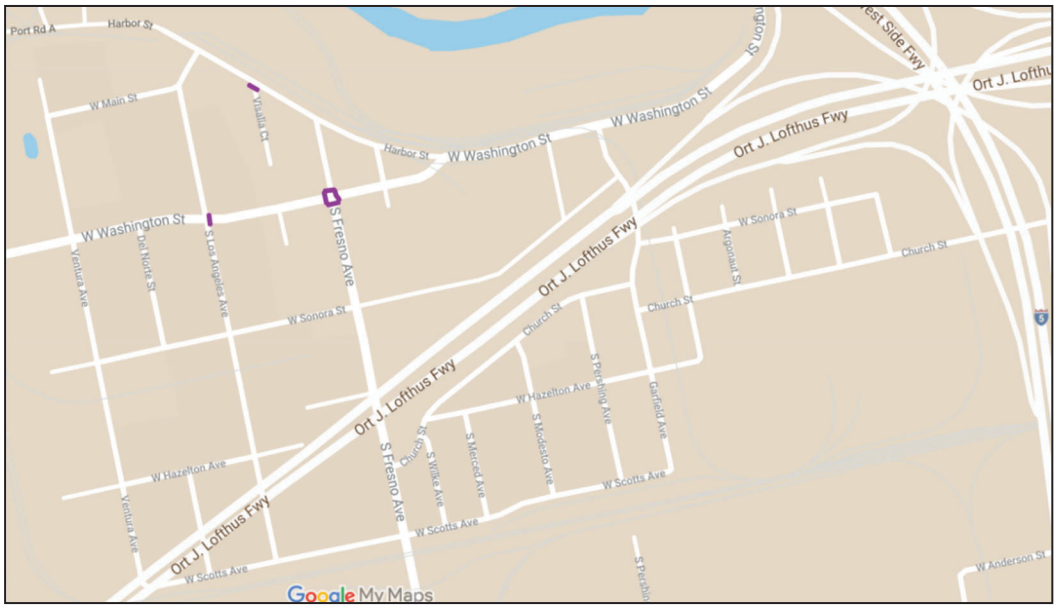
Figure 2. Existing Sidewalks

Crosswalks

Crosswalks are available at the three (3) intersections listed below and shown in **Figure 3**.

- On all approaches of South Fresno Avenue and West Washington Street. It should be noted that pavement markings for the crosswalk on the south approach are almost invisible.
- The south approach to Harbor Street and Visalia Court.
- The east approach to West Washington Street and South Los Angeles Avenue.

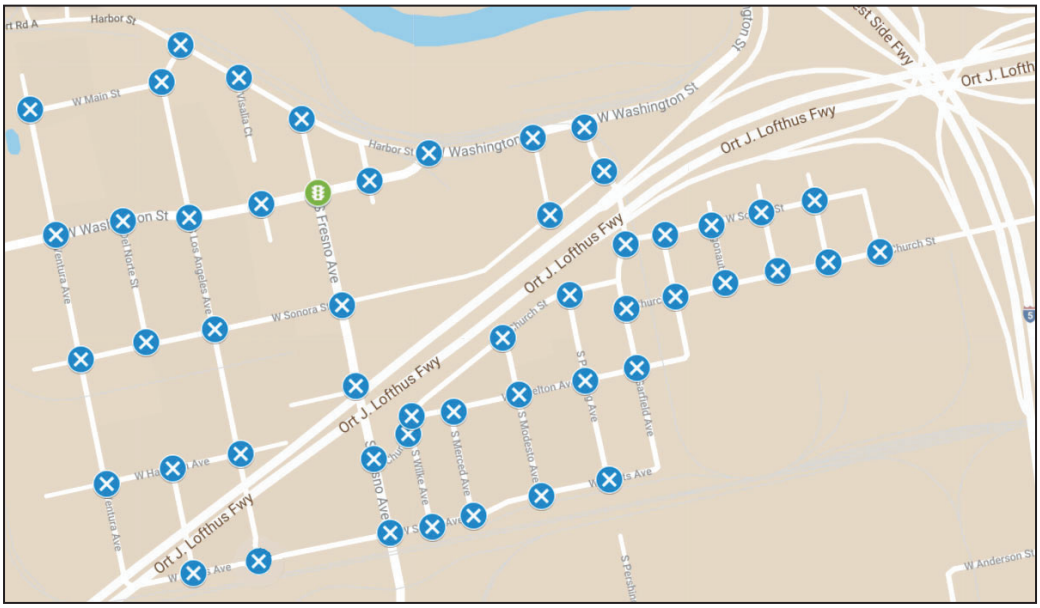
Figure 3. Existing Crosswalks



Intersections

There are 51 intersections within the Boggs Tract Community, and all but 1 of them are unsignalized. Unsignalized intersections are represented by blue X's in **Figure 4** below. The only signalized intersection, represented by the green traffic signal, is at South Fresno Avenue and West Washington Street. Pedestrian signal heads and crosswalks are available at all approaches at this intersection.

Figure 4. Existing Intersections



Pavement Conditions

Pavement conditions are shown in **Figure 5** below. The yellow lines represent fair pavement conditions while the orange lines represent poor pavement conditions. Poor pavement conditions occur mostly on West Washington Street, Harbor Street, West Main Street, and Ventura Avenue.

Figure 5. Existing Pavement Conditions

2.3 Utilities

Lighting

Lighting is provided by overhead streetlights on some roadways with the community. **Figure 6** below shows the gaps in purple where street lighting does not exist.

Figure 6. Existing Street Lighting Gaps

Drainage

The drainage facilities are shown in blue in **Figure 7** below. They are located mostly along roadways where curbs currently exist. Small culverts under some private driveways are not included in the figure.

Figure 7. Existing Drainage Facilities

3. Traffic Data

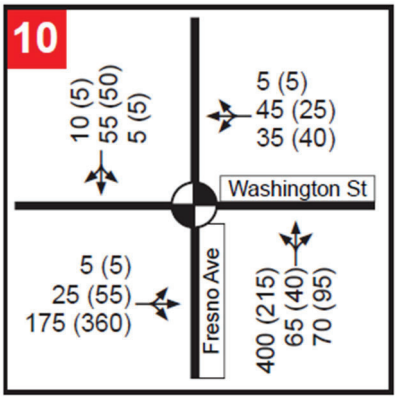
It is unknown when traffic volumes and patterns will return to pre-pandemic conditions or stabilize into a yet unknown “new normal.” Although sectors of the economy are reopening, the pandemic continues to influence daily activities, and there is no clear indication if coronavirus cases will spike and the shelter-in-place restrictions will resume. With so much uncertainty surrounding the pandemic and traffic patterns and the need to advance the project, the baseline conditions used in the analysis reflect the pre-pandemic conditions using both available data and data provided by “Big Data” vendors.

3.1 Traffic Volume

The project team reviewed the previous studies in the vicinity of Boggs Tract Community and found very few data related to the road segments or intersections within the community area. The 2008 data from the SR-4 West Project Approval & Environmental Document phase (PA&ED) covers the following road and intersection within Boggs Tract Community:

- Washington St/Fresno Ave intersection. The turning movement counts (TMC) at the intersection are shown in **Figure 8**. The first numbers represent AM peak hour counts while the numbers in the parentheses represent PM peak hour counts. The level of service analysis indicated that the LOS was B at the intersection during both AM and PM peak hours. It should be noted that this is the only signalized intersection within the community area. Although the counts in **Figure 8** are outdated, the traffic at this intersection is not expected to grow substantial enough to cause severe congestion given that the ramps from SR-4 to Fresno Avenue have been removed.

Figure 8. TMC at Washington Street and Fresno Avenue (2008)



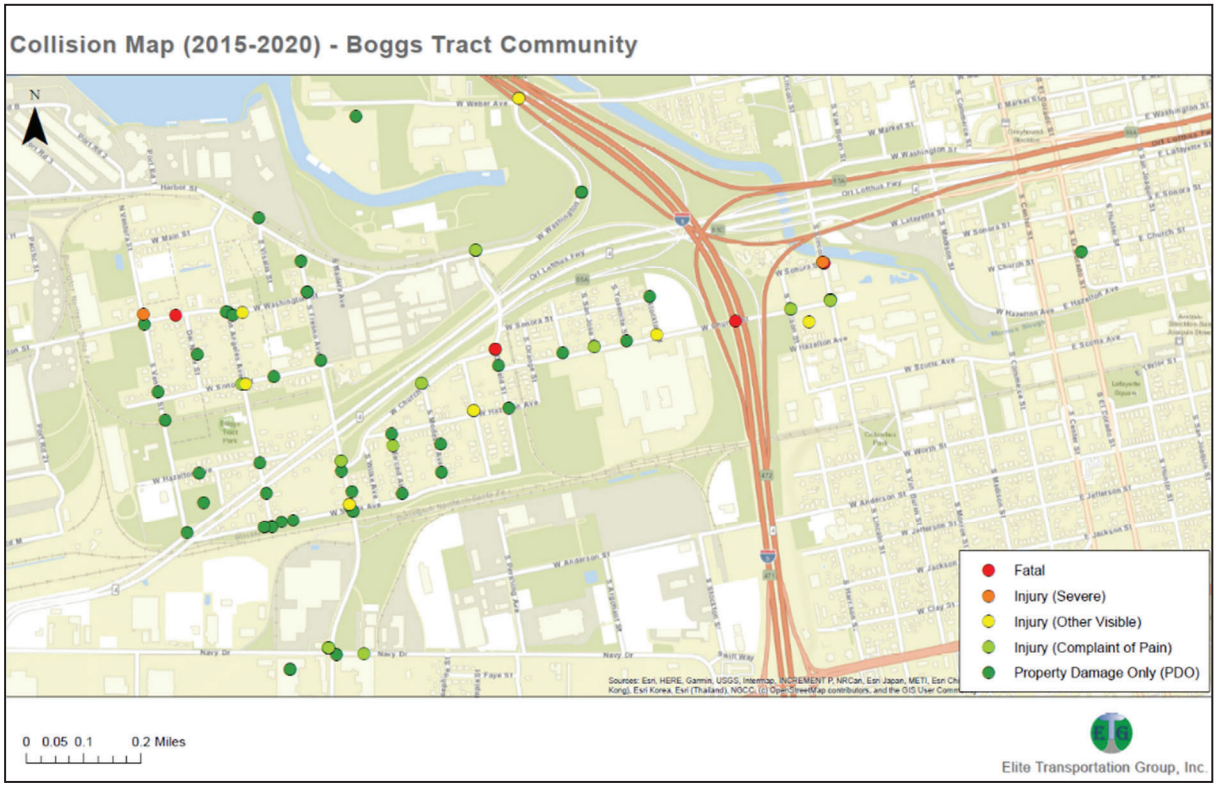
- Fresno Avenue between Washington Street and SR-4. The average daily traffic was 11,210 vehicles/day as measured in 2008. The traffic on this roadway segment is not expected to grow substantial enough to cause severe congestion given that the ramps from SR-4 to Fresno Avenue have been removed.

According to the feedback from the Boggs Tract Community residents through the Online Community Workshop, traffic congestion is not a prominent problem within the community. Instead, traffic safety, lack of pedestrian and bike facilities, and lack of traffic signs were mentioned at the workshop.

3.2 Traffic Safety

The project team reviewed the Statewide Integrated Traffic Records System (SWITRS) collision data from January 2015 to June 2020 in the vicinity of Boggs Tract Community. An overview of all collisions occurring in the vicinity of community is provided in **Figure 9**. A detailed analysis is presented in the following subsections. 2020 collision data was excluded because it was not a full year of data, and it was considered “atypical” due to the impacts of the pandemic.

Figure 9. Collisions by Severity in Vicinity of Boggs Tract Community



Overall Collision Characteristics

A total of 62 collisions occurred within the Boggs Tract Community area in the five (5) years between 2015 and 2019. As shown in **Figure 10**, the community averaged almost 13 total collisions per annum over that span. One (1) pedestrian-related collision (fatal) and one (1) bicycle-related collision (injury) occurred in the same span. The locations of these collisions are shown in **Figure 11**.

Figure 10. Collisions within Boggs Tract Community by Year

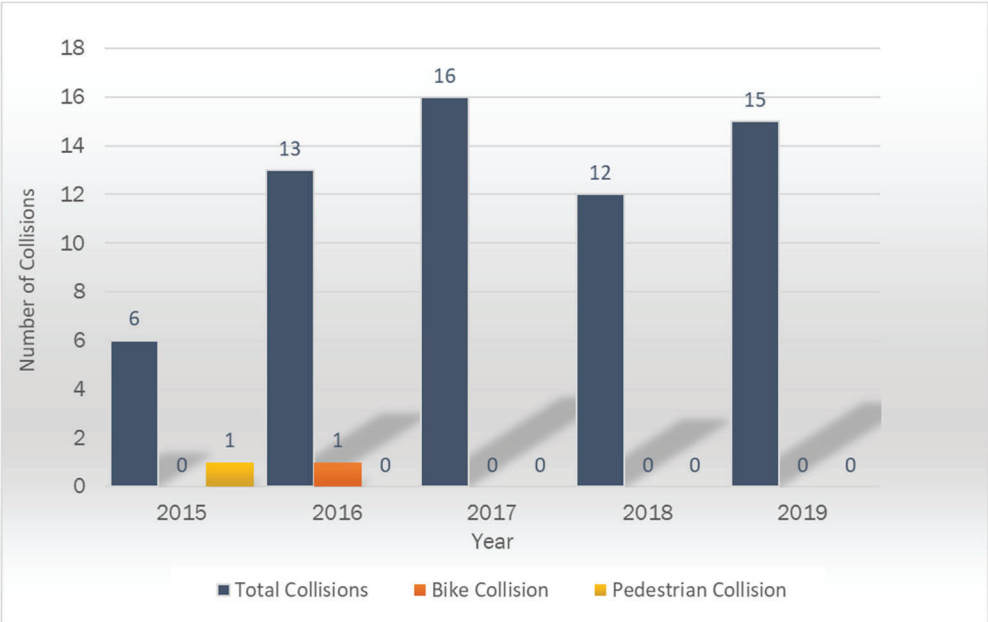
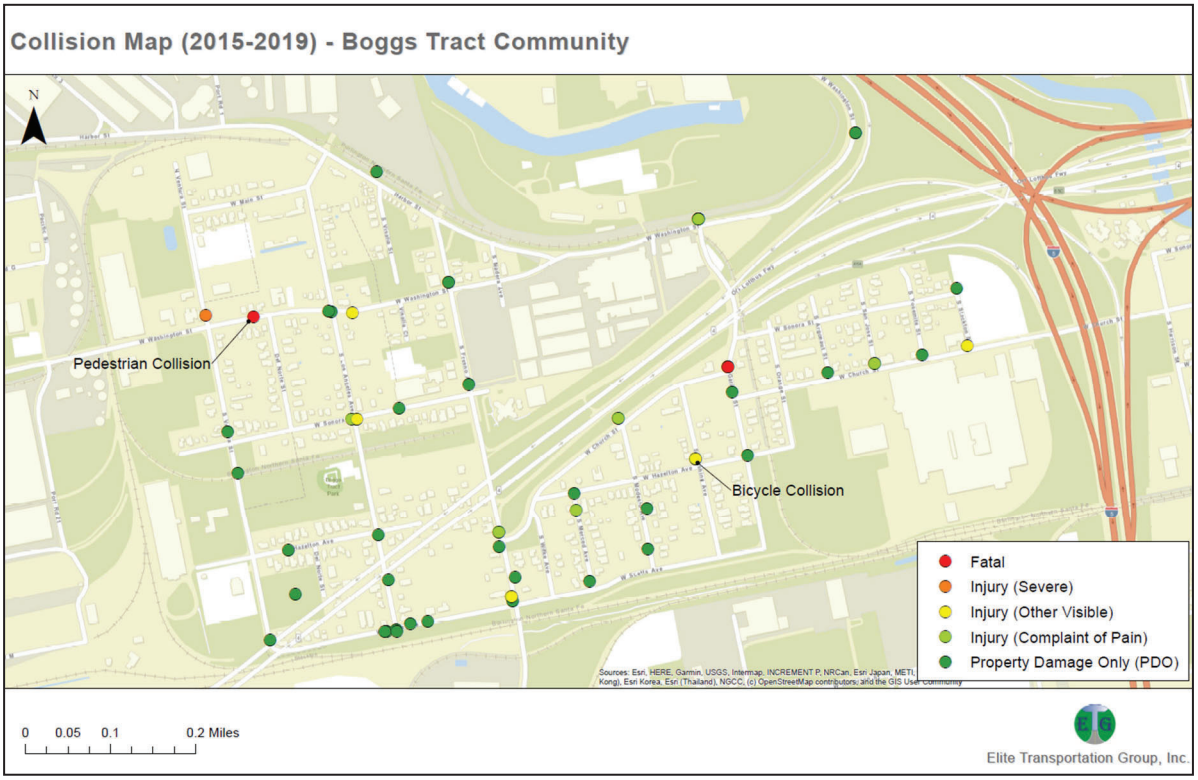
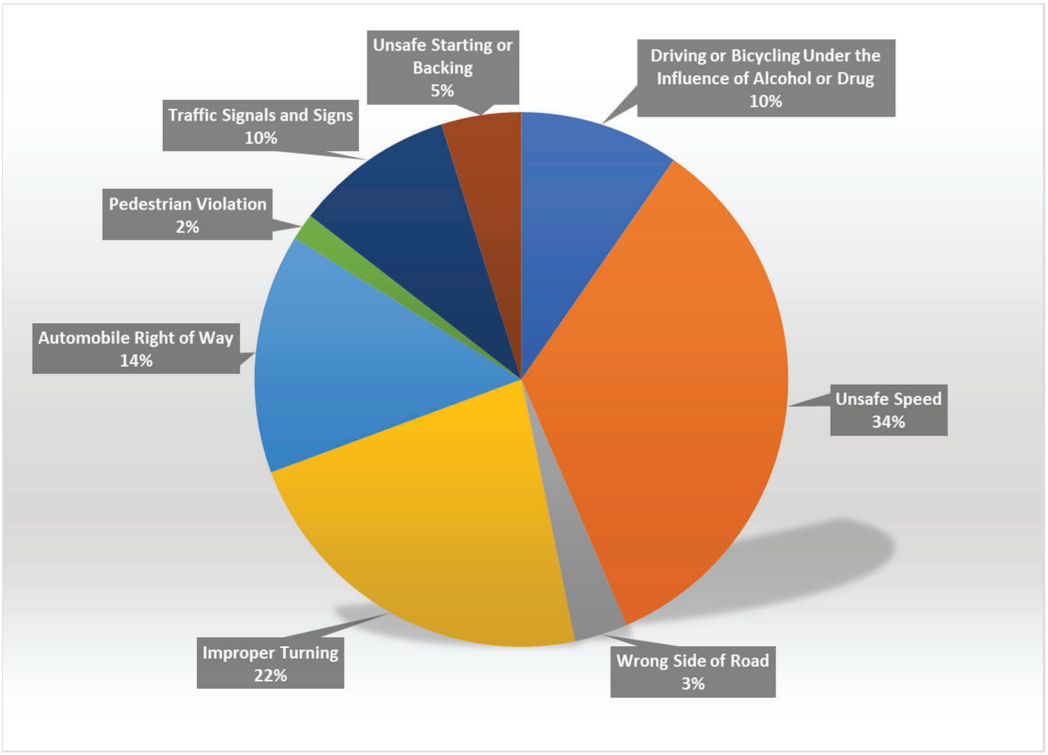


Figure 11. Collisions within Boggs Tract Community (2015-2019)



The project team also investigated the violation category of each collision to learn the major causes of collisions within the community. As shown in **Figure 12**, the top three violations that resulted in collisions were Unsafe Speed (34%), Improper Turning (22%), and Automobile Right of Way (14%).

Figure 12. Violation Categories of Collisions within Boggs Tract Community



Higher-Risk Locations

Higher-Risk Intersections

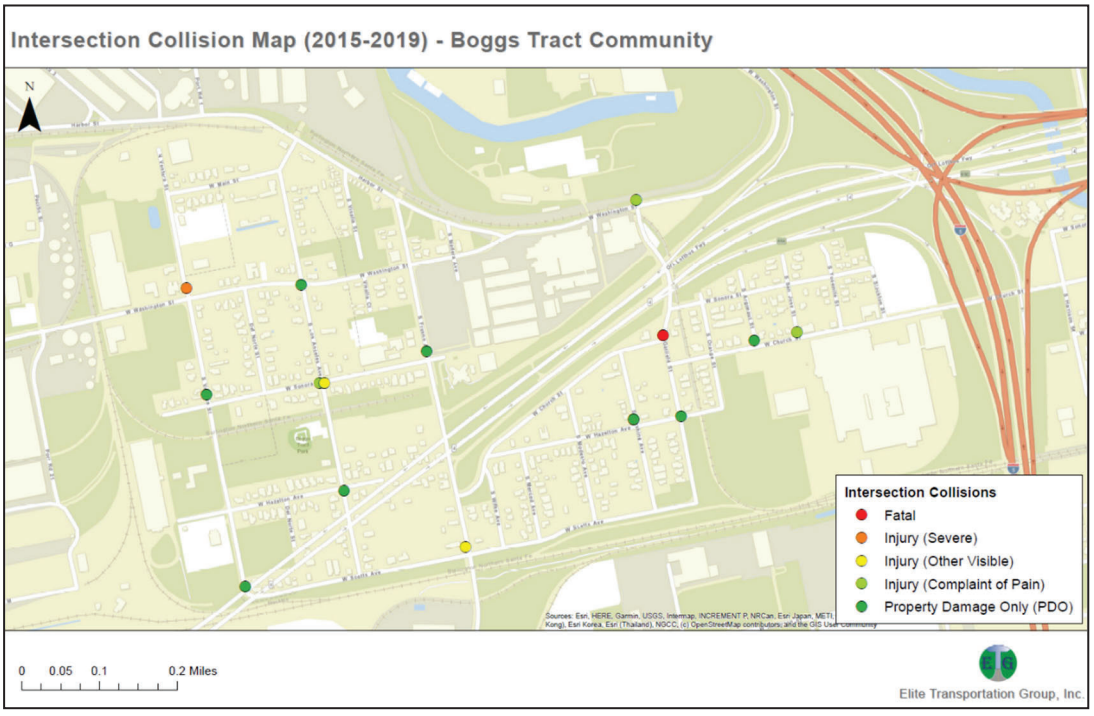
Table 3 summarizes intersection collision data (2015-2019) and **Figure 13** shows the locations of the intersection collisions. Based on the total collisions and number of pedestrian or bicycle collisions, the following three (3) intersections are identified in red as higher-risk intersections within the community:

1. Los Angeles Avenue and Sonora Street
2. Church Street and Garfield Street
3. Hazelton Avenue and Pershing Avenue

Table 1. Intersection Collisions within Boggs Tract Community (2015-2019)

Intersection Name	Total Collisions	Fatal Collisions	Injury Collisions	Pedestrian Collisions	Bicycle Collisions	Truck Collisions
Church St & Argonaut St	1					
Church St & Garfield St	2	1				
Church St & San Jose St	1					
Fresno Ave & Scotts Ave	1					
Fresno Ave & Sonora St	1					
Hazelton Ave & Garfield St	1					
Hazelton Ave & Pershing Ave	2		1		1	
Los Angeles Ave & Hazelton Ave	1					
Los Angeles Ave & Sonora St	3		2			
Los Angeles Ave & Washington St	1					
Ventura Ave & Scotts Ave	1					
Ventura Ave & Sonora St	1					1
Washington St & Garfield St	1					
Washington St & Ventura Ave	1					

Figure 13. Intersection Collisions within Boggs Tract Community



Higher-Risk Roadways

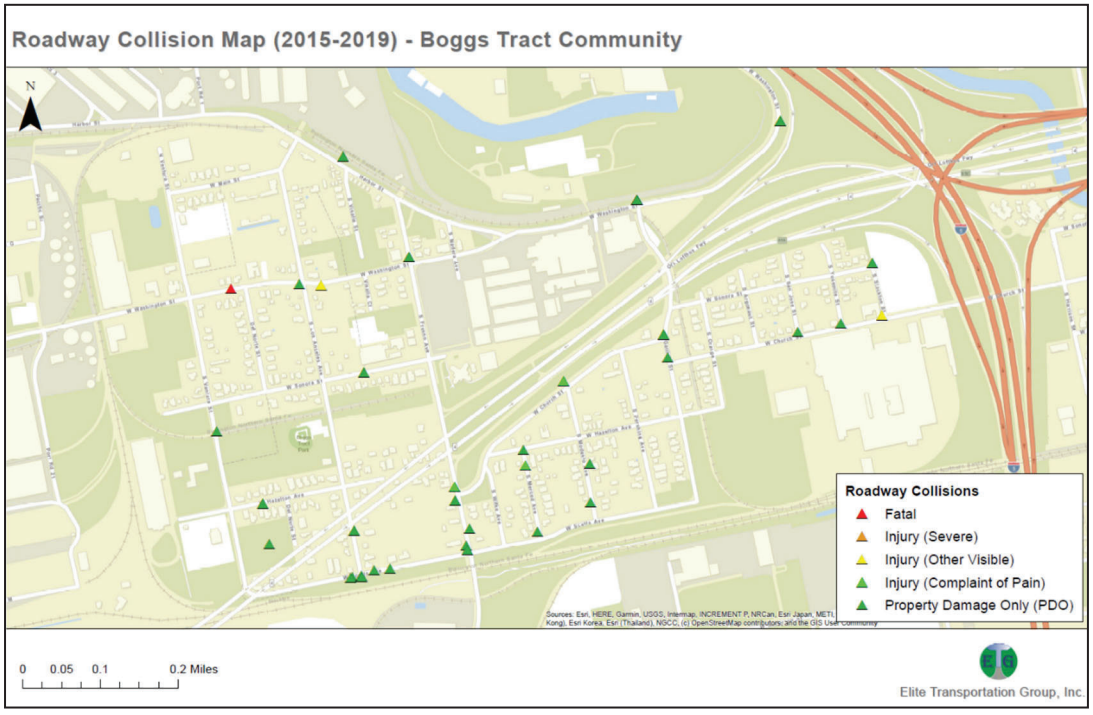
Table 2 summarizes roadway collision data (2015-2019) within the Boggs Tract Community area and **Figure 14** shows the collision locations. Based on the total number collisions and number of pedestrian or bicycle collisions, the following four (4) roadways are identified in red as higher-risk roadway segments within the study area:

1. Washington Street
2. Fresno Avenue
3. Scotts Avenue
4. Church Street

Table 2. Roadway Collisions within Boggs Tract Community (2015-2019)

Road Name	Total Collisions	Fatal Collisions	Injury Collisions	Pedestrian Collisions	Bicycle Collisions	Truck Collisions
Church St	5		2			1
Del Norte St	0					
Fresno Ave	9		1			3
Garfield St	3					
Hazelton Ave	1					
Los Angeles Ave	3					
Merced Ave	2		1			
Modesto Ave	2					
Scotts Ave	5					
Sonora St	2					
Ventura Ave	1					1
Visalia Ct	1					
Washington St	10	1		1		1

Figure 14. Roadway Collisions within Boggs Tract Community



4. Public Outreach Summary

The SCP Community Outreach program was created to provide the Boggs Tract community members with a “place at the table” during the plan development, and to align the Plan with the needs and aspirations of the residents of the Boggs Tract neighborhood. The Boggs Tract Community is identified as a disadvantaged community by the CalEnvironScreen 3.0 in which a majority of the residents have an annual median household income that is less than 80% of the statewide annual median household income. In addition, a significant portion of the residents’ primary language is Spanish.

The project team initiated the project’s community engagement plan at the beginning of the COVID-19 pandemic which required communities to sheltered at home and the project team to pivot from in-person meetings to exclusively virtual engagement. The project team was faced with several major hurdles to engagement: building trust, establishing communication links, and reducing the digital and language barriers.

The project team initiated the community engagement by identifying all possible community partners. These partners included educational institutions, human services agencies, community-based organizations, advocacy groups, employers, faith-based organizations as well as neighborhood advocates. More than 75 organizations were contacted and interviewed to determine if they had previous or current experience in the neighborhood and/or whether their organization’s mission aligned with the Plan’s goals. Through these efforts more than 40 organizations and community members participated in the first stakeholder representative group (SRG) meeting. The initial SRG meeting was held via Zoom with the discussion centered on collaborating on the Plan’s vision and goals, identifying challenges and opportunities for improving mobility around the neighborhood and opportunities to re-envision the public space under SR-4.

The project team then held a community-wide workshop via Zoom to vet the findings from the SRG workshop. The project team sent direct mailers to all residents, leveraged existing communication links of the project partners to build awareness about the project and the workshop. More than 30 bi-lingual lawn signs were placed around the neighborhood promoting the workshop with a link and QR code to sign up for the workshop. Approximately 40 participants joined the workshop.

The project team also hosted an electronic and hard copy survey to residents. Hard copies were offered via the community center with a convenient drop off box at the center for completed surveys. Two community members also distributed a series of hard copy surveys and the notification flyer to neighbors. The project participated in a virtual school meeting with the neighborhood George Washington Elementary School. The meeting provided an opportunity to present both in English and Spanish to parents and students a project overview and to inquire about the challenges of getting around their neighborhood by walking and/or biking and opportunities to improve pathways of travel. The project team also hosted a pop-up workshop during a food distribution event which allowed community members to provide answers via a guided, bilingual dot exercise on presentation boards.

The final open house was held as part of a community event in August 2021 at the Boggs Tract Community Center. The project team placed bilingual lawn signs, distributed notification flyers, and sent several emails using the project listserv and the established communication links of the project partners. The event was co-hosted with Supervisor Miguel Villapudua. Participants were encouraged to provide input on proposed multi-modal improvements around their neighborhood and proposed design concepts for the community space under SR-4 via project display boards. Public comments were taken into consideration in developing the proposed improvements in this plan. See Attachment A for a detailed summary of the open house.

5. Proposed Improvements

This section summarizes the transportation improvements and park facilities proposed within the SCP for the Boggs Tract Community. In all cases, the pedestrian facilities could either be a buffer separated path or a sidewalk. The path option would include a 4-foot wide paved pedestrian path and 2 to 4-foot wide unpaved buffer within which utilities and luminaires would be located. A dike with drainage openings would separate the buffer from the travel way. The community has expressed a preference for the path option as it in more in tune with the current rural feel of the neighborhood. In some cases, however, it may be prudent to use sidewalk. The final determination will be made in a future phase of the project in conjunction with community input. For purposes of estimating costs, one or the other is assumed in the section below. Attachment B shows preliminary exhibits of the proposed improvements.

Ventura Avenue

The project proposes to add a buffered path to the east side of Ventura Avenue between the at-grade rail crossing and Hazelton Avenue in front of the Community Farm. Centerline and shared roadway pavement markings will be added. This work is located with the City of Stockton.

South Los Angeles Avenue

Improvements proposed on South Los Angeles Avenue include a buffered path on the east side from Washington Street to the Boggs Tract Community Center and on both sides further south to Scotts Avenue. Centerline and shared roadway pavement markings will be added from Washington Street to Scotts Avenue. A lighted mid-block pedestrian crossing, with flashing beacon, is proposed north of Hazelton Avenue aligning with the Community Center. Another mid-block pedestrian crossing, with flashing beacon, is proposed under SR-4 aligning with the central entrances to the proposed SR-4 Community Space.

South Fresno Avenue

South Fresno Avenue from Washington Street to Church Street already has sidewalks. The roadway will be restriped to include buffered bike lanes from Washington Street to Sonora Street, in front of the Washington Elementary School, and non-buffered bike lanes between Sonora and Church Streets. South of Church Street, shared roadway markings are proposed. Sidewalk will be extended on the west side of the road south to Scotts Avenue to close the existing gap within the community. That segment of Fresno Avenue was determined to be Higher-Risk through analysis of recent collision data. See Section 3.2 for more collision information. A lighted mid-block pedestrian crossing, with flashing beacon, is proposed north of Church Street aligning with an entrance to the SR-4 Community Space. Two additional streetlights are proposed along the east side at the Church Street intersection. The proposed improvements north of Church Street are with the City of Stockton.

West Washington Street

West Washington Street currently has intermittent sidewalks from the City limits to the intersection with Harbor Street. Therefore, sidewalks are proposed to fill in the gaps and extend the sidewalks west to Del Norte Avenue. Bike lanes are also proposed in this section. The segment between Del Norte Avenue and the City limit was determined to be Higher-Risk through analysis of recent collision data. East of Del Norte Avenue, the project proposes buffered paths on both sides of the road along with shared roadway pavement markings. Three additional streetlights are proposed along the north side of the road between Los Angeles Avenue and Fresno Avenue. The proposed improvements west of Ventura Avenue are with the City of Stockton.

West Sonora Street

West Sonora Street currently has sidewalk along the south side for four houses east of Fresno Avenue. In addition, a sidewalk is planned for the elementary school frontage on the north side. The project proposes to continue the sidewalks on both sides to Los Angeles Avenue. Shared roadway pavement markings are also proposed. The proposed improvements east of Washington Elementary School are with the City of Stockton.

West Hazelton Avenue (West Segment)

West Hazelton Avenue has two separated segments within the project limits separated by SR-4. Improvements proposed on West Hazelton Avenue between Ventura Avenue and SR-4 (western segment) include buffered paths on both sides, centerline and shared roadway pavement markings. A traffic circle is proposed to be added at the intersection with Los Angeles Street.

West Hazelton Avenue (East Segment)

The eastern segment of West Hazelton Avenue begins at Church Street, crosses into the City of Stockton at Pershing Avenue, and ends at Orange Street. The portion within the City has sidewalks. The project proposes to extend the sidewalk along the north side of the road between Church Street and Pershing Avenue. The intersection of Church Street and West Hazelton Avenue will be modified to be more perpendicular and better define the allowed movements. A raised island is included in these proposed modifications.

Church Street

Church Street currently has curb and gutter throughout and a short segment of sidewalk near Fresno Avenue. The project proposes to extend the sidewalk on the north side of the road to just past Hazelton Avenue. At this location, a lighted pedestrian crossing, with flashing beacon, is proposed to connect to the proposed sidewalk on Hazelton Avenue. In addition, an asphalt path is proposed from this crossing directly to the proposed mid-block crossing on Fresno Avenue aligning with an entrance to the SR-4 Community Space. The proposed improvements between Fresno Avenue and Hazelton Avenue, including the intersection, are with the City of Stockton.

West Scotts Avenue

Improvements proposed on West Scotts Avenue include a buffered path on the north side from Ventura Avenue to Fresno Avenue. The middle portion of this segment was determined to be Higher-Risk through analysis of recent collision data. Centerline and shared roadway pavement markings will also be added.

State Route 4 Community Space

The proposed community space under SR-4 will stretch approximately two thirds of a mile from Ventura Avenue to Fresno Avenue. It includes a meandering multi-use path from one end to the other and several smaller side paths. The various areas are designated for community grazing, green space, formal gardens, paved and unpaved play spaces, an amphitheater, dog park, and bioretention basin. The entire space will be enclosed by wrought iron fencing with access gates at four locations. Two restroom structures and nine workout stations are also proposed. The SR-4 Community Space could be separated into to two phases to allow for funding constraints. Phase 1 represents the improvements between Los Angeles Avenue and Fresno Avenue. Phase 2 represents the improvements between Ventura Avenue and Los Angeles Avenue.

5.1 Preliminary Construction Cost Estimates

Preliminary construction cost estimates have been prepared for the improvements above based on recent contract cost data and project experience. The estimates assume that each project element is constructed separately. However, any or all of these project elements could be combined or arranged as the County desires depending on funding availability or other needs. As noted above, some elements or portions of elements are located within the City of Stockton. Coordination with the City will be required for funding, design, and construction of those improvements. Combining project elements may reduce overall cost due to economies of scale and/or increase funding opportunities due to the increased overall benefit of the combined project. Table 3 includes the construction costs for each proposed road segment and the community space. Project development costs are not included. More detailed cost estimates are included in Attachment C.

Table 3. Preliminary Construction Cost Estimate Summary

Project Element	Construction Cost (2021 $)
Ventura Avenue and West Hazelton Avenue (West Segment)	$314,000
South Los Angeles Avenue	$426,000
South Fresno Avenue	$344,000
West Washington Street	$596,000
West Sonora Street	$230,000
Church Street and West Hazelton Avenue (East Segment)	$326,000
West Scotts Avenue	$189,000
SR-4 Community Space (Phases 1 and 2)	$4,795,000

6. Funding Opportunities

The funding sources reviewed in this chapter could be accessed to provide formulaic and/or discretionary funding for the needed capital improvements. The identified funding programs target specific typologies of infrastructure or seek specific desired outcomes. As the Project contains several different elements, no single funding source would have the capacity to fund every element of the Project. Funding for transportation and other major infrastructure projects is increasingly challenging to obtain due to limited availability of funds as well as the greater demand and competition for the funding that is available. Moreover, the funding environment is highly volatile, and changes in administration priorities and the economy can affect the type and availability of funding vehicles offered. Additionally, many agencies will only evaluate “shovel ready” projects for funding consideration, though the definition of this term is program specific and varies significantly. Together these factors suggest proceeding with project design and environmental compliance completion as the project’s capital funding strategy is developed, refined and implemented.

Table 4 identifies potential project funding sources at the federal, state and local levels. Bolded programs represent possible priority funding opportunities for bolded project elements. Note that information provided on some programs may change as new guidance on program specification becomes available under the new Infrastructure Investment and Jobs Act.[1]

[1] Congress.gov, H.R. 3684 – Infrastructure Investment and Jobs Act, https://www.congress.gov/bill/117th-congress/house-bill/3684

Table 4. Potential Funding Sources

Funding / Grant Program	Funding Agency	Description / Eligibility / Sources (Links)	Project Element							
			South Fresno Avenue	West Sonora Street	West Washington Street	South Los Angeles Avenue	Church Street and West Hazelton Avenue (East)	Ventura Avenue and West Hazelton Avenue (West)	West Scotts Avenue	SR-4 Community Space
FEDERAL										
Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grant (previously known as BUILD and TIGER)	US Department of Transportation (USDOT)	Eligible Applicants for RAISE grants are State, local and tribal governments, including U.S. territories, transit agencies, port authorities, metropolitan planning organizations (MPOs), and other political subdivisions of State or local governments. Multiple States or jurisdictions may submit a joint application and must identify a lead applicant as the primary point of contact, and identify the primary recipient of the award. Joint applications must include a description of the roles and responsibilities of each applicant. Under the FY 2021 RAISE program, the minimum grant award size is $5 million for urban areas; therefore, Project components may be eligible when combined with other local eligible projects. The NOFO should be monitored in case the minimum award size changes. Relevant eligible projects for RAISE grants are Capital projects that include, but are not limited to: - Road or bridge projects eligible under title 23, United States Code; - Public transportation projects eligible under chapter 53 of title 49, United States Code https://www.transportation.gov/RAISEgrants/about **Current Grant Round – Appications Due April 12th, 2022**	✓	✓	✓	✓	✓	✓	✓	
Community Development Block Grant (CDBG) - Entitlement Communities Grant	US Department of Housing and Urban Development (HUD)	The program provides annual grants on a formula basis to entitled cities and counties to develop viable urban communities by providing decent housing and a suitable living environment, and by expanding economic opportunities, principally for low- and moderate-income persons. CDBG funds may be used for activities which include, but are not limited to: Construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes https://www.hudexchange.info/programs/cdbg-entitlement/cdbg-entitlement-program-eligibility-requirements/ Awards are made annually.	✓	✓	✓	✓	✓	✓	✓	✓
Surface Transportation Block Grant Program (STBG)	Federal Highway Administration (FHWA)	Recreational trails projects, pedestrian and bicycle projects (including modifications to comply with accessibility requirements under the Americans with Disabilities Act of 1990, and the Safe Routes to School Program.) https://www.fhwa.dot.gov/specialfunding/stp/160307.cfm#d	✓	✓	✓	✓	✓	✓	✓	
Public Works and Economic Adjustment Assistance Programs	US Economic Development Administration (EDA)	EDA's Public Works and Economic Adjustment Assistance (EAA) programs provide economically distressed communities and regions with comprehensive and flexible resources to address a wide variety of economic needs. Projects funded by these programs will support work in Opportunity Zones and will support the mission of the Department by, among other things, leading to the creation and retention of jobs and increased private investment, advancing innovation, enhancing the manufacturing capacities of regions, providing workforce development opportunities, and growing ecosystems that attract foreign direct investment. Under the FY 2020 program, an estimated 3,000 awards were expected for a minimum $100,000 each. https://www.eda.gov/funding-opportunities/ Rolling deadlines, but EDA encourages submitting by March 31, 2022.	✓	✓	✓	✓	✓	✓	✓	
Congestion Mitigation and Air Quality (CMAQ)	USDOT	CMAQ was created in 1991 under the Intermodal Surface Transportation Efficiency Act (ISTEA) to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief. Eligible projects for CMAQ include but are not limited to: - Traffic Flow Improvements - Bicycle and Pedestrian Improvements https://www.sjcog.org/291/Congestion-Mitigation-Air-Quality-CMAQ Next call for projects TBD.	✓	✓	✓	✓	✓	✓	✓	
Land and Water Conservation Fund (LWCF) Grants - The State Side	National Park Service	LWCF grants are for the acquisition, development and planning of outdoor recreation opportunities in the United States. Seventy-five percent of the total funds obligated have gone to locally sponsored projects to provide close-to-home recreation opportunities that are readily accessible to America's youth, adults, senior citizens and the physically or mentally challenged. In addition to the thousands of								✓

		smaller recreation areas, grants have helped to acquire and develop new parks of statewide or national significance. Average award over 49 years is $410,000. https://www.nps.gov/subjects/lwcf/stateside.htm Next call for projects TBD.								
Highway Safety Improvement Program (HSIP)	FHWA	Eligible projects include: - An intersection safety improvement; - Pavement and shoulder widening (including addition of a passing lane to remedy an unsafe condition);An improvement for pedestrian or bicyclist safety or for the safety of persons with disabilities; - Improvement of highway signage and pavement markings; - Installation and maintenance of signs (including fluorescent yellow-green signs) at pedestrian-bicycle crossings and in school zones https://safety.fhwa.dot.gov/hsip/resources/fhwasa09029/fhwasa09029.pdf Next call for projects TBD. Cal HSIP projects were announced in March 2021.	✓	✓	✓	✓	✓	✓	✓	
STATE										
Environmental Justice (EJ) Small Grants Program	California Environmental Protection Agency (CalEPA)	Funding to assist eligible non-profit community organizations and federally-recognized Tribal governments address environmental justice issues in areas disproportionately affected by environmental pollution and hazards. Grants are awarded on a competitive basis for projects that are based in communities with the most significant exposure to pollution. Grants are awarded for the following statutory purposes as defined in Public Resources Code Section 71116: - Distribution of information to help resolve environmental problems; - Identification of improvements in communication and coordination between stakeholders and CalEPA, and its Boards, Departments, and Office (BDOs), in order to address the most significant exposure(s) to pollution; - Improvement of community or tribal government understanding about environmental issues that affect its community or tribal government; - Promotion of community or tribal government involvement in the decision-making process that affects the environment of the community/tribal government; and - Enhancement of community/tribal government understanding of environmental information systems and environmental information. Maximum grant size for FY 2021 cycle was $50,000. https://calepa.ca.gov/envjustice/funding/ Call for Projects was March 2021 and applications were due August 2021. Next cycle TBD.	✓	✓	✓	✓	✓	✓	✓	✓
Clean California Local Grant Program	Caltrans	Clean California Local Grant Program as part of a two-year program through which approximately $296 million in funds will go to local communities to beautify and improve local streets and roads, tribal lands, parks, pathways, and transit centers to clean and enhance public spaces. Through the combination of adding beautification measures and art in public spaces along with the removal of litter and debris, this effort will enhance communities and improve spaces for walking and recreation. Local match is up to 50% and maximum grant is $5 million. https://cleancalifornia.dot.ca.gov/local-grants Current Grant Round – Applications Due February 1st, 2022.	✓	✓	✓	✓	✓	✓	✓	✓
Active Transportation Program (ATP)	Caltrans	The purpose of ATP is to encourage increased use of active modes of transportation by achieving the following goals: - Increase the proportion of trips accomplished by biking and walking - Increase safety and mobility for non-motorized users - Advance the active transportation efforts of regional agencies to achieve Greenhouse Gas (GHG) reduction goals, pursuant to SB 375 (of 2008) and SB 341 (of 2009) - Enhance public health - Ensure that disadvantaged communities fully share in the benefits of the program - Provide a broad spectrum of projects to benefit many types of active transportation users. ATP projects vary from $200,000 to $30 million. https://catc.ca.gov/programs/active-transportation-program https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/active-transportation-program	✓	✓	✓	✓	✓	✓	✓	

		Virtual site visits for Cycle 6 (2023 ATP) to be held November 2021 through February 2022 and can be scheduled via: https://docs.google.com/forms/d/e/1FAIpQLSeauLojjIB2cNM-Q0U6R7l6tui2lfURcTTNqxRhZ-_g1JapQ/viewform								
Safe Routes to Schools	Caltrans	In California, Safe Routes to School (SRTS) grants are awarded through the ATP, and school-based projects and programs are highly competitive for ATP funding based on the program criteria. http://www.casaferoutestoschool.org/	✓	✓	✓	✓	✓	✓	✓	
Environmental Enhancement and Mitigation Grant Program	California Natural Resources Agency	The Program provides grant opportunities for projects that indirectly mitigate environmental impacts of new transportation facilities. Projects should fall into one of the following three categories: urban forestry, resource lands, or mitigation projects beyond the scope of the lead agency. Funds are available for land acquisition and construction. Grants are generally limited to $500,000 and matching funds are not required. https://resources.ca.gov/grants/environmental-enhancement-and-mitigation-eem/ The solicitation for the 2022 EEM Program is anticipated in April 2022. Sign up for the listserv here: https://listservice.cnra.ca.gov/scripts/wa.exe?SUBED1=CNRA_BONDS_GRANTS&A=1	✓	✓	✓	✓	✓	✓	✓	
Outdoor Equity Grants Program (OEP)	California Department of Parks and Recreation	The Outdoor Equity Grants Program (OEP) will increase the ability of residents in low income urban and rural communities to participate in outdoor experiences at state parks and other public lands. OEP grants will improve the health and wellness of Californians by connecting underserved communities to natural areas throughout California. In FY 2021, grant awards range from $20,000 to $700,000 per application, and no match is required. https://www.parks.ca.gov/?page_id=30443 Applications were due October 8, 2021; next call for projects TBD.	✓	✓	✓	✓	✓	✓	✓	
General Grants and Grants Made Easy (GME)	California Office of Traffic Safety (OTS)	Eligible project types address: fatalities and injuries; alcohol; motorcyclists; pedestrians; bicyclists; speed related, hit and run, and nighttime crashes; and composite. https://www.ots.ca.gov/grants/ FY 2023 applications due January 31, 2022.	✓	✓	✓	✓	✓	✓	✓	
Land & Water Conservation Fund (LWCF)	California Department of Parks and Recreation	LWCF grants provide funding for the acquisition or development of land to create new outdoor recreation opportunities for the health and wellness of Californians. Since 1965, over one thousand parks throughout California have been created or improved with LWCF assistance. Grants may award up to 50% of total project cost up to $6 million per application. https://www.parks.ca.gov/?page_id=21360 Applications due February 1, 2022.								✓
Affordable Housing and Sustainable Communities (AHSC)	California Department of Housing and Community Development (HCD)	AHSC provides funding for affordable housing developments (new construction or renovation) and transportation infrastructure. This may include sustainable transportation infrastructure, such as new transit vehicles, sidewalks, and bike lanes; transportation-related amenities, such as bus shelters, benches, or shade trees; and other programs that encourage residents to walk, bike, and use public transit. Awards under Round 6 are $1 million to $30 million. https://sgc.ca.gov/programs/ahsc/docs/20180731-Update-Fact%20Sheet-AHSC.pdf Last NOFA released February 26, 2021. Next NOFA TBD.	✓	✓	✓	✓	✓	✓	✓	
LOCAL										
Measure K Sales Tax	San Joaquin Council of Governments (SJCOG)	Measure K is San Joaquin County's half-cent sales tax for transportation projects including freeways, streets and roads, and the transit system. Measure K was renewed in 2006 for a 30-year period https://www.sjcog.org/300/Measure-K	✓	✓	✓	✓	✓	✓	✓	
Traffic Impact Mitigation Fee (TIMF) Alt Mode Component	San Joaquin County	TIMF is collected to finance transportation facilities needed to accommodate new or expanded development within the unincorporated areas of San Joaquin County. There is no link to a website about TIMF. The TIMF 2019 Program 2019 Annual Report is posted here: https://docplayer.net/198140491-San-joaquin-county-traffic-impact-mitigation-fee-program-annual-report.html	✓	✓	✓	✓	✓	✓	✓	
Community-Built Playspace Grants (Playgrounds, Adventure Courses, Multi-Sport Courts)	KaBOOM!	Opportunities for Community-Built Play space grants are specific to certain cities or metropolitan areas within the United States (San Francisco Bay Area is included) Eligibility requirements (may vary): - 2000+ SF of space to build - Provide services to kids from communities facing disinvestment - Own the land or obtain letter of permission - Demonstrate need for a playground								✓

		- Complete site preparation - Fundraise portion of equipment cost: https://kaboom.org/grants/community-built Sports Courts Grant: https://kaboom.org/wp-content/uploads/2019/07/kaboom-sports-courts-application-guide.pdf Applications accepted on a rolling basis.								
Community Development, Parks & Recreation, and Well-Being of Children, Youth & Families Grants	Gates Family Foundation	Applicants must have at least 30% of their project budget raised prior to being considered. Community Development Funding examples: - Restoration of historically significant architecture that contributes to community revitalization - Heritage tourism or development of rural main streets as a means of promoting economic health for rural areas - Public-private partnerships for economic development Parks & Recreation Funding examples: - Greenways and trail systems - Outdoor/indoor recreation facilities - Urban public spaces and community gardens Well-Being of Children, Youth & Families examples: - Community and senior centers - Family resource centers Grants awarded in 2022 ranged from $10,000 to $700,000. https://gatesfamilyfoundation.org/types-of-support/capital-grants Applications are due March 15 for decisions in mid-June, or September 15 for decisions in mid-December.	✓	✓	✓	✓	✓	✓	✓	✓
Community Mobility Ready-to-Launch Grants 2021	National Center for Mobility Management	Community Mobility Ready-to-Launch Grants program provides grants up to $75,000 to non-profits or government agencies to fund the pilot phase of an already designed solution to allow low-income community members to become more fully engaged in economic opportunities, improve their health and well-being, and/or become more integrated into their community. The Ready-to-Launch grants are supported with funding from the Federal Transit Administration(link is external) and open to any non-profit or government agency that is able to receive, or be a subrecipient of, federal funding. https://nationalcenterformobilitymanagement.org/ready-to-launch-2021/ 2021 RFP issued August 23, 2021 and applications were due by October 15, 2021. Next RFP TBD.	✓	✓	✓	✓	✓	✓	✓	✓
Community Challenge Grants	America Walks	The Community Change Grant program supports the growing network of advocates, organizations, and agencies working to advance walkability. Grants are awarded to innovative, engaging, and inclusive programs and projects that create change and opportunity for walking and movement at the community level. https://americawalks.org/programs/community-change-grants/ Applications for 2021 grants are closed; next call for projects TBD.	✓	✓	✓	✓	✓	✓	✓	
POTENTIAL SOURCES TO MONITOR (BILLS UNDER CONSIDERATION)										
Reconnecting Communities Act	To Be Determined	Capital Construction Grants would fund construction activities to remove or retrofit an infrastructural barrier in a way that enhances community connectivity, including by capping or replacing it with an at-grade roadway; improving connectivity across a barrier; replacing the facility with a new use like a public park or trail; and other projects that would address the mobility needs of the community. https://www.epw.senate.gov/public/_cache/files/9/a/9ab45318-25cb-4cb8-9b4e-7e510179bb6f/E406CCBDDE680E6224E68797407D9120.reconnecting-communities-act-one-pager.pdf		To Be Determined						
Safe Streets Act	To Be Determined	This bill revises the Highway Safety Improvement Program to create special rules for vulnerable road users. The bill defines vulnerable road user as a no motorist such as a pedestrian, pedalcylcist, bicyclist, other cyclist, or person on personal conveyance. Specifically, the bill requires states and metropolitan planning organizations (MPOs) with above the median rate of vulnerable road user fatalities and serious injuries to dedicate at least 75% of funds under the program for projects to improve safety for such users, and states and MPOs to create vulnerable road user safety assessments that include locations and corridors where serious injuries and fatalities occur and								

		strategies to reduce safety risks for such users in the corridors. https://www.congress.gov/bill/117th-congress/house-bill/508		
Complete Streets Act of 2021	To Be Determined	Grants for the design and construction of complete streets to facilitate better pedestrian, bicycle, and public transit travel for users of all ages and abilities by addressing critical gaps in pedestrian, bicycle, and public transit infrastructure. https://www.congress.gov/bill/117th-congress/house-bill/1289/text		
Build Back Better Act: Neighborhood Access and Equity Grant	USDOT	This section provides $4 billion to support neighborhood equity, safety, and affordable transportation access. It goes further by allowing these competitive grants to be used for creating safe and accessible networks to mitigate barriers that cannot be removed. It sets aside funding to support equitable transportation planning, community engagement activities, and capacity building. Set aside for projects in disadvantaged or underserved communities or in communities that have taken steps to ensure that projects do not lead to gentrification or displacement of existing residents. https://www.saferoutespartnership.org/sites/default/files/resource_files/101421_federal_policy_webinar.pdf		

7. Investment Priorities

The project elements have been prioritized in Table 5 based on qualitative interpretation of relative community safety and mobility benefits, project readiness, funding opportunities, construction cost. For instance, a project that adds pedestrian facilities in higher pedestrian and/or vehicle traffic areas, or an area that has a history of collision, is given a higher community safety rating. A higher community mobility rating is achieved by filling gaps in existing networks, providing connections to community amenities, and/or adding facilities in high pedestrian traffic areas. Project readiness denotes relatively how quickly the project could be delivered due to its size, complexity, and environmental/community constraints. A higher funding opportunity rating indicates that a project may have greater access to certain grants or programs because of the types of facilities proposed and proximity to a school or other community amenity. In general, the project elements with higher community benefits, project readiness, and lower costs were placed higher on the priority list. As a reminder, these elements have been created to present a relatively small, comparable, set of improvements that could be constructed independently. However, if the County desires, all (or a subset of these elements) could be combined for purposes of funding applications and/or construction efficiency. Such a project definition may include all of the roadway improvements together for one funding application and the SR-4 Community Space for another.

Table 5. Investment Priority List

Priority	Project Element	Relative to Each Other					Justification
		Community Safety	Community Mobility	Project Readiness	Funding Opportunity	Construction Cost	
1	South Fresno Avenue	Very High	High	High	High	Medium	Adds ped facilities in higher-risk collision area, fronts elementary school, dedicated bike facilities, simple design, funding opportunities
2	West Washington Street	Very High	Very High	Medium	High	High	Fills sidewalk gaps on higher traffic road, dedicated bike facilities, connects to Fresno Street improvements, funding opportunities
3	West Sonora Street	Medium	Medium	High	High	Low	Fronts elementary school, connects to Fresno Street improvements, funding opportunities
4	Church Street and West Hazelton Avenue (East Segment)	High	Very High	Medium	Medium	Medium	Improves Church/Hazelton intersection, provides marked ped crossings, fills sidewalk gap connecting to two established pedestrian networks, funding opportunities
5	South Los Angeles Avenue	Medium	Medium	High	Medium	Medium	Provides connections to community center and elementary school, funding opportunities
6	Ventura Avenue and West Hazelton Avenue (West Segment)	Medium	High	Medium	Medium	Medium	Connects community farm to community center, the rest of neighborhood, and future community space
7	West Scotts Avenue	Medium	Low	High	Medium	Low	Provides southern pedestrian connection between Ventura Avenue and Fresno Avenue and future community space
8	SR-4 Community Space	Low	Low	Low	Medium	Very High	Provides new pedestrian connections, longer design lead time, relatively high cost

8. Next Steps

A funding strategy is a plan how to secure adequate funding to ensure that a project, or discrete elements of that project, are constructed within the specified duration of time. Generally, this process entailed the identification and screening of potential formulaic and discretionary funding vehicles which could be accessed, the positioning of the project or project elements to align with accessible funding program objectives and desired outcomes, and the actions needed to put forward a competitive justification for that funding.

A funding strategy should be agile and opportunistic with its basic documentation being a practical, working document that can be understood by a variety of users.

In order to develop a successful funding strategy, the following steps are needed:

1. Program screening and creation of a grant application calendar.
2. Develop a detailed inventory of program/project elements.
3. Understand the needed construction costs and the net operation and maintenance costs under the project.
4. Collect statistics (including safety data, traffic counts, pedestrian data, recreation activities data, demographics data) to support a grant application and to inform modelling which will be utilized to economically justify the project elements through the quantification of user benefits (safety, environmental justice, efficiency, etc.).
5. Define funding scenarios for each project element, or for bundled project elements.
6. Develop grant applications for project elements when discretionary program are opened for submissions. Grant applications to be supported by economic, social, or environmental justification where required, and supplemented, as needed, with related reports, photos, and information on environmental approvals.
7. Build partnerships with close communities, businesses, and other public sector organizations, if possible.
8. Work with local stakeholders and representatives for support during and after grant submission. This should be documented through letters of support.

It is nearly impossible to predict the competitiveness of a hypothetical grant application for any given grant cycle due to each discretionary program being unique, dynamic, and having different assessment criteria. Competitive applications are bespoke for each grant program with project positioning essential.

In general, projects at this early stage of development are better suited for planning grants or grants to support final design and environmental work. Capital grants providing funding for construction should be sought only after projects are further along in the planning process and which meet the discretionary programs definition of “shovel-ready” should this be an eligibility requirement. Many discretionary programs, including nearly all federal programs, are designed to address funding gaps and not be the primary source of funding for a project. Accordingly, projects where the grant funding would recommend the last piece of a diversified basket of funding needed to progress to construction are typically more competitive than project without a local match.

The County should prioritize submitting projects for active Notices of Funding Opportunities for which elements are eligible and competitive. Competitiveness is partially subjective, but a project or element will fare well if there is a compelling story and need backed by defensible analytics, if the local match is above the minimum recommended or required, if there is substantial public support and political interest, and for which all other planning activities have taken place. Depending on funding availability, applying for a wide range of grants may yield more success than a single focused effort for a large award. There is also the

opportunity to repurpose elements of previously developed materials and narrative for reuse in applications for different grant programs.

The priority grant programs recommended as of the time of this memo's writing (January 2022) include:

- Clean California Local Grant Program
- Active Transportation Program (ATP)
- Safe Routes to Schools (SRTS)
- Community-Built Playspace Grants (Playgrounds, Adventure Courses, Multi-Sport Courts)
- Community Development, Parks & Recreation, and Well-Being of Children, Youth & Families Grants

9. Attachments

- Attachment A: Open House Summary Memorandum
- Attachment B: Proposed Improvements Exhibits
- Attachment C: Preliminary Construction Cost Estimates

Attachment A:
Open House Summary Memorandum

Introduction

On **Thursday, August 5** from **5:00 – 7:00 p.m.**, the San Joaquin County Public Works Department and the Boggs Tract Sustainable Community Transportation planning team hosted an Open House at the Boggs Tract Community Center. The purpose of the meeting was to present and obtain feedback on design ideas for street improvements and a new community space under State Route 4 with community members.

Boggs Tract Sustainable Community Transportation Plan Area

About the Plan

The Boggs Tract Sustainable Community Transportation Plan will identify and guide future street improvements that will promote walking, biking, and public transit, reduce greenhouse gas emissions from motor vehicles, and enhance access to job centers, healthcare, educational institutions, local destinations, and social assistance services. Many of the roads within the Boggs Tract neighborhood lack bike paths and lanes, sidewalks, crosswalks, and other infrastructure for community members to access local destinations. There are several key destinations for residents within Boggs Tract including an elementary school, community farm, religious institutions, and a park. The plan will also focus on developing a community space under State Route 4.

Open House Objectives and Format

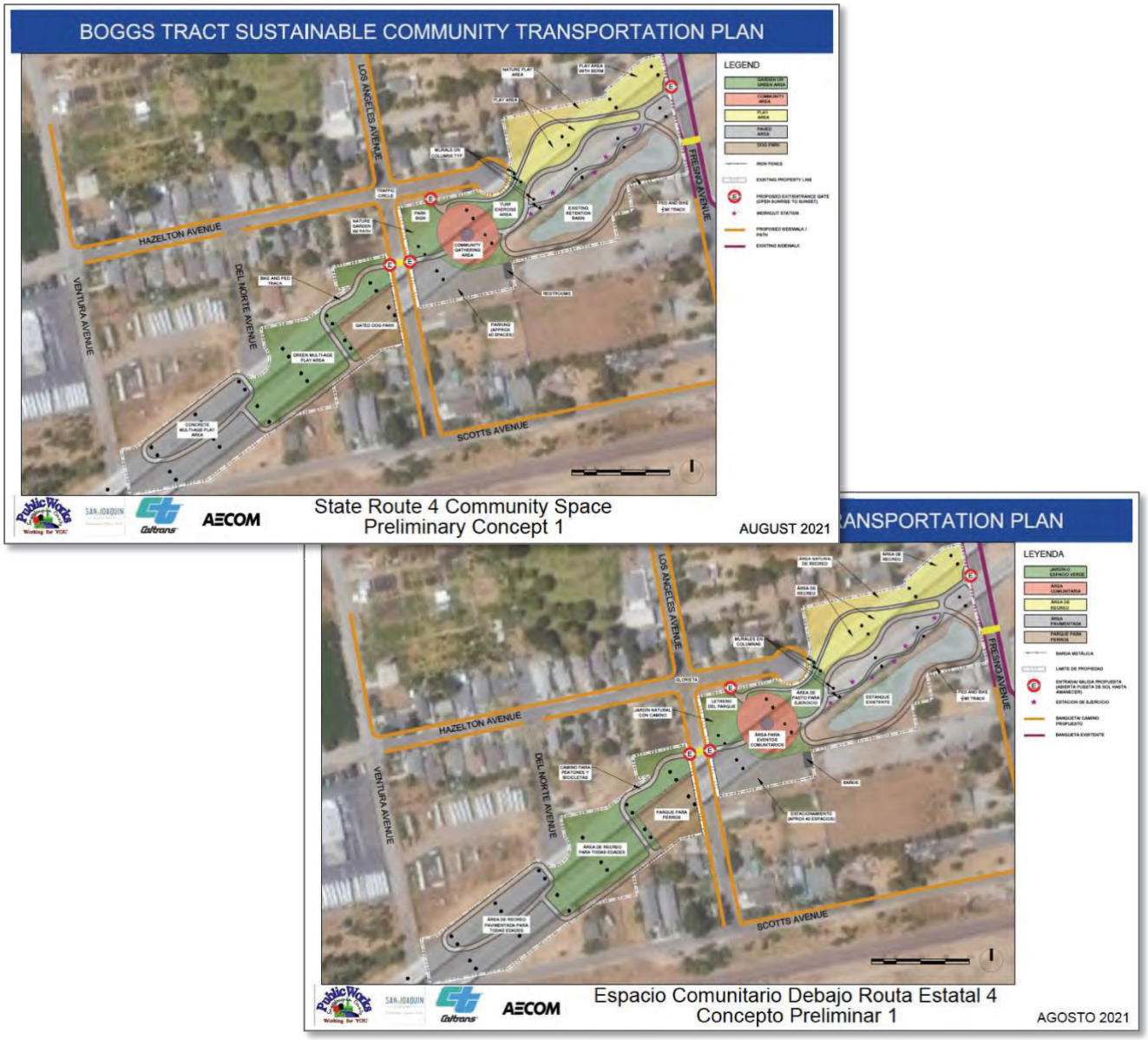
The Boggs Tract Sustainable Community Transportation Plan Open House was held in person at the Boggs Tract Community Center and was attended by **34 community members**. The objectives of the Open House were to:

- Provide an update on the Boggs Tract Sustainable Community Transportation Plan effort,
- Present draft design ideas and concepts for the street network and community space under State Route 4
- Obtain input from community members on the draft concepts
- Inform community members of the project next steps

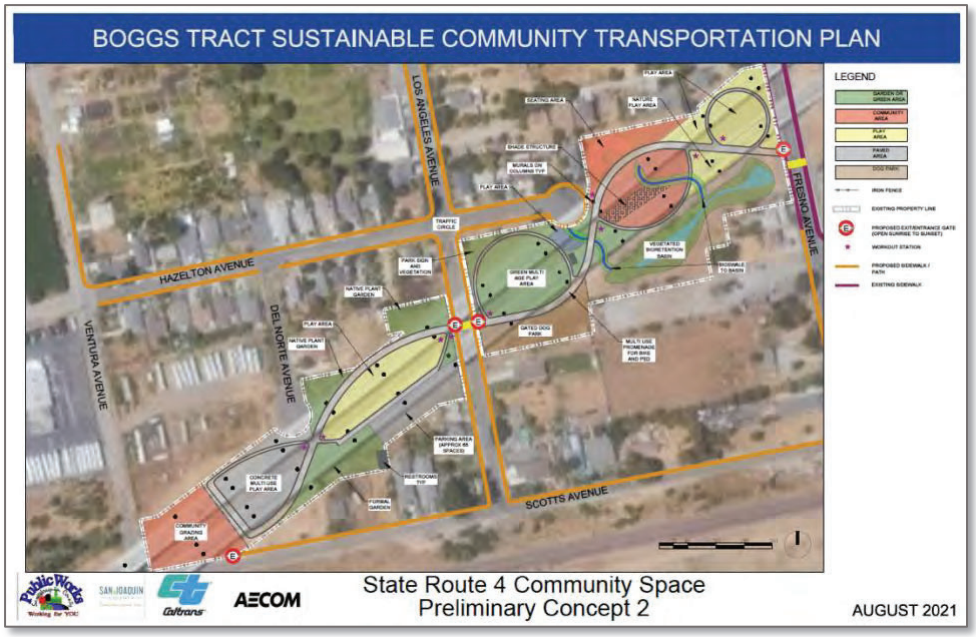
San Joaquin County Supervisor Miguel Villapudua provides welcoming remarks

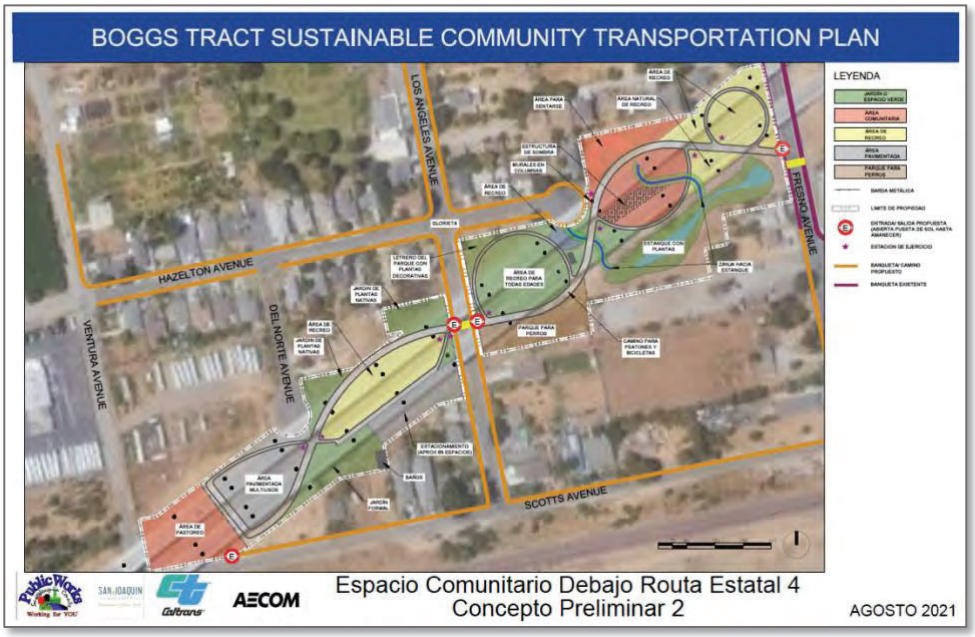
The Open House consisted of eleven (11) display boards featuring proposed street improvements for walking and biking within the community and to key destinations and ideas for activating the space under SR4. Attendees were able to share their feedback on the display boards via sticky notes, dot stickers, comment card, or writing on a flip chart. All boards were provided in both English and Spanish translations. A copy of the display boards is available in the Appendix.

- State Route 4 Community Space Preliminary Concept 1: These boards presented the first of two draft design concepts for the community space under State Route 4 freeway. This includes the layout for a garden/green space, community area, play area, paved area and a dog park.



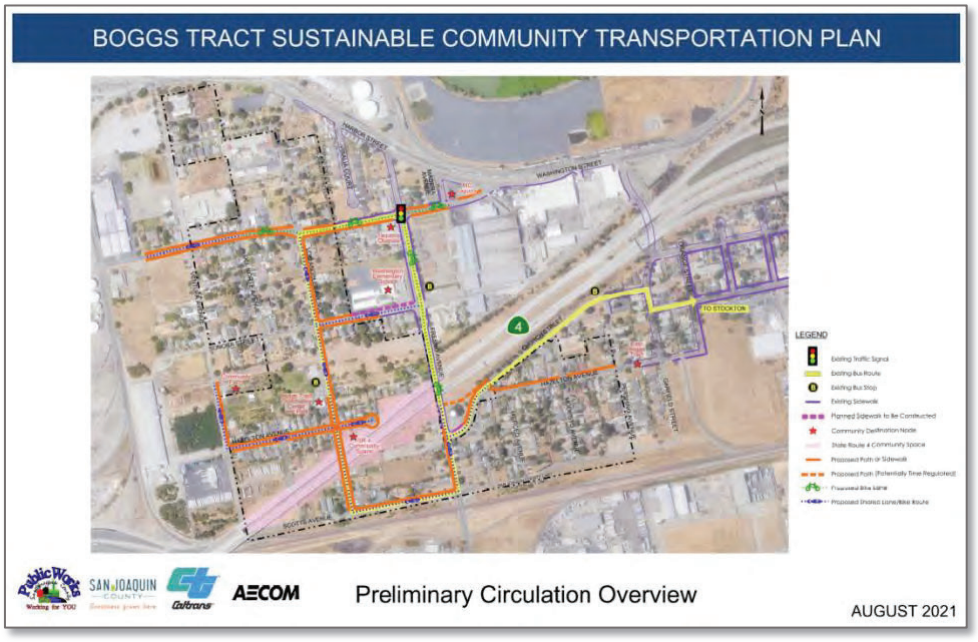
- State Route 4 Community Space Preliminary Concept 2: These boards presented the second of two draft design concepts for the community space under State Route 4 freeway, and also includes a layout for a garden/green space, community area, play area, paved area and a dog park, like Concept 1.



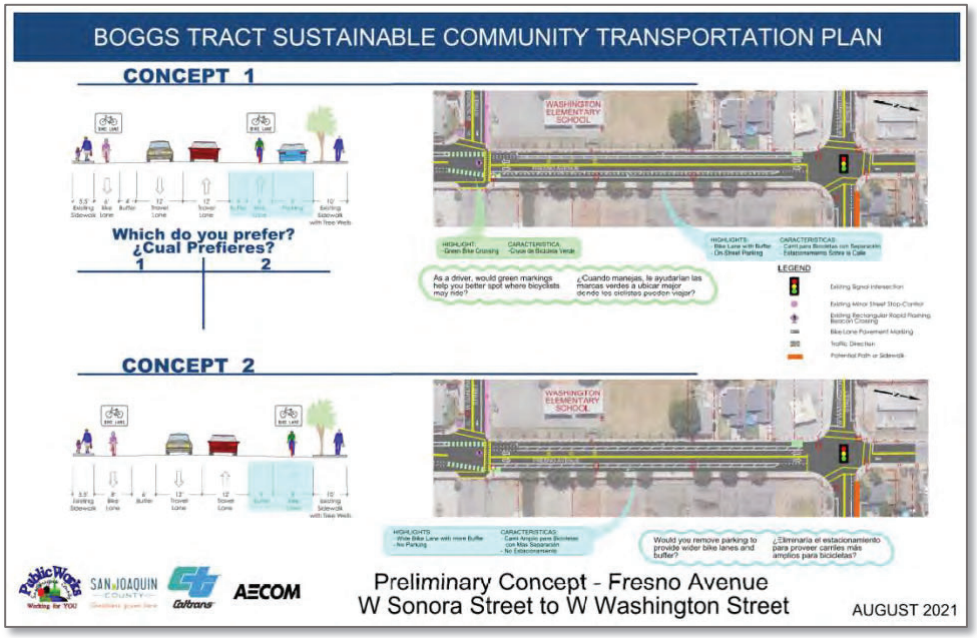


- State Route 4 Community Space – Possible Amenities: This board provided options for different amenities to include for a community space, play area, and green space under State Route 4. Participants were asked to share their input by voting for their top three options with dot stickers.

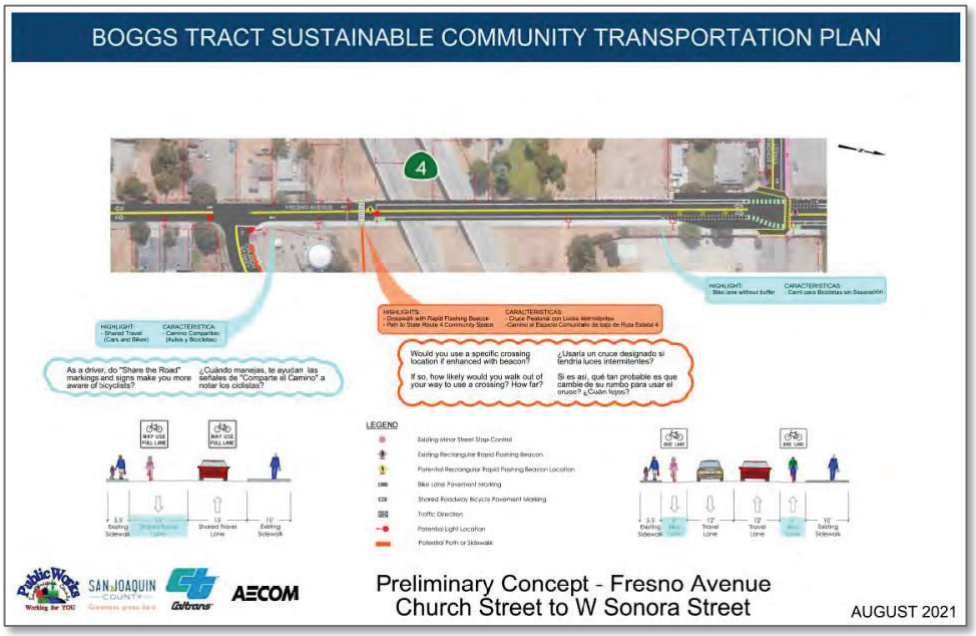
- Preliminary Circulation Overview: This board provided an overview of the proposed changes to the transportation network in Boggs Tract. This includes the addition of bike lanes, sidewalks, and shared paths.



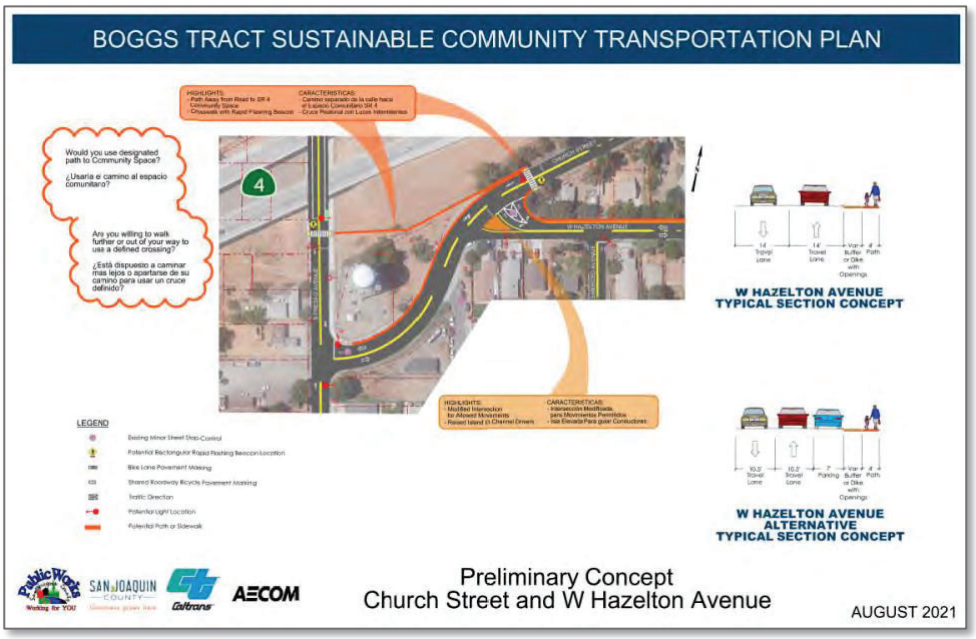
- **Fresno Avenue from West Sonora Street to West Washington Street:** This board presents two concepts for street improvements along Fresno Avenue. Participants were asked to choose their preferred concept by placing dot stickers.



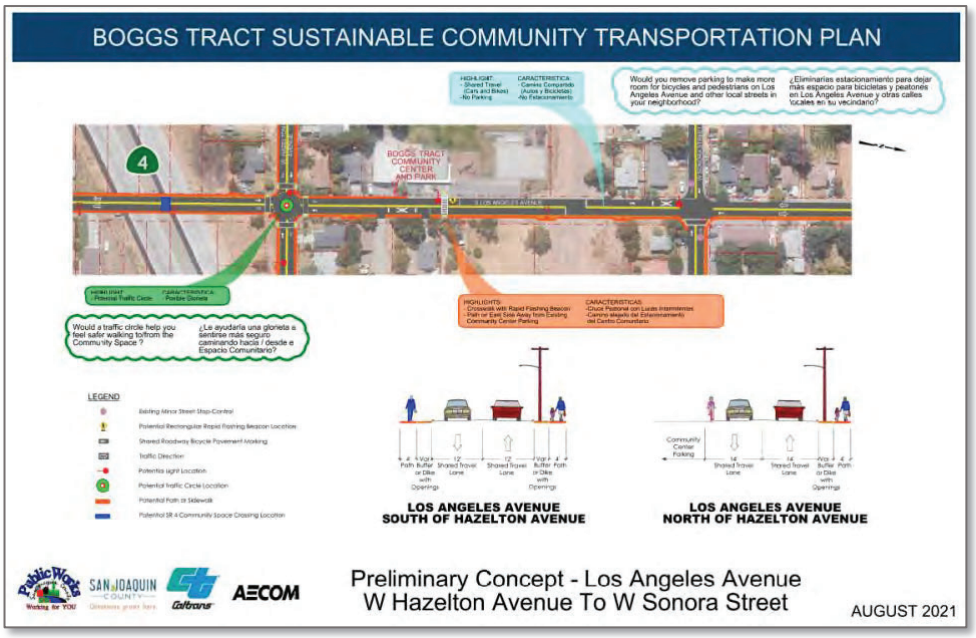
- **Fresno Avenue from Church Street to West Sonora Street:** This board presents the draft concept for street improvements along Fresno Avenue between Church Street and West Sonora Avenue.



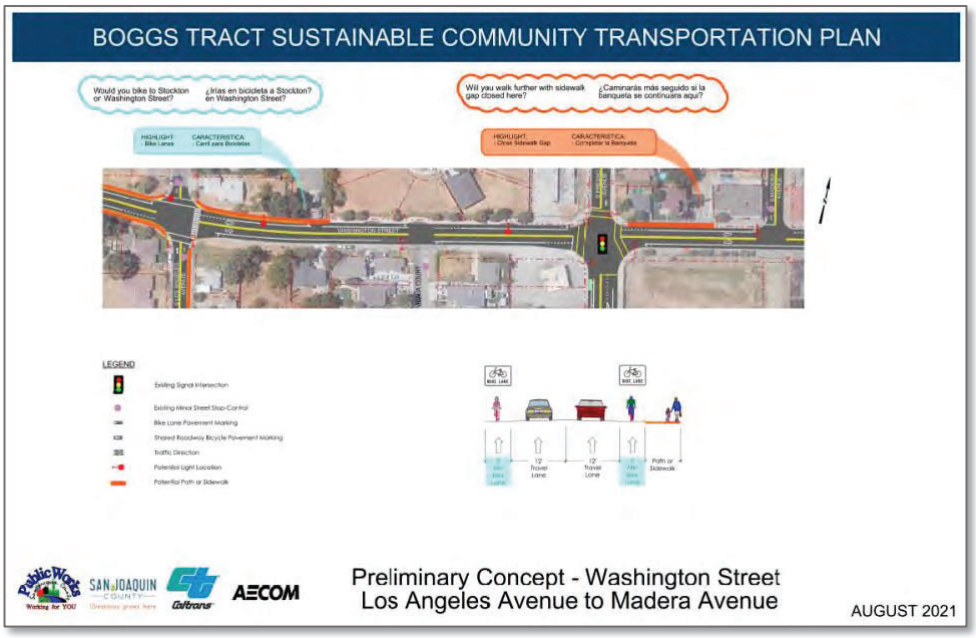
- **Church Street and West Hazelton Avenue:** This board presents the draft concept for street improvements at Church Street and West Hazelton Avenue.



- **Los Angeles Avenue from West Hazelton Avenue to West Sonora Street:** This board presents the draft concept for street improvements along Los Angeles Avenue from West Hazelton Avenue to West Sonora Street.



- **Washington Street from Los Angeles Avenue to Madera Avenue:** This board presents the draft concept for street improvements along Los Angeles Avenue from West Hazelton Avenue to West Sonora Street.



Summary of Findings

Below is a comprehensive summary of feedback received from community members during the Open House.

State Route 4 Community Space Preliminary Concept 1

- Participants expressed concerns about Concept 1 and whether the space would become a space for homelessness or become an area where people would dispose of trash like on Scotts Avenue. There were also concerns that the proposed dog park might attract the numerous stray dogs already in the neighborhood
- Participants showed a preference for more narrow walking paths as opposed to wider paths to prevent people from loitering or sitting in the walkway.
- Participants had questions about the timing for the construction of the community space.

State Route 4 Community Space Preliminary Concept 2

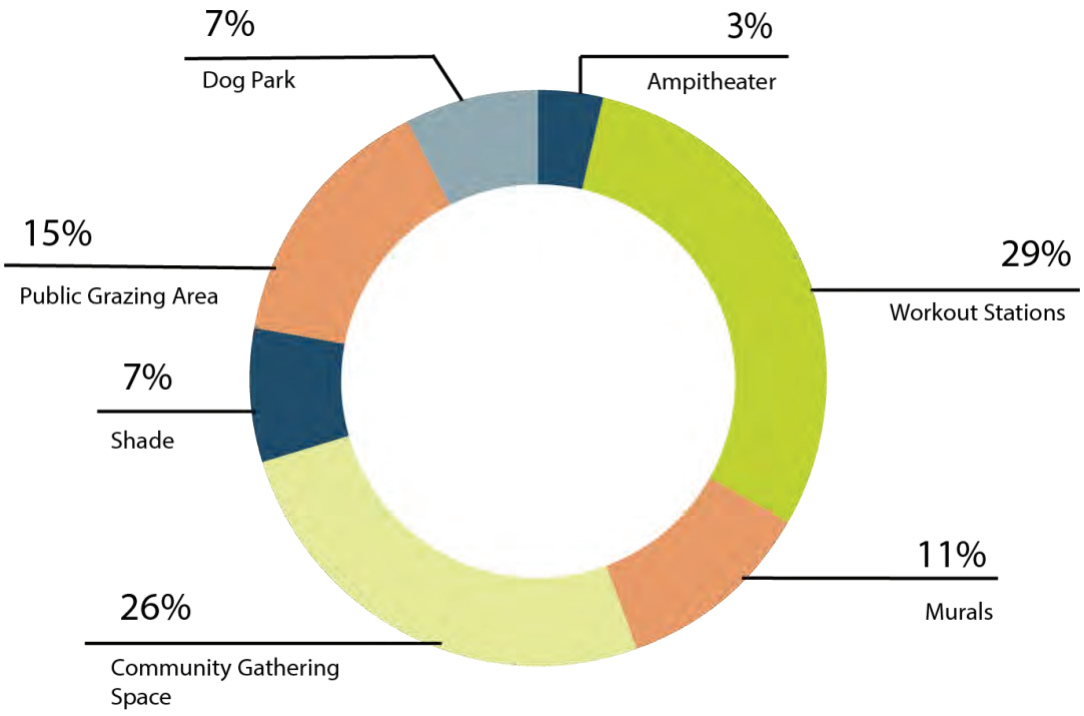
- Participants generally preferred Concept 2 to Concept 1 for the Community Space, noting that the space provides more opportunities for activities.
- Participants also had questions about what the grazing area would look like in the community space, the number of restrooms that would be constructed in the area, and whether there would be enough security for people using the space/how security would be provided.

- There was also a question of whether a longer length of walking paths could be included in the space if the paths are curved and not straight.

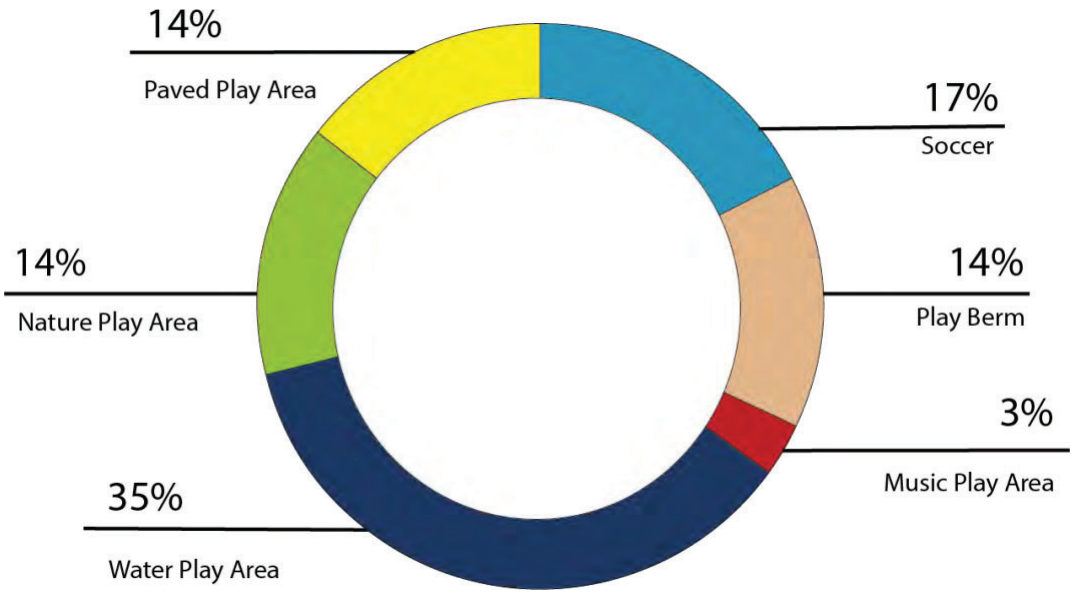
State Route 4 Community Space – Possible Amenities

Below is a summary of the feedback received, which includes attendees' preferences for amenities to include in the community space, organized by area.

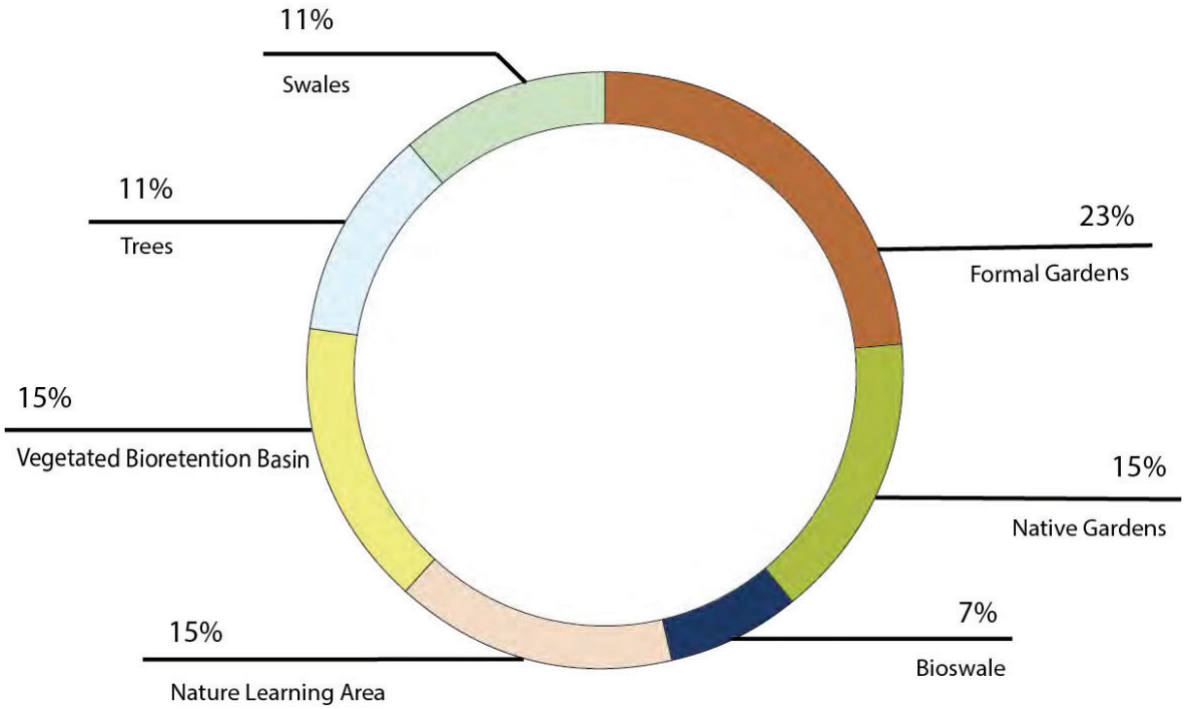
Community Space:



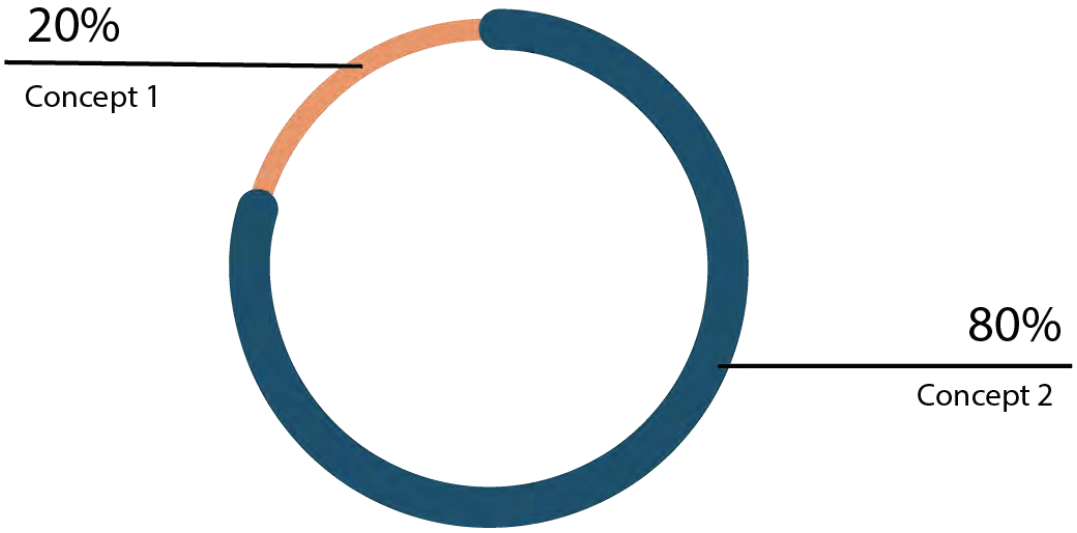
Play area:



Garden or Green Space:



Fresno Avenue from West Sonora Street to West Washington Street:



Participants noted that they prefer having buffered bike lanes, and it seems like a safer alternative than Concept 1 for those traveling through the area. Participants also noted that they would like to see more tree canopy in this area, particularly trees that provide edible vegetation.

Fresno Avenue from Church Street to West Sonora Street

Participants wrote that they would like to see multiple flashing pedestrian beacons be implemented in this area.

Church Street and West Hazelton Avenue

Participants had a positive reaction to the plans proposed here, noting that the paths should be made wide enough for both pedestrians and bicyclists. People also noted that this area is a site where people often will dump trash, which is an area of concern for residents. Participants wrote that they would like more tree canopy along the streets.

Los Angeles Avenue from West Hazelton Avenue to West Sonora Street

Participants like the idea of implementing a traffic circle in this area and the bike lane buffer, noting that it will make this route safer for travelers. Participants also would like to have a connection to the Community Center in this area.

Washington Street from Los Angeles Avenue to Madera Avenue

Participants had concerns around the curve on Washington, writing that it seems dangerous for users and that there are unhoused individuals in the area.

General Comments

- Participants express an overall concern for the bicycle facilities to potentially interfere with the on-street parking in some areas.
- It would be nice to connect to Van Buskirk Community Center.
- I'm not a big fan of sidewalks, I like the country feel of Boggs Tract
- I think the area should be upgraded from low to medium to high density in time the funds become available.
- I like the proposals that I have seen. I believe it is so important to increase the green urban canopy that can help keep our air clean and safe. It will be nice to have a safe place to gather and walk.

- So excited to see that the plans are finally in motion. I love the different plan layout and the ideas. Let's keep it going. I am ready to push it through.
- AB617 - Stockton Community provides funds for vegetable barriers

Public Awareness

To build awareness of the Boggs Tract Sustainable Community Plan and increase participation among community members, the AIM team developed education and awareness materials, including a flyer, social media graphic and lawn signs in both English and Spanish. Lawn signs were posted at key destinations and areas with high foot traffic in the Boggs Tract neighborhood including the Community Farm and Washington Elementary School. Flyers were posted at the Boggs Tract Community Center public bulletin boards.

Information about the Open House was posted on the Boggs Tract Sustainable Community Transportation Plan webpage on the County's website and on the Port of Stockton's website.

Additionally, the project team shared digital informational content with project partners and local organizations to encourage participation in the Open House via email.

AIM Consulting developed a social media campaign that included materials in both English and Spanish, geographic targeted posts, as well as sharing materials through the Public Works Department's social media channels.

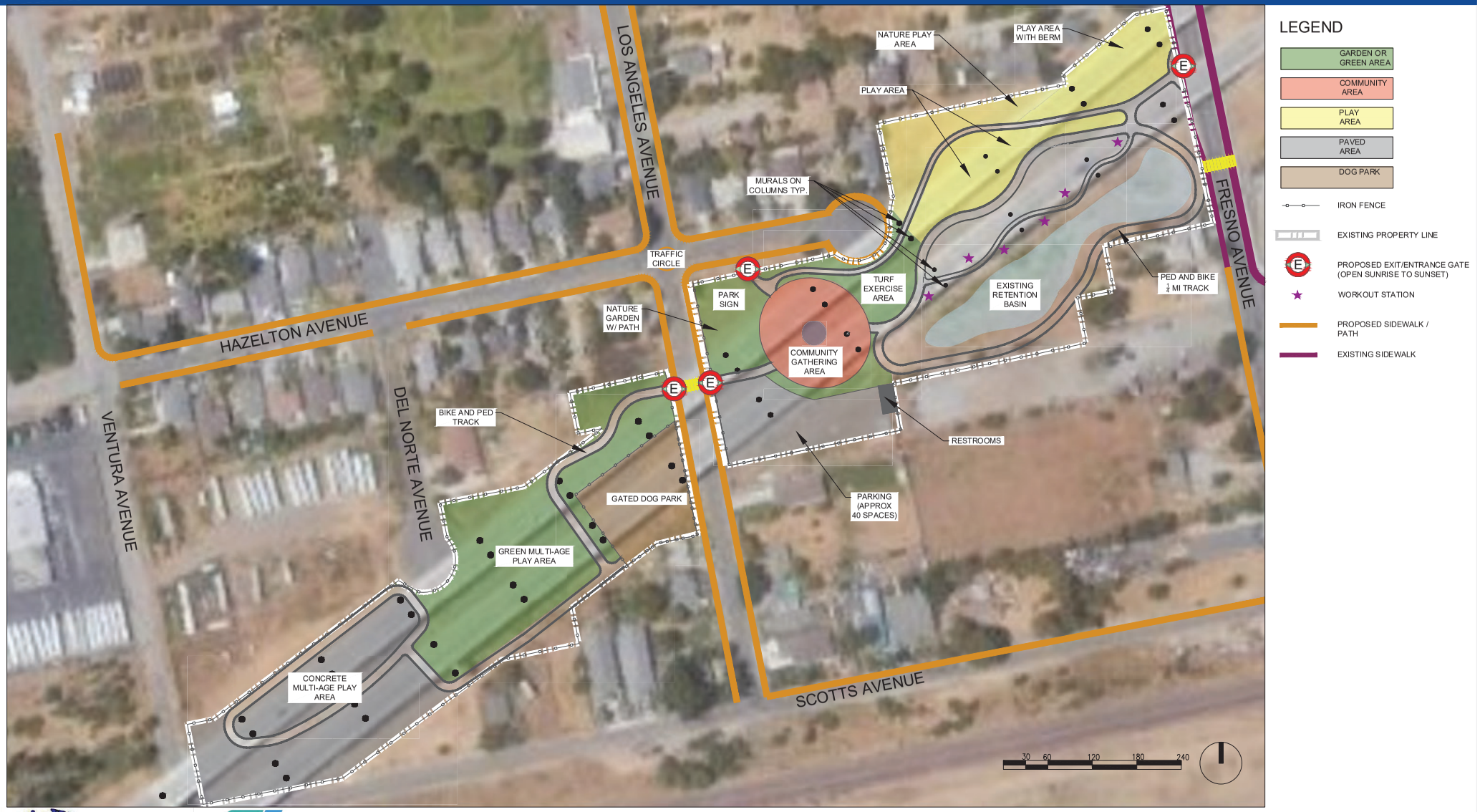
A media release about the Open House and BBQ was distributed to local media outlets.

Social Media Graphic

Appendix

- Display boards
- Flyers
- Social media graphics
- Comment cards

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN



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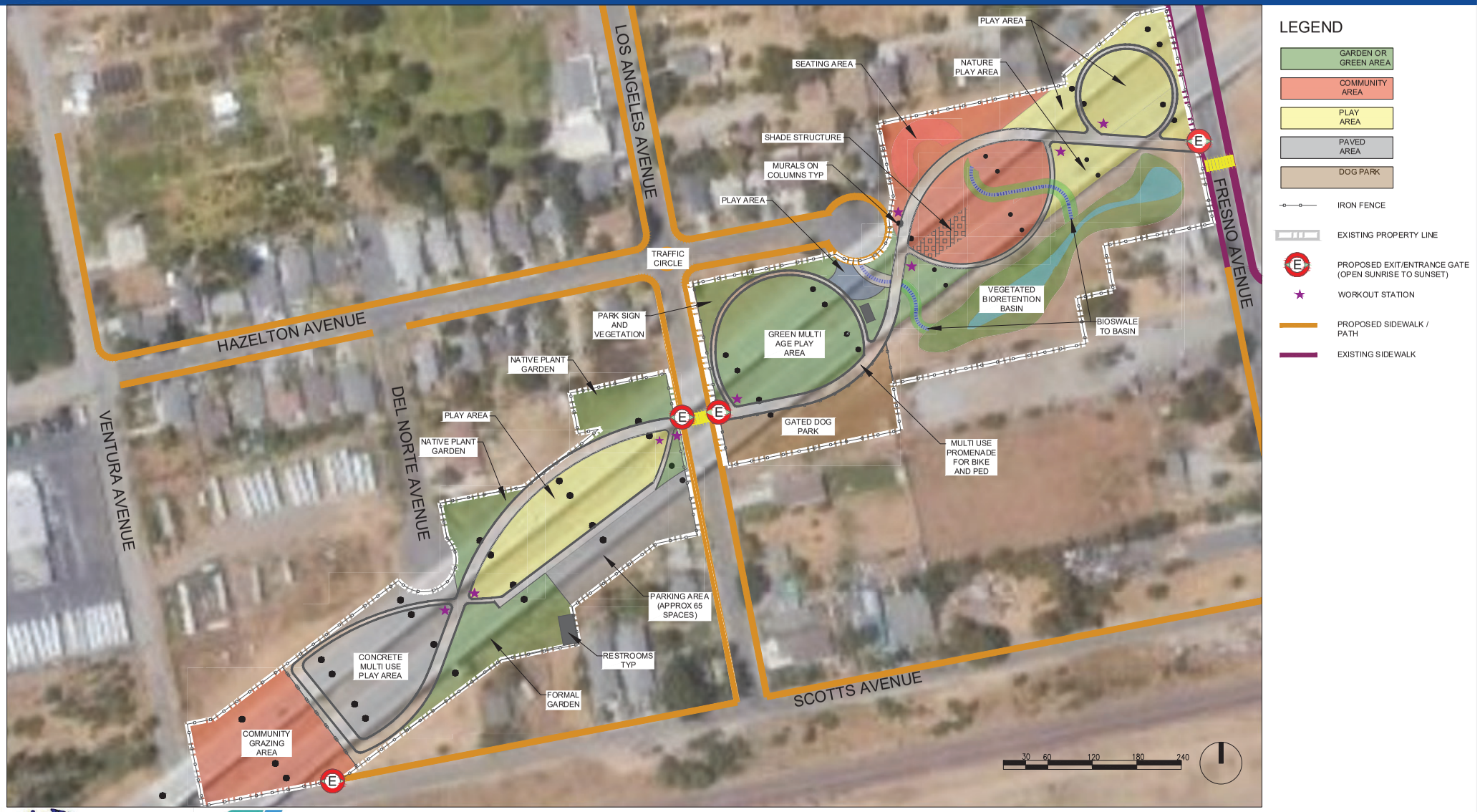
State Route 4 Community Space
Preliminary Concept 1

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN



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State Route 4 Community Space
Preliminary Concept 2

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

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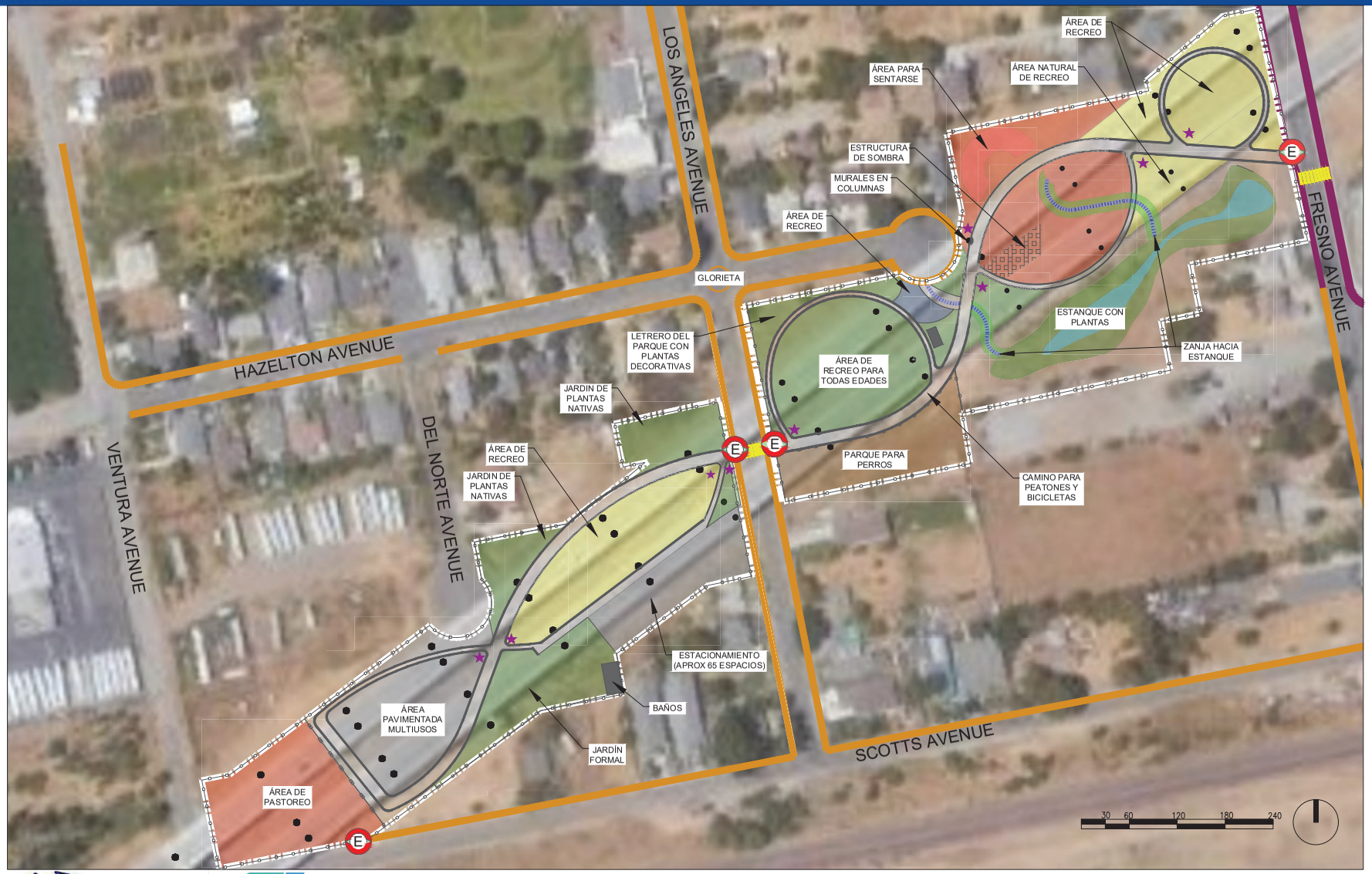
Espacio Comunitario Debajo Routa Estatal 4
Concepto Preliminar 1

AGOSTO 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN



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Espacio Comunitario Debajo Routa Estatal 4
Concepto Preliminar 2

AGOSTO 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

Community Space / Espacio Comunitario


Amphitheater / Anfiteatro


Workout Stations / Estaciones de Ejercicio


Murals / Murales


Community Gathering Area / Áreas para Eventos Comunitarios


Shade Structure / Estructura de Sombra


Public Grazing Area / Área de Pastoreo


Dog Park / Parque para Perros

Play Area / Área de Recreo


Soccer / Futbol


Play Berm / Loma de Juego


Music Play Area / Área de Música


Water Play Area / Esplanada Acuática


Nature Play / Área Natural de Recreo


Swings / Columpios


Paved Plan Area / Área Pavimentada

Garden or Green Space / Jardines o Espacio Verde


Formal Gardens / Jardín Formal


Native Gardens / Jardines Nativos


Bioswale / Zanja de Infiltración


Nature Learning Area / Espacios Educativos


Vegetated Bioretention Basin / Estanque con Plantas


Trees / Árboles


Swales / Zanja Empedrada

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State Route 4 Community Plan
Amenity Possibilities for Designated Areas

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BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

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Preliminary Circulation Overview

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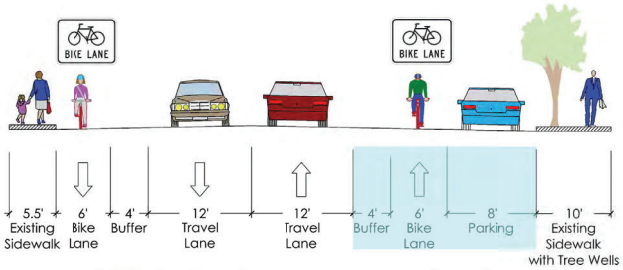
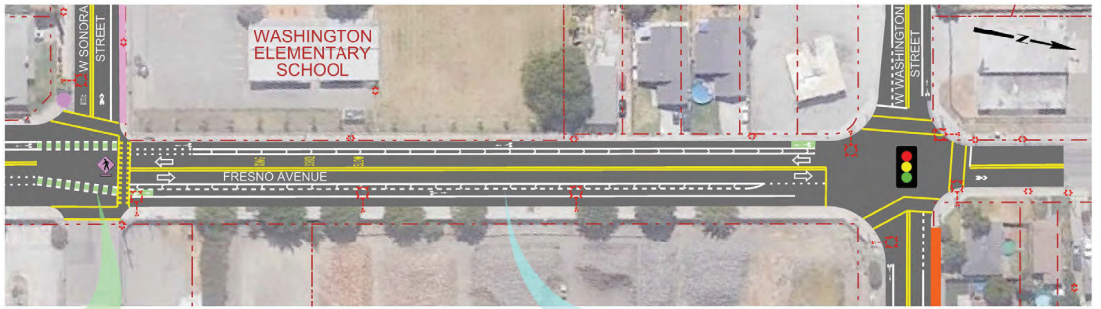
BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

CONCEPT 1



Which do you prefer?
¿Cual Prefieres?

1 | **2**



HIGHLIGHT:
-Green Bike Crossing

CARACTERISTICA:
-Cruce de Bicicleta Verde

HIGHLIGHTS:
- Bike Lane with Buffer
- On-Street Parking

CARACTERISTICAS:
- Carril para Bicicletas con Separación
- Estacionamiento Sobre la Calle

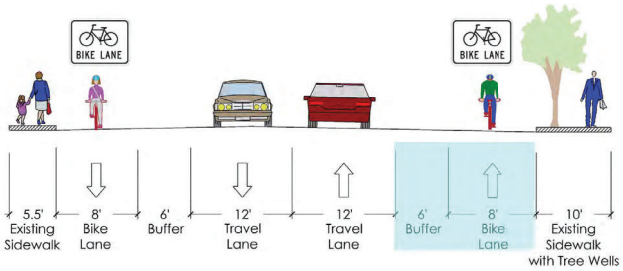
As a driver, would green markings help you better spot where bicyclists may ride?

¿Cuando manejas, le ayudarían las marcas verdes a ubicar mejor donde los ciclistas pueden viajar?

LEGEND

- Existing Signal Intersection
- Existing Minor Street Stop-Control
- Existing Rectangular Rapid Flashing Beacon Crossing
- Bike Lane Pavement Marking
- Traffic Direction
- Potential Path or Sidewalk

CONCEPT 2



HIGHLIGHTS:
- Wide Bike Lane with more Buffer
- No Parking

CARACTERISTICAS:
- Carril Amplio para Bicicletas con Mas Separación
- No Estacionamiento

Would you remove parking to provide wider bike lanes and buffer?

¿Eliminaría el estacionamiento para proveer carriles más amplios para bicicletas?

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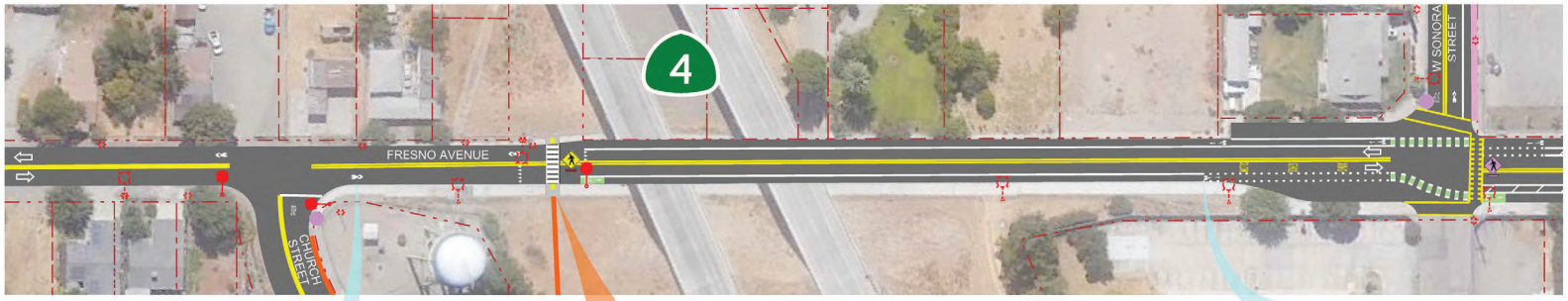
Preliminary Concept - Fresno Avenue
W Sonora Street to W Washington Street

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN



HIGHLIGHT:
- Bike lane without buffer

CARACTERISTICAS:
- Carril para Bicicletas sin Separación

HIGHLIGHTS:
- Crosswalk with Rapid Flashing Beacon
- Path to State Route 4 Community Space

CARACTERISTICAS:
- Cruce Peatonal con Luces Intermitentes
-Camino al Espacio Comunitario de bajo de Ruta Estatal 4

HIGHLIGHT:
- Shared Travel (Cars and Bikes)

CARACTERISTICA:
- Camino Compartido (Autos y Bicicletas)

As a driver, do "Share the Road" markings and signs make you more aware of bicyclists?

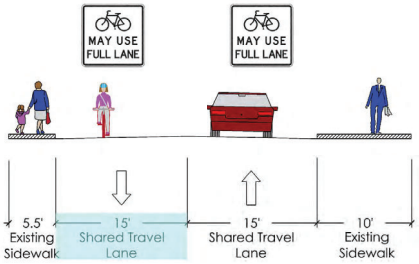
¿Cuándo manejas, te ayudan las señales de "Comparte el Camino" a notar los ciclistas?

Would you use a specific crossing location if enhanced with beacon?

If so, how likely would you walk out of your way to use a crossing? How far?

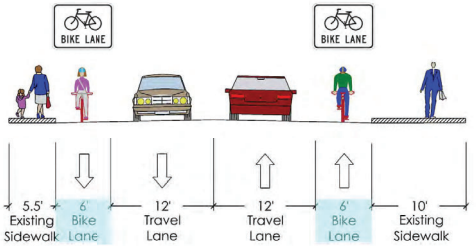
¿Usaría un cruce designado si tendria luces intermitentes?

Si es así, qué tan probable es que cambie de su rumbo para usar el cruce? ¿Cuán lejos?



LEGEND

- Existing Minor Street Stop-Control
- Existing Rectangular Rapid Flashing Beacon
- Potential Rectangular Rapid Flashing Beacon Location
- Bike Lane Pavement Marking
- Shared Roadway Bicycle Pavement Marking
- Traffic Direction
- Potential Light Location
- Potential Path or Sidewalk



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Preliminary Concept - Fresno Avenue Church Street to W Sonora Street

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

HIGHLIGHTS:
- Path Away from Road to SR 4 Community Space
- Crosswalk with Rapid Flashing Beacon

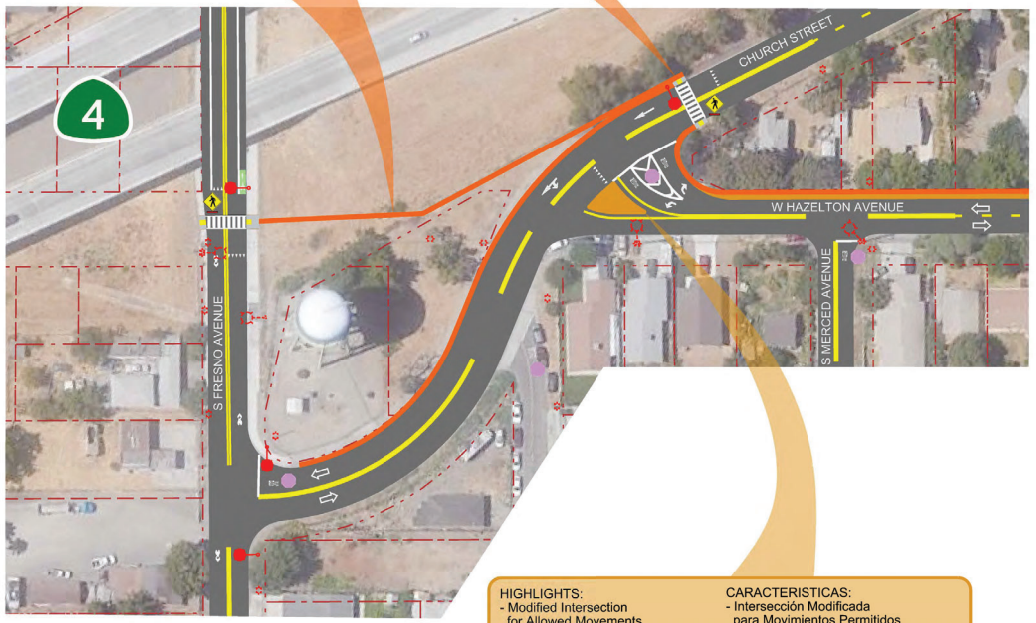
CARACTERISTICAS:
- Camino separado de la calle hacia el Espacio Comunitario SR 4
- Cruce Peatonal con Luces Intermitentes

Would you use designated path to Community Space?

¿Usaría el camino al espacio comunitario?

Are you willing to walk further or out of your way to use a defined crossing?

¿Está dispuesto a caminar más lejos o apartarse de su camino para usar un cruce definido?

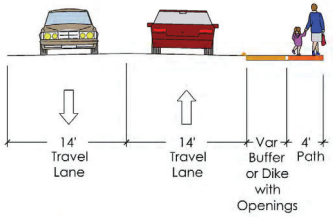


HIGHLIGHTS:
- Modified Intersection for Allowed Movements
- Raised Island to Channel Drivers

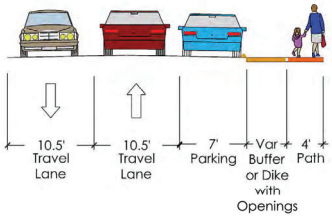
CARACTERISTICAS:
- Intersección Modificada para Movimientos Permitidos
- Isla Elevada Para guiar Conductores

LEGEND

- Existing Minor Street Stop-Control
- Potential Rectangular Rapid Flashing Beacon Location
- Bike Lane Pavement Marking
- Shared Roadway Bicycle Pavement Marking
- Traffic Direction
- Potential Light Location
- Potential Path or Sidewdk



W HAZELTON AVENUE TYPICAL SECTION CONCEPT



W HAZELTON AVENUE ALTERNATIVE TYPICAL SECTION CONCEPT

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Preliminary Concept
Church Street and W Hazelton Avenue

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

HIGHLIGHT:
- Shared Travel (Cars and Bikes)
-No Parking

CARACTERISTICA:
- Camino Compartido (Autos y Bicicletas)
-No Estacionamiento

Would you remove parking to make more room for bicycles and pedestrians on Los Angeles Avenue and other local streets in your neighborhood?

¿Eliminarías estacionamiento para dejar más espacio para bicicletas y peatones en Los Ángeles Avenue y otras calles locales en su vecindario?

HIGHLIGHT:
- Potential Traffic Circle

CARACTERISTICA:
- Posible Glorieta

Would a traffic circle help you feel safer walking to/from the Community Space ?

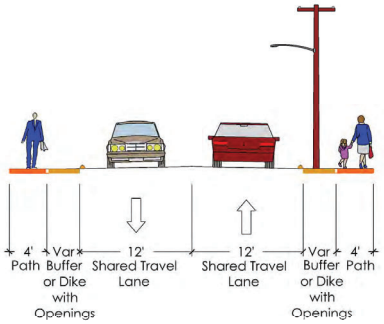
¿Le ayudaría una glorieta a sentirse más seguro caminando hacia / desde el Espacio Comunitario?

HIGHLIGHTS:
- Crosswalk with Rapid Flashing Beacon
- Path on East Side Away from Existing Community Center Parking

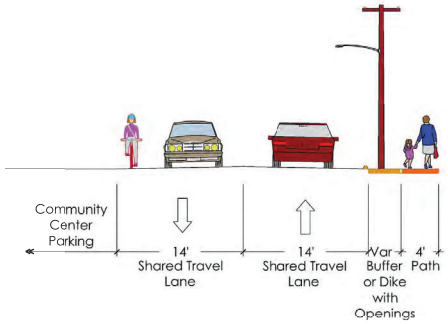
CARACTERISTICAS:
-Cruce Peatonal con Luces Intermitentes
-Camino alejado del Estacionamiento del Centro Comunitario

LEGEND

- Existing Minor Street Stop-Control
- Potential Rectangular Rapid Flashing Beacon Location
- Shared Roadway Bicycle Pavement Marking
- Traffic Direction
- Potential Light Locaton
- Potential Traffic Circle Location
- Potential Path or Sidewalk
- Potential SR 4 Comrrunity Space Crossing Location



LOS ANGELES AVENUE SOUTH OF HAZELTON AVENUE



LOS ANGELES AVENUE NORTH OF HAZELTON AVENUE

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Preliminary Concept - Los Angeles Avenue W Hazelton Avenue To W Sonora Street

AUGUST 2021

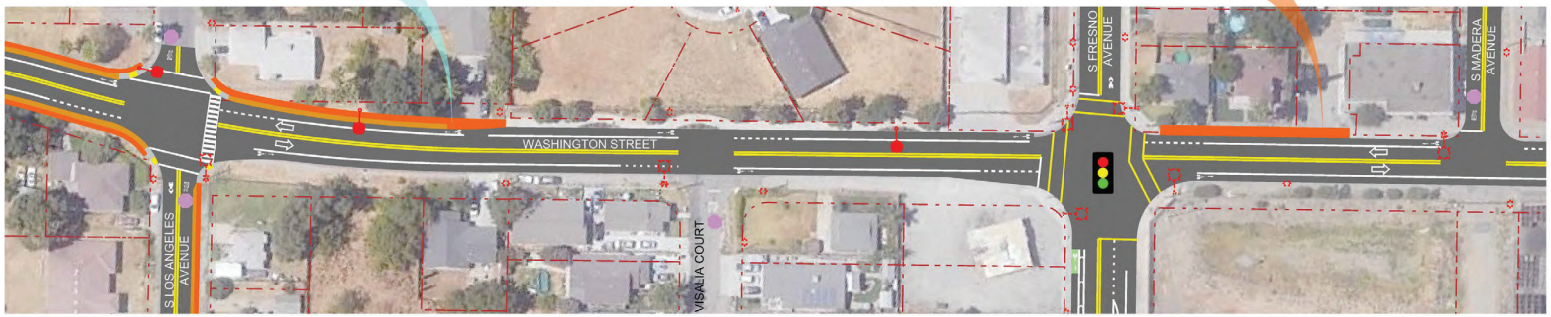
BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

Would you bike to Stockton on Washington Street? ¿Irías en bicicleta a Stockton? en Washington Street?

HIGHLIGHT: - Bike Lanes
CARACTERISTICA: - Carril para Bicicletas

Will you walk further with sidewalk gap closed here? ¿Caminarás más seguido si la banqueta se continuara aqui?

HIGHLIGHT: - Close Sidewalk Gap
CARACTERISTICA: - Completar la Banqueta



LEGEND

- Existing Signal Intersection
- Existing Minor Street Stop-Control
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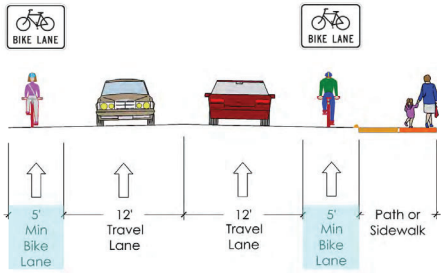
- Potential Light Location
- Potential Path or Sidewalk



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Preliminary Concept - Washington Street Los Angeles Avenue to Madera Avenue

AUGUST 2021

Boggs Tract

Sustainable Community Transportation Plan

It's back on!

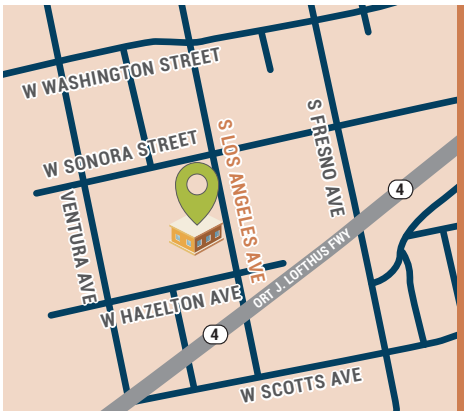
Open House & BBQ

Join us to see some exciting design ideas to **improve walking & cycling in the neighborhood** and for a **gathering space under the SR 4 freeway.**

San Joaquin County Supervisor Miguel Villapudua is hosting a family-friendly BBQ with music, raffle prizes and more!

August 5, 2021

5:00 –7:00 PM



If there are extreme heat conditions again, the Boggs Tract planning team will be holding the Open House indoors.

Boggs Tract Community Center
533 S Los Angeles Ave

Want to learn more? Visit **www.BoggsTractPlan.com**

For questions, email Emely Candray at ecandray@aimconsultingco.com

Boggs Tract

Sustainable Community Transportation Plan

¡Es hora de volver!

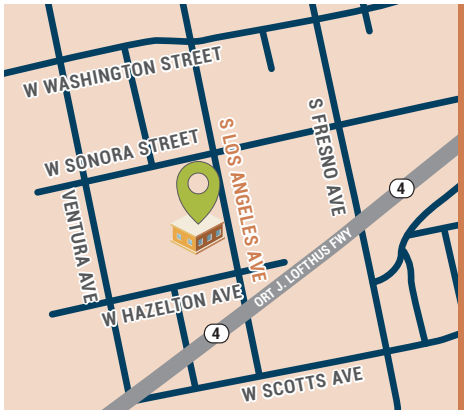
Casa Abierta y BBQ

Únase a nosotros para ver algunas ideas de diseño interesantes para mejorar la caminata y el ciclismo en el vecindario y para un espacio de reunión debajo de la autopista SR 4.

El supervisor del condado de San Joaquín, Miguel Villapudua, está organizando una barbacoa familiar con música, premios de rifas y más.

Agosto 5, 2021

5:00- 7:00 P.M.



Si vuelve a haber condiciones de calor extremo, la jornada de puertas abiertas tendrá lugar adentro del centro

Boggs Tract Community Center
533 S Los Angeles Ave

¿Querer aprender más? visite **www.BoggsTractPlan.com**
Si tiene preguntas, envíe un correo electrónico a Emely Candray en **ecandray@aimconsultingco.com**

Boggs Tract Sustainable Community Transportation Plan

Public Works Working for YOU

SAN JOAQUIN COUNTY Greatness grows here.

It's back on!

Open House & BBQ

August 5, 2021

5:00 - 7:00 PM

If there are extreme heat conditions again, the Boggs Tract planning team will be holding the Open House indoors.

Boggs Tract Community Center
533 S Los Angeles Ave

Boggs Tract Sustainable Community Transportation Plan

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¡Es hora de volver!

Casa Abierta y BBQ

5 de agosto de 2021

5:00 - 7:00 PM

Si vuelve a haber condiciones de calor extremo, la jornada de puertas abiertas tendrá lugar adentro del centro.

Boggs Tract Community Center
533 S Los Angeles Ave

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN
COMMENT CARD

Please share your comments or questions on the Boggs Tract Sustainable Community Transportation Plan.

Name _____ Phone Number _____

Email Address _____

Attachment B:
Proposed Improvements Exhibits

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

Public Works Working for YOU

SAN JOAQUIN COUNTY Greatness grows here.

Caltrans

AECOM

Preliminary Circulation Overview

AUGUST 2021

BOGGS TRACT SUSTAINABLE COMMUNITY TRANSPORTATION PLAN

Public Works Working for YOU

San Joaquin County — Greatness grows here.

Caltrans

AECOM

State Route 4 Community Space
Preliminary Concept 2

JANUARY 21 2022

Attachment C:
Preliminary Construction Cost Estimates

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (Ventura Street and West Hazelton Avenue west of SR-4)

Project Description: Construction of buffered paths, centerline, shared roadway pavement markings, and a traffic circle

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	293,300	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	293,300	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	314,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	314,000 *

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	50		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A
Number of Plant Establishment Days (CD)			

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	21,900
2	**Pavement Structural Section**	$	58,100
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	15,300
6	**Traffic Items**	$	72,200
7	**Detours**	$	-
8	**Minor Items**	$	11,800
9	**Roadway Mobilization**	$	18,000
10	**Supplemental Work**	$	16,200
11	**State Furnished**	$	11,800
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	68,000
	TOTAL ROADWAY ITEMS	**$**	**293,300**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	330	x	50.00	=	$	16,500
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY	60	x	90.00	=	$	5,400

TOTAL EARTHWORK SECTION ITEMS $ 21,900

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	240	x	120.00	=	$	28,800
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	140	x	80.00	=	$	11,200
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF	2,530	x	1.00	=	$	2,530
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY	10	x	750.00	=	$	7,500
731628A	Concrete Pedestrian Landings	EA	4	x	2,000	=	$	8,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 58,100

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost		
	Biological Mitigation	LS		x		=	$	-		
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-		
141000	Temporary Fence (Type ESA)	LF		x		=	$	-		
						Subtotal Environmental Mitigation			$	-

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost		
20XXXX	Highway Planting	LS		x		=	$	-		
20XXXX	Irrigation System	LS		x		=	$	-		
204099	Plant Establishment Work	LS		x		=	$	-		
204101	Extend Plant Establishment Work	LS		x		=	$	-		
20XXXX	Follow-up Landscape Project	LS		x		=	$	-		
150685	Remove Irrigation Facility	LS		x		=	$	-		
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		=	$	-		
206400	Check and Test Existing Irrigation Facilities	LS		x		=	$	-		
21011X	Imported Topsoil (X)	CY/TON		x		=	$	-		
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		=	$	-		
200122	Weed Germination	SQYD		x		=	$	-		
208304	Water Meter	EA		x		=	$	-		
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		=	$	-		
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		=	$	-		
204002A	Landscaping	LS	1	x	3,810.00	=	$	3,810		
						Subtotal Landscape and Irrigation			$	*3,810*

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)			Cost		
210010	Move In/Move Out (Erosion Control)	EA		x		=	$	-		
210350	Fiber Rolls	LF		x		=	$	-		
210360	Compost Sock	LF		x		=	$	-		
2102XX	Rolled Erosion Control Product (X)	SQFT		x		=	$	-		
21025X	Bonded Fiber Matrix	QFT/ACRE		x		=	$	-		
210300	Hydromulch	SQFT		x		=	$	-		
210420	Straw	SQFT		x		=	$	-		
210430	Hydroseed	SQFT	4,440	x	1.00	=	$	4,440		
210600	Compost	SQFT		x		=	$	-		
210630	Incorporate Materials	SQFT		x		=	$	-		
						Subtotal Erosion Control			$	*4,440*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost		
130300	Prepare SWPPP	LS		x		=	$	-		
130200	Prepare WPCP	LS	1	x	2,000.00	=	$	2,000		
130100	Job Site Management	LS	1	x	5,000.00	=	$	5,000		
130330	Storm Water Annual Report	EA		x		=	$	-		
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-		
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-		
130520	Temporary Hydraulic Mulch	SQYD		x		=	$	-		
130550	Temporary Hydroseed	SQYD		x		=	$	-		
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		=	$	-		
130640	Temporary Fiber Roll	LF		x		=	$	-		
130900	Temporary Concrete Washout	LS		x		=	$	-		
130710	Temporary Construction Entrance	EA		x		=	$	-		
130610	Temporary Check Dam	LF		x		=	$	-		
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-		
130730	Street Sweeping	LS		x		=	$	-		
						Subtotal NPDES			$	*7,000*

	TOTAL ENVIRONMENTAL	**$**	**15,300**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS	1	x	5,800.00	=	$	5,800		
066596	Additional Water Pollution Control**	LS	1	x	3,200.00	=	$	3,200		
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-		
XXXXXX	Some Item	LS		x		=	$	-		
						Subtotal Supplemental Work for NDPS			$	*9,000*

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
770090	Lighting (City Street)	LS	1	x	20,000.00	=	$	20,000
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ *20,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	1,440	x	1.50	=	$	2,160
840515	Thermoplastic Pavement Markings	SQFT	290	x	1.50	=	$	435

Subtotal Traffic Signing and Striping $ *2,160*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	50,000.00	=	$	50,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *50,000*

TOTAL TRAFFIC ITEMS **$ 72,200**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 167,500

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
ADA Items			1.0%	$	1,675	
8B - Bike Path Items						
Bike Path Items				$	-	
8C - Other Minor Items						
Other Minor Items			6.0%	$	10,050	
Total of Section 1-7	$	167,500	x 7.0%	= $	11,725	

TOTAL MINOR ITEMS **$ 11,800**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$	179,300	x 10%	= $	17,930	

TOTAL ROADWAY MOBILIZATION **$ 18,000**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-
	*Cost of **NPDES** Supplemental Work specified in Section 5D*					= $	9,000
	Total Section 1-8	$	179,300		4%	= $	7,172

TOTAL SUPPLEMENTAL WORK **$ 16,200**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	179,300		1%	= $	1,793

TOTAL STATE FURNISHED **$11,800**

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $179,300 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $225,300 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD **$0**

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	225,300	x	**30%**	=	$68,000

TOTAL CONTINGENCY* **$68,000**

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (Los Angeles Avenue between Washington Street and Scotts Avenue)

Project Description: Construction of buffered paths, centerline, shared roadway pavement markings, and pedestrian crossings

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	405,100	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	405,100	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	426,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	426,000	*

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	55		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	25,700
2	**Pavement Structural Section**	$	61,200
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	12,500
6	**Traffic Items**	$	137,800
7	**Detours**	$	-
8	**Minor Items**	$	16,700
9	**Roadway Mobilization**	$	25,400
10	**Supplemental Work**	$	19,200
11	**State Furnished**	$	12,600
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	94,000
	TOTAL ROADWAY ITEMS	**$**	**405,100**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	370	x	50.00	=	$	18,500
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY	80	x	90.00	=	$	7,200

TOTAL EARTHWORK SECTION ITEMS $ 25,700

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	260	x	120.00	=	$	31,200
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	140	x	80.00	=	$	11,200
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF	2,780	x	1.00	=	$	2,780
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY		x		=	$	-
731628A	Concrete Pedestrian Landings	EA	8	x	2,000	=	$	16,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 61,200

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation		*$ -*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation		*$ -*

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT	5,470	x	1.00	= $	5,470
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control		*$ 5,470*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES		*$ 7,000*

TOTAL ENVIRONMENTAL	**$**	**12,500**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS	1	x	5,800.00	= $	5,800
066596	Additional Water Pollution Control**	LS	1	x	3,200.00	= $	3,200
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS		*$ 9,000*

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
770090	Lighting (City Street)	LS	1	x	60,000.00	=	$	60,000
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ *60,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	1,840	x	1.50	=	$	2,760
840515	Thermoplastic Pavement Markings	SQFT	750	x	1.50	=	$	1,125

Subtotal Traffic Signing and Striping $ *2,760*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	75,000.00	=	$	75,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *75,000*

TOTAL TRAFFIC ITEMS **$ 137,800**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 237,200

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
ADA Items			1.0%	$	2,372	
8B - Bike Path Items						
Bike Path Items				$	-	
8C - Other Minor Items						
Other Minor Items			6.0%	$	14,232	
Total of Section 1-7	$	237,200	x 7.0%	= $	16,604	

TOTAL MINOR ITEMS **$ 16,700**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$	253,900	x 10%	= $	25,390	

TOTAL ROADWAY MOBILIZATION **$ 25,400**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-
	*Cost of **NPDES** Supplemental Work specified in Section 5D*					= $	9,000
	Total Section 1-8	$	253,900		4%	= $	10,156

TOTAL SUPPLEMENTAL WORK **$ 19,200**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	253,900		1%	= $	2,539

TOTAL STATE FURNISHED **$12,600**

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $253,900 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $311,100 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD **$0**

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	311,100	x	**30%**	=	$94,000

TOTAL CONTINGENCY* **$94,000**

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (Fresno Ave from Washington Street to Scotts Ave)

Project Description: Construction of bike lanes, shared roadway markings, sidewalks, and streetlights

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Option # 2

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	322,800	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	322,800	
TOTAL UTILITY RELOCATION COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	343,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	343,000	*

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	55		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	2,000
2	**Pavement Structural Section**	$	39,900
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	7,000
6	**Traffic Items**	$	144,200
7	**Detours**	$	-
8	**Minor Items**	$	13,600
9	**Roadway Mobilization**	$	20,700
10	**Supplemental Work**	$	8,300
11	**State Furnished**	$	12,100
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	75,000
	TOTAL ROADWAY ITEMS	**$**	**322,800**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	40	x	50.00	=	$	2,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 2,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	30	x	80.00	=	$	2,400
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF		x		=	$	-
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x	350.00	=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY	30	x	750.00	=	$	22,500
731628A	County Curb and Gutter	LF	440	x	25.00	=	$	11,000
731629A	Concrete Pedestrian Landings	EA	2	x	2,000	=	$	4,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 39,900

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation	*$*	-

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation	*$*	-

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT		x		= $	-
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control	*$*	-

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES	*$*	*7,000*

TOTAL ENVIRONMENTAL	**$**	**7,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS	*$*	-

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
770090	Lighting (City Street)	LS	1	x	60,000.00	=	$	60,000
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ *60,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	6,130	x	1.50	=	$	9,195
840515	Thermoplastic Pavement Markings	SQFT	940	x	1.50	=	$	1,410

Subtotal Traffic Signing and Striping $ *9,195*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	75,000.00	=	$	75,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *75,000*

TOTAL TRAFFIC ITEMS **$ 144,200**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 193,100

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
ADA Items			1.0%	$	1,931	
8B - Bike Path Items						
Bike Path Items				$	-	
8C - Other Minor Items						
Other Minor Items			6.0%	$	11,586	
Total of Section 1-7	$	193,100	x 7.0%	= $	13,517	

TOTAL MINOR ITEMS **$ 13,600**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$	206,700	x 10%	= $	20,670	

TOTAL ROADWAY MOBILIZATION **$ 20,700**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	206,700	4%	= $	8,268	

TOTAL SUPPLEMENTAL WORK **$ 8,300**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	206,700		1%	= $	2,067

TOTAL STATE FURNISHED	$12,100

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$206,700	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$247,800	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD	$0

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	247,800	x	**30%**	=	$75,000

TOTAL CONTINGENCY*	$75,000

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A Contract #: A-20-230

EA: N/A

Contract #: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (Washington Street between Del Norte Street and Harbor Street)

Project Description: Construction of sidewalks, bike lanes, buffered paths, shared roadway pavement markings, and streetlights

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	575,200	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	575,200	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	596,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	596,000 *

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	60		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	37,400
2	**Pavement Structural Section**	$	130,100
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	15,000
6	**Traffic Items**	$	168,600
7	**Detours**	$	-
8	**Minor Items**	$	24,600
9	**Roadway Mobilization**	$	37,600
10	**Supplemental Work**	$	15,100
11	**County Furnished**	$	13,800
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	133,000
	TOTAL ROADWAY ITEMS	**$**	**575,200**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: N/A Contract #: A-20-230

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	550	x	50.00	=	$	27,500
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY	110	x	90.00	=	$	9,900

TOTAL EARTHWORK SECTION ITEMS $ 37,400

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	190	x	120.00	=	$	22,800
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	160	x	80.00	=	$	12,800
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF	1,980	x	1.00	=	$	1,980
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY	60	x	750.00	=	$	45,000
731628A	County Curb and Gutter	LF	1,340	x	25.00	=	$	33,500
731629A	Concrete Pedestrian Landings	EA	2	x	2,000	=	$	4,000
731630A	Curb Ramps	EA	2	x	5,000	=	$	10,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 130,100

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation	*$*	-

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation	*$*	-

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT	7940	x	1	= $	7,940
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control	*$*	*7,940*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES	*$*	*7,000*

TOTAL ENVIRONMENTAL	**$**	**15,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS	*$*	-

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
770900	Lighting (City Street)	LS	1	x	60,000.00	=	$	60,000
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ *60,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	5,710	x	1.50	=	$	8,565
840515	Thermoplastic Pavement Markings	SQFT	810	x	1.50	=	$	1,215

Subtotal Traffic Signing and Striping $ *8,565*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	100,000.00	=	$	100,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *100,000*

TOTAL TRAFFIC ITEMS **$ 168,600**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 351,100

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
ADA Items			1.0%	$	3,511	
8B - Bike Path Items						
Bike Path Items				$	-	
8C - Other Minor Items						
Other Minor Items			6.0%	$	21,066	
Total of Section 1-7	$	351,100	x 7.0%	= $	24,577	

TOTAL MINOR ITEMS **$ 24,600**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$	375,700	x 10%	= $	37,570	

TOTAL ROADWAY MOBILIZATION **$ 37,600**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	375,700	4%	= $	15,028	

TOTAL SUPPLEMENTAL WORK **$ 15,100**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	375,700		1%	= $	3,757

TOTAL COUNTY FURNISHED **$13,800**

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $375,700 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $442,200 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD **$0**

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	442,200	x	**30%**	=	$133,000

TOTAL CONTINGENCY* **$133,000**

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (West Sonora Street between Del Norte Street and Fresno Avenue)

Project Description: Construction of sidewalks and shared roadway pavement markings

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	209,200	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	209,200	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	230,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	230,000 *

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	50		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	2,000
2	**Pavement Structural Section**	$	60,500
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	7,000
6	**Traffic Items**	$	52,300
7	**Detours**	$	-
8	**Minor Items**	$	8,600
9	**Roadway Mobilization**	$	13,100
10	**Supplemental Work**	$	5,300
11	**State Furnished**	$	11,400
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	49,000
	TOTAL ROADWAY ITEMS	**$**	**209,200**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	40	x	50.00	=	$	2,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS	$	2,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	40	x	80.00	=	$	3,200
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF		x		=	$	-
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY	40	x	750.00	=	$	30,000
731628A	County Curb and Gutter	LF	690	x	25.00	=	$	17,250
731630A	Curb Ramps	EA	2	x	5,000	=	$	10,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS	$	60,500

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation	*$*	-

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation	*$*	-

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT		x		= $	-
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control	*$*	-

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES	*$*	*7,000*

TOTAL ENVIRONMENTAL	**$**	**7,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS	*$*	-

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
		LS		x		=	$	-
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ -

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	1,480	x	1.50	=	$	2,220
840515	Thermoplastic Pavement Markings	SQFT	300	x	1.50	=	$	450

Subtotal Traffic Signing and Striping $ 2,220

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	50,000.00	=	$	50,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ 50,000

TOTAL TRAFFIC ITEMS $ 52,300

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 121,800

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
	ADA Items		1.0%	$	1,218	
8B - Bike Path Items						
	Bike Path Items			$	-	
8C - Other Minor Items						
	Other Minor Items		6.0%	$	7,308	
	Total of Section 1-7	$ 121,800 x	7.0%	= $	8,526	

TOTAL MINOR ITEMS **$ 8,600**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$ 130,400	x	10%	= $	13,040	

TOTAL ROADWAY MOBILIZATION **$ 13,100**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-
	*Cost of **NPDES** Supplemental Work specified in Section 5D*					= $	-
	Total Section 1-8	$ 130,400			4%	= $	5,216

TOTAL SUPPLEMENTAL WORK **$ 5,300**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	130,400		1%	= $	1,304

TOTAL STATE FURNISHED	$11,400

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$130,400	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$160,200	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD	$0

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	160,200	x	**30%**	=	$49,000

TOTAL CONTINGENCY*	$49,000

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (West Hazelton Avenue east of SR-4)

Project Description: Construction of sidewalks, asphalt path, crosswalks, and a raised island

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	305,600	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	305,600	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	326,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	326,000	*

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A

Number of Working Days = 50

Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	11,500
2	**Pavement Structural Section**	$	90,000
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	7,000
6	**Traffic Items**	$	73,800
7	**Detours**	$	-
8	**Minor Items**	$	12,800
9	**Roadway Mobilization**	$	19,600
10	**Supplemental Work**	$	7,900
11	**State Furnished**	$	12,000
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	71,000
	TOTAL ROADWAY ITEMS	**$**	**305,600**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	230	x	50.00	=	$	11,500
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 11,500

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	30	x	120.00	=	$	3,600
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	110	x	80.00	=	$	8,800
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF		x		=	$	-
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731519	Minor Concrete (Stamped Concrete)	CY	10	x	10.00	=	$	100
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY	10	x	750.00	=	$	7,500
731628A	County Curb and Gutter	CY	1,600	x	25.00	=	$	40,000
731630A	Curb Ramps	EA	6	x	5,000	=	$	30,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 90,000

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation	*$*	-

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation	*$*	-

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT		x		= $	-
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control	*$*	-

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES	*$*	*7,000*

TOTAL ENVIRONMENTAL	**$**	**7,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS	*$*	-

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
770090	Lighting (City Street)	LS	1	x	20,000.00	=	$	20,000
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ *20,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	2,480	x	1.50	=	$	3,720
840515	Thermoplastic Pavement Markings	SQFT	620	x	1.50	=	$	930

Subtotal Traffic Signing and Striping $ *3,720*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	50,000.00	=	$	50,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *50,000*

TOTAL TRAFFIC ITEMS **$ 73,800**

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 182,300

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items						
	ADA Items		1.0%	$	1,823	
8B - Bike Path Items						
	Bike Path Items			$	-	
8C - Other Minor Items						
	Other Minor Items		6.0%	$	10,938	
	Total of Section 1-7	$ 182,300 x	7.0%	= $	12,761	

TOTAL MINOR ITEMS **$ 12,800**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$ 195,100	x	10%	= $	19,510	

TOTAL ROADWAY MOBILIZATION **$ 19,600**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-
	*Cost of **NPDES** Supplemental Work specified in Section 5D*					= $	-
	Total Section 1-8	$ 195,100			4%	= $	7,804

TOTAL SUPPLEMENTAL WORK **$ 7,900**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	195,100		1%	= $	1,951

TOTAL STATE FURNISHED **$12,000**

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $195,100 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $234,600 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD **$0**

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	234,600	x	**30%**	=	$71,000

TOTAL CONTINGENCY* **$71,000**

PROJECT

PLANNING COST ESTIMATE ©

EA: N/A PID: A-20-230

EA: N/A

PID: A-20-230

District-County-Route: N/A

PM: N/A

Type of Estimate : Preliminary Programming Estimate

Program Code : Sustainable Communities Grant

Project Limits : In Boggs Tract in San Joaquin County (West Scotts Avenue between Ventura Avenue and Fresno Avenue)

Project Description: Construction of buffered paths, centerline, shared roadway pavement markings, and pedestrian crossings

Scope : ADA Facilities Upgrade and Complete Streets

Alternative : Alternative # 1

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$	168,300	
TOTAL STRUCTURES COST	$	-	
SUBTOTAL CONSTRUCTION COST	$	168,300	
TOTAL RIGHT OF WAY COST	$	20,000	
TOTAL CAPITAL OUTLAY COSTS	$	189,000	
PA/ED SUPPORT	$	-	
PS&E SUPPORT	$	-	
RIGHT OF WAY SUPPORT	$	-	
CONSTRUCTION SUPPORT	$	-	
TOTAL SUPPORT COST	$	-	

TOTAL PROJECT COST	$	189,000 *

Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)	10	/	2021
Estimated Construction Start (Month/Year)	N/A	/	N/A
Number of Working Days =	50		
Estimated Mid-Point of Construction (Month/Year)	N/A	/	N/A
Estimated Construction End (Month/Year)	N/A	/	N/A

Number of Plant Establishment Days (CD)

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	12,600
2	**Pavement Structural Section**	$	22,600
3	**Drainage**	$	-
4	**Specialty Items**	$	-
5	**Environmental**	$	9,600
6	**Traffic Items**	$	52,000
7	**Detours**	$	-
8	**Minor Items**	$	6,800
9	**Roadway Mobilization**	$	10,400
10	**Supplemental Work**	$	4,200
11	**State Furnished**	$	11,100
12	**Time-Related Overhead**	$	-
13	**Total Roadway Contingency**	$	39,000
	TOTAL ROADWAY ITEMS	**$**	**168,300**

Estimate Prepared By :	Justin Chan, EIT	10/13/2021	916-414-5800
	Name and Title	Date	Phone
Estimate Reviewed By :	Matthew Korve, PE	10/13/2021	916-414-5800
	Name and Title	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	180	x	50.00	=	$	9,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
210110	Imported Topsoil	CY	40	x	90.00	=	$	3,600

TOTAL EARTHWORK SECTION ITEMS $ 12,600

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404093	Seal Isolation Joint	LF		x		=	$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		=	$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		=	$	-
280010	Rapid Strength Concrete Base	CY		x		=	$	-
410095	Dowel Bar (Drill and Bond)	EA		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	130	x	120.00	=	$	15,600
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
260203	Class 2 Aggregate Base	CY	70	x	80.00	=	$	5,600
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
370001	Sand Cover (Seal)	TON		x		=	$	-
731530	Minor Concrete (Textured Paving)	CY		x		=	$	-
731502	Minor Concrete (Miscellaneous Construction)	CY		x		=	$	-
394073	Place Hot Mix Asphalt Dike (Type A)	LF	1,340	x	1.00	=	$	1,340
150771	Remove Asphalt Concrete Dike	LF		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
150860	Remove Base and Surfacing	CY		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
15312X	Remove Concrete	LF/CY/LS		x		=	$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		=	$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		=	$	-
731627	Minor Concrete (Curb, Gutter, Sidewalk and Dwy	CY		x		=	$	-
731628A	Concrete Pedestrian Landings	EA		x		=	$	-

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 22,600

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)		Cost
710132	Remove Culvert	LF		x	=	$	-
710240	Modify Inlet	EA		x	=	$	-
155232	Sand Backfill	CY		x	=	$	-
15020X	Abandon Culvert	EA/LF		x	=	$	-
152430	Adjust Inlet	LF		x	=	$	-
710262	Cap Inlet	EA		x	=	$	-
510501	Minor Concrete	CY		x	=	$	-
510094	Structural Concrete (Drainage Inlet)	CY		x	=	$	-
5105XX	Minor Concrete (Type XX)	CY		x	=	$	-
610108	18" Alternative Pipe Culvert	LF		x	=	$	-
6411XX	XX" Plastic Pipe	LF		x	=	$	-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF		x	=	$	-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		x	=	$	-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF		x	=	$	-
69011X	XX" Corrugated Steel Pipe Downdrain (0.XXX" Th	LF		x	=	$	-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF		x	=	$	-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF		x	=	$	-
705311	18" Alt Flared End Section	EA		x	=	$	-
703233	Grated Line Drain	LF		x	=	$	-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON		x	=	$	-
72901X	Rock Slope Protection Fabric (Class X)	SQYD		x	=	$	-
721420	Concrete (Ditch Lining)	CY		x	=	$	-
721430	Concrete (Channel Lining)	CY		x	=	$	-
750001	Miscellaneous Iron and Steel	LB		x	=	$	-
710150	Remove Inlet	EA		x	=	$	-

TOTAL DRAINAGE ITEMS $ -

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)		Cost
080050	Progress Schedule (Critical Path Method)	LS		x	=	$	-
582001	Sound Wall (Masonry Block)	SQFT		x	=	$	-
510530	Minor Concrete (Wall)	CY		x	=	$	-
15325X	Remove Sound Wall	LF/LS		x	=	$	-
070030	Lead Compliance Plan	LS		x	=	$	-
141120	Treated Wood Waste	LB		x	=	$	-
153221	Remove Concrete Barrier	LF		x	=	$	-
839752	Remove Guard Rail	LF		x	=	$	-
150668	Remove Flared End Section	EA		x	=	$	-
8000XX	Chain Link Fence (Type XX)	LF		x	=	$	-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA		x	=	$	-
832001	Metal Beam Guard Railing	LF		x	=	$	-
839301	Single Thrie Beam Barrier	LF		x	=	$	-
839310	Double Thrie Beam Barrier	LF		x	=	$	-
839521	Cable Railing	LF		x	=	$	-
8395XX	Terminal System (Type CAT)	EA		x	=	$	-
839585	Alternative Flared Terminal System	EA		x	=	$	-
839584	Alternative In-line Terminal System	EA		x	=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x	=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x	=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x	=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x	=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x	=	$	-
513553	Retaining Wall (Masonry Wall)	SQFT		x	=	$	-
511035	Architectural Treatment	SQFT		x	=	$	-
598001	Anti-Graffiti Coating	SQFT		x	=	$	-
203070	Rock Stain	SQFT		x	=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x	=	$	-
83954X	Transition Railing (Type X)	EA		x	=	$	-
597601	Prepare and Stain Concrete	SQFT		x	=	$	-
839561	Rail Tensioning Assembly	EA		x	=	$	-
83958X	End Anchor Assembly (Type X)	EA		x	=	$	-
833088	Tubular Hand Railing	LF		x	=	$	-
XXXXXX	Some Item	Unit		x	=	$	-

TOTAL SPECIALTY ITEMS $ -

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
130670	Temporary Reinforced Silt Fence	LF		x		= $	-
141000	Temporary Fence (Type ESA)	LF		x		= $	-
					Subtotal Environmental Mitigation		*$ -*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
20XXXX	Highway Planting	LS		x		= $	-
20XXXX	Irrigation System	LS		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment Work	LS		x		= $	-
20XXXX	Follow-up Landscape Project	LS		x		= $	-
150685	Remove Irrigation Facility	LS		x		= $	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS		x		= $	-
206400	Check and Test Existing Irrigation Facilities	LS		x		= $	-
21011X	Imported Topsoil (X)	CY/TON		x		= $	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD		x		= $	-
200122	Weed Germination	SQYD		x		= $	-
208304	Water Meter	EA		x		= $	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF		x		= $	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF		x		= $	-
204002A	Landscaping	CF		x		= $	-
					Subtotal Landscape and Irrigation		*$ -*

5C - EROSION CONTROL

Item code		Unit	Quantity		Unit Price ($)		Cost
210010	Move In/Move Out (Erosion Control)	EA		x		= $	-
210350	Fiber Rolls	LF		x		= $	-
210360	Compost Sock	LF		x		= $	-
2102XX	Rolled Erosion Control Product (X)	SQFT		x		= $	-
21025X	Bonded Fiber Matrix	QFT/ACRE		x		= $	-
210300	Hydromulch	SQFT		x		= $	-
210420	Straw	SQFT		x		= $	-
210430	Hydroseed	SQFT	2,580	x	1.00	= $	2,580
210600	Compost	SQFT		x		= $	-
210630	Incorporate Materials	SQFT		x		= $	-
					Subtotal Erosion Control		*$ 2,580*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
130300	Prepare SWPPP	LS		x		= $	-
130200	Prepare WPCP	LS	1	x	2,000.00	= $	2,000
130100	Job Site Management	LS	1	x	5,000.00	= $	5,000
130330	Storm Water Annual Report	EA		x		= $	-
130310	Rain Event Action Plan (REAP)	EA		x		= $	-
130320	Storm Water Sampling and Analysis Day	EA		x		= $	-
130520	Temporary Hydraulic Mulch	SQYD		x		= $	-
130550	Temporary Hydroseed	SQYD		x		= $	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA		x		= $	-
130640	Temporary Fiber Roll	LF		x		= $	-
130900	Temporary Concrete Washout	LS		x		= $	-
130710	Temporary Construction Entrance	EA		x		= $	-
130610	Temporary Check Dam	LF		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
130730	Street Sweeping	LS		x		= $	-
					Subtotal NPDES		*$ 7,000*

TOTAL ENVIRONMENTAL	**$**	**9,600**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item	LS		x		= $	-
					Subtotal Supplemental Work for NDPS		*$ -*

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
		LS		x		=	$	-
870200	Lighting System	LS		x		=	$	-
870400	Signal and Lighting System	LS		x		=	$	-
870700	Flashing Beacon System	LS		x		=	$	-
86070X	Interconnection Conduit and Cable	LF/LS		x		=	$	-
5602XX	Furnish Sign Structure (Type X)	LB		x		=	$	-
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
15075X	Remove Sign Structure	EA/LS		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
860090	Maintain Existing Traffic Management System Elements During Construction	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
86xxxx	Irrigation Controller	LS		x		=	$	-

Subtotal Traffic Electrical $ -

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
566011	Roadside Sign - One Post	EA		x		=	$	-
566012	Roadside Sign - Two Post	EA		x		=	$	-
5602XX	Furnish Sign	SQFT		x		=	$	-
568016	Install Sign Panel on Existing Frame	SQFT		x		=	$	-
150711	Remove Painted Traffic Stripe	LF		x		=	$	-
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF		x		=	$	-
150712	Remove Painted Pavement Marking	SQFT		x		=	$	-
150742	Remove Roadside Sign	EA		x		=	$	-
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF		x		=	$	-
846012	Thermoplastic Crosswalk and Pavement Marking (Enhanced Wet Night Visibility)	SQFT		x		=	$	-
120090	Construction Area Signs	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LS		x		=	$	-
840500A	Pavement Delineation	LF	1,290	x	1.50	=	$	1,935
840515	Thermoplastic Pavement Markings	SQFT	70	x	1.50	=	$	105

Subtotal Traffic Signing and Striping $ 1,935

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ -

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	50,000.00	=	$	50,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF		x		=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ 50,000

TOTAL TRAFFIC ITEMS $ 52,000

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
190101	Roadway Excavation	CY		x		= $	-
19801X	Imported Borrow	CY/TON		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
26020X	Class 2 Aggregate Base	TON/CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
130620	Temporary Drainage Inlet Protection	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
128601	Temporary Signal System	LS		x		= $	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		= $	-
80010X	Temporary Fence (Type X)	LF		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS **$ -**

SUBTOTAL SECTIONS 1 through 7 $ 96,800

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items					
ADA Items			1.0%	$	968
8B - Bike Path Items					
Bike Path Items				$	-
8C - Other Minor Items					
Other Minor Items			6.0%	$	5,808
Total of Section 1-7	$	96,800	x 7.0%	= $	6,776

TOTAL MINOR ITEMS **$ 6,800**

SECTIONS 9: ROADWAY MOBILIZATION

Item code							
999990	Total Section 1-8	$	103,600	x 10%	= $	10,360	

TOTAL ROADWAY MOBILIZATION **$ 10,400**

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066070	Maintain Traffic	LS		x		= $	-
066919	Dispute Resolution Board	LS		x		= $	-
066921	Dispute Resolution Advisor	LS		x		= $	-
066015	Federal Trainee Program	LS		x		= $	-
066610	Partnering	LS		x		= $	-
066204	Remove Rock and Debris	LS		x		= $	-
066222	Locate Existing Crossover	LS		x		= $	-
XXXXXX	Some Item	Unit		x		= $	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	103,600	4%	= $	4,144

TOTAL SUPPLEMENTAL WORK **$ 4,200**

SECTION 11: COUNTY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS	1	x	10,000.00	=	$10,000
066901	Water Expenses	LS		x		=	$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	$0
066841	Traffic Controller Assembly	LS		x		=	$0
066840	Traffic Signal Controller Assembly	LS		x		=	$0
066062	COZEEP Contract	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066065	Tow Truck Service Patrol	LS		x		=	$0
066916	Annual Construction General Permit Fee	LS		x		=	$0
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	103,600		1%	= $	1,036

TOTAL STATE FURNISHED **$11,100**

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $103,600 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $129,300 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD		X	#DIV/0!	=	$0

TOTAL TIME-RELATED OVERHEAD **$0**

SECTION 13: ROADWAY CONTINGENCY

Total Section 1-12	$	129,300	x	**30%**	=	$39,000

TOTAL CONTINGENCY* **$39,000**

Boggs Tract Sustainable Community Plan

SR-4 Community Space - Phase 1

Between Los Angeles Avenue and Fresno Avenue

Preliminary Cost Estimate

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	**Rough Grading**	3.575	AC	$9,000.00	$32,175
2	**Fine Grading**	3.575	AC	$8,000.00	$28,600
3	**Finish Grading**	3.575	AC	$6,000.00	$21,450
4	**Metal Fencing**	2,580	LF	$20.00	$51,600
5	**Gates**	2	EA	$2,500.00	$5,000
6	**Water Main Extension (Irrigation, Drinking Fountains)**	150	LF	$75.00	$11,250
7	**Water Meters (Irrigation and Plumbing Water)**	1	EA	$15,000.00	$15,000
8	**Luminaires**	15	EA	$2,500.00	$37,500
9	**Play Area 1**				
	Poured-in-Place Rubber Surface	23,000	SQFT	$8.00	$184,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Workout Station Equipment	1	EA	$2,000.00	$2,000
	Playground Equipment	1	EA	$10,000.00	$10,000
	Bench	2	EA	$1,000.00	$2,000
10	**Nature Play Area**				
	Irrigation	5,300	SQFT	$1.50	$7,950
	Landscaping (Native, Drought Resistant, Fire Resistant)	5,300	SQFT	$12.00	$63,600
	Mulch (1/3 of Landscaped Areas)	1,770	SQFT	$0.80	$1,416
	Workout Station Equipment	1	EA	$2,000.00	$2,000
11	**Multi-Use Community Area**				
	Concrete Paving	30,350	SQFT	$10.00	$303,500
	Shade Sail	1	EA	$15,000.00	$15,000
	Amphitheatre Seating - Concrete	1	EA	$76,000.00	$76,000
	Workout Station Equipment	1	EA	$2,000.00	$2,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
12	**Native Area Around Bioswale**				
	Irrigation	30,200	SQFT	$1.50	$45,300
	Hydroseeding (Native, Drought Resistant, Fire Resistant)	1	AC	$8,000.00	$5,520
	Child-proof fencing	500	LF	$20.00	$10,000
13	**Vegetated Bioretention Basin**				
	Irrigation	24,000	SQFT	$1.50	$36,000
	Landscaping (Native, Drought Resistant, Fire Resistant)	24,000	SQFT	$12.00	$288,000
	Mulch (1/3 of Landscaped Areas)	8,000	SQFT	$0.80	$6,400
14	**Bioswale 1 to Basin**				
	Irrigation	2,150	SQFT	$1.50	$3,225
	Landscaping (Native, Drought Resistant, Fire Resistant)	2,150	SQFT	$12.00	$25,800
	Mulch (1/3 of Landscaped Areas)	720	SQFT	$0.80	$576
15	**Bioswale 2 to Basin**				
	Irrigation	3,850	SQFT	$1.50	$5,775
	Landscaping (Native, Drought Resistant, Fire Resistant)	3,850	SQFT	$12.00	$46,200
	Mulch (1/3 of Landscaped Areas)	1,280	SQFT	$0.80	$1,024

Boggs Tract Sustainable Community Plan

SR-4 Community Space - Phase 1

Between Los Angeles Avenue and Fresno Avenue

Preliminary Cost Estimate

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Play Area 2				
16	Concrete Paving	2,100	SQFT	$10.00	$21,000
	Playground Equipment	1	EA	$10,000.00	$10,000
17	**Multi-Use Promenade for Bike and Ped**	18,000.000	SQFT	$10.00	$180,000
	Gated Dog Park				
	Irrigation	16,700	SQFT	$1.50	$25,050
18	Hydroseeding (Native, Drought Resistant, Fire Resistant)	0.38	AC	$8,000.00	$3,040
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Bench	2	EA	$1,000.00	$2,000
	Green Multi Age Play Area				
	Irrigation	33,300	SQFT	$1.50	$49,950
	Hydroseeding (Native, Drought Resistant, Fire Resistant)	0.57	AC	$8,000.00	$4,560
19	Landscaping (Native, Drought Resistant, Fire Resistant)	8,325	SQFT	$12.00	$99,900
	Mulch (1/3 of Landscaped Areas)	2,775	SQFT	$0.80	$2,220
	Tall Metal Fencing (to prevent balls from flying outside)	160	LF	$25.00	$4,000
	Workout Station Equipment	2	EA	$2,000.00	$4,000
	Park Sign and Vegetation				
	Irrigation	5,300	SQFT	$1.50	$7,950
20	Landscaping (Native, Drought Resistant, Fire Resistant)	5,300	SQFT	$12.00	$63,600
	Mulch (1/3 of Landscaped Areas)	1,770	SQFT	$0.80	$1,416
	Signage	1	EA	$500.00	$500
	Restrooms 1				
21	Wet Prefab Restroom - 2 stalls (Men, Women)	1	EA	$200,000.00	$200,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Sewer Extension	180	LF	$100.00	$18,000
				Subtotal	**$2,059,047**
			25%	**Contingency**	**$514,762**
				TOTAL CONSTRUCTION COST	**$2,574,000**

Support Costs

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
22	**Preliminary and Final Design, Environmental Permitting**	1	LS	$643,500.00	$643,500
23	**Bidding Support, DSDC, and Construction Administration**	1	LS	$386,100.00	$386,100
				TOTAL SUPPORT COST	**$1,030,000**
				TOTAL PROJECT COST	**$3,604,000**

PREPARED BY: JJ **CHECKED BY:** GS
Date Prepared: 1/19/2022 **Date Checked: 1/25/2022**

Boggs Tract Sustainable Community Plan

SR-4 Community Space - Phase 2

Between Ventura Avenue and Los Angeles Avenue

Preliminary Cost Estimate

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	**Rough Grading**	3.575	AC	$9,000.00	$32,175
2	**Fine Grading**	3.575	AC	$8,000.00	$28,600
3	**Finish Grading**	3.575	AC	$6,000.00	$21,450
4	**Metal Fencing**	2,580	LF	$20.00	$51,600
5	**Gates**	2	EA	$2,500.00	$5,000
6	**Water Main Extension (Irrigation, Drinking Fountains)**	150	LF	$75.00	$11,250
7	**Water Meters (Irrigation and Plumbing Water)**	1	EA	$15,000.00	$15,000
8	**Luminaires**	15	EA	$2,500.00	$37,500
9	**Multi-Use Promenade for Bike and Ped**	18,000	SQFT	$10.00	$180,000
10	**Native Plant Garden 1**				
	Irrigation	8,400	SQFT	$1.50	$12,600
	Landscaping (Native, Drought Resistant, Fire Resistant)	8,400	SQFT	$12.00	$100,800
	Mulch (1/3 of Landscaped Areas)	2,800	SQFT	$0.80	$2,240
	Stabilized DG Paving w/Weed Fabric and Chicken Wire	1,100	SQFT	$5.00	$5,500
	Signage	15	EA	$500.00	$7,500
11	**Play Area 3**				
	Concrete Paving	22,650	SQFT	$10.00	$226,500
	Playground Equipment	1	EA	$10,000.00	$10,000
	Tall Metal Fencing (to prevent balls from flying outside)	400	LF	$25.00	$10,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Workout Station Equipment	2	EA	$2,000.00	$4,000
	Bench	2	EA	$1,000.00	$2,000
12	**Parking Area**				
	Concrete Paving	13,550	SQFT	$10.00	$135,500
	Striping	1	LS	$10,000.00	$10,000
13	**Native Plant Garden 2**				
	Irrigation	5,000	SQFT	$1.50	$7,500
	Landscaping (Native, Drought Resistant, Fire Resistant)	5,000	SQFT	$12.00	$60,000
	Mulch (1/3 of Landscaped Areas)	1,670	SQFT	$0.80	$1,336
	Stabilized DG Paving w/Weed Fabric and Chicken Wire	1,000	SQFT	$5.00	$5,000
	Signage	15	EA	$500.00	$7,500
14	**Restrooms 2**				
	Wet Prefab Restroom - 2 stalls (Men, Women)	1	EA	$200,000.00	$200,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Sewer Extension	180	LF	$100.00	$18,000
15	**Formal Garden**				
	Irrigation	16,600	SQFT	$1.50	$24,900
	Landscaping (Native, Drought Resistant, Fire Resistant)	16,600	SQFT	$12.00	$199,200
	Mulch (1/3 of Landscaped Areas)	5,530	SQFT	$0.80	$4,424
	Stabilized DG Paving w/Weed Fabric and Chicken Wire	2,000	SQFT	$5.00	$10,000
16	**Concrete Multi Use Play Area**				
	Concrete Paving	26,350	SQFT	$10.00	$263,500
	Tall Metal Fencing (to prevent balls from flying outside)	400	LF	$25.00	$10,000
	Drinking Fountain	1	EA	$4,000.00	$4,000
	Workout Station Equipment	1	EA	$2,000.00	$2,000
17	**Community Grazing Area**				
	Irrigation	24,750	SQFT	$1.50	$37,125
	Hydroseeding (Native, Drought Resistant, Fire Resistant)	1	AC	$8,000.00	$4,560
				Subtotal	**$1,776,260**
				25% Contingency	**$444,065**
				TOTAL CONSTRUCTION COST	**$2,221,000**

Support Costs

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
18	**Preliminary and Final Design, Environmental Permitting**	1	LS	$555,250.00	$555,250
19	**Bidding Support, DSDC, and Construction Administration**	1	LS	$333,150.00	$333,150
				TOTAL SUPPORT COST	**$889,000**
				TOTAL PROJECT COST	**$3,110,000**

PREPARED BY: JJ **CHECKED BY:** GS
Date Prepared: 1/19/2022 **Date Checked: 1/25/2022**