

CITY OF CAPITOLA

STOCKTON AVENUE BRIDGE PROJECT

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Project Number: 2300338.10

Jessica Kahn
Public Works Director
City of Capitola
420 Capitola Avenue
Capitola, CA 95010

SUBJECT: STOCKTON AVENUE BRIDGE PROJECT

Dear Jessica:

The low-lying Capitola Village is a cultural and business center for Capitola. The flood risk debris build up at the Stockton Creek Bridge could be catastrophic to the area. The CSWST2 team presents our proposal to assist the City and community in assessing the historic bridge as a countermeasures and safeguarded this vital transportation asset.

Stockton Avenue Bridge is located in the lower reaches of the Soquel Creek Watershed, which is situated between the cities of Santa Cruz and Watsonville. The Soquel Creek watershed drains an area of approximately 42 square miles. The watershed is comprised of urban development, rural residential development, agriculture, parks and recreation, and mining and timber harvesting. The Village, a cultural and business center in Capitola, is located at the terminus of Soquel Creek, where it enters the Pacific Ocean.



Aerial photograph of Soquel Creek and Stockton Avenue Bridge

Besides State Route 1 Bridge, Stockton Avenue Bridge is the only connection linking east and west Capitola and serves as the primary evacuation route for the low-lying Capitola Village. In addition, the finish line of the popular Wharf to Wharf race is located across the bridge at the Capitola in the Village. Heavy storms that occurred in January 2023 illustrated the increased intensity or rain events occurring as a result of climate change.

In June of 2024 CSWST2 issued the Stockton Avenue Bridge – Bridge Pier Debris Mitigation Feasibility Report that assessed the following counter measures to mitigate the debris risk: debris fins, debris deflectors, debris sweepers and bridge replacement. During the March 2026 City Council Meeting, City staff was directed to utilize the remaining available grant funds to advance the analysis of Stockton Avenue Bridge via the following motion:

"Motion to direct staff to return as soon as possible with a proposed contract to evaluate options for future work on the Stockton Avenue Bridge to include the following: 1) The contract shall provide the City Council with preliminary plans and analysis for multiple bridge replacement options. These options shall include variations in bridge style, width, and constructability, along with associated cost estimates, potential grant opportunities, anticipated construction timelines, environmental constraints, permitting requirements, and historical analysis. 2) The contract shall also include evaluation of bridge retrofit and/or bridge deck replacement alternatives. These alternatives shall include the same level of information provided for the replacement options, as well as estimates of the expected service life for each alternative. 3) The contract shall allow the City Council to review the alternatives and either select a preferred option and authorize preparation of final engineered plans, or discontinue further work under the contract. 4) At the time these bridge alternatives are presented, staff shall also provide the City Council with a realistic plan for evaluating the Capitola Trestle for potential use as a pedestrian and bicycle route during bridge construction, in order to help mitigate impacts to Capitola Village during the construction period. 5) Verify this approach will satisfy the requirements of the grant received for bridge work. 6) Provide City Council and the public with a long-term plan for project development and implementation. 7) Include a traffic flow chart"

We have assembled the following team to support the City in this goal:

- Robert Stevens of CSWST2 will be the principal for the project. Robert led our San Mateo County bluff stabilization and bridge project and has secured CDPs up and down the coastline.
- Julia Harberson of CSWST2 will be the project manager responsible for implementing the work plan and managing the team to seek consensus on design. She is an experienced hydraulics engineer that has worked with FEMA to develop flood control projects throughout the Bay Area.
- Tom Swayze of Biggs Cardosa will be our structural engineer leading our bridge design. Tom was the original engineer for the wall along Cliff Drive and has collaborated with Robert and Julia on our projects in San Mateo County.
- Kristine Pillsbury of CSWST2, will be our Hydraulics Engineer responsible for evaluating creek capacity. She is experienced at modelling open channel flow using HEC RAS and evaluation hydrologic with HEC-HMS.
- Jeanine Ruffoni, PE, GE, of Engeo will be leading our geotechnical evaluation for this project. She has worked on hundreds of relevant projects including investigations of bay and ocean sites, wetlands, and creek and bay channels.

- Matt Johnson and his team from DDA Planning will lead our environmental permitting process.
- Erin Ferguson and her team from Fehr & Peers will lead the traffic analysis.
- Anrea Galvin, of GPA Consultants will provide Historic Architectural services.

We are prepared to support the Capitola community in evaluating alternatives and advancing the Stockton Avenue Bridge project. Consistent with the City Council's direction, the remaining grant funding is sufficient to complete Tasks 1 through 3 of the attached Work Plan, which will establish the project purpose and need, collect and evaluate existing conditions, and complete the technical studies necessary to identify project deficiencies and constraints. These tasks will provide the City Council with the information needed to evaluate bridge replacement, rehabilitation, and retrofit alternatives.

Task 4 represents the culmination of the Council's motion and will synthesize the technical findings into a comprehensive alternatives analysis and Advance Planning Study, including evaluation of replacement and retrofit options, consideration of the Capitola Trestle as a temporary pedestrian and bicycle connection during construction, a recommended preferred alternative, verification of grant compliance, a project development roadmap, and a traffic flow assessment. Following presentation of the findings from Tasks 1 through 3 to the City Council, Task 4 can be authorized as the next phase of work at the Council's discretion.

Should the City elect to continue project development, Tasks 5 and 6 would complete the preliminary engineering phase of the project, including environmental clearance, permitting, and advancement of the preferred alternative through approximately 35 percent design. These efforts would position the project to compete for state and federal funding opportunities and advance toward final design and construction. We have developed the attached Work Plan to be consistent with Caltrans standards and funding requirements to support the City's efforts to secure future implementation funding. In our experience we have developed the following Work Plan, Fee and Schedule.

Thank you for the opportunity to support the development of the project. We look forward to working with you and your team. If I can provide any additional information, please contact me at (415) 884-6443 or by email at juliah@cswst2.com.

Sincerely,
CSWST2

Julia Harberson, R.C.E. No. 76626
Principal

WORK PLAN

PROJECT PHASING AND AUTHORIZATION

The scope of work is organized into two phases.

Phase 1 Current Authorization (Tasks 1–3): The currently available grant funding is sufficient to complete Tasks 1 through 3. These tasks establish the purpose and need, document existing conditions, complete technical studies, identify deficiencies and constraints, and provide the information necessary for City Council to evaluate potential bridge rehabilitation, retrofit, and replacement alternatives.

Phase 2 Future Council Authorization (Tasks 4–6): Tasks 4 through 6 are not included in the current authorization and are presented for planning purposes only. Upon completion of Tasks 1 through 3 and presentation of findings to the City Council, the Council may elect to authorize Task 4 (Alternatives Analysis and Advance Planning Study). Following completion of Task 4 and selection of a preferred alternative, the Council may separately authorize Tasks 5 and 6 to complete environmental clearance, permitting, and preliminary engineering through approximately 35 percent design.

PHASE 1

TASK 1 – PROJECT INITIATION & SCOPING (PID / PROJECT DEFINITION)

Goal: Establish purpose and need, funding pathway, and baseline scope.

- **1.1 Project Kickoff & Coordination.** Key members of our team will host a meeting with City staff, Caltrans District Local Assistance and stakeholders. The goal of the meeting will be to confirm project goals, schedule, and budget, funding strategy (HBP/BIP/other federal programs), required Caltrans deliverables (PID/PSR-PDS/PEAR/PES as applicable).
- **1.2 Purpose & Need Development.** Our team will meet with the City to finalize the logical termini and project limits and define the deficiencies to be analyzed. We will prepare a Project Charter / Initial Project Definition Memorandum. These deficiencies could include the following:
  - **A.** Structural condition (from inspection reports)
  - **B.** Seismic vulnerability
  - **C.** Hydraulic/scour risk
  - **D.** Functional obsolescence (width, geometrics)
- **1.3 Stakeholder & Outreach Strategy.** Our team will develop an outreach strategy that establishes the project's messaging, key stakeholders, and engagement methods and tools. The strategy may include establishing and updating a project website, small-group stakeholder meetings with adjacent property owners and any other groups identified with City staff, and two on-site pop-up engagement events at the project site. The strategy will address messaging that is aligned with funding priorities (i.e. safety, resilience, equity).
- **1.4 Contract Management.** CSWST2 will be responsible for the overall management of our design team, including the following:

A. Project Management: CSWST2 will manage the design team as well as track progress, schedule, and budget. We will be responsible for documenting all design decisions and keeping an official record of the project. Furthermore, we will submit monthly progress reports identifying tasks completed, budget status, and issues status.

B. Quality Control/ Assurance: As part of the QA/QC process, an independent member of the design team will complete an internal review of our documents checking for errors, perform a constructability review. Our independent QA/QC reviews will occur at the 35%, 65% and 95% PS&E submittals in parallel with the City review process.

C. Meetings: The team will attend up to three (3) meetings during this phase of work.

Task 1 Deliverable:

- Project Charter / Initial Project Definition (PID framework)

TASK 2 – DATA COLLECTION & EXISTING CONDITIONS

Goal: Develop complete technical baseline for analysis.

2.1 Data Collection and Field Review. To support the design effort and refine the extent of technical studies required, our team will complete the following:

A. **Data Collection.** The team will collect and review the following documents:

i. As-Built Records
ii. Previous Environmental Technical Analysis and Documents
iii. Relevant Information from Online Databases
iv. Records from Information Centers
v. Area of Potential Effects (APE) Mapping

B. **Field Investigations.** To support the assessment of existing bridge conditions, our team will perform the following:

i. **Bridge Condition Assessment.** This scope has already been completed.
ii. **Utility Observations.** This scope has already been completed.
iii. **Existing Conditions Mapping.** Our team will complete a survey of the Stockton Avenue Bridge to support the final design process. This will include the following tasks.

a. **Survey:** Our team will perform a topographic survey, which generally will include back of curb, face of curb, street centerline, top of bank, abutments, edge of pavement, and surface utilities. We will depict drainage patterns with spot elevations and contour data at 1-foot intervals.

b. **Prepare Base Map:** CSWST2 will develop a detailed base map integrating topography, boundary, and utility information.

C. **Traffic Data Collection.** Fehr and Peers will collect existing traffic data. The data collected will include:

i. **Vehicular Traffic:** Average Daily Traffic (ADT), Peak hour turning movement counts, Directional distribution, Truck percentages

ii. **Multimodal Data:** Bicycle volumes, Pedestrian activity, Transit routes and stops, School routes and recreational access

iii. **Safety Data:** Collision history review (5-year minimum), SWITRS data evaluation, Identification of collision patterns and safety deficiencies

iv. **Emergency Access:** Coordination with emergency responders and Identification of emergency access constraints during construction

D. **Geotechnical Investigations.** ENGEO will perform a preliminary geotechnical investigation to assess the necessary design criteria for a new foundation to support the bridge and evaluate range of potential capacity of the existing foundation system if the bridge were to remain. ENGEO will retain the services of a subcontractor to push two cone penetration tests (CPTs) to depths up to 100 feet below the ground surface, or refusal, whichever occurs first. ENGEO will collect shear wave velocity measurements at intervals of every 5 vertical feet. ENGEO will retain traffic control services to guide traffic during CPT operations. ENGEO will perform preliminary analyses and prepare a Preliminary Foundation Report that conforms to Caltrans requirements. ENGEO will prepare a single version of the report. The report will be signed by a licensed California Geotechnical Engineer and California Certified Engineering Geologist.

E. **Historic Architect Site Visit.** GPA will conduct a site visit to photograph the bridge and surrounding properties to identify any known or potential historic properties in the APE. Potential historic properties are those with buildings or structures over 45 years of age. Known historic properties are those that are listed or have been determined eligible for listing under the local, state, or federal landmark and historic district programs (including the bridge). Digital photographs will be taken during the field survey. All photographs will be taken from the public right-of-way, unless property access is granted in advance.

2.2 Utility Agency Coordination. The project team will perform a preliminary utilities assessment to identify existing public and private utility infrastructure that may be affected by the proposed bridge rehabilitation or replacement alternatives. This task will include a review of utility records, as-built drawings, field observations, and available mapping to identify overhead and underground facilities, bridge-mounted utilities, drainage infrastructure, and service connections within the project corridor. The team will coordinate with utility providers and the City to evaluate potential utility conflicts, relocation requirements, protection measures, service continuity considerations, and construction constraints associated with each alternative. The assessment will support project planning,

risk evaluation, cost estimating, environmental documentation, and preliminary design development.

2.3 Bridge Condition Assessment Report & Basis of Design Memorandum

A. **Draft.** CSWST2 and BCA will prepare a draft Bridge Condition Report and Preliminary Basis of Design Memorandum. Field Assessment observation results from the interior of the bridge superstructure will be incorporated along with the deck repair recommendations in the Caltrans Bridge Inspection Reports. Report to include Site Photos, relevant Bridge Inspection Reports, and Key Plan of damage locations, design criteria assumptions, constraints and opportunities, and preliminary repair vs. replacement triggers.

B. **Final.** We will address one round of comments and questions by the City and provide a final Bridge Condition Report and Basis of Design Memorandum.

2.4 City Council Update. CSWST2 and BCA will meet with the City Council to provide an update on findings from the Data Collection and Existing Conditions Phase.

2.5 Contract Management. We will perform the tasks outlined in Task 1.4. We anticipate three (3) meetings during this phase of work.

Task 2 Deliverables:

- Topographic Survey Map
- Draft and Final Bridge Conditions Assessment Report & Preliminary Basis of Design Memorandum
- Preliminary Foundation Report.
- Utility Conflict Matrix
- Meeting agendas, presentation, and minutes.

TASK 3 – TECHNICAL STUDIES & DEFICIENCY ANALYSIS

Goal: Quantify deficiencies and constraints that drive alternatives.

3.1 Structural Evaluation. BCA will perform a structural evaluation of the existing Stockton Avenue Bridge to identify structural deficiencies, repair needs, service-life considerations, and factors influencing rehabilitation versus replacement alternatives. The evaluation will build upon available bridge inspection reports, as-built information, field assessment findings, and the Bridge Condition Assessment Report prepared under Task 2.3. The evaluation will include the following:

A. Condition-based assessment

B. Load rating review (if needed)

C. Remaining service life estimate

3.2 Historic Architectural Assessment Reports (HPSR/HRER). GPA will conduct outreach to potentially interested members of the public in accordance with established Caltrans Section 106 procedures. GPA will provide a correspondence log for inclusion in the HPSR. GPA will prepare the draft and final HPSR and incorporate the results of the Archaeological Survey Report (ASR) prepared by Albion. GPA will incorporate comments received from the interested parties outreach and built-environment resources in the APE.

- **A.** **Archaeological Survey and APE Support.** Denise Duffy & Associates (DDA) has engaged Albion to support preparation of the Historic Property Survey Report (HPSR) by conducting an archaeological records search, developing the archaeological Area of Potential Effects (APE), preparing APE mapping and GIS shapefiles, conducting an archaeological field survey, and preparing an Archaeological Survey Report (ASR) in accordance with Caltrans and Section 106 requirements. Albion will provide the records search results, APE mapping, GIS data, and ASR findings to GPA for incorporation into the HPSR and related cultural resources documentation.

3.3 Preliminary Bridge Hydrology and Hydraulics Report. CSWST2 will prepare a draft hydrology and hydraulics report assessing existing bridge conditions and bridge replacement alternatives on Soquel Creek. The report will include the following:

- **A.** Hydraulic capacity
- **B.** Analysis methodology
- **C.** Debris mitigation
- **D.** Storm selection.
- **E.** Freeboard
- **F.** Scour

3.4 Seismic Screening. BCA will perform a planning-level seismic screening of the existing bridge to identify seismic vulnerabilities and determine how seismic performance may influence rehabilitation, retrofit, or replacement alternatives. The screening will be based on available as-built plans, bridge inspection records, field assessment findings, geotechnical information, and applicable Caltrans seismic design guidance. The evaluation will include the following:

- **A.** Caltrans SDC-based evaluation
- **B.** Retrofit vs. replacement triggers

3.5 Traffic & Operations. The team will evaluate existing transportation operations within the bridge corridor and adjacent intersections. The analysis will address the following:

- **A.** Lane configuration adequacy
- **B.** Intersection operations
- **C.** Queueing observations
- **D.** Sight distance review
- **E.** Pedestrian and bicycle conflicts
- **F.** Freight movement considerations

3.6 Detour & Closure Analysis. The team will evaluate temporary bridge closure scenarios associated with rehabilitation and replacement alternatives. The analysis will include:

- **A.** Identification of feasible detour routes
- **B.** Emergency response implications
- **C.** School and transit impacts
- **D.** Freight routing impacts
- **E.** Estimated detour travel times and user delay

3.7 Environmental Constraints (Planning-Level). DDA will prepare an environmental constraints memorandum. The memorandum will address biological resources, cultural resources, hazardous materials screening and permitting complexity risk.

3.8 Outreach.

- **A.** **Engagement Toolkit.** CSWST2 will build the engagement toolkit, anticipated to include branding, project website, QR code, key messaging and project description, schedule graphic, and mailer template.
- **B.** **Stakeholder Meeting.** CSWST2 will coordinate and facilitate a meeting with the local business community to gather initial feedback on the project purpose, goals, and schedule

3.9 Council Presentation. CSWST2 and BCA will present the findings of the technical studies and deficiency analysis to the City Council and receive direction.

3.10 Contract Management. We will perform the tasks outlined in Task 1.4. We anticipate three (3) meetings during this phase of work.

Task 3 Deliverables:

- Structural Evaluation Report
- Preliminary Hydraulics Report
- Existing Traffic Operations Technical Memorandum
- Construction Detour & Access Assessment Memorandum
- Environmental Constraints Memorandum
- Archaeological Survey Report
- Draft and Final HPSR

PHASE 2

TASK 4 – ALTERNATIVES ANALYSIS & ADVANCE PLANNING STUDY (APS / PID)

Goal: Evaluate repair vs. replacement and select preferred alternative. Note, Task 4 is not included in the current authorization. This task may be initiated only upon direction from the City Council following completion of Tasks 1 through 3 and presentation of the technical study findings.

4.1 Develop Alternatives. The project team will develop and evaluate a range of feasible rehabilitation and replacement alternatives for the existing bridge to address identified structural, hydraulic, seismic, operational, and multimodal deficiencies while supporting future federal funding eligibility and environmental clearance. Alternatives will include a No-Build Alternative, rehabilitation concepts, and full replacement concepts with varying bridge types, span arrangements, foundation systems, and construction staging approaches.

4.2 Alternatives Evaluation. Each alternative, developed in Task 4.1, will be evaluated based on the following:

- **A.** Structural performance & service life
- **B.** Seismic performance
- **C.** Hydraulic performance
- **D.** Constructability/staging
- **E.** Environmental impacts
- **F.** Alternative Transportation Operations Evaluation. The team will assess transportation impacts associated with each bridge alternative developed during the Advance Planning Study phase. Evaluation Criteria will include:
  - i. Vehicular capacity
  - ii. Bicycle and pedestrian accommodation
  - iii. ADA compliance
  - iv. Emergency access
  - v. Traffic calming opportunities
  - vi. Complete Streets consistency
  - vii. Compatibility with local and regional plans
- **G.** Cost (capital + lifecycle)
- **H.** Risk

4.3 Bridge Advance Planning Study (APS). BCA will develop an Advance Planning Study for bridge selection report. The study will provide for up to two replacement structure alternatives and two retrofit structure alternatives for recommendation. Coordination with Caltrans Structures Local Assistance is not included in the APS phase. The report will include the following:

- **A.** Project Overview
- **B.** Design Criteria
- **C.** Provides structure depth setting profile
- **D.** Alternatives Analysis and Recommendations
- **E.** Spans, width, depth, and type
- **F.** Bridge rail type
- **G.** Foundation types
- **H.** Vertical clearance
- **I.** Aesthetics and Historic Status
- **J.** Bridge removal, stage Construction
- **K.** Location of cut and fill slopes
- **L.** Stationing for roadway

M. Corrosion control measures

4.4 Recommended Alternative. Based on the results of the alternatives analysis, technical evaluations, stakeholder coordination, environmental considerations, and planning-level cost assessments, the project team will identify and recommend a preferred alternative for advancement into environmental clearance and preliminary engineering. The recommended alternative will be selected based on its ability to best satisfy the project Purpose and Need while balancing structural performance, hydraulic capacity, seismic resilience, multimodal access, constructability, environmental impacts, maintenance requirements, lifecycle cost, and overall project risk. The team will document the justification for selection of the preferred alternative, including a comparative evaluation of alternatives considered, key decision factors, and anticipated project benefits. The recommended alternative will also be evaluated for consistency with Caltrans standards and federal funding priorities, including improvements to safety, infrastructure resilience, emergency access, system reliability, and long-term asset sustainability. The preferred alternative and supporting rationale will be documented in the Advance Planning Study and used as the basis for subsequent environmental documentation, funding applications, and 35% preliminary design development.

4.5 Funding & Programming Support. The project team will support the City in advancing the project for state and federal funding opportunities and regional transportation programming. This task will include preparation of technical information, cost estimates, schedule assumptions, project descriptions, and supporting documentation necessary for applications associated with the Highway Bridge Program (HBP), Bridge Investment Program (BIP), and other applicable state or federal funding sources. The team will also provide project information and coordination support for inclusion in the FTIP/FSTIP and other applicable regional or statewide programming documents. In support of funding efforts, the team will prepare benefit narratives and supporting technical justification describing the project's anticipated improvements related to public safety, structural reliability, emergency access, multimodal connectivity, climate resilience, hydraulic performance, and long-term infrastructure sustainability. Funding support activities will be coordinated with the City, Caltrans, regional agencies, and other stakeholders as necessary to position the project for future grant competitiveness and delivery.

4.6 Outreach. Our team will support the outreach effort to property owners and community members within the project area to gather feedback on the recommended alternative. This effort will include the following activities.

A. **Project Communications.** Our team will update the project website with updated information related to the recommended alternative and schedule, along with opportunities to provide feedback. In addition, we will send mailers via hand delivery and/or USPS to businesses and residences in the project area to build awareness of the project website and opportunities to provide feedback

B. **Stakeholder Meeting.** CSWST2 will coordinate and facilitate a meeting with the project area businesses and residents to gather initial feedback on the recommended alternative.

C. **Pop-up Engagement.** Our team will conduct one on-site pop-up event to share the alternatives analysis, recommended alternative, and gather feedback.

4.7 Council Presentation. CSWST2 and BCA will present the findings of the alternatives analysis to the City Council and receive direction.

4.8 Contract Management. We will perform the tasks outlined in Task 1.4. We anticipate three (3) meetings during this phase of work.

Task 4 Deliverable:

- Recommended Alternative Memorandum
- Advance Planning Study / PID-level Alternatives Analysis Report

TASK 5 – ENVIRONMENTAL (PA&ED / NEPA-CEQA)

Goal: DDA will prepare environmental documentation pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), with the City of Capitola (City) as the lead CEQA agency and Caltrans as the lead NEPA agency (under NEPA Assignment Program Caltrans assumes role for the Federal Highway Administration). DDA assumes that an Initial Study/Environmental Assessment (IS/EA) with a corresponding Mitigated Negative Declaration/Finding of No Significant Impact (MND/FONSI) is the appropriate level of environmental documentation. DDA will also assist the City with procurement of appropriate regulatory permits. Note that if the IS/EA analysis determines that the Project could result in potentially significant impacts that cannot be mitigated to a less than significant level, an Environmental Impact Report and/ or Environmental Impact Statement would be required, and this scope would require amendment. DDA will reference previous environmental studies and use the information as a baseline to streamline the current environmental process as appropriate. It is estimated that the environmental clearance process will take approximately eighteen to thirty-six months to complete.

Note, this work may be amended or re-sequenced after alternative selection to ensure compliance with Caltrans and Regulatory Agency requirements. Task 5 is contingent upon City Council authorization following completion of Task 4 and selection of a preferred alternative. Task 5 would advance the project through environmental review, permitting, and environmental clearance.

5.1 Phase 1 Site Assessment. Sub task 5.1 description DDA's subconsultant will assess the site for potential presence of recognized environmental conditions (RECs) (i.e., levels of hazardous substances and/or petroleum products warranting regulatory cleanup action) and the uses and conditions at properties and facilities in the site vicinities with the potential to cause (or have caused) an REC at the site. The "vicinity" of the site would include properties/facilities within 1/8 mile of the Project area. The Phase I ESA will be performed in general accordance with the ASTM International (ASTM) Designation E 1527-

21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Preparation of the Phase I ESA will include a site reconnaissance, visual survey of adjacent properties, review of standard environmental records sources, review geological and other conditions in the Project area, review historical photographs and topographic maps, and review any additional information provided by the client including information obtained during the environmental process for removal of the bridge structure.

5.2 Project Description. Upon completion of the 35% design for the Proposed Project, DDA will initiate the environmental review for the Project. DDA will discuss the proposed improvements included for the Project with City staff and CSWST2, confirm expectations regarding the tasks to be completed, and gather information and data specific to the Project site. DDA will work closely with the Project team to develop the appropriate level of detail for the Project description. The Project description will describe the components of the Project as well as the environmental setting for the Project area. DDA will provide a draft description to the City and other members of the Project team, as appropriate, for review and comment. DDA will revise the Project description based on comments received by the Project team and use it as the basis for the Administrative Draft Initial Study/Environmental Assessment.

5.3 Technical Documentation

1. **Biological Resources Report.** DDA will conduct background research in relevant databases to identify the potential for federally and state-listed species or other special-status species to be within the Project area. DDA will develop a Biological Study Area (BSA) that covers direct and indirect impact areas for the Project. DDA will survey the BSA for plant and wildlife species, their signs, and/or potential habitat. DDA will inventory botanical and wildlife resources observed in the BSA and will identify and record existing vegetation communities in this area. DDA will summarize the results of the research and surveys in a Biological Resources Report (BRR) report. The BRR will include a discussion of the existing biological resources in the BSA, potential impacts on these resources as a result of the Project, and proposed mitigation measures to avoid, minimize, and/or mitigate these impacts to a less than significant level.
2. **Aquatic Resources Delineation.** DDA will delineate jurisdictional wetlands and waters of the United States (U.S.), as defined by the USACE, State Water Resources Control Board, and California Department of Fish and Wildlife (CDFW). To identify the boundaries of the waters of the U.S., DDA will identify the ordinary high-water mark (OHWM) for Soquel Creek within the BSA. The presence or absence of wetlands in the BSA will be verified through an analysis of hydrologic conditions, hydrophytic vegetation, and hydric soils. DDA will summarize existing site conditions

on waters of the U.S. and waters of the state in an Aquatic Resources Delineation (ARD) report. The ARD report will summarize the location of wetlands and other waters under jurisdiction of the USACE, Regional Water Quality Control Board (RWQCB), and CDFW within and immediately adjacent to the Project area.

3. **Noise Study Memorandum.** The Project is not anticipated to be capacity increasing and is not anticipated to be designated as a Type I noise Project per federal or state-recommended guidance. As a result, DDA's subconsultant, Ambient will develop a noise analysis limited to the assessment of short-term, construction-related impacts. A technical memorandum will be prepared to address short-term construction-related impacts associated with the Project. The memorandum will include a summary description of the existing noise environment, based on existing environmental documentation. Up to five short-term (e.g., 10-minute) noise measurements will be included. Noise measurement surveys will be conducted during the daytime hours at nearby land uses. Relevant background information, including noise fundamentals, descriptors, and applicable federal, state, and local regulatory framework, will be described.

   To assess potential construction noise impacts, nearby land uses and their relative exposure to the Project area (considering topographic barriers and distance) will be identified. Predicted construction-generated noise levels will be calculated using the Federal Highway Administration's (FHWA) Roadway Construction Noise Model (version 1.0) based on construction equipment anticipated to be required for the Project. Construction-generated noise levels at the nearest land uses will be identified and summarized in tabular format within the report. The significance of construction-generated noise and vibration impacts will be assessed in comparison to applicable standards and recommended significance thresholds. Mitigation measures will be identified for significant and potentially significant impacts. The effectiveness of proposed mitigation measures will be assessed and presented.

4. **Cultural Resources.** As part of this task, DDA's subcontractor Albion will identify and map the Area of Potential Effect (APE). The APE Map will depict the area that will be impacted by the Project, including staging and construction access area, utility relocation work, and off-site mitigation.

   Albion will prepare a Cultural Resources Assessment Report (CRAR), which will follow the USACE, Section 408 and 404 Cultural Resource Assessment Report Guidelines and Template with a Section 106 technical report appendix. The CRAR will present the results of the cultural resource

surveys and analyses and provide recommendations for the City regarding the effect of the Project. The draft report will be subject to one round of review by the City and USACE.

Albion will also prepare a Section 106 Technical Report as an appendix to the CRAR for the proposed demolition of the bridge and construction of a replacement. As permitting agencies, the USACE and others will be responsible for compliance with Section 106 of the NHPA, which requires federal agencies to assess effects of undertakings on properties on or eligible for the NRHP. The technical report will assess the potential adverse effects on historic properties. It will include a description of the undertaking, the APE, the identification and description of the historic properties within the APE, a description of the results of the CRAR, an assessment of adverse effects based on the Criteria of Adverse Effects (36 CFR Section 800.5), and proposed mitigation measures. In addition, outreach will take place to interested parties.

5. **Air Quality/Greenhouse Gas Emissions.** DDA will prepare an Air Quality Study and Greenhouse Gas Emission (AQ/GHG) Assessment for the Project. DDA technical staff will prepare the air quality analysis for the Project using guidance from the Monterey Bay Air Resources District's (MBARD's) adopted CEQA Guidelines and the California Emissions Estimator Model (CalEEMod). The analysis will consider potential air quality related impacts resulting from the Project during construction and operation. The Project site is located in the North-Central Coast Air Basin (NCCAB), which includes all of Monterey, Santa Cruz, and San Benito counties. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects.

6. **Historical Resource Evaluation Report (HRER).** Although the bridge has been previously evaluated by Caltrans and identified as eligible for the NRHP (Category 2 bridge), there are several buildings that are located adjacent to the bridge that are more than 45 years old that will require evaluation for historic significance in accordance with the Caltrans SER. If any of these buildings have been previously identified, GPA will identify whether they would require reevaluation or maintain its prior evaluation status. The scope of work for the HRER includes the following tasks:

   - Research – Property-specific and general research will be conducted to develop relevant historic contexts for the potential historic properties. Research may include general historical information,

building permits, county tax assessor records, historic aerial photos, historic maps, Sanborn maps, etc.

- Evaluations/DPR 523 Inventory Forms – GPA will prepare the relevant historic contexts and evaluate all properties greater than 45 years of age within the project APE. The results of the evaluations will be recorded on DPR 523 inventory forms and included in the HRER. For the purposes of this scope and cost, we assume that no more than six (6) residential properties will require evaluation (not including the bridge). GPA will NOT reevaluate Stockton Avenue Bridge.
- Draft Historical Resource Evaluation Report (HRER) – GPA will prepare the draft HRER according to established Caltrans procedures and submit to the client for review.
- Final Historical Resource Evaluation Report (HRER)– GPA will revise the draft HRER based on comments. We assume three rounds of comments: one from the client, one from the City, and one from Caltrans.

7. **Draft Finding of Effect Document (FAE or FNAE)**. GPA will prepare a Finding of Effect (FOE) according to established Caltrans procedures and submit to the client for review. This scope and cost assumes no more than four (4) historic properties in the APE: the Stockton Bridge, and up to three additional potential historic properties. It is assumed the report's conclusion for the undertaking will be either a Finding of No Adverse Effect with Standard Conditions: SOIS Action Plan (see separate task for SOIS Action Plan) if the bridge can be rehabilitated OR a Finding of Adverse Effect and Memorandum of Agreement (see separate task for MOA below) if the bridge will be replaced in whole. The outline for each document will be prepared in accordance with Caltrans SER requirements.
8. **(Optional) SOIS Action Plan.** Based on GPA's current knowledge of the project, if the existing bridge could be rehabilitated instead of replaced, an SOIS Action Plan will be required to ensure that the project complies with the SOIS and avoids adverse effects to Stockton Bridge, throughout design and construction. The proposed scope of work for the SOIS Action Plan includes the following tasks:
    - Identify Action Plan Tasks and Responsible Parties – GPA will identify all necessary tasks related to plan reviews and construction monitoring to complete the SOIS Action Plan, as well as responsible parties from the project team, City, and Caltrans.

- Draft SOIS Action Plan – GPA will prepare a draft SOIS Action Plan according to Caltrans format and content requirements. It will include a summary of the project, the significance and character-defining features of the historic bridge, plan review and construction monitoring tasks, responsible parties, and required qualifications for members of the project team.
- Final SOIS Action Plan – The draft report will be revised based upon client comments. This scope and cost assumes three rounds of comments: one from the client, one from the City, and one from Caltrans.

9. **(Optional) MOA.** The optional MOA will only be required if the FOE report's conclusion for the undertaking is a Finding of Adverse Effect (for replacement of the bridge and/or effects on any adjacent historic properties, if identified in the HRER stage). The proposed scope of work for the optional MOA includes the following tasks:
    - Draft MOA – If the FOE determines that the undertaking will have an adverse effect on one or more historic property in the APE, GPA will prepare a draft MOA according to established Caltrans procedures and submit it to the client for review. It is assumed that Caltrans will provide a sample MOA for reference. For the purposes of this scope and cost, we assume that Stockton Bridge is the only property that will require resolution of adverse effects in the MOA stipulations.
    - Final MOA – GPA will revise the draft MOA based on comments received. We assume four rounds of comments: one from the client, one from the City, one from Caltrans, and one from SHPO.
10. **(Optional) Programmatic Section 4(f) Analysis.** Stockton Bridge (Bridge No. 36C-0110) is eligible for listing on the National Register of Historic Places and is considered a historic resource for the purposes of Section 4(f) of the Department of Transportation Act of 1966. If there is a Section 106 finding of "Adverse Effect", a Section 4(f) evaluation will be required to analyze potential impacts to this 4(f) resource. GPA will reference all existing documentation and perform any outstanding research related to attributes of the bridge, and will assist the client with the preparation of a Programmatic Section 4(f) Evaluation that will describe the Section 4(f) property, potential project impacts, avoidance alternatives, findings, and measures to minimize project impacts. GPA could be available to perform any necessary public outreach efforts and coordinate, as appropriate, with the agency with jurisdiction over the 4(f) property (State Historic Preservation Officer) to obtain the appropriate concurrence on

the 4(f) determination, as requested by the client, under a separate scope and fee.

5.4 Caltrans Technical Documentation. Pending the results of the Project Study Report (PSR), Preliminary Environmental Analysis Report (PEAR), and/or Preliminary Environmental Study (PES) DDA will prepare technical documentation to satisfy the environmental process for Caltrans. The list below is based upon DDA's experience with previous Caltrans projects and review of the resources associated with the Project. The results of the PSR, PEAR, and/or PES may define additional technical reports for Caltrans environmental compliance

1. **Natural Environmental Study (NES).** The NES will include documentation of the biological resources in the Project area and an assessment of the impacts of the Project alternatives on those resources. For projects with the potential to impact biological resources, a Natural Environment Study (NES) describes the existing biological environment and how the project alternatives affect that environment. A NES or NES Minimal Impact (MI) is prepared for all projects and serves as the technical basis for statements made in the environmental document, concerning plants, animals, and natural communities occurring in the biological study area. The NES summarizes technical documents such as focused species studies, wetland assessments, and biological assessments related to effects on biological resources in the Biological Study Area (BSA) for use in the environmental document. The NES will be developed using the Biological Resources Report and Aquatic Resources Delineation developed in Tasks 4.3.1 and 4.3.2, respectively.
2. **Biological Assessment.** A biological assessment (BA) is required for any project where federally listed species may be adversely affected, resulting in formal consultation, or affected but not adversely affected, resulting in informal consultation. In addition, even if there will be no effect on any federally listed species, the presence of proposed or designated critical habitat may require that a BA be prepared. This will be determined and presented in the BA.

   DDA's subconsultant, Applied Marine Sciences (AMS) will prepare a Biological Assessment (BA) to determine the Project impacts on threatened, endangered, or proposed species and habitats that shall be submitted for review by natural resource agencies (i.e., NMFS, USACE). Avoidance, minimization, and conservation measures will be evaluated as mitigation for the anticipated disturbances during in-water work activities to minimize adverse impacts to any state or federally listed species. This may include best management practices to avoid temporary changes in water quality due to increases in turbidity or

potential release of hazardous materials from onsite construction equipment.

5.5 Administrative Draft Initial Study/Environmental Assessment. Following completion of all appropriate technical analysis described above, DDA will prepare the Administrative Draft IS/EA for the Project in accordance with CEQA and NEPA requirements. The Administrative Draft IS/EA will describe the Project and identify and summarize significant impacts and whether they can or cannot be avoided. The topics expected to be addressed, a description of the analyses to be conducted, and the contents of those sections are discussed below. In addition, the significance of the impacts after implementation of mitigation measures, where necessary, will be included in the analysis. This scope of work includes two (2) rounds of revision on the Administrative Draft IS/EA based on comments received from the City. DDA anticipates that the Administrative Draft IS/EA will consist of the following components.

Introduction/Need for Proposed Action: This section will indicate that the documentation for the Project has been prepared pursuant to CEQA and NEPA regulations and guidance to evaluate the effects of the Project.

Project Description/Goals and Objectives/Affected Environment: The IS/EA will provide a description of the Project based on the data and mapping identified above, supplemental information provided by the Lead Agency, Project Manager, and DDA's data collection and review. As required by CEQA, the Project Description will be complete with the precise location and boundaries of the Project, a statement of the objectives of the Project, and a general description of the Project's technical, economic, environmental, engineering, and/or construction aspects. This section will be illustrated with plans, photographs, and other graphics as needed.

Environmental Setting/Impacts and Mitigation Measures/Consultation Summary: DDA will clearly define the environmental setting for the Project based on applicable environmental and regulatory documents and technical studies. This task includes establishing the baseline environmental conditions within the Project vicinity. This section will describe those aspects of the environment that may be affected by the implementation of the Project, specifically an analysis of the following topics:

- Physical environment – visual resources, air quality, greenhouse gas emissions, geology, soils, and seismic hazards, hydrology and water quality, and hazardous materials.
- Biological environment – vegetation and wildlife, including migratory birds and forestry resources.

- Social environment – cultural and tribal resources, land use, noise, population and housing, public services, utilities, and energy, recreation, and transportation and traffic.

As part of this section, DDA will analyze the environmental impacts that could result from the implementation of the Project. DDA will identify mitigation measures needed to reduce impacts to a less than significant level. DDA assumes that the IS/EA would include an analysis of the following topics:

- Aesthetics/Visual
- Mineral Resources
- Agricultural and Forest Resources
- Noise
- Air Quality
- Population and Housing
- Biological Resources
- Public Services
- Cultural Resources
- Recreation
- Energy
- Socioeconomics/Environmental Justice
- Geology and Soils
- Transportation
- Greenhouse Gas Emissions/Climate
- Change
- Tribal Cultural
- Resources
- Hazards and Hazardous Materials
- Utilities/Service Systems
- Hydrology and Water Quality
- Wildfire
- Land Use/Planning
- Mandatory Findings of Significance

This section would also include a summary of the Native American consultation efforts undertaken for the Project.

Alternatives: In accordance with NEPA requirements, the IS/EA will define and discuss reasonable alternatives to the Project, including the No Project Alternative, that could feasibly meet the Project objectives and potentially avoid or lessen any significant environmental impacts associated with the Project. DDA shall coordinate with the City and CSWST2 to determine a range of feasible

alternatives. The Alternatives Section in the IS/EA will include a comprehensive analysis of the alternatives carried forward for analysis, as well as describe the alternatives eliminated from the analysis and the rationale for elimination. This section will include a comparison of the alternatives and identify the environmentally superior alternative.

Bibliography/Persons Consulted: This section will include all cited background information, persons contacted, and individuals, agencies, and businesses that contributed to report preparation.

5.6 Draft Initial Study/Environmental Assessment. DDA will prepare the Public Review Draft IS/EA following the revisions on the 2nd Administrative Draft IS/EA. DDA will work with the City and CSWST2 to prepare all required notices for public circulation of the IS/EA. DDA will provide a copy in electronic PDF format to City and to responsible agencies. The document will be circulated for a public review period of 30 days, as required for state agency review under CEQA. As part of this task, DDA will be responsible for the development of the Draft and Final Notice of Completion (NOC), Summary Form, and Notice of Intent (NOI) for the Draft IS/EA. DDA is available to upload the environmental documentation and noticing to the Office of Planning and Research (OPR) CEQA Submit system. DDA will also assist with local posting of notices at the Project site, Santa Cruz County Clerk, and other locations as required. DDA will maintain a file of any comments received during the public circulation period for use in preparing the final document. It is assumed that DDA will not attend any public hearings during the public circulation process. Any filing fees associated with the Draft IS/EA MND/FONSI will be paid directly by the City.

5.7 Final Initial Study/Environmental Assessment. DDA will prepare responses to comments for review by City staff prior to completing the final environmental document. The final document will include a Mitigation Monitoring and Reporting Program (MMRP) that includes all mitigation measures that must be incorporated into the Project, or the bid documents, for ease of tracking. If the City decides to approve the Project, the Notice of Determination (NOD) will be filed with the County Clerk within five business days. This scope of work assumes that the City shall be responsible for filing the NOD and paying the required CDFW filing fee.

Following the conclusion of the 30-day review period, DDA will review the comments received on the Draft IS/EA and assist the City with responding to the comments as required. DDA, in consultation with the City, will prepare formal responses to these comments. The comment letters and responses, as well as any necessary changes to the text of the Draft IS/EA, will be the primary components of the Final IS/EA. DDA will provide

the Final IS/EA to the City for review and comment. This scope of work assumes that this would be limited to one (1) round of revisions on the Final IS/EA.

As part of this task, DDA will be responsible for the preparation of the Notice of Determination (NOD) after final adoption of the IS/MND. DDA will also prepare the appropriate CEQA and NEPA findings for the adoption of the MND and FONSI and approval of the Project. This scope of work assumes that the City staff or legal counsel will be responsible for preparing all accompanying staff reports and resolutions. In addition, this scope assumes that the City would file the NOD with the County Clerk and would be responsible for paying all required filing fees.

DDA will prepare a Mitigation Monitoring and Reporting Program (MMRP) in compliance with CEQA Guidelines Section 15091 and include it in the ultimate approval by the City in conjunction with the Project approval. The MMRP, at a minimum, will include the following information:

1. The full text of each mitigation measure
2. The monitoring and reporting requirements
3. The entity or entities responsible for implementation, reporting, and monitoring
4. The timing for implementation and monitoring.

DDA will also be responsible for posting the notices and sending the notices and final document to OPR and CEQAnet.

5.8 Regulatory Permitting. Soquel Creek is expected to fall under the jurisdiction of the USACE, RWQCB, and CDFW. If the Project will result in permanent and/or temporary impacts on Soquel Creek, a Section 404 Permit from the USACE, Water Quality Certification from the RWQCB, and 1602 Streambed Alteration Agreement from CDFW will be required. DDA will prepare the Pre-Construction Notification package for submittal to the USACE, application for a Section 401 Water Quality Certification for submittal to the RWQCB, and Streambed Alteration Notification package for submittal to the CDFW. The applications will include a brief description of the Project, an assessment of impacts on jurisdictional areas, proposed best management practices, and other pertinent Project information, as required by the regulatory agencies. This scope of work assumes that any filing fees associated with the regulatory permits will be paid directly by the City. This task includes one round of coordination with the regulatory agencies after the permit applications have been submitted.

5.9 Coastal Development Permit. As part of this scope of work, DDA will compile the CDP Application in coordination with CSWST2 and the City. DDA will prepare and submit a pre-application request form to the City to initiate the CDP process under the Local Coastal Program. After the City has conducted their initial review, a formal application will be provided by the City at a formal application meeting. DDA will be responsible for the

formal application submittal, and coordination with the City regarding any supplemental requests for information. After the formal submittal of the Project application, the City, as part of their interdepartmental review process, will have 30-days to determine whether the application is "complete." DDA will regularly communicate with the City during their review process to ensure that the Project completion determination is conducted in a timely manner. Please note that, depending on the nature of potential requests, a contract amendment may be necessary. DDA will review all City prepared staff reports and/or other supporting information as part of the City's deliberative process. This task assumes that DDA will coordinate any comments with the City. This task assumes that DDA will be available to participate in one (1) City hearing and one (1) Board of Supervisor's hearing (if the Project is appealed). DDA will be prepared to make presentations to each of the hearing bodies on behalf of the Project and address any potential concerns related to the Project.

5.10 **Project Management and Meeting Attendance.** DDA would provide Project Management services throughout the Project to ensure that key deliverables are completed on schedule and within the contract amount. DDA would routinely coordinate with CSWST2 and the City to provide progress reports as part of this task. DDA would attend to all aspects of managing the Project, including scheduling resources, handling team communication, sub-consultant management, and responding to requests for information. DDA would be available to participate in meetings and/or conference calls with CSWST2, the City, and other Project team members. These meetings would be scheduled on an as-needed basis and are in addition to those meetings identified above. If requested, DDA can be available to attend additional meetings and conference calls beyond those identified within the scope of the budget. This task also includes coordination with Caltrans on technical documentation and environmental clearance.

Task 5 Deliverables We will provide electronic (PDF, and MS Word) of the following documents:

- Phase 1 Site Assessment
- Project Description
- Biological Resources Report
- Aquatic Resources Delineation
- Noise Study Memorandum
- Cultural Resources Assessment Report
- Natural Environment Study
- Biological Assessment
- Section 106 Technical Report
- Administrative Draft Initial Study/Environmental Assessment Mitigated Negative Declaration/Finding of No Significant Impact

- Draft Initial Study/Environmental Assessment Mitigated Negative Declaration/Finding of No Significant Impact, Mitigation Monitoring and Reporting Program, Notice of Intent, and Notice of Completion
- Final Initial Study/Environmental Assessment Mitigated Negative Declaration/Finding of No Significant Impact and Notice of Determination
- Draft and Final HRER
- Draft and Final FOE
- Draft and Final SOIS Action Plan (Optional)
- Draft and Final MOA (Optional)
- Draft and Final Programmatic Section 4(f) Analysis (Optional)

TASK 6 – PRELIMINARY ENGINEERING (0% → 35%)

Goal: Advance preferred alternative to Caltrans Type Selection (35%). Note, Task 6 is contingent upon City Council authorization following completion of Task 4 and selection of a preferred alternative. Task 6 would advance the preferred alternative through preliminary engineering and approximately 35% design, completing the project's preliminary engineering phase.

6.1 Conceptual Design. Our team will develop the following conceptual level documents:

A. Bridge Type Selection Report. Our team will consolidate the collected data and develop a Bridge Type Selection Report in accordance with Caltrans standards. The report will include the following:

i. Proposed Structure Alternative Report and Design Criteria
ii. BSDS Forms
iii. As-built drawings
iv. Bridge plans
v. Project Risk Matrix
vi. Cost Estimate
vii. Preliminary Foundation Report (Engeo)

B. Conceptual Plans. To document the design, we will prepare the following plans:

i. Preliminary Grading and Drainage Plans and Details (CSWST2)
ii. Preliminary Utility Plans and Details (CSWST2)
iii. Horizontal and Vertical Alignment Plans (CSWST2)
iv. Preliminary Bridge General Plan (BCA)
v. Preliminary DRAFT Bridge Foundation Plan (BCA)
vi. Preliminary Staging and Traffic Handling (CSWST2)

6.2 35% Design Development

A. Technical Studies. Our team will prepare the following technical studies:

i. **Photometric Analysis.** Our team will complete a photometric analysis to determine how lighting at the bridge is achievable. We will ensure the proposed pedestrian scale lighting is consistent with City

and State standards. This will include ensuring lighting levels are both dark sky and temperature friendly.

ii. **Stormwater Control Plan.** We will evaluate options to integrate stormwater green infrastructure. Our team will develop these features consistent with Santa Cruz County's C.3 standards.

iii. **Bridge Hydrology and Hydraulics Report.** We will update the preliminary study outlined in Task 3.3.

iv. **Water Quality Study.** We will provide a draft Water Quality Study indicating no adverse impacts to water quality.

B. Plans. To document the design, we will prepare the following plans:

i. Title, Vicinity/Site, Key Map, and General Sheets (CSWST2)
ii. Demolition Plans (CSWST2)
iii. Existing Utility Plans (CSWST2)
iv. Preliminary Grading and Drainage Plans and Details (CSWST2)
v. Preliminary Utility Plans and Details (CSWST2)
vi. Horizontal and Vertical Alignment Plans (CSWST2)
vii. Bridge General Plan (BCA)
viii. DRAFT Bridge Foundation Plan (BCA)
ix. Preliminary Electrical Plans and Details
x. Preliminary Stormwater Management Plan (CSWST2)
xi. Traffic Management Plan (Fehr & Peers)
xii. Specifications Outline

6.3 Bridge Site Data Submittal (BSDS). Our team will prepare a Bridge Site Data Submittal package (BSDS) consistent with the Caltrans Office of Special Funded Projects (OSFP).

6.4 Right of Way Verification. The project team will conduct a preliminary right-of-way assessment to identify potential property, easement, and access constraints associated with the rehabilitation and replacement alternatives. This task will include a review of existing right-of-way records, assessor parcel maps, easements, and available title information to evaluate potential impacts to adjacent properties, access points, temporary construction easements, and staging areas. The assessment will identify potential right-of-way acquisition needs, coordination requirements, and property constraints that may affect project design, constructability, environmental clearance, schedule, or cost. Findings from this effort will be incorporated into the alternatives analysis, project risk assessment, and preliminary engineering development.

6.5 Cost Estimate & Risk. Our team will develop the following.

A. Cost Estimate. We will prepare a cost model consistent with the 35% documents and aligned with the budgets from the various funding sources.

B. Project Risk Matrix. We will develop a project risk matrix.

6.6 Outreach. Our team will support the outreach effort to property owners and community members within the project area to gather feedback on the preliminary design. This effort will include the following activities.

A. **Project Communications.** Our team will update the project website with updated information related to the preliminary design and schedule, along with opportunities to provide feedback. In addition, we will send mailers via hand delivery and/or USPS to businesses and residences in the project area to build awareness of the project website and opportunities to provide feedback

B. **Stakeholder Meeting.** CSWST2 will coordinate and facilitate a meeting with the project area businesses and residents to gather initial feedback on the preliminary design.

C. **Pop-up Engagement.** Our team will conduct one on-site pop-up event to share the alternatives analysis, preliminary design, and gather feedback.

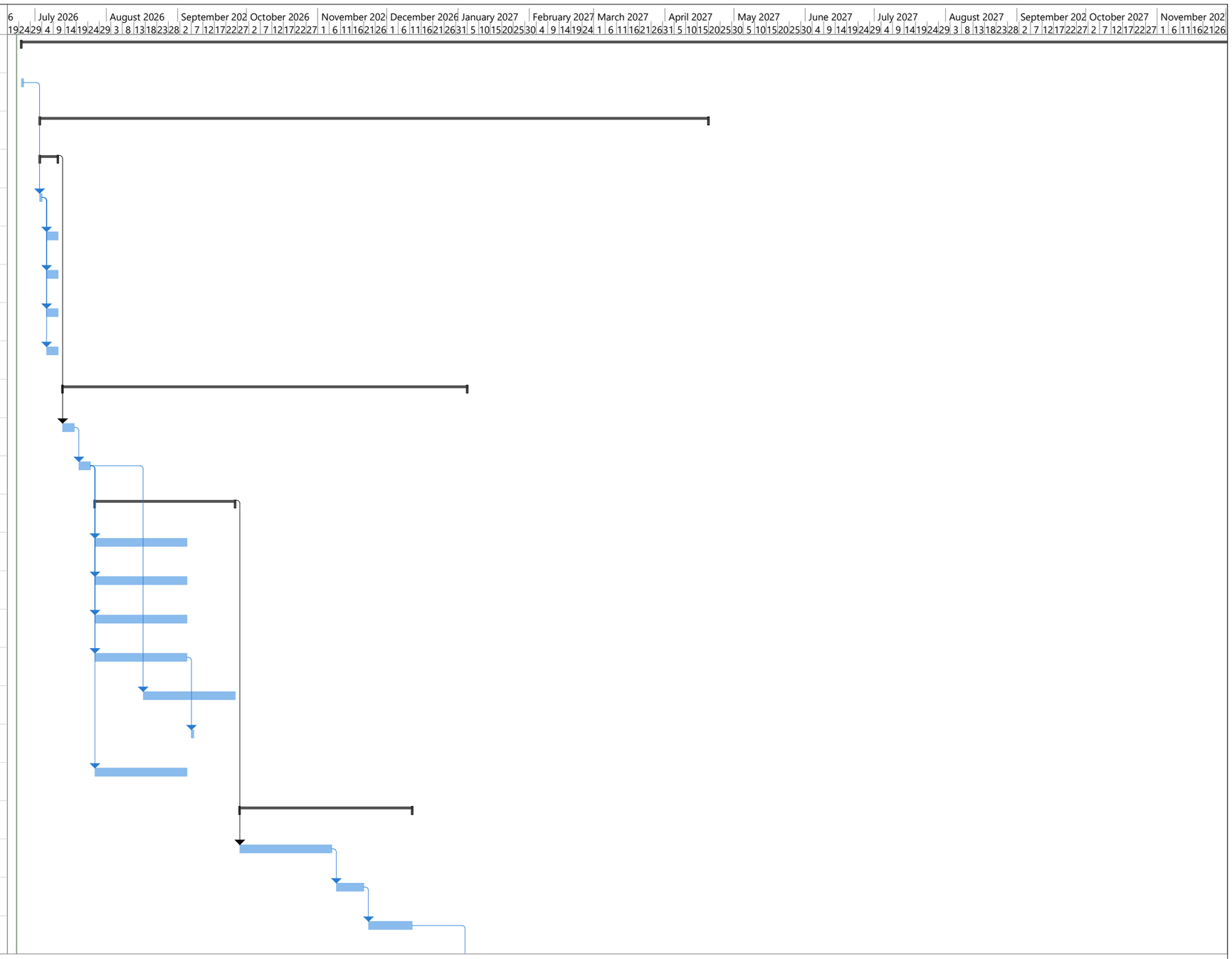
6.7 Council Presentation. CSWST2 and BCA will present the 35% design to the City Council.

6.8 Contract Management. We will perform the tasks outlined in Task 1.4. We anticipate three (3) meetings during this phase of work.

Task 6 Deliverables:

- 35% Plans
- Type Selection Report
- BSDS Package
- Cost Estimate & Risk Matrix

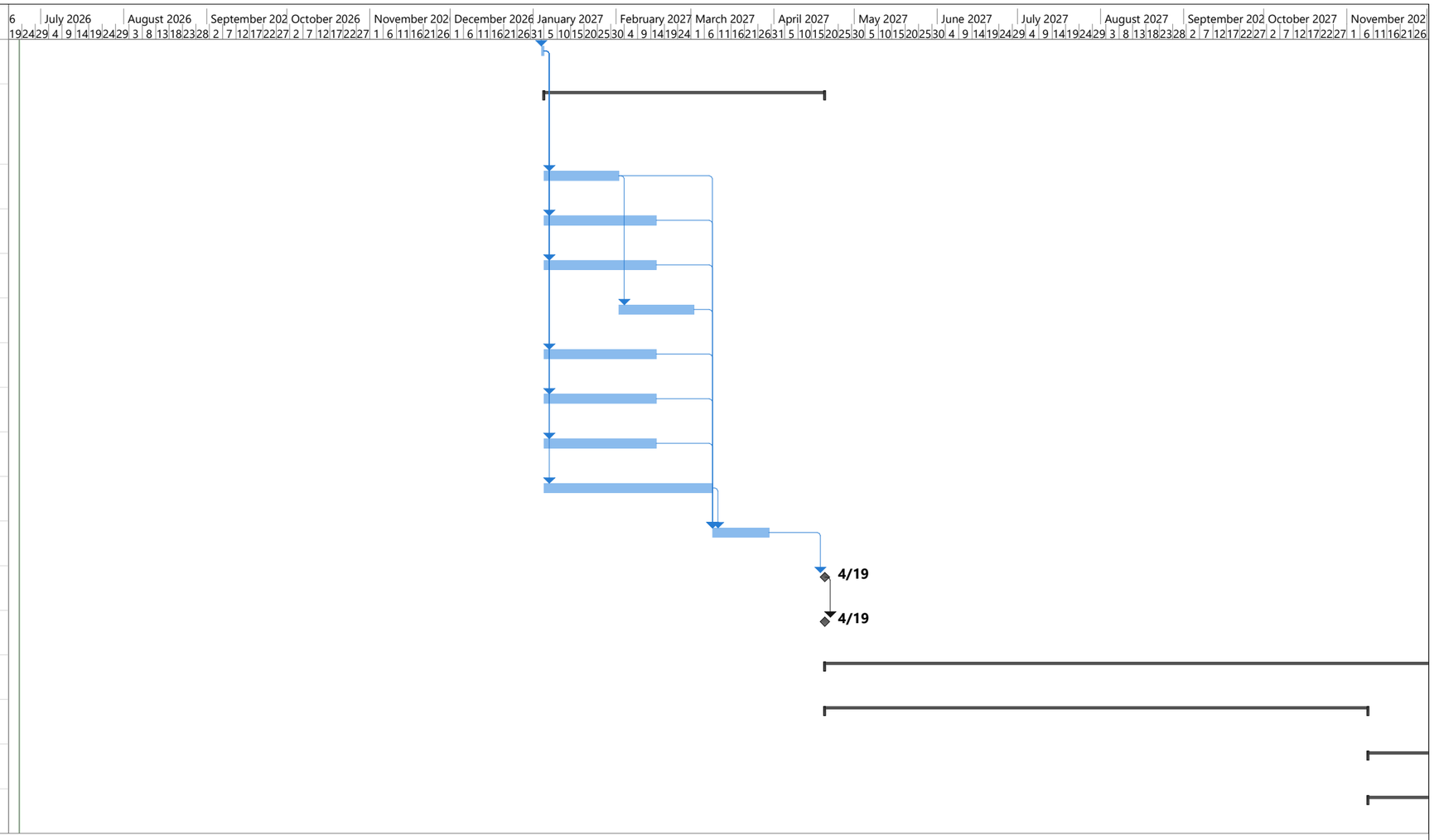
ID	Task Name	Duration	Start
1	**Stockton Avenue Bridge Project**	**662 days**	**Thu 6/25/26**
2	Council Authorization / NTP	1 day	Thu 6/25/26
3	**PHASE 1**	**207 days**	**Fri 7/3/26**
4	**Task 1 Project Initiation**	**6 days**	**Fri 7/3/26**
5	Project Kickoff	1 day	Fri 7/3/26
6	Purpose & Need Workshop	5 days	Mon 7/6/26
7	Funding Strategy Confirmation	5 days	Mon 7/6/26
8	Stakeholder Outreach Plan	5 days	Mon 7/6/26
9	Project Charter	5 days	Mon 7/6/26
10	**Task 2 Data Collection & Existing Conditions**	**126 days**	**Mon 7/13/26**
11	Collect Existing Documents	5 days	Mon 7/13/26
12	Review As-Builts	5 days	Mon 7/20/26
13	**Field Investigation**	**45 days**	**Mon 7/27/26**
14	Topographic Survey	30 days	Mon 7/27/26
15	Utility Mapping	30 days	Mon 7/27/26
16	Traffic Data Collection	30 days	Mon 7/27/26
17	Field Reconnaissance	30 days	Mon 7/27/26
18	Geotechnical Investigation	30 days	Mon 8/17/26
19	Historic Site Visit	1 day	Mon 9/7/26
20	Utility Coordination	30 days	Mon 7/27/26
21	**Bridge Condition Report**	**55 days**	**Mon 9/28/26**
22	Draft	30 days	Mon 9/28/26
23	City Review	10 days	Mon 11/9/26
24	Final	15 days	Mon 11/23/26



Project: Schedule - Final
Date: Tue 6/23/26

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Manual Progress		
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline			
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Progress			

ID	Task Name	Duration	Start
25	Council Update	1 day	Mon 1/4/27
26	**Task 3 Technical Studies & Deficiency Analysis**	**75 days**	**Tue 1/5/27**
27	Structural Evaluation	20 days	Tue 1/5/27
28	Historic Assessment	30 days	Tue 1/5/27
29	Hydrology/Hydraulics Study	30 days	Tue 1/5/27
30	Seismic Screening	20 days	Tue 2/2/27
31	Traffic Operations Analysis	30 days	Tue 1/5/27
32	Detour Analysis	30 days	Tue 1/5/27
33	Environmental Constraints Memo	30 days	Tue 1/5/27
34	Outreach	45 days	Tue 1/5/27
35	Technical Findings Report	15 days	Tue 3/9/27
36	Council Presentation	0 days	Mon 4/19/27
37	Council Authorization Task 4	0 days	Mon 4/19/27
38	**Phase 2**	**449 days**	**Tue 4/20/27**
39	**Task 4 Alternatives Analysis & APS**	**145 days**	**Tue 4/20/27**
53	**Task 5 Environmental Clearance**	**304 days**	**Tue 11/9/27**
79	**Task 6 Preliminary Engineering**	**96 days**	**Tue 11/9/27**



Project: Schedule - Final
Date: Tue 6/23/26

Task | Summary | Inactive Milestone | Duration-only | Start-only | External Milestone | Manual Progress
Split | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Deadline
Milestone | Inactive Task | Manual Task | Manual Summary | External Tasks | Progress

STOCKTON AVENUE BRIDGE PROJECT **06.23.2026**
SUMMARY OF PROJECT COSTS

Phase 1

Task 1 Project Initiation & Scoping		
CSWST2	$	11,475
BIGGS CARDOSA	$	19,869
ENGEO	$	-
DENISE DUFFY & ASSOCIATES	$	-
GPA CONSULTING	$	2,167
FEHR & PEERS	$	2,169
Subtotal	**$**	**35,680**

Task 2 Data Collection & Existing Conditions		
CSWST2	$	63,625
BIGGS CARDOSA	$	47,332
ENGEO	$	50,068
DENISE DUFFY & ASSOCIATES	$	-
GPA CONSULTING	$	5,113
FEHR & PEERS	$	18,769
Subtotal	**$**	**184,905**

Task 3 Technical Studies & Deficiency Analysis		
CSWST2	$	32,300
BIGGS CARDOSA	$	75,659
ENGEO	$	-
DENISE DUFFY & ASSOCIATES	$	3,563
GPA CONSULTING	$	47,663
FEHR & PEERS	$	47,642
Subtotal	**$**	**206,827**

Reimbursable Expenses		
CSWST2	$	3,500
BIGGS CARDOSA	$	2,500
ENGEO	$	28,000
DENISE DUFFY & ASSOCIATES	$	10,000
GPA CONSULTING	$	-
FEHR & PEERS	$	3,500
Subtotal	**$**	**47,500**

Total Fee - Phase 1			
CSWST2	$	110,899	9%
BIGGS CARDOSA	$	145,360	12%
ENGEO	$	78,068	6%
DENISE DUFFY & ASSOCIATES	$	13,563	1%
GPA CONSULTING	$	54,943	4%
FEHR & PEERS	$	72,079	6%
Total	**$**	**474,912**	38%

Phase 2

Task 4 Alternatives Analysis & Advance Planning Study		
CSWST2	$	73,858
BIGGS CARDOSA	$	90,757
ENGEO	$	6,404
DENISE DUFFY & ASSOCIATES	$	-
GPA CONSULTING	$	2,988
FEHR & PEERS	$	-
Subtotal	**$**	**174,006**

Task 5 Environmental Clearance		
CSWST2	$	14,935
BIGGS CARDOSA	$	584
ENGEO	$	-
DENISE DUFFY & ASSOCIATES	$	269,883
GPA CONSULTING	$	54,132
FEHR & PEERS	$	-
Subtotal	**$**	**339,534**

Task 6 Preliminary Engineering (35%)		
CSWST2	$	93,058
BIGGS CARDOSA	$	107,265
ENGEO	$	6,404
DENISE DUFFY & ASSOCIATES	$	-
GPA CONSULTING	$	-
FEHR & PEERS	$	25,675
Subtotal	**$**	**232,402**

Reimbursable Expenses		
CSWST2	$	7,000
BIGGS CARDOSA	$	2,500
ENGEO	$	-
DENISE DUFFY & ASSOCIATES	$	69,319
GPA CONSULTING	$	-
FEHR & PEERS	$	-
Subtotal	**$**	**78,819**

STOCKTON AVENUE BRIDGE PROJECT **06.23.2026**
SUMMARY OF PROJECT COSTS

Total Fee			
CSWST2	$	296,251	24%
BIGGS CARDOSA	$	343,965	27%
ENGEO	$	62,875	5%
DENISE DUFFY & ASSOCIATES	$	342,765	27%
GPA CONSULTING	$	112,063	9%
FEHR & PEERS	$	94,254	8%
Total	**$**	**1,252,173**	100%

CERTIFICATION OF DIRECT COSTS:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Pare 31 - Contact Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Designee Related Service
6. 48 Code of Federal Regulations Par 9904 - Cost Accounting Standards Board (when applicable

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state Local governments are responsible for applying only cognizant agency approved or CALTRANS accepted Indirect Cost Rate(s).

Prime Consultant

Name: Robert Stevens

Title: President

Signature:

Date: 06.23.2026

Email: rstevens@cswst2.com

Phone Number: 415.533.1864

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

CSW ST2

Submittal Date: 06.23.26

					CSWST2 Project Manager, Surveyor, Engineer and Outreach								
		Robert Stevens **Principal**	Julia Harberson **Sr. Project Manager**	Jessie Maran **Sr. Project Manager (Outreach)**	Brenda Payne **Graphic Illustrator**	Kristine Pillsbury **Senior Engineer**	Various **Engineer II**	Various **Engineer I**	Various **Surveyor II**	Various **Surveyor I**	**Two Person Survey Crew**	**Total Hours**	**Total Fee Proposal**
	2025 Hourly Rate ($/ hour)	85.00	85.00	85.00	50.00	70.00	60.00	50.00	60.00	50.00	107.00		
	Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
	Overhead	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%		
	Profit	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
	Billable Rate ($/ hour)	258.03	258.03	258.03	151.78	212.50	182.14	151.78	182.14	151.78	324.82		
Task 1	**Project Initiation & Scoping**												
1.1	**Project Kickoff**		2	2		2	2					8	$1,821
1.2	**Purpose & Need Development**		2			2	2	2				8	$1,609
1.3	**Stakeholder & Outreach Strategy**			8								8	$2,064
1.4	**Contract Management**												
	Project Management		10			5						15	$3,643
	Quality Control		2									2	$516
	Meetings		2	2		2	2					8	$1,821
	Task 1 Project Initiation & Scoping Subtotal:	**0**	**18**	**12**	**0**	**11**	**6**	**2**	**0**	**0**	**0**	**49**	**$11,475**
Task 2	**Data Collection & Existing Conditions**												
2.1	**Data Collection and Field Review**												
	Data Collection		4			6	8					18	$3,764
	Field Investigation								73	40	67	180	$41,130
	Traffic Data Collection											0	$0
	Geotechnical Investigation		2									2	$516
	Historic Architect Site Visit											0	$0
2.2	**Utility Coordination**		2				20	8				30	$5,373
2.3	**Bridge Condition Assessment Report & Basis of Design**												
	Draft		2			4	12					18	$3,552
	Final		2			2	12					16	$3,127
2.4	**City Council Update**		2			2						4	$941
2.5	**Contract Management**												
	Project Management		8									8	$2,064
	Quality Control	2										2	$516
	Meetings		6				6					12	$2,641
	Task 2 Data Collection & Existing Conditions Subtotal:	**2**	**28**	**0**	**0**	**14**	**58**	**8**	**73**	**40**	**67**	**290**	**$63,625**
Task 3	**Technical Studies & Deficiency Analysis**												
3.1	**Structural Evaluation**											0	$0
3.2	**Historic Architectural Assessment Reports (HPSR/HRER)**											0	$0
3.3	**Preliminary Bridge Hydrology and Hydraulics Report**		8			20	40					68	$13,600
3.4	**Seismic Screening**											0	$0
3.5	**Traffic & Operations**											0	$0
3.6	**Detour & Closure Analysis**											0	$0
3.7	**Environmental Constraints Memorandum**											0	$0
3.8	**Outreach**												
	Engagement Toolkit			12	24							36	$6,739
	Stakeholder Meeting		4	12	8		4					28	$6,071
3.9	**City Council Update**		2			2						4	$941
3.10	**Contract Management**												
	Project Management		2									2	$516
	Quality Control	2										2	$516
	Meetings		6			6	6					18	$3,916
	Task 3 Technical Studies & Deficiency Analysis Subtotal:	**2**	**22**	**24**	**32**	**28**	**50**	**0**	**0**	**0**	**0**	**158**	**$32,300**
Task 4	**Alternatives Analysis & Advance Planning Study**												
4.1	**Develop Alternatives**		12			12	16	16				56	$10,989
4.2	**Alternatives Evaluation**		8			8	20	20				56	$10,443
4.3	**Bridge Advance Planning Study (APS)**											0	$0
4.4	**Recommended Alternative**		8			12	20	8				48	$9,471
4.5	**Funding & Programming Support**		8			8						16	$3,764
4.6	**Detour & Closure Analysis**											0	$0
4.7	**Environmental Constraints Memorandum**											0	$0
4.8	**Outreach**												
	Project Communications			12	18							30	$5,828
	Stakeholder Meeting		4	12	4		4					24	$5,464
	Pop-up Engagement		4	24	24		4					56	$11,596
4.9	**City Council Presentation**		4			4						8	$1,882
4.10	**Contract Management**												
	Project Management		20									20	$5,161
	Quality Control	2										2	$516
	Meetings		16			8	16					40	$8,743
	Task 4 Alternatives Analysis & Advance Planning Study	**2**	**84**	**48**	**46**	**52**	**80**	**44**	**0**	**0**	**0**	**300**	**$73,858**
Task 5	**Environmental Clearance**												
5.1	**Phase 1 Site Assessment**											0	$0
5.2	**Project Description**		4			4						8	$1,882
5.3	**Technical Studies**												
	Biological Resources Assessment											0	$0
	Aquatic Resources Delineation											0	$0
	Noise Study memorandum											0	$0
	Cultural Resources											0	$0
	Air Quality/Greenhouse Gas Emissions											0	$0
	Historic Resources Effects Reports (FAE/FNAE)											0	$0
	(Optional) SOIS Action Plan											0	$0
	(Optional) MOA											0	$0
5.4	**Caltrans Technical Documentation**												
	Natural Environment Study											0	$0
	Biological Assessment											0	$0
5.5	**Administrative Draft Initial Study/Environmental**											0	$0
5.6	**Draft Initial Study/Mitigated Negative Declaration**											0	$0

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

CSW ST2

Submittal Date: 06.23.26

		CSWST2 Project Manager, Surveyor, Engineer and Outreach											
		Robert Stevens **Principal**	Julia Harberson **Sr. Project Manager**	Jessie Maran **Sr. Project Manager (Outreach)**	Brenda Payne **Graphic Illustrator**	Kristine Pillsbury **Senior Engineer**	Various **Engineer II**	Various **Engineer I**	Various **Surveyor II**	Various **Surveyor I**	**Two Person Survey Crew**	**Total Hours**	**Total Fee Proposal**
	2025 Hourly Rate ($/ hour)	85.00	85.00	85.00	50.00	70.00	60.00	50.00	60.00	50.00	107.00		
	Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
	Overhead	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%		
	Profit	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
	Billable Rate ($/ hour)	258.03	258.03	258.03	151.78	212.50	182.14	151.78	182.14	151.78	324.82		
5.7	**Final Initial Study/Mitigated Negative Declaration**											0	$0
5.8	**Regulatory Permitting**		8			8						16	$3,764
5.9	**Coastal Development Permit**		4			4						8	$1,882
5.10	**Contract Management**												
	Project Management		10			5						15	$3,643
	Quality Control											0	$0
	Meetings		8			8						16	$3,764
	Task 5 Environmental Clearance Subtotal:	**0**	**34**	**0**	**0**	**29**	**0**	**0**	**0**	**0**	**0**	**63**	**$14,935**
Task 6	**Preliminary Engineering (35%)**												
6.1	**Conceptual Design**												
	Bridge Type Selection Report		2				2					4	$880
	Conceptual Plans		2			8	20	20				50	$8,895
6.2	**Preliminary Engineering (35%)**												
	Technical Studies												
	Photometric Analysis					1	2	8				11	$1,791
	Stormwater Control Plan					1	2	8				11	$1,791
	Bridge Hydrology and Hydraulics Report		4			8	40					52	$10,018
	Water Quality Study		1			4	4	4				13	$2,444
	Plans		8			16	40	40				104	$18,821
6.3	**Bridge Site Data Submittal Package**											0	$0
6.4	**Right of Way Verification**											0	$0
6.5	**Cost Estimate & Risk**												
	Cost Estimate		2			2	8	8				20	$3,612
	Project Rsk Matrix		8			8	8	8				32	$6,436
6.6	**Outreach**												
	Project Communications			12	18							30	$5,828
	Stakeholder Meeting		4	12	4		4					24	$5,464
	Pop-up Engagement		4	24	24		4					56	$11,596
6.7	**City Council Presentation**		4			4						8	$1,882
6.8	**Contract Management**												
	Project Management		8									8	$2,064
	Quality Control	4										4	$1,032
	Meetings		20			8	20					48	$10,503
	Task 6 Preliminary Engineering (35%) Subtotal:	**4**	**67**	**48**	**46**	**60**	**154**	**96**	**0**	**0**	**0**	**475**	**$93,058**
	Total Labor Expenses:	**10**	**253**	**132**	**124**	**194**	**348**	**150**	**73**	**40**	**67**	**1335**	**$289,251**
Reimbursable Expenses													
General Expenses													$10,500
												Total Reimbursable Expenses:	**$10,500**
												Total CSWST2 Fee:	**$299,751**

Capitola - Stockton Avenue
Bridge Preliminary Evaluation & Design

COST PROPOSAL

Submittal Date: 06.12.25

BIGGS CARDOSA ASSOCIATES INC

			Biggs Cardosa Associates, Inc. Structural Engineering											
			Dan Devlin Senior Principal	Thomas Swayze Principal	John Alciati Associate	Greg Tolan Engineering Manager	Kara Horwald Project Engineer	Natsuki Okuda Project Engineer	Mandy Pederson Project Engineer	Komalpreet Mehroke Assistant Engineer	Pavlik Gribanovsky Junior Engineer	Steve Hickey Sr. CAD/BIM Specialist	Daniel Arredondo Sr. CAD/BIM Specialist	Joseph Doetsch Project Administrator	**Total Hours**	**Total Fee Proposal**
		2026 Hourly Rate ($/ hour)	130.38	114.23	96.06	88.85	63.75	64.62	65.19	46.73	36.00	64.62	51.92	53.94		
		Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
		Overhead	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%		
		Profit	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%		
		Multiplier	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
		Billable Rate ($/ hour)	374.68	328.27	276.05	255.33	183.20	185.70	187.34	134.29	103.46	185.70	149.21	155.01		
Task 1	**Project Initiation & Scoping**															
1.1	**Project Kickoff**			6		6									12	$3,502
1.2	**Purpose & Need Development**			6		6									12	$3,502
1.3	**Stakeholder & Outreach Strategy**			4		2									6	$1,824
1.4	**Contract Management**															
	Project Management			8		8								6	22	$5,599
	Quality Control			2	2	2	4								10	$2,452
	Meetings			6		4									10	$2,991
	Task 1 Project Initiation & Scoping Subtotal:		**0**	**32**	**2**	**28**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**72**	**$19,869**
Task 2	**Data Collection & Existing Conditions**															
2.1	**Data Collection and Field Review**															
	Data Collection					4			12						16	$3,269
	Field Investigation					8			8						16	$3,541
	Traffic Data Collection														0	$0
	Geotechnical Investigation		1	6		8									15	$4,387
	Historic Architect Site Visit														0	$0
2.2	**Bridge Condition Assessment Report & Basis of Design**															
	Draft			6		10		24							40	$8,980
	Final		1	6		12		12							31	$7,637
2.3	**City Council Update**			8		6									14	$4,158
2.4	**Contract Management**															
	Project Management			8		8								8	24	$5,909
	Quality Control		1		8		12								21	$4,782
	Meetings			8		8									16	$4,669
	Task 2 Data Collection & Existing Conditions Subtotal:		**3**	**42**	**8**	**64**	**12**	**36**	**20**	**0**	**0**	**0**	**0**	**8**	**193**	**$47,332**
Task 3	**Technical Studies & Deficiency Analysis**															
3.1	**Structural Evaluation**		3	8		16		36		36	16				115	$21,011
3.2	**Historic Architectural Assessment Reports (HPSR/HRER)**			4		4									8	$2,334
3.3	**Preliminary Bridge Hydrology and Hydraulics Report.**		1	4		6									11	$3,220
3.4	**Seismic Screening**		4	8		20		32		32	16				112	$21,127
3.5	**Traffic & Operations**			3		3									6	$1,751
3.6	**Detour & Closure Analysis**			3		3									6	$1,751
3.7	**Environmental Constraints Memorandum**														0	$0
3.8	**Outreach**															
	Electronic Updates/Mailers														0	$0
	Stakeholder Meeting														0	$0
3.9	**City Council Update**			8		6									14	$4,158
3.10	**Contract Management**															
	Project Management			10		8								8	26	$6,565
	Quality Control		2		10		24								36	$7,907
	Meetings			10		10									20	$5,836
	Task 3 Technical Studies & Deficiency Analysis Subtotal:		**10**	**58**	**10**	**76**	**24**	**68**	**0**	**68**	**32**	**0**	**0**	**8**	**354**	**$75,659**
Task 4	**Alternatives Analysis & Advance Planning Study**															
4.1	**Develop Alternatives**		2	6		8		12		24					52	$10,213
4.2	**Alternatives Evaluation**		2	6		16		28		32	32				116	$19,612
4.3	**Bridge Advance Planning Study (APS)**		2	6		16		32				28	16		100	$20,334
4.4	**Recommended Alternative**		1	4		12		20							37	$8,466
4.5	**Funding & Programming Support**			8		8									16	$4,669
4.6	**Detour & Closure Analysis**														0	$0
4.7	**Environmental Constraints Memorandum**														0	$0
4.8	**Outreach**															
	Electronic Updates/Mailers														0	$0
	Stakeholder Meeting														0	$0
	Pop-up Engagement														0	$0
4.9	**City Council Presentation**			10		10									20	$5,836
4.10	**Contract Management**															
	Project Management			8		8								8	24	$5,909
	Quality Control		2		10		32								44	$9,372
	Meetings			10		12									22	$6,347
	Task 4 Alternatives Analysis & Advance Planning Study		**9**	**58**	**10**	**90**	**32**	**92**	**0**	**56**	**32**	**28**	**16**	**8**	**431**	**$90,757**
Task 5	**Environmental Clearance**															
5.1	**Phase 1 Site Assessment**														0	$0
5.2	**Project Description**														0	$0
5.3	**Technical Studies**															
	Biological Resources Assessment														0	$0
	Aquatic Resources Delineation														0	$0
	Noise Study memorandum														0	$0
	Cultural Resources														0	$0
	Air Quality/Greenhouse Gas Emissions														0	$0
	Historic Resources Effects Reports (FAE/FNAE)														0	$0
	(Optional) SOIS Action Plan														0	$0
	(Optional) MOA														0	$0
5.4	**Caltrans Technical Documentation**															
	Natural Environment Study														0	$0
	Biological Assessment														0	$0
5.5	**Assessment**														0	$0
5.6	**Draft Initial Study/Mitigated Negative Declaration**														0	$0
5.7	**Final Initial Study/Mitigated Negative Declaration**														0	$0
5.8	**Regulatory Permitting**														0	$0
5.9	**Coastal Development Permit**														0	$0
5.95	**Historic Approval**			6		8									14	$4,012
5.10	**Contract Management**															
	Project Management			2		2									4	$1,167
	Quality Control														0	$0
	Meetings			1		1									2	$584
	Task 5 Environmental Clearance Subtotal:		**0**	**9**	**0**	**11**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**	**$5,763**
Task 6	**Preliminary Engineering (35%)**															
6.1	**Preliminary Engineering (35%)**															
	Bridge Type Selection Report		6	16		16		24		40					102	$21,414
	Conceptual Plans			8		12		24		40		28			112	$20,718
6.2	**Preliminary Engineering (35%)**															
	Technical Studies															
	Photometric Analysis														0	$0
	Stormwater Control Plan														0	$0
	Bridge Hydrology and Hydraulics Report			2		2									4	$1,167
	Water Quality Study														0	$0
	Plans			4		16		36				40	16		112	$21,899
6.3	**Bridge Site Data Submittal Package**			2		8		20			20				50	$8,482

Capitola - Stockton Avenue
Bridge Preliminary Evaluation & Design

COST PROPOSAL

BIGGS CARDOSA ASSOCIATES INC

		Biggs Cardosa Associates, Inc. Structural Engineering													
		Dan Devlin Senior Principal	Thomas Swayze Principal	John Alciati Associate	Greg Tolan Engineering Manager	Kara Horwald Project Engineer	Natsuki Okuda Project Engineer	Mandy Pederson Project Engineer	Komalpreet Mehroke Assistant Engineer	Pavlik Gribanovsky Junior Engineer	Steve Hickey Sr. CAD/BIM Specialist	Daniel Arredondo Sr. CAD/BIM Specialist	Joseph Doetsch Project Administrator	Total Hours	Total Fee Proposal
Submittal Date: 06.12.25															
2026 Hourly Rate ($/ hour)		130.38	114.23	96.06	88.85	63.75	64.62	65.19	46.73	36.00	64.62	51.92	53.94		
Fringe		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
Overhead		161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%	161.25%		
Profit		10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%		
Multiplier		2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
Billable Rate ($/ hour)		374.68	328.27	276.05	255.33	183.20	185.70	187.34	134.29	103.46	185.70	149.21	155.01		
6.4	**Right of Way Verification**													0	$0
6.5	**Cost Estimate & Risk**														
	Cost Estimate	1	2		10		10			16				39	$7,097
	Project Rsk Matrix													0	$0
6.6	**Outreach**														
	Electronic Updates													0	$0
	Stakeholder Meeting													0	$0
	Pop-up Engagement													0	$0
6.7	**City Council Presentation**													0	$0
6.8	**Contract Management**														
	Project Management		8		8								8	24	$5,909
	Quality Control			16		48								64	$13,211
	Meetings		10		16									26	$7,368
Task 6 Preliminary Engineering (35%) Subtotal:		**7**	**52**	**16**	**88**	**48**	**114**	**0**	**80**	**36**	**68**	**16**	**8**	**533**	**$107,265**
Total Labor Expenses:		**29**	**251**	**46**	**357**	**120**	**310**	**20**	**204**	**100**	**96**	**32**	**38**	**1603**	**$346,645**
Reimbursable Expenses															
General Expenses															$5,000
														Total Reimbursable Expenses:	**$5,000**
														Total BCA Fee:	**$351,645**

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		ENGEO Geotechnical Engineer								
	Submittal Date: 06.23.26	Various Principal	Various Associate	Various Senior Engineer	Various Project Engineer	Various Staff Engineer	Various CAD Specialist	Various Project Assistant	Total Hours	Total Fee Proposal
	2025 Hourly Rate ($/ hour)	129.81	76.92	62.50	50.48	43.75	53.37	62.50		
	Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
	Overhead	272.00%	272.00%	272.00%	272.00%	272.00%	272.00%	272.00%		
	Profit	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	4.1	4.1	4.1	4.1	4.1	4.1	4.1		
	Billable Rate ($/ hour)	531.18	314.76	255.75	206.56	179.03	218.39	255.75		
Task 1	**Project Initiation & Scoping**									
1.1	**Project Kickoff**								0	$0
1.2	**Purpose & Need Development**								0	$0
1.3	**Stakeholder & Outreach Strategy**								0	$0
1.4	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 1 Project Initiation & Scoping Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 2	**Data Collection & Existing Conditions**									
2.1	**Data Collection and Field Review**									
	Data Collection								0	$0
	Field Investigation								0	$0
	Traffic Data Collection								0	$0
	Geotechnical Investigation	30	10	10	80	40	10	10	190	$50,068
	Historic Architect Site Visit								0	$0
2.2	**Utility Coordination**								0	$0
2.3	**Bridge Condition Assessment Report & Basis of Design**									
	Draft								0	$0
	Final								0	$0
2.4	**City Council Update**								0	$0
2.5	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 2 Data Collection & Existing Conditions Subtotal:	**30**	**10**	**10**	**80**	**40**	**10**	**10**	**190**	**$50,068**
Task 3	**Technical Studies & Deficiency Analysis**									
3.1	**Structural Evaluation**								0	$0
3.2	**Historic Architectural Assessment Reports (HPSR/HRER)**								0	$0
3.3	**Preliminary Bridge Hydrology and Hydraulics Report**								0	$0
3.4	**Seismic Screening**								0	$0
3.5	**Traffic & Operations**								0	$0
3.6	**Detour & Closure Analysis**								0	$0
3.7	**Environmental Constraints Memorandum**								0	$0
3.8	**Outreach**									
	Electronic Updates/Mailers								0	$0
	Stakeholder Meeting								0	$0
3.9	**City Council Update**								0	$0
3.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 3 Technical Studies & Deficiency Analysis Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 4	**Alternatives Analysis & Advance Planning Study**									
4.1	**Develop Alternatives**									
4.2	**Alternatives Evaluation**	3	3	3	15				24	$6,404
4.3	**Bridge Advance Planning Study (APS)**								0	$0
4.4	**Recommended Alternative**								0	$0
4.5	**Funding & Programming Support**								0	$0
4.6	**Detour & Closure Analysis**								0	$0
4.7	**Environmental Constraints Memorandum**								0	$0
4.8	**Outreach**									
	Electronic Updates/Mailers								0	$0
	Stakeholder Meeting								0	$0
	Pop-up Engagement								0	$0
4.9	**City Council Presentation**								0	$0
4.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 4 Alternatives Analysis & Advance Planning Study	**3**	**3**	**3**	**15**	**0**	**0**	**0**	**24**	**$6,404**
Task 5	**Environmental Clearance**									
5.1	**Phase 1 Site Assessment**								0	$0
5.2	**Project Description**								0	$0
5.3	**Technical Studies**									
	Biological Resources Assessment								0	$0
	Aquatic Resources Delineation								0	$0
	Noise Study memorandum								0	$0
	Cultural Resources								0	$0
	Air Quality/Greenhouse Gas Emissions								0	$0

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		ENGEO Geotechnical Engineer								
	Submittal Date: 06.23.26	Various Principal	Various Associate	Various Senior Engineer	Various Project Engineer	Various Staff Engineer	Various CAD Specialist	Various Project Assistant	Total Hours	Total Fee Proposal
	2025 Hourly Rate ($/ hour)	129.81	76.92	62.50	50.48	43.75	53.37	62.50		
	Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
	Overhead	272.00%	272.00%	272.00%	272.00%	272.00%	272.00%	272.00%		
	Profit	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	4.1	4.1	4.1	4.1	4.1	4.1	4.1		
	Billable Rate ($/ hour)	531.18	314.76	255.75	206.56	179.03	218.39	255.75		
	Historic Resources Effects Reports (FAE/FNAE)								0	$0
	(Optional) SOIS Action Plan								0	$0
	(Optional) MOA								0	$0
5.4	**Caltrans Technical Documentation**									
	Natural Environment Study								0	$0
	Biological Assessment								0	$0
5.5	**Administrative Draft Initial Study/Environmental**								0	$0
5.6	**Draft Initial Study/Mitigated Negative Declaration**								0	$0
5.7	**Final Initial Study/Mitigated Negative Declaration**								0	$0
5.8	**Regulatory Permitting**								0	$0
5.9	**Coastal Development Permit**								0	$0
5.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 5 Environmental Clearance Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 6	**Preliminary Engineering (35%)**									
6.1	**Conceptual Design**									
	Bridge Type Selection Report	3	3	3	15				24	$6,404
	Conceptual Plans								0	$0
6.2	**Preliminary Engineering (35%)**									
	Technical Studies									
	Photometric Analysis								0	$0
	Stormwater Control Plan								0	$0
	Bridge Hydrology and Hydraulics Report								0	$0
	Water Quality Study								0	$0
	Plans								0	$0
6.3	**Bridge Site Data Submittal Package**								0	$0
6.4	**Right of Way Verification**								0	$0
6.5	**Cost Estimate & Risk**									
	Cost Estimate								0	$0
	Project Rsk Matrix								0	$0
6.6	**Outreach**									
	Electronic Updates								0	$0
	Stakeholder Meeting								0	$0
	Pop-up Engagement								0	$0
6.7	**City Council Presentation**								0	$0
6.8	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 6 Preliminary Engineering (35%) Subtotal:	**3**	**3**	**3**	**15**	**0**	**0**	**0**	**24**	**$6,404**
	Total Labor Expenses:	**36**	**16**	**16**	**110**	**40**	**10**	**10**	**238**	**$62,875**
Reimbursable Expenses										
Task 2.1 - Subcontractors (Traffic Control, CPT rig), Permits, Mileage										$28,000
	Total Reimbursable Expenses:									**$28,000**
	Total Fee:									**$90,875**

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

Submittal Date: 06.23.26

	Denise Duffy & Associates Environmental Permitting								
	Principal	Senior Project Manager	Senior Planner/Scientist II	Assoc Planner/Scientist	Asst Planner/Scientist	GIS/Computer Specialist	Admin/Editing	Total Hours	Total Fee Proposal
2025 Hourly Rate ($/ hour)	94.25	68.50	62.75	48.00	41.75	44.75	33.25		
Fringe	58.17%	58.17%	58.17%	58.17%	58.17%	58.17%	58.17%		
Overhead	######	######	######	######	######	######	######		
Profit	10%	10%	10%	10%	10%	10%	10%		
Multiplier	3.1	3.1	3.1	3.1	3.1	3.1	3.1		
Billable Rate ($/ hour)	289.49	210.40	192.74	147.43	128.24	137.45	102.13		
Task 1 Project Initiation & Scoping									
1.1 Project Kickoff								0	$0
1.2 Purpose & Need Development								0	$0
1.3 Stakeholder & Outreach Strategy								0	$0
1.4 Contract Management									
Project Management								0	$0
Quality Control								0	$0
Meetings								0	$0
Task 1 Project Initiation & Scoping Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 2 Data Collection & Existing Conditions									
2.1 Data Collection and Field Review									
Data Collection								0	$0
Field Investigation								0	$0
Traffic Data Collection								0	$0
Geotechnical Investigation								0	$0
Historic Architect Site Visit								0	$0
2.2 Utility Coordination								0	$0
2.3 Bridge Condition Assessment Report & Basis of Design									
Draft								0	$0
Final								0	$0
2.4 City Council Update								0	$0
2.5 Contract Management									
Project Management								0	$0
Quality Control								0	$0
Meetings								0	$0
Task 2 Data Collection & Existing Conditions Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 3 Technical Studies & Deficiency Analysis									
3.1 Structural Evaluation								0	$0
3.2 Historic Architectural Assessment Reports (HPSR/HRER)								0	$0
3.3 Preliminary Bridge Hydrology and Hydraulics Report								0	$0
3.4 Seismic Screening								0	$0
3.5 Traffic & Operations								0	$0
3.6 Detour & Closure Analysis								0	$0
3.7 Environmental Constraints Memorandum		4	8	8				20	$3,563
3.8 Outreach									
Electronic Updates/Mailers								0	$0
Stakeholder Meeting								0	$0
3.9 City Council Update								0	$0
3.10 Contract Management									
Project Management								0	$0
Quality Control								0	$0
Meetings								0	$0
Task 3 Technical Studies & Deficiency Analysis Subtotal:	**0**	**4**	**8**	**8**	**0**	**0**	**0**	**20**	**$3,563**
Task 4 Alternatives Analysis & Advance Planning Study									
4.1 Develop Alternatives									
4.2 Alternatives Evaluation								0	$0
4.3 Bridge Advance Planning Study (APS)								0	$0
4.4 Recommended Alterantive								0	$0
4.5 Funding & Programming Support								0	$0
4.6 Detour & Closure Analysis								0	$0
4.7 Environmental Constraints Memorandum								0	$0
4.8 Outreach									
Electronic Updates/Mailers								0	$0
Stakeholder Meeting								0	$0
Pop-up Engagement								0	$0
4.9 City Council Presentation								0	$0
4.10 Contract Management									
Project Management								0	$0
Quality Control								0	$0
Meetings								0	$0
Task 4 Alternatives Analysis & Advance Planning Study	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 5 Environmental Clearance									
5.1 Phase 1 Site Assessment	2	4					2	8	$1,625
5.2 Project Description	2	16	8	12	16	12	2	68	$11,162
5.3 Technical Studies									
Biological Resources Assessment		8	8	24	16	10	4	70	$10,598
Aquatic Resources Delineation		8	8	24	16	10	4	70	$10,598
Noise Study memorandum		8	4	8	8		2	30	$4,864
Cultural Resources		12	8	8	8		2	38	$6,476
Air Quality/Greenhouse Gas Emissions		8	8	16	24		2	58	$8,866
Historic Resources Effects Reports (FAE/FNAE)		8	8	16	24		2	58	$8,866
(Optional) SOIS Action Plan		8	8	16	24		2	58	$8,866
(Optional) MOA		8	8	16	24		2	58	$8,866
5.4 Caltrans Technical Documentation									
Natural Environment Study	2	16	24	36	48	16	6	148	$22,846

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

Submittal Date: 06.23.26

		Denise Duffy & Associates Environmental Permitting								
		Principal	Senior Project Manager	Senior Planner/Scientist II	Assoc Planner/Scientist	Asst Planner/Scientist	GIS/Computer Specialist	Admin/Editing	Total Hours	Total Fee Proposal
	2025 Hourly Rate ($/ hour)	94.25	68.50	62.75	48.00	41.75	44.75	33.25		
	Fringe	58.17%	58.17%	58.17%	58.17%	58.17%	58.17%	58.17%		
	Overhead	######	######	######	######	######	######	######		
	Profit	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	3.1	3.1	3.1	3.1	3.1	3.1	3.1		
	Billable Rate ($/ hour)	289.49	210.40	192.74	147.43	128.24	137.45	102.13		
	Biological Assessment		8	8	16	24	4	4	64	$9,620
5.5	**Administrative Draft Initial Study/Environmental**	6	20	32	60	48	16	8	190	$30,130
5.6	**Draft Initial Study/Mitigated Negative Declaration**	4	16	24	32	40	16	8	140	$22,014
5.7	**Final Initial Study/Mitigated Negative Declaration**	2	4	24	24	24	8	6	92	$14,375
5.8	**Regulatory Permitting**	2	16	16	60	60	32	6	192	$28,581
5.9	**Coastal Development Permit**	4	20	24	36	36	16	6	142	$22,728
5.10	**Contract Management**									
	Project Management		60						60	$12,624
	Quality Control							40	40	$4,085
	Meetings	4	60	16	16	16		8	120	$22,094
	Task 5 Environmental Clearance Subtotal:	**28**	**308**	**236**	**420**	**456**	**140**	**116**	**1704**	**$269,883**
Task 6	**Preliminary Engineering (35%)**									
6.1	**Conceptual Design**									
	Bridge Type Selection Report								0	$0
	Conceptual Plans								0	$0
6.2	**Preliminary Engineering (35%)**									
	Technical Studies									
	Photometric Analysis								0	$0
	Stormwater Control Plan								0	$0
	Bridge Hydrology and Hydraulics Report								0	$0
	Water Quality Study								0	$0
	Plans								0	$0
6.3	**Bridge Site Data Submittal Package**								0	$0
6.4	**Right of Way Verification**								0	$0
6.5	**Cost Estimate & Risk**									
	Cost Estimate								0	$0
	Project Rsk Matrix								0	$0
6.6	**Outreach**									
	Electronic Updates								0	$0
	Stakeholder Meeting								0	$0
	Pop-up Engagement								0	$0
6.7	**City Council Presentation**								0	$0
6.8	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 6 Preliminary Engineering (35%) Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
	Total Labor Expenses:	**28**	**312**	**244**	**428**	**456**	**140**	**116**	**1724**	**$273,446**
Reimbursable Expenses										
Printing/Copies (assumes 15 hard copies @ $30 ea)										$450
Equipment (GPS, UAV, etc)										$1,750
Mileage (at current IRS mileage rate)										$750
Miscellaneous (hardcopies, phone, fax, cellular, postage, courier etc.)										$1,000
Administration Fee										$7,737
	Total Reimbursable Expenses:									**$11,687**
	Total Fee:									**$285,133**
Subconsultants										
Albion										$16,232
Albion - ASR										$10,000
Applied Marin Science										$19,000
Ambient										$7,900
Phase 1 Subconsultant										$4,500
	Total Subconsultant Fees:									**$57,632**
	Total Project Fee:									**$342,765**

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		GPA Consulting Historic Architectural Studies								
		Andrea Galvin Principal Architectural Historian	Jenna Kachour Sr. Associate Architectural Historian	Amanda Duane Senior Architectural Historian	Audrey vonAhrens Senior Architectural Historian	Phoebe Rayburn Architectural Historian	Martin Rose Sr. GIS Analyst	Jessica Nwankwo Associate Project Coordinator	Total Hours	Total Fee Proposal
Submittal Date: 06.23.26										
2026 Hourly Rate ($/ hour)		100.96	75.72	63.46	52.88	31.80	62.50	40.38		
Fringe		50.48%	50.48%	50.48%	50.48%	50.48%	50.48%	50.48%		
Overhead		93.47%	93.47%	93.47%	93.47%	93.47%	93.47%	93.47%		
Profit		10%	10%	10%	10%	10%	10%	10%		
Multiplier		2.7	2.7	2.7	2.7	2.7	2.7	2.7		
Billable Rate ($/ hour)		270.93	203.20	170.30	141.91	85.34	167.72	108.36		
Task 1	**Project Initiation & Scoping**									
1.1	**Project Kickoff**	2	2						4	$948
1.2	**Purpose & Need Development**								0	$0
1.3	**Stakeholder & Outreach Strategy**								0	$0
1.4	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings		6						6	$1,219
	Task 1 Project Initiation & Scoping Subtotal:	**2**	**8**	**0**	**0**	**0**	**0**	**0**	**10**	**$2,167**
Task 2	**Data Collection & Existing Conditions**									
2.1	**Data Collection and Field Review**									
	Data Collection (Records Searches at Info Centers/letters)			8		8			16	$2,045
	Field Investigation								0	$0
	Traffic Data Collection								0	$0
	Geotechnical Investigation								0	$0
	Historic Architect Site Visit			12		12			24	$3,068
2.2	**Utility Coordination**								0	$0
2.3	**Bridge Condition Assessment Report & Basis of Design**									
	Draft								0	$0
	Final								0	$0
2.4	**City Council Update**								0	$0
2.5	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 2 Data Collection & Existing Conditions Subtotal:	**0**	**0**	**20**	**0**	**20**	**0**	**0**	**40**	**$5,113**
Task 3	**Technical Studies & Deficiency Analysis**									
3.1	**Structural Evaluation**								0	$0
3.2	**Historic Architectural Assessment Reports (HPSR/HRER)**		10	102		284	24		420	$47,663
3.3	**Preliminary Bridge Hydrology and Hydraulics Report**								0	$0
3.4	**Seismic Screening**								0	$0
3.5	**Traffic & Operations**								0	$0
3.6	**Detour & Closure Analysis**								0	$0
3.7	**Environmental Constraints Memorandum**								0	$0
3.8	**Outreach**									
	Electronic Updates/Mailers								0	$0
	Stakeholder Meeting								0	$0
3.9	**City Council Update**								0	$0
3.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 3 Technical Studies & Deficiency Analysis Subtotal:	**0**	**10**	**102**	**0**	**284**	**24**	**0**	**420**	**$47,663**
Task 4	**Alternatives Analysis & Advance Planning Study**									
4.1	**Develop Alternatives**								0	$0
4.2	**Alternatives Evaluation**		8	8					16	$2,988
4.3	**Bridge Advance Planning Study (APS)**								0	$0
4.4	**Recommended Alterantive**								0	$0
4.5	**Funding & Programming Support**								0	$0
4.6	**Detour & Closure Analysis**								0	$0
4.7	**Environmental Constraints Memorandum**								0	$0
4.8	**Outreach**									
	Electronic Updates/Mailers								0	$0
	Stakeholder Meeting								0	$0
	Pop-up Engagement								0	$0
4.9	**City Council Presentation**								0	$0
4.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 4 Alternatives Analysis & Advance Planning Study	**0**	**8**	**8**	**0**	**0**	**0**	**0**	**16**	**$2,988**
Task 5	**Environmental Clearance**									
5.1	**Phase 1 Site Assessment**								0	$0
5.2	**Project Description**								0	$0
5.3	**Technical Studies**									
	Biological Resources Assessment								0	$0
	Aquatic Resources Delineation								0	$0
	Noise Study memorandum								0	$0
	Cultural Resources								0	$0
	Air Quality/Greenhouse Gas Emissions								0	$0
	Historic Resources Effects Reports (FAE/FNAE)		28	136					164	$28,850

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		GPA Consulting Historic Architectural Studies								
	Submittal Date: 06.23.26	Andrea Galvin Principal Architectural Historian	Jenna Kachour Sr. Associate Architectural Historian	Amanda Duane Senior Architectural Historian	Audrey vonAhrens Senior Architectural Historian	Phoebe Rayburn Architectural Historian	Martin Rose Sr. GIS Analyst	Jessica Nwankwo Associate Project Coordinator	**Total Hours**	**Total Fee Proposal**
	2026 Hourly Rate ($/ hour)	100.96	75.72	63.46	52.88	31.80	62.50	40.38		
	Fringe	50.48%	50.48%	50.48%	50.48%	50.48%	50.48%	50.48%		
	Overhead	93.47%	93.47%	93.47%	93.47%	93.47%	93.47%	93.47%		
	Profit	10%	10%	10%	10%	10%	10%	10%		
	Multiplier	2.7	2.7	2.7	2.7	2.7	2.7	2.7		
	Billable Rate ($/ hour)	270.93	203.20	170.30	141.91	85.34	167.72	108.36		
	(Optional) SOIS Action Plan		16	48					64	$11,425
	(Optional) MOA	8	24	40					72	$13,856
5.4	**Caltrans Technical Documentation**									
	Natural Environment Study								0	$0
	Biological Assessment								0	$0
5.5	**Administrative Draft Initial Study/Environmental**								0	$0
5.6	**Draft Initial Study/Mitigated Negative Declaration**								0	$0
5.7	**Final Initial Study/Mitigated Negative Declaration**								0	$0
5.8	**Regulatory Permitting**								0	$0
5.9	**Coastal Development Permit**								0	$0
5.10	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 5 Environmental Clearance Subtotal:	**8**	**68**	**224**	**0**	**0**	**0**	**0**	**300**	**$54,132**
Task 6	**Preliminary Engineering (35%)**									
6.1	**Conceptual Design**									
	Bridge Type Selection Report								0	$0
	Conceptual Plans								0	$0
6.2	**Preliminary Engineering (35%)**									
	Technical Studies									
	Photometric Analysis								0	$0
	Stormwater Control Plan								0	$0
	Bridge Hydrology and Hydraulics Report								0	$0
	Water Quality Study								0	$0
	Plans (Traffic Management Plan)								0	$0
6.3	**Bridge Site Data Submittal Package**								0	$0
6.4	**Right of Way Verification**								0	$0
6.5	**Cost Estimate & Risk**									
	Cost Estimate								0	$0
	Project Rsk Matrix								0	$0
6.6	**Outreach**									
	Electronic Updates								0	$0
	Stakeholder Meeting								0	$0
	Pop-up Engagement								0	$0
6.7	**City Council Presentation**								0	$0
6.8	**Contract Management**									
	Project Management								0	$0
	Quality Control								0	$0
	Meetings								0	$0
	Task 6 Preliminary Engineering (35%) Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
	Total Labor Expenses:	**10**	**94**	**354**	**0**	**304**	**24**	**0**	**786**	**$112,063**
Reimbursable Expenses										
Airfare										$700
Lodging										$300
Meals										$240
Rental Car/ Fuel										$400
Research Fees										$50
	Total Reimbursable Expenses:									**$1,690**
	Total Fee:									**$113,753**

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		Fehr & Peers Traffic Engineers							
		Steve Davis Principal-in-Charge	Alexandra Lee-Gardner Project Manager | Senior Engineer/Planner III	Suzanne Luckjiff Senior Associate Engineer II	Kevin Zamzow-Pollock Senior Engineer/Planner III	Michelle Chung Graphics	Brandon Aviles Project Coordinator	Total Hours	Total Fee Proposal
Submittal Date: 06.23.26									
2026 Hourly Rate ($/ hour)		97.60	62.74	93.27	62.74	51.20	45.19		
Fringe		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
Overhead		175.97%	175.97%	175.97%	175.97%	175.97%	175.97%		
Profit		10%	10%	10%	10%	10%	10%		
Multiplier		3.0	3.0	3.0	3.0	3.0	3.0		
Billable Rate ($/ hour)		296.28	190.46	283.14	190.46	155.43	137.18		
Task 1	**Project Initiation & Scoping**								
1.1	**Project Kickoff**		4	4			2	10	$2,169
1.2	**Purpose & Need Development**							0	$0
1.3	**Stakeholder & Outreach Strategy**							0	$0
1.4	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
Task 1 Project Initiation & Scoping Subtotal:		**0**	**4**	**4**	**0**	**0**	**2**	**10**	**$2,169**
Task 2	**Data Collection & Existing Conditions**								
2.1	**Data Collection and Field Review**								
	Data Collection							0	$0
	Field Investigation							0	$0
	Traffic Data Collection	8	16	12	32	16	10	94	$18,769
	Geotechnical Investigation							0	$0
	Historic Architect Site Visit							0	$0
2.2	**Utility Coordination**							0	$0
2.3	**Bridge Condition Assessment Report & Basis of Design**								
	Draft							0	$0
	Final							0	$0
2.4	**City Council Update**							0	$0
2.5	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
Task 2 Data Collection & Existing Conditions Subtotal:		**8**	**16**	**12**	**32**	**16**	**10**	**94**	**$18,769**
Task 3	**Technical Studies & Deficiency Analysis**								
3.1	**Structural Evaluation**							0	$0
3.2	**Historic Architectural Assessment Reports (HPSR/HRER)**							0	$0
3.3	**Preliminary Bridge Hydrology and Hydraulics Report**							0	$0
3.4	**Seismic Screening**							0	$0
3.5	**Traffic & Operations**	4	24	12	32	16	10	98	$19,107
3.6	**Detour & Closure Analysis**	8	16	24	64	16	12	140	$28,535
3.7	**Environmental Constraints Memorandum**							0	$0
3.8	**Outreach**								
	Electronic Updates/Mailers							0	$0
	Stakeholder Meeting							0	$0
3.9	**City Council Update**							0	$0
3.10	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
Task 3 Technical Studies & Deficiency Analysis Subtotal:		**12**	**40**	**36**	**96**	**32**	**22**	**238**	**$47,642**
Task 4	**Alternatives Analysis & Advance Planning Study**								
4.1	**Develop Alternatives**								
4.2	**Alternatives Evaluation**							0	$0
4.3	**Bridge Advance Planning Study (APS)**							0	$0
4.4	**Recommended Alterantive**							0	$0
4.5	**Funding & Programming Support**							0	$0
4.6	**Detour & Closure Analysis**							0	$0
4.7	**Environmental Constraints Memorandum**							0	$0
4.8	**Outreach**								
	Electronic Updates/Mailers							0	$0
	Stakeholder Meeting							0	$0
	Pop-up Engagement							0	$0
4.9	**City Council Presentation**							0	$0
4.10	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
Task 4 Alternatives Analysis & Advance Planning Study		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 5	**Environmental Clearance**								
5.1	**Phase 1 Site Assessment**							0	$0
5.2	**Project Description**							0	$0
5.3	**Technical Studies**								
	Biological Resources Assessment							0	$0
	Aquatic Resources Delineation							0	$0
	Noise Study memorandum							0	$0
	Cultural Resources							0	$0
	Air Quality/Greenhouse Gas Emissions							0	$0
	Historic Resources Effects Reports (FAE/FNAE)							0	$0

STOCKTON AVENUE BRIDGE PROJECT

FEE PROPOSAL

		Fehr & Peers Traffic Engineers							
		Steve Davis Principal-in-Charge	Alexandra Lee-Gardner Project Manager | Senior Engineer/Planner III	Suzanne Luckjiff Senior Associate Engineer II	Kevin Zamzow-Pollock Senior Engineer/Planner III	Michelle Chung Graphics	Brandon Aviles Project Coordinator	Total Hours	Total Fee Proposal
	Submittal Date: 06.23.26								
	2026 Hourly Rate ($/ hour)	97.60	62.74	93.27	62.74	51.20	45.19		
	Fringe	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
	Overhead	175.97%	175.97%	175.97%	175.97%	175.97%	175.97%		
	Profit	10%	10%	10%	10%	10%	10%		
	Multiplier	3.0	3.0	3.0	3.0	3.0	3.0		
	Billable Rate ($/ hour)	296.28	190.46	283.14	190.46	155.43	137.18		
	(Optional) SOIS Action Plan							0	$0
	(Optional) MOA							0	$0
5.4	**Caltrans Technical Documentation**								
	Natural Environment Study							0	$0
	Biological Assessment							0	$0
5.5	**Administrative Draft Initial Study/Environmental**							0	$0
5.6	**Draft Initial Study/Mitigated Negative Declaration**							0	$0
5.7	**Final Initial Study/Mitigated Negative Declaration**							0	$0
5.8	**Regulatory Permitting**							0	$0
5.9	**Coastal Development Permit**							0	$0
5.10	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
	Task 5 Environmental Clearance Subtotal:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**
Task 6	**Preliminary Engineering (35%)**								
6.1	**Conceptual Design**								
	Bridge Type Selection Report							0	$0
	Conceptual Plans							0	$0
6.2	**Preliminary Engineering (35%)**								
	Technical Studies								
	Photometric Analysis							0	$0
	Stormwater Control Plan							0	$0
	Bridge Hydrology and Hydraulics Report							0	$0
	Water Quality Study							0	$0
	Plans (Traffic Management Plan)	8	24	32	24	24	10	122	$25,675
6.3	**Bridge Site Data Submittal Package**							0	$0
6.4	**Right of Way Verification**							0	$0
6.5	**Cost Estimate & Risk**								
	Cost Estimate							0	$0
	Project Rsk Matrix							0	$0
6.6	**Outreach**								
	Electronic Updates							0	$0
	Stakeholder Meeting							0	$0
	Pop-up Engagement							0	$0
6.7	**City Council Presentation**							0	$0
6.8	**Contract Management**								
	Project Management							0	$0
	Quality Control							0	$0
	Meetings							0	$0
	Task 6 Preliminary Engineering (35%) Subtotal:	**8**	**24**	**32**	**24**	**24**	**10**	**122**	**$25,675**
	Total Labor Expenses:	**28**	**84**	**84**	**152**	**72**	**44**	**464**	**$94,254**
Reimbursable Expenses									
Direct Costs: Count Data Collection and MileagDirect Costs: Count Data Collection and Mileage									$3,500
								Total Reimbursable Expenses:	**$3,500**
								Total Fee:	**$97,754**