

AGREEMENT FOR SERVICES

THIS AGREEMENT ("AGREEMENT") is made and entered into this _____ day of _____, _____, by and between the CITY OF MANTECA, a municipal corporation of the State of California (hereinafter referred to as "CITY"), and

Mark Thomas and Company, Inc.

Consultant

701 University Avenue,
Suite 200

Sacramento

CA

95825

MAILING ADDRESS

CITY

STATE

ZIP

a California corporation

N/A

STATE LICENSE CLASSIFICATION & NUMBER (if required)
hereinafter referred to as "CONSULTANT".

WITNESSETH:

A. WHEREAS, CITY desires to enter into this Agreement for services for the completion of the Project Approval and Environmental Document (PA&ED) Phase for CIP#23031 SR120/Airport Way and CIP#23032 SR120/Main Street Diverging Diamond Interchange (DDI) Projects.

B. WHEREAS, CITY desires to retain CONSULTANT to provide these services by reason of its qualifications, applicable license(s), and experience for performing such services, and CONSULTANT has offered to provide the required services on the terms and in the manner set forth herein.

NOW, THEREFORE, in consideration of their mutual covenants, the parties hereto agree as follows:

AGREEMENT

1. SCOPE OF SERVICES:

A. Consultant shall do all work, attend all meetings, produce all reports and carry out all activities necessary to complete the services described in **Exhibit "A"**. This AGREEMENT and its exhibits shall be known as the "Agreement Documents". Terms set forth in any Agreement Document shall be deemed to be incorporated in all Agreement Documents as if set forth in full herein. In the event of conflict between terms contained in these Agreement Documents, the more specific term shall govern. If any portion of the Agreement Documents is in conflict with any other portion or provisions contained in the AGREEMENT, the AGREEMENT shall govern over

the conflicting provisions contained in the exhibits to the AGREEMENT. To eliminate doubt, in the case of conflict between Consultant's proposal or Consultant's attachments and the City's AGREEMENT and attachments, the City's AGREEMENT and attachments shall take precedence over Consultant's proposal and attachments.

B. Consultant enters into this AGREEMENT as an independent contractor and not as an employee of the City. The Consultant shall have no power or authority by this AGREEMENT to bind the City in any respect. Nothing in this AGREEMENT shall be construed to be inconsistent with this relationship or status. All employees, agents, contractors or subcontractors hired or retained by the Consultant are employees, agents, contractors or subcontractors of the Consultant and not of the City. The City shall not be obligated in any way to pay any wage claims or other claims made against Consultant by any such employees, agents, contractors or subcontractors, or any other person resulting from performance of this AGREEMENT.

C. The Consultant agrees it has satisfied itself by its own investigation and research regarding the conditions affecting the work to be done and labor and materials needed, and that its decision to execute this AGREEMENT is based on such independent investigation and research.

2. TERM OF AGREEMENT

A. The services of Consultant are to commence upon execution of this Agreement and shall be completed and this AGREEMENT terminated on June 30, 2029, unless otherwise extended in writing by the mutual agreement of both parties.

B. The City Manager or designee may, by written instrument signed by the Parties, extend the duration of this AGREEMENT in the manner provided in Section 5, provided that the extension does not require the payment of compensation in excess of the maximum compensation set forth in Section 3, Compensation.

3. COMPENSATION:

A. The Consultant shall be paid in accordance to the attached Fee Schedule in **Exhibit "C"**. Consultant charges separately for certain costs incurred in the representation, as well as for any disbursements to third parties made on City's behalf. Such costs and disbursements include, for example, the following: mileage (at the IRS rate in effect at the time the travel occurs), overnight delivery and messenger services. Consultant shall be reimbursed for expenses related to travel, for example (flights, hotels, meals). However, Consultant shall not make travel arrangements or incur costs on behalf of City without prior written authorization to incur said expenses and in no event shall total compensation under this AGREEMENT exceed Three million dollars (\$ 3,000,000) without City's prior written approval. With written approval an additional Six hundred thousand dollars (\$ 600,000) can be made available via amendments.

B. Said amount shall be paid upon submittal of monthly billings showing completion of the tasks that month. Consultant shall furnish City with invoices for all expenses as well as for all materials authorized by this AGREEMENT. The invoices shall be submitted with the monthly billings.

C. If the work is temporarily suspended at the request of the City, compensation shall be based upon the portion of work completed as of the date of the suspension , subject to Section 4.

4. TERMINATION:

A. This AGREEMENT may be terminated by either party, provided that the other party is given not less than thirty (30) calendar days' written notice (delivered by registered mail) of intent to terminate.

B. The City may temporarily suspend this AGREEMENT, at no additional cost to City, provided that the Consultant is given written notice (delivered by certified mail, return receipt requested) of temporary suspension. If City gives such notice of temporary suspension, Consultant shall immediately suspend its activities under this AGREEMENT.

C. Notwithstanding any provisions of this AGREEMENT, Consultant shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of this AGREEMENT by Consultant, and the City may withhold any payments due to Consultant until such time as the exact amount of damages, if any, due the City from Consultant is determined.

D. In the event of termination, the Consultant shall be compensated as provided for in this AGREEMENT, except as provided in Section 4C. Upon termination, the City shall be entitled to all final work and draft work, including but not limited to, appraisals, inventories, studies, analyses, drawings and data estimates performed to that date in accordance with Section 7 herein.

5. AMENDMENTS, CHANGES OR MODIFICATIONS:

Amendments, changes or modifications in the terms of this AGREEMENT may be made at any time by mutual written agreement between the parties hereto and shall be signed by the persons authorized to bind the parties hereto.

6. EXTENSIONS OF TIME:

Consultant may, for good cause, request extensions of time to perform the services required herein. Such extensions shall be authorized in advance by the City in writing and shall be incorporated in written amendments to this AGREEMENT in the manner provided in Section 5.

7. PROPERTY OF CITY:

A. It is mutually agreed that all draft and final materials prepared by the Consultant under this AGREEMENT shall become the property of the City, and the Consultant shall have no property right therein whatsoever. Immediately upon termination, the City shall be entitled to, and the Consultant shall deliver to the City, all data, drawings, specifications, reports, estimates, summaries and other such materials as may have been prepared or accumulated to date by the Consultant in performing this AGREEMENT which is not Consultant's privileged information, as defined by law, or Consultant's personnel information, along with all other property belonging exclusively to the City which is in the Consultant's possession.

B. Additionally, it is agreed that the parties intend this to be an AGREEMENT for services and each considers the products and results of the services to be rendered by Consultant herein (the "Work") to be a work made for hire. Consultant acknowledges and agrees that the Work (and all rights therein, including, without limitation, copyright) belongs to and shall be the sole and exclusive property of the City.

8. COMPLIANCE WITH ALL LAWS:

A. Consultant shall comply with all applicable laws, ordinances, and codes of federal, State and local governments, and shall commit no trespass on any public or private property in performing any of the work authorized by this AGREEMENT. It shall be City's responsibility to obtain all rights of way and easements to enable Consultant to perform its services herein. Consultant shall assist City in providing the same.

B. Consultant warrants to the City that it is licensed by all applicable governmental bodies to perform this AGREEMENT and will remain so licensed throughout the progress of the Work, and that it has, and will have, throughout the progress of the Work, the necessary experience, skill and financial resources to enable it to perform this AGREEMENT.

9. WARRANTIES AND RESPONSIBILITIES - CONSULTANT:

A. Consultant agrees and represents that it is qualified to properly provide the services set forth in **Exhibit "A"** in a manner which is consistent with the generally accepted standards of Consultant's profession.

B. Consultant agrees and represents that the work performed under this AGREEMENT shall be in accordance with applicable federal, State and local law in accordance with Section 17A hereof.

C. Consultant shall designate a project manager who at all times shall represent the Consultant before the City on all matters relating to this AGREEMENT. The project manager shall continue in such capacity unless and until he or she is removed at the request of the City, is no longer employed by Consultant, or is replaced with the written approval of the City, which approval shall not be unreasonably withheld.

D. Consultant shall provide corrective services without charge to the City for services which fail to meet the above professional and legal standards and which are reported to Consultant in writing within sixty (60) days of discovery. Should Consultant fail or refuse to perform promptly its obligations, the City may render or undertake performance thereof and the Consultant shall be liable for any expenses thereby incurred.

10. SUBCONTRACTING:

None of the services covered by this AGREEMENT shall be subcontracted without the prior written consent of the City., which will not be unreasonably withheld. Consultant shall be fully responsible to the City for the negligent acts and omissions of its contractors and subcontractors, and of persons either directly or indirectly employed by them, as it is for the negligent acts and omissions of persons directly employed by Consultant.

11. ASSIGNABILITY:

Consultant shall not assign or transfer any interest in this AGREEMENT whether by assignment or novation, without the prior written consent of the City. However, claims for money due or to become due to Consultant from the City under this AGREEMENT may be assigned to a financial institution, or to a trustee in bankruptcy, without such approval. Notice of any assignment or transfer whether voluntary or involuntary shall be furnished promptly to the City.

12. INTEREST IN AGREEMENT:

Consultant covenants that neither it, nor any of its employees, agents, contractors, subcontractors has any interest, nor shall they acquire any interest, direct or indirect, in the subject of the AGREEMENT, nor any other interest which would conflict in any manner or degree with the performance of its services hereunder. Consultant shall make all disclosures required by the City's conflict of interest code in accordance with the category designated by the City, unless the City Manager determines in writing that Consultant's duties are more limited in scope than is warranted by the category designated by the City code and that a narrower disclosure category should apply. Consultant also agrees to make disclosure in compliance with the City conflict of interest code if, at any time after the execution of this AGREEMENT, City determines and notifies Consultant in writing that Consultant's duties under this AGREEMENT warrant greater disclosure by Consultant than was originally contemplated. Consultant shall make disclosures in the time, place and manner set forth in the conflict of interest code and as directed by the City.

13. MATERIALS CONFIDENTIAL:

All of the materials prepared or assembled by Consultant pursuant to performance of this AGREEMENT are confidential and Consultant agrees that they shall not be made available to any individual or organization without the prior written approval of the City, except by court order.

14. LIABILITY OF CONSULTANT-NEGLIGENCE:

Consultant shall be responsible for performing the work under this AGREEMENT in a manner which is consistent with the generally-accepted standards of the Consultant's profession and shall be liable for its own negligence and the negligent acts of its employees, agents, contractors and subcontractors. The City shall have no right of control over the manner in which the work is to be done but only as to its outcome, and shall not be charged with the responsibility of preventing risk to Consultant or its employees, agents, contractors or subcontractors.

15. INDEMNITY AND LITIGATION COSTS:

To the fullest extent permitted by law, Consultant shall indemnify, defend, and hold harmless the City, its officers, officials, agents, and employees against all claims, damages, demands, liability, costs, losses and expenses, including without limitation court costs and reasonable attorneys' fees, arising from Consultant's negligent acts or negligent failure to act, errors, omissions or willful misconduct incident to the performance of this AGREEMENT except such loss or damage caused solely by the active negligence, sole negligence, or willful misconduct of the City. The provisions of this paragraph shall survive termination or suspension of this AGREEMENT.

16. CONSULTANT TO PROVIDE INSURANCE:

A. Consultant shall not commence any work before obtaining, and shall maintain in full force at all times during the duration and performance of this AGREEMENT, the policies of insurance specified in this Section. Such insurance must have the approval of the City as to limit, form, and amount, and shall be placed with insurers with a current A.M. Best's rating of no less than "A" in Class VII (an NR rating is acceptable for Worker's Compensation insurance written with the State Compensation Insurance Fund of California).

B. Prior to execution of this AGREEMENT and prior to commencement of any work, the Consultant shall furnish the City with certificates of insurance and copies of endorsements providing evidence of coverage for all policies required by the AGREEMENT. The Consultant and its contractors and subcontractors shall, at their expense, maintain in effect at all times during the performance of work under the AGREEMENT not less than the following coverage and limits of insurance, which shall be maintained with insurers and under forms of policy satisfactory to the City. The maintenance by Consultant and its contractors and subcontractors of the following coverage and limits of insurance is a material element of this AGREEMENT. The failure of Consultant or of any of its contractors or subcontractors to maintain or renew coverage or to provide evidence of renewal may be treated by the City as a material breach of this AGREEMENT. Approval of the insurance by the City shall not relieve or decrease any liability of Consultant.

1. Commercial General Liability Insurance.

a. Consultant shall maintain commercial general liability insurance with coverage at least as broad as Insurance Services Office form CG 00 01 (or equivalent), in an amount not less than two million dollars (\$2,000,000) per occurrence and four million dollars (\$4,000,000) minimum limit for general aggregate for bodily injury, personal injury, and property damage, including without limitation, blanket contractual liability. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. Consultant's general liability policies shall be primary and shall not seek contribution from the City's coverage, and be endorsed using Insurance Services Office form CG 20 10 (or equivalent) to provide that City and its officers, officials, employees, and agents shall be additional insureds under such policies. For construction projects, an endorsement providing completed operations coverage for the additional insured, ISO form CG 20 37 (or equivalent), is also required.

b. Any failure to comply with reporting provisions of the policies by Consultant shall not affect coverage provided the City.

c. Coverage shall state that Consultant insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

d. Coverage shall contain a waiver of subrogation in favor of the City.

2. *Automobile Liability.* If vehicles are brought onto city facilities, Consultant shall maintain automobile liability with limits no less than one million dollars (\$1,000,000) minimum limit per accident for bodily injury and property damage.

3. *Workers' Compensation and Employers' Liability.* Consultant shall maintain Workers' Compensation Insurance and Employer's Liability Insurance with limits of at least one million dollars (\$1,000,000). Consultant shall submit to City, along with the certificate of insurance, a waiver of subrogation endorsement in favor of City, its officers, agents, employees, and volunteers. Consultant shall sign the Certificate of Compliance with labor Code 3700 (Exhibit B).

4. *Professional Liability.* Consultant shall maintain professional liability insurance that insures against professional errors and omissions that may be made in performing the Services to be rendered in connection with this Agreement, in the minimum amount of two million dollars (\$2,000,000) per claim and in the aggregate. Any policy inception date, continuity date, or retroactive date must be before the effective date of this agreement, and Consultant

agrees to maintain continuous coverage through a period no less than three years after completion of the services required by this agreement.

5. All Coverages.

a. Each insurance policy required by this Agreement shall be endorsed to state that coverage shall not be suspended, voided, cancelled, or reduced in limits except after thirty (30) days' prior written notice has been given to the City.

b. All self-insurance, self-insured retentions, and deductibles must be declared and approved by the City.

c. Evidence of Insurance - Prior to commencement of work, the Consultant shall furnish to the City certificates, additional insured endorsements, and waivers of subrogation evidencing compliance with the insurance requirements above. The Consultant must agree to provide complete, certified copies of all required insurance policies when requested by the City.

d. Acceptability of Insurers - Insurance shall be placed with insurers admitted in the State of California and with an A.M. Best rating of "A" Class VII or higher.

e. Subcontractors and Consultants - A category of risk and the applicable insurance requirements will be determined on a "per subcontractor" or "per consultant" basis, considering the particular work to be done by the subcontractor or consultant and the interrelationship of that work to other work being conducted by the Consultant.

6. No other provision of this Agreement or any attachment thereto shall reduce the insurance or indemnity obligations imposed under this Section.

C. In addition to any other remedy the City may have, if Consultant fails to maintain the insurance coverage as required in this Section, the City may obtain such insurance coverage that is not being maintained, in the form and amount substantially the same as is required herein, and the City may deduct the cost of such insurance from any amounts due or which may become due to Consultant under this AGREEMENT.

D. No policy required by this AGREEMENT shall be suspended, cancelled, terminated by either party, or reduced in coverage or in limits unless written approval is obtained by Consultant from the City.

E. Any deductibles or self-insured retentions in excess of \$10,000 must be declared to, and approved by, the City.

F. The requirement as to types, limits, and the City's approval of insurance coverage to be maintained by Consultant are not intended to, and shall not in any manner, limit or qualify the liabilities and obligations assumed by Consultant under the AGREEMENT.

17. MISCELLANEOUS PROVISIONS:

A. Compliance with Laws. Consultant shall keep itself fully informed of, shall observe and comply with, and shall cause any and all persons, firms or corporations employed by it or under its control to observe and comply with, applicable federal, state, county and municipal laws,

ordinances, regulations, orders and decrees which in any manner affect those engaged or employed on the work described by this AGREEMENT or the materials used or which in any way affect the conduct of the work.

B. Unlawful Acts. Consultant shall not engage in unlawful employment discrimination. Such unlawful employment discrimination includes, but is not limited to, employment discrimination based upon a person’s race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, gender, citizenship, or sexual orientation.

C. Record Retention. Consultant shall maintain and make available for inspection by the City and its auditors accurate records of all of its costs, disbursements and receipts with respect to any work under this AGREEMENT. Such inspections may be made during regular office hours at any time until six (6) months after the final payments under this AGREEMENT are made to the Consultant.

D. Notice. All notices that are required to be given by one party to the other under this AGREEMENT shall be in writing and shall be deemed to have been given if delivered personally or enclosed in a properly addressed envelope and deposited in a United States Post Office for delivery by registered or certified mail addressed to the parties at the following addresses:

City:

Beshoy Demyan
Senior Engineer
City of Manteca
1001 W. Center St.
Manteca, CA 95337

Consultant:

Matt Brogan
Vice President
Mark Thomas and Company, Inc.
701 University Ave, Suite 200
Sacramento, CA 95825
(916) 381-9100
mbrogan@markthomas.com

E. Governing Law and Venue. This AGREEMENT shall be interpreted and governed by the laws of the State of California, and any legal action relating to this AGREEMENT shall take place in the Superior Court, County of San Joaquin.

F. Waiver. Waiver of any breach or default under this Agreement shall not constitute a continuing waiver of a subsequent breach or default of the same or any other provision under this AGREEMENT.

G. Severability. If any provision of this AGREEMENT is held to be invalid, illegal or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions of this AGREEMENT shall continue in full force and effect.

H. Mediation. In the event of any controversy or claim arising out of or relating to this Agreement or the Services provided by Consultant (each referred to as a “Dispute” and all collectively referred to as the “Disputes”), the Parties shall try to resolve all Disputes through good faith, direct discussions involving the representatives of each Party who possess the necessary authority to resolve such Dispute. If direct discussions are unsuccessful in resolving a Dispute, the Parties shall endeavor to resolve the matter by mediation through and administered by JAMS or its successor in interest. JAMS shall provide the parties with the name of five (5) qualified

mediators. Each party shall have the option to strike two of the five mediators selected by JAMS, and thereafter the mediator remaining shall hear the dispute. If the dispute remains unresolved after mediation, either party may commence litigation.

I. Costs and Attorney' Fees. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action may recover its reasonable litigation expenses, including court costs, expert witness fees, discovery expenses, and attorneys' fees.

J. Entire Agreement. This AGREEMENT constitutes the entire agreement between the parties relative to the services specified herein and no modification hereof shall be effective unless and until such modification is evidenced by a writing signed by both parties to this AGREEMENT. There are no understandings, agreements, conditions, representations, warranties or promises, with respect to this AGREEMENT, except those contained in or referred to in writing.

K. Execution. This AGREEMENT may be executed in several counterparts, each of which shall constitute one and the same instrument and shall become binding upon the parties when at least one copy has been signed by both parties.

L. Authority to Enter Agreement Consultant warrants that it has all requisite power and authority to conduct its business and to execute, deliver, and perform this AGREEMENT. Each party warrants to the other that the signature to this AGREEMENT have the legal power, right, and authority to enter into this AGREEMENT and to bind each party.

M. California Prevailing Wage Requirement Pursuant to California Labor Code sections 1720 through 1861, the Consultant, its Contractor and all subcontractors shall ensure that all workers who perform work under this Agreement are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR), if applicable. This includes work performed during the design, site assessment, feasibility study, and other preconstruction phases of construction, including but not limited to inspection and land surveying work, regardless of whether any further construction work is conducted, and work performed during the post-construction phases of construction, including but not limited to all cleanup work at the jobsite. The most current prevailing wage determination can be found at <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm> .

THIS SPACE INTENTIONALLY LEFT BLANK.

ATTACHMENT 3

Agreement for Services

TO EFFECTUATE THIS AGREEMENT, each of the parties has caused this Agreement to be executed by its duly authorized representative as of the date set forth in the introductory paragraph on page 1 above.

CITY OF MANTECA:

CONSULTANT:

Toni Lundgren
City Manager

Mark Thomas and Company, Inc.
(Type name of Consultant/form of organization)*

ATTEST:

By: See attached Clerk Certificate

Cassandra Candini-Tilton,
Director of Legislative Services

(Signature)
Zach Siviglia, President
(Type name and title)

COUNTERSIGNED:

By: 

(Signature)

Matt Boring
Interim Director of Finance

Matt Brogan, Vice President
(Type name and title)

COUNTERSIGNED:

Address: 701 University Avenue, #200

Stephanie Van Steyn,
Director of Human Resources

Sacramento, CA 95825

Telephone: (916) 381-9100

APPROVED AS TO FORM:

Riana Daniel
Interim City Attorney



ATTACHMENT 3

CERTIFICATION OF CORPORATE AUTHORITY
Mark Thomas

The undersigned, Matt Brogan, Secretary of Mark Thomas. (the "Company"), HEREBY CERTIFIES as follows:

He is the duly elected Secretary of the Company, a California corporation.

At a meeting of the Board of Directors of the Company on June 20 2025, the following resolution was adopted:

RESOLVED: That certain individuals of this corporation, acting singly, be and hereby are authorized at any time and from time to time, to enter into contracts or other binding agreements (such as NDAs and teaming agreements) for the provision of services by the Company as follows:

1. Brandon Benton (Associate, Division Manager) and Aaron Silva (Associate, Division Manager) authorized up to the amount of \$1,500,000, or as delegated.
2. Ed Noriega (Associate Principal, Division Manager), Pat Somerville (Associate Principal, Division Manager), Darin Johnson (Associate Principal, Division Manager) Ben Porter (Associate Principal, Division Manager) and Kimberly Post (CFO) are authorized up to the amount of \$3,000,000, or as delegated.
3. Matt Brogan (Principal, Executive Vice President), Dave Moritz (Principal, Executive Vice President) Sasha Dansky (Principal, Executive Vice President), and Shawn O'Keefe (Principal, Executive Vice President) are authorized up to the amount of \$10,000,000, or as delegated.
4. Zach Siviglia (Principal, President, CEO) is authorized up to the amount of \$15,000,000, or as delegated.
5. Any contract in excess of \$15,000,000 is subject to the review of the Board of Directors and will be signed by Zach Siviglia (Principal, President ,CEO).

The signature authority, contract limit authorization, and delegation approved by this resolution is made may be revoked at any time at the discretion of Zach Siviglia (Principal, President, CEO).

According to the records of the Company in my possession as of this date, the above is a true and correct copy of said resolution, said resolution has not been amended or repealed, and is in full force and effect.

DATED June 20, 2025

A handwritten signature in blue ink that reads "R. M. Brogan".

Matt Brogan, Secretary

EXHIBIT A

Consultant Proposal/Scope of Work

SCOPE OF WORK

Mark Thomas will work with the City of Manteca (the City) to prepare and complete the Project Approval and Environmental Document (PA&ED) phase, to review design alternatives, and develop project approval for the SR 120 Airport Way Interchange. Mark Thomas will coordinate and facilitate conversations with Caltrans on completing the PA&ED phase, including alternatives analysis review. Based on initial review of alternatives, the L-9 alternative will likely be eliminated and the project will move forward with the Diverging Diamond Interchange. This scope of work assumes that the technical studies needed for this project and the SR 120 Main Street Interchange will be developed concurrently. This work also assumes that one alternative will be carried through environmental document.

The specific tasks within this scope of work are as follows:

TASK 1. PROJECT MANAGEMENT (WBS 100)

Task 1.1. Project Management (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will manage the project team, which includes managing the team, general project coordination with the City of Manteca, preparing contract paperwork, memo's, letters and e-mail, making phone calls, preparing invoices and monthly progress report and maintaining project files. This task includes Mark Thomas' internal management of the subconsultant's work to insure we are one team submitting work products to the City.

DELIVERABLES

- Coordination with stakeholders including, but not limited to, Caltrans, SJCOG, City of Manteca, and County of San Joaquin
- Coordination with Subconsultants

Task 1.2. Coordination and Meetings (WBS 100.10.05, 100.10.10, 100.10.15, 100.10.35)

Mark Thomas will establish a Caltrans Project Development Team (PDT) including members of the design team, City of Manteca, Caltrans, and other individuals critical to the project delivery. This task includes preparing agendas and summarizing the meeting notes, including action items. Action items will be tracked until resolved. This scope assumes a total of 24 virtual meetings over the anticipated 24-month schedule. We have assumed we will meet up to five times with other stakeholders, such as Caltrans, SJCOG, or the San Joaquin County

DELIVERABLES

- Caltrans Project Development Team (PDT) Meetings (24)
- Focus Meetings (5)
- Meeting Notices
- Meeting Agendas, Handouts/Exhibits, and Minutes
- Executed Cooperative Agreement



Task 1.3. Administration (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will maintain project files, this task includes managerial duties to keep the Project History file up to date and ensure a document management system is established.

DELIVERABLES

- Project Master Files
- Document Management System

Task 1.4. Schedule Control (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will update the Critical Path Schedule (CPM) on a monthly basis to track performance and identify issues that could either delay or accelerate the schedule. Each submittal will clearly be shown in the CPM and tracked for internal progress and external review periods. The CPM will be presented as a discussion item at each Project Development Team (PDT) meeting.

DELIVERABLES

- Project Schedule and Monthly Updates

Task 1.5. Quality Control (WBS 100.10.05, 100.10.10, 100.10.15)

The Mark Thomas Quality Control plan consists of established procedures for performing the work, including methods for design calculations, identification of regularly scheduled plan reviews, design checklists, and methods of project documentation. Specific methods for QA/QC will include:

- The Mark Thomas Quality Assurance Manager will perform an independent review of the reports and design documents at each submittal for consistency, constructability, and accuracy.
- Design Technicians will use a “review stamp” for each round of changes which will track who commented on the reports and design plans, who checked the drafting, and when the final product was reviewed again by the design engineer.

Mark Thomas will implement and maintain these quality control procedures during the preparation of documents throughout the project.

DELIVERABLES

- QA/QC Reviews
- Comment Tracking and Resolution

Task 1.6. Cost Control (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will develop a roadmap to successfully implement a change in scope or fee and detailing how it will be executed and monitored to minimize disruption to the project schedule. Mark Thomas will prepare monthly progress reports that identify any risks to the project scope or fee.

DELIVERABLES

- Change Management Plan
- Monthly Progress Reports

Task 1.7. Public Information Control (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas with the support of AIM Consulting will provide full-service community engagement to support the City of Manteca during the Project Approval and Environmental Document (PA&ED). The engagement program will ensure broad public awareness, inclusive participation, and meaningful input from residents, businesses, commuters, and stakeholders directly or indirectly affected by the improvements. All engagement activities will comply with Caltrans, FHWA, CEQA, and NEPA public involvement requirements.

Prepare Public Involvement Plan:

- Prepare a Public Involvement Plan (PIP) detailing engagement methods, materials, schedule, and roles.
- Identify stakeholder categories, equity priority areas, and community partners.
- Develop an initial outreach database including businesses, property owners, schools, neighborhood groups, and civic organizations.
- Participate in kickoff and early Project Development Team (PDT) meetings to align communication and documentation procedures.

Communication Collateral Development:

- Develop and update project fact sheets, FAQs, and overview boards for workshops and briefings.
- Produce flyers, mailers, social media graphics, and web content for each engagement round.
- Create PowerPoint presentations, press releases, and digital templates for City use.
- Ensure multilingual translation (e.g., Spanish and others as needed) and ADA accessibility.
- Coordinate with City and Caltrans for content accuracy and branding compliance.

Engagement Activities:

Phase 1 - Awareness and Early Input:

- Launch informational outreach via City and partner channels.
- Host an introductory public information meeting or open house.
- Distribute project flyers and social media content to raise awareness.
- Gather feedback on key issues, including traffic congestion, safety, and pedestrian/bicycle needs.
- Prepare a summary of comments and participation metrics.

Phase 2 - Alternatives Outreach:

- Coordinate with engineering and environmental teams on alternatives display and traffic data summaries.
- Conduct public workshops (up to 4) with interactive boards, visualizations, and surveys.
- Host pop-up outreach (up to 3) events near the interchange corridors, schools, and local events.
- Host up to 3 property owner/or stakeholder group meetings to inform input.
- Maintain virtual engagement tools such as an online interactive map or questionnaire.
- Document and categorize all feedback for environmental and design teams.

Phase 3 - Draft Environmental Document Review:

- Prepare notices, mailers, and flyers in compliance with CEQA/NEPA requirements.
- Host a public workshop (in-person and/or virtual).
- Provide facilitation, sign-in management, translation, and comment tracking.

- Prepare response summary tables for inclusion in the environmental record.

Outreach Management and Coordination:

- Serve as primary point of contact for community engagement throughout PA&ED.
- Coordinate monthly outreach coordination meetings with the City, Caltrans, and consultant team.
- Track and report engagement metrics, attendance, and feedback summaries.
- Maintain a public comment log and participation database for reporting and audit purposes.
- Manage outreach schedule, staff assignments, and production timelines.
- Provide quality assurance and quality control (QA/QC) for all public-facing materials.

DELIVERABLES

- Community Involvement Program
- Public Surveys
- Public Outreach Meetings and Materials
- Social Media Communication

TASK 2. PRELIMINARY ENGINEERING STUDIES AND DRAFT PROJECT REPORT (WBS 160)

Task 2.1. Review Updated Project Information (WBS 160.05)

Mark Thomas will review existing information or anything that may have changed since PSR-PDS were and meet with the City to discuss any items that need to be addressed before team proceeds.

Task 2.2. Completion of the Caltrans ABC Process (WBS 160.10)

Mark Thomas will submit A, B & C materials for Caltrans review and approval including a geometric control plan along with flight and camera calibration info provided by subconsultant Aerotech Mapping. Mark Thomas will set up to twelve (12) durable flight control points with crosses. Flight control will be set outside of the traveled way of SR 120.

Task 2.3. Utility Locations (WBS 160.10)

Mark Thomas will prepare Utility "A" Letters to request updated utility information for their facilities. We assume Mark Thomas will mail the "A" letters and track the responses.

Mark Thomas will use the information gathered by the Utility "A" Letter process to identify potential utility conflicts. We will contact the utility companies to help identify the costs of relocations and also make a preliminary determination of "prior rights" to establish the cost to be used in the Right-of-Way Data Sheet. Any potential utility policy exceptions will be identified in this phase, however processing the actual utility encroachment exception will be a final design task.

Due to the close proximity of Airport Way overcrossing to overhead transmission electric line and a transmission gas line, Mark Thomas will conduct 2 potholes on the gas line to confirm gas line alignment.

DELIVERABLES

- Community Involvement Program

- Public Surveys
- Public Outreach Meetings and Materials
- Social Media Communication

Task 2.4. Engineering Studies (WBS 160.10)

Structures Advanced Planning Study (APS)

Mark Thomas will develop an additional Structure Advance Planning Studies (APS) for the bridge widening, retaining walls and bike path bridges for the Diverging Diamond Alternative. An APS Design Memo will document structure alternatives considered, construction staging, constructability, and assumed foundation type. A Preliminary Foundation Memo and square-foot cost estimates for each structure alternative will be included. The approved APS will be included as part of the Project Report.

Preliminary Geotechnical Design Report

Crawford will prepare a PGDR to provide preliminary geotechnical design recommendations for the project based on an initial evaluation of geologic hazards; review of previous Geotechnical Reports (if available), geologic maps, soil surveys, aerial photos; review of the project plans/alternatives; analysis; and a site visit. The report will include a summary of the expected subgrade and groundwater conditions; available boring data; expected excavatability and use of onsite materials as backfill; slope stability discussion; potential seismic hazards (liquefaction, surface fault rupture, seismic slope stability, lateral spreading); preliminary seismic and ground motion parameters; preliminary percolation values based on book values; and recommendations for future fieldwork and studies.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed.

Following receipt of all draft PGDR review comments and concurrence with Caltrans, Crawford will prepare and submit a final PGDR incorporating the comments as necessary.

Bridge Preliminary Foundation Report

Crawford will prepare a Preliminary Foundation Report (PFR) for the overcrossing location that will address alternatives considered. Crawford will supplement the existing subsurface data by completing one boring near the bridge for the interchange improvements.

Crawford will prepare a Preliminary Foundation Report (PFR) for the overcrossing (consistent with current Caltrans guidelines/format) for review and comment by the design team. The report will provide a site/project description, summarize site geology and geologic reconnaissance, and available previous geotechnical data. Earth materials and foundation conditions will be discussed including seismic criteria and the design ARS curve. The report will discuss preliminary foundation types (e.g., spread footings, driven piling and cast-in-drilled-hole piling) and anticipated pile lengths; structure foundation conditions/constraints, and include construction considerations. The PFR will include the main overcrossing widening and the proposed on/off ramp bridges.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed.

Following receipt of all draft PFR review comments and concurrence with Caltrans, Crawford will prepare and submit a final PFR incorporating the comments as necessary.

Assumption: No subsurface exploration will be completed.



Initial Site Assessment

Crawford will prepare an Initial Site Assessment (ISA) to evaluate each project site and adjacent properties for evidence of recognized environmental conditions (RECs) and/or potential RECs that may significantly impact the project. The ISA will be prepared in accordance with the procedures set forth in Caltrans' Standard Environmental Reference, Chapter 10.

The ISA will include:

- Review and discuss the project with the City of Manteca and the design team.
- Review available project documents and reports, including APN parcel maps, site geology and ground water data, for evidence of suspected or known contamination/hazardous materials issues (such as pesticide usage, orchards, etc.).
- Conduct a limited site reconnaissance to observe current land use and indications of potential contamination at the site, and to view publicly accessible portions of the adjacent properties.
- Review owner representative provided information, if available, regarding past and present operations conducted on the property to assess the potential for RECs.
- Review historical aerial photographs, topographic maps, and soil maps of the site and surrounding properties for indications of site use and potential sources of contamination.
- Conduct a review of federal, state, and city records for indications of the use, misuse, or storage of hazardous and/or potentially hazardous materials on or near the site. The federal, state, and city database search will be provided by a professional record check service.
- If warranted by the records search or site reconnaissance, reasonable attempts will be made to interview persons identified as knowledgeable about potentially contaminated locations within or adjacent to the project site to obtain information indicating their potential impacts to the project. Interviews may be conducted in person, by telephone, or in writing. Individuals interviewed might include owners, occupants, local government officials, or others.
- Prepare a report summarizing the findings of our review, site reconnaissance, property owner interviews, historical photograph evaluation, and regulatory records review. We will address identified potential contamination and hazardous material impacts to provide recommendations and determine additional investigation and analysis.

Preliminary Materials Report

Crawford will complete a materials engineering evaluation, general following Caltrans guidelines. The PMR will include a project description; site description; existing pavement and other material conditions; summary of the previous geotechnical or materials studies/explorations, soils surveys, geologic maps used to develop the report; preliminary pavement section (utilizing the R-value tests from Task 2.3); preliminary corrosion considerations; and recommended field work and laboratory testing to be completed during future phases.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed. Following receipt of all Draft PMR review comments and concurrence with Caltrans, Crawford will prepare and submit a Final PMR incorporating the comments as necessary.

Design Standard Decision Document (DSDD)

During the refinement of the project alternatives Mark Thomas will identify features that do not meet current Caltrans Design Standards. Design exceptions will be required. Mark Thomas will prepare a draft Design Standard Decision Document (DSDD). The draft DSDD will be submitted to Caltrans for review and approval. The approved DSDD will be included as an attachment to the Draft Project Report because there is only one build alternative. A Design Information



Bulletin 78 design checklist will be submitted with the GADs. The checklist documents conformance with applicable design standards. We anticipate one (1) review by Caltrans District 10 and a final review/ approval by Caltrans Headquarters Project Delivery Coordinator because both underlined and bold design exceptions are anticipated.

Life Cycle Cost Analysis for Recommended Alternatives

Mark Thomas will prepare the Life-Cycle Cost Analysis (LCCA) using the current RealCost Version. We will follow the flowchart Figure 2-2 for Lane Widening to select the design life and pavement type.

Value Analysis

Mark Thomas will request an exception to prepare a Value Analysis. Mark Thomas as the ability to participate in a VA Study as needed. If a VA Study is required the 3rd party facilitator is not included as part of this scope.

DELIVERABLES

- Structures Advanced Planning Study (APS)
- Preliminary Geotechnical Design Report
- Bridge Preliminary Foundation Report
- Initial Site Assessment
- Preliminary Materials Report
- Design Standard Decision Document (DSDD)
- Life Cycle Cost Analysis for Recommended Alternatives
- Value Analysis, or Exception

Task 2.5. Traffic Studies (WBS 160.10)

Traffic Management Plan

Consistent with Caltrans standards, Mark Thomas will prepare a Traffic Management Plan (TMP) checklist and for inclusion in the Project Report. This will include a review of traffic control restrictions, recommendations for anticipated lane closures, construction staging/traffic requirements, COZEEP requirements, and a review of construction strategies. The TMP will be submitted to Caltrans for approval and will be included as an attachment to the Project Report.

Traffic Analysis Methodology

Fehr & Peers will prepare a draft Traffic Analysis Assumptions and Methodology Memorandum that lists the assumptions and methodology for the data collection process, travel demand forecasting, intersection and freeway operations and safety analysis, and vehicle miles traveled (VMT) impact analysis and mitigation. After review by the project team, we will respond to one set of comments and provide a final Traffic Analysis Assumptions and Methodology Memorandum. The final memo will serve to update and refine the initial traffic analysis tasks outlined below.

Traffic Data Collection

Fehr & Peers will collect weekday peak period (6 to 9 AM and 3 to 6 PM) intersection turning movement counts for the following study intersections.

SR 120/Airport Way Interchange

1. Airport Way/Daniels Street
2. Airport Way/SR 120 Westbound Ramps
3. Airport Way/SR 120 Eastbound Ramps
4. Airport Way/Atherton Drive



Intersection counts will also be collected at the following freeway interchange ramp terminal intersections to obtain ramp volumes for use in the freeway operations analysis.

- McKinley Avenue/SR 120 Westbound Ramps
- McKinley Avenue/SR 120 Eastbound Ramps
- Union Road/SR 120 Westbound Ramps
- Union Road/SR 120 Eastbound Ramps

The turning movement counts will be collected on a midweek day (Tuesday, Wednesday, or Thursday) while schools are in session and during fair weather. The counts will include heavy vehicles, bicycles, and pedestrians. Fehr & Peers will also conduct field reconnaissance to observe AM and PM peak-period traffic operations at the study intersections listed above.

Fehr & Peers will collect weekday peak period (6 to 9 AM and 3 to 6 PM) volumes from the Caltrans Performance Measurement System (PeMS) database for the following freeway mainline and ramp locations.

- Eastbound SR 120 between Yosemite Avenue and McKinley Avenue
- Eastbound SR 120 to northbound SR 99
- Eastbound SR 120 to southbound SR 99
- Northbound SR 99 to westbound SR 120
- Southbound SR 99 to westbound SR 120

Fehr & Peers will request collision data from the most recent five-year period from Caltrans for the freeway mainline and ramps in the project area. We will request traffic signal timing plans for the existing signalized intersections from the City of Manteca and Caltrans.

Existing Conditions Analysis

Fehr & Peers will analyze traffic operations according to guidance from the *Highway Capacity Manual 7th Edition* (2022). Signalized and stop-controlled intersections will be analyzed using the Synchro/SimTraffic traffic simulation analysis software so that the interaction of adjacent signalized intersection can be measured. Simulation analysis also provides more accurate estimates of queue length since storage lengths and the effect of queue blockage is specifically modeled. Following Caltrans District 10 process, the following measures of effectiveness will be reported for each turning movement: served volume, intersection delay, level of service, and 95th percentile queue length. Additionally, the following network wide performance measures will be reported:

- | | |
|--------------------------|--------------------------------|
| • Demand volume | • Vehicle miles traveled (VMT) |
| • Served volume | • Vehicle hours of travel |
| • Percent demand served | • Average speed |
| • Total stops | • Fuel used |
| • Stops per vehicle | • Total emissions |
| • Vehicle hours of delay | |

The SimTraffic analysis will be based on an average of 12 runs with each run recording a one-hour analysis period. The analysis period will consist of four 15-minute intervals with the PHF adjustment applied for the second interval and the anti-PHF adjustment applied for the other three intervals.

The freeway study segments will be analyzed using the HCS traffic analysis software that applies the HCM procedures to analyze basic, merge, diverge, and weave segments. The analysis segments for existing conditions are listed below.

Eastbound SR 120

- McKinley Avenue Off-ramp (Diverge)
- McKinley Avenue Off to On-ramp (Basic)

Westbound SR 120

- SR 99 to Main Street (Basic)
- Main Street Off-ramp (Diverge)

- McKinley Avenue On-ramp (Merge)
- Airport Way Off-ramp (Diverge)
- Airport Way Off to On-ramp (Basic)
- Airport Way to Union Road (Weave)
- Union Road Off to On-ramp (Basic)
- Union Road to Main Street (Weave)
- Main Street Off to On-ramp (Basic)
- Main Street On-ramp (Merge)
- Main Street to SR 99 (Basic)
- Main Street Off to On-ramp (Basic)
- Main Street to Union Road (Weave)
- Union Road Off to On-ramp (Basic)
- Union Road to Airport Way (Weave)
- Airport Way Off to On-ramp (Basic)
- Airport Way On-ramp (Merge)
- McKinley Avenue Off-ramp (Diverge)
- McKinley Avenue Off to On-ramp (Basic)
- McKinley Avenue On-ramp (Merge)

For each interchange, we will report the results for the subject interchange and the adjacent interchanges for the AM and PM peak hours. For example, the SR 120/Airport Way interchange analysis will report the results for the McKinley Avenue, Airport Way, and Union Road interchanges. The HCM methodology is an isolated analysis, so the recurrent congested conditions in the eastbound direction that extends from the SR 99 interchange into the study area will not be reflected in the analysis results for upstream segments. We will note where the analysis results do not match observed congested conditions.

Fehr & Peers will prepare a draft Existing Conditions Report for each interchange that will document the data collection, traffic forecasts and operations analysis methodology, and existing conditions analysis results. After review by the project team, we will respond to one set of comments and prepare a final Existing Conditions Report for each interchange.

Traffic Forecasts

Fehr & Peers proposes to apply the most recent version of SJCOG's three-county model (San Joaquin, Stanislaus, and Merced) to prepare travel demand forecasts. Although the Traffic Engineering Performance Assessment (TEPA) indicates that the three-city model (Lathrop, Manteca, and Ripon) would be used for the PA/ED phase, Caltrans District 10 staff have recently requested the three-county model for other interchange projects in the City of Lathrop. The three-city model tends to overestimate land use growth within its planning horizon, whereas the three-county model constrains land use growth, making it a more reasonable basis for sizing infrastructure improvements for a specified design year. We will review and update the roadway networks and land use inputs in the project vicinity for the base year model to match current conditions. The base year model will be validated to the collected AM and PM peak hour traffic volumes. The cumulative year model will be similarly reviewed in the project vicinity to ensure that planned roadway and land use changes are accounted for.

Using the existing traffic counts and the base and cumulative year forecast model volumes, Fehr & Peers will prepare opening year and design year traffic forecast volumes for the study intersections under the No Build and build alternatives during the AM and PM peak hours. Daily volume forecasts for SR 120, Airport Way, and Main Street will be prepared to support air quality analysis, noise analysis, and pavement design. The forecasting process will use the difference and ratio methods as appropriate according to guidance from *NCHRP Report 765: Analytical Travel Forecasting Approaches for Project-Level Planning and Design* (2014). The intersection forecasts will be prepared for the No Build Alternative and one build alternative for each interchange.

Fehr & Peers will prepare a draft Travel Demand Model Validation and Forecasting Memorandum for each interchange that will document the base year model validation and the traffic forecasts for the study intersections and freeway segments. After review by the project team, we will respond to one set of comments and prepare a final Travel Demand Model Validation and Forecasting Memorandum for each interchange.

Future Conditions Analysis

Starting with the traffic operations models developed for existing conditions, Fehr & Peers will develop opening year and design year intersection operations analysis models in the Synchro/SimTraffic software. AM and PM peak hour conditions will be analyzed for the No Build and one build alternative for each interchange. Similarly, opening year and design year freeway analysis models will be developed in the HCS software. AM and PM peak hour conditions will be analyzed for the No Build and one build alternative for each interchange.

Fehr & Peers will conduct a multimodal assessment for one build alternative at each interchange. The effect of the proposed alternatives on the pedestrian, bicycle, and transit system will be discussed. Fehr & Peers will determine the ramp meter storage requirements according to the Ramp Meter Design Manual guidance according to passenger vehicle and truck volumes.

The PID, approved in 2024, included the ICE analysis, which satisfied Caltrans' requirements at the time. As a result, the current ISOAP evaluation is not expected to be required and is thus not included in this work plan.

Traffic Operations Analysis Report

Fehr & Peers will prepare a draft Traffic Operations Analysis Report for each interchange that documents the data collection, traffic forecasts, and traffic operations analysis. Fehr & Peers assumes that the traffic analysis findings will be integrated into the CEQA and/or NEPA documents by others. After review by the project team, Fehr & Peers will respond to one set of comments and prepare the final Traffic Operations Analysis Report. The draft and final reports will be submitted in Microsoft Word and Adobe PDF formats.

VMT Analysis and Mitigation

As part of the PID process, Fehr & Peers provided preliminary induced VMT forecasts for the VMT Decision Documents (VMTDDs). The method for the VMTDDs was the California Induced Travel Calculator, which is only capable of producing a positive forecast when a project is increasing Class 1, 2, or 3 lane miles. As a result, the method may not fully capture the unique context of interchange improvements and may overstate the induced VMT effect.

As a first item of work, Fehr & Peers will conduct an updated review of the previous VMTDD results and provide a summary of the strengths and limitations of the Calculator methodology as well as a description of the alternative methodology of using the SJCOG regional travel demand model. The results will be presented to the PDT to determine the preferred method. If the PDT determines that the elasticity method is the appropriate approach, Fehr & Peers will update the calculations based on the latest version of the Calculator. If the SJCOG model methodology is selected, it would trigger Optional Task.

Safety Assessment

Fehr & Peers will use safety analysis methods from the *Highway Safety Manual* (AASHTO, 2010) to evaluate and support documentation related to the design exceptions that are part of each interchange's preferred alternative. After the preferred alternatives are selected, the safety analysis will be conducted for specific design exceptions identified by the PDT. The safety analysis will use crash modification factors (CMFs) from reputable sources, such as FHWA's Crash Modification Factor Clearinghouse, to document the potential difference in safety performance between the proposed design feature and the standard feature. In circumstances where CMFs are not available, a qualitative assessment will be provided. The result of this analysis will be a memorandum documenting the findings organized by non-standard design features.

Cost Planning

Fehr & Peers will prepare preliminary construction cost estimates for electrical transportation elements of the proposed SR 120/Airport Way and SR 120/Main Street interchanges. This includes estimates for traffic signal installations, modifications, and removals; highway and street lighting systems; ramp metering systems; fiber optic cable systems; CCTV camera systems; changeable message signs; traffic monitoring station systems; and weather stations.

DELIVERABLES

- Traffic Management Plan Checklist
- Existing Traffic Analysis Conditions Report
- Traffic Forecasts/Modeling
- Future Conditions Analysis
- Travel Demand Model Validation and Forecasting Memorandum
- Traffic Operations Analysis Assumptions and Methodology Memorandum (TOAR)
- Updated Review of VMT Decision Documents (VMTDDs)
- Forecast VMT Using Travel Demand Model (optional)
- Safety Assessment
- Safety Analysis to Support the Selection of Preferred Alternative

Task 2.6. Hydraulic/Hydrology Studies (WBS 160.10)

Drainage Report

Mark Thomas will obtain all relevant drainage information, including storm drain facilities, ditches, pipe location and sizes, local rainfall intensities and flows. A hydrologic analysis will be completed to develop watershed boundaries for the areas draining to this project, flows based on Caltrans standards, and preliminary drainage concepts.

A drainage report will be developed based on Caltrans guidelines. The report will include, but not be limited to, detailed discussions of the following: existing conditions, off-site hydrology and hydraulics, onsite roadway drainage, existing and post project drainage patterns, storm water quality, and other topics of significance.

Storm Water Data Report

Mark Thomas will prepare a Storm Water Data Report in accordance with Caltrans procedures based on information collected in the Drainage Report.

DELIVERABLES

- Storm Water Data Report
- Hydraulics/Hydrology Drainage Report

Task 2.7. Right of Way Requirements (WBS 160.10)

Mapping and Exhibits

Mark Thomas will prepare Right of Way requirements exhibits as well as utility conflict maps to be used to develop the Right of Way Data Sheet.

Right of Way Data Sheet

Monument will coordinate with the design team to identify right-of-way acquisitions resulting from the proposed improvements. Additionally, Monument will provide information about existing conditions within the project limits including, land use, and any existing rights or encumbrances known to exist on the affected properties. The specific steps Monument will take to determine impacts and estimate costs are as follows:

- Perform a GIS analysis to identify property and rights potentially affected by the proposed design
- Use publicly available data and other real estate resources to confirm the ownership, land use, zoning, lot size, and improvements for each affected property.
- Perform a desktop inspection of properties to confirm the probable acquisition type (fee, easement, temporary construction easement, etc.) including identifying existing uses or personal property to be relocated (if any).
- Calculate the fee and/or easement area (including temporary construction easements) that will need to be acquired for each impacted property using design data and assessor boundary information.
- Estimate the total capital cost of acquisition for all parcels including real estate costs, relocation assistance, severance damages, loss of goodwill, fixtures and equipment, demolition and clearance.
- Estimate permit costs.
- Estimate the total support cost for all parcels including appraisal fees, condemnation costs, title and escrow fees, environmental fees, and consultant fees as necessary.
- Escalate costs to anticipated right-of-way acquisition date.
- Prepare a draft Caltrans Right of Way Data Sheet using Caltrans Exhibit 17-EX-21 (Right of Way Data Sheet for Local Public Agencies) for the Build Alternatives.
- Update the RWDS based on comments from the design team and the City and submit a final Draft RWDS.
- Respond to comments from Caltrans R/W as necessary and make required updates to the Data Sheets.

DELIVERABLES

- Right of Way Data Sheet
- Utility Conflict Maps (30%)
- Right of Way Needs Summary/Exhibit
- Property Access Rights for Environmental/Engineering Studies

Task 2.8. Draft Project Report (WBS 160.15)

Mark Thomas will prepare the Draft and Final Project Report (PR) for distribution, review and approval by the City, Caltrans, and selected PDT members.

As a first item of work, Mark Thomas will update the Risk Register to include items such as VMT or any other items that may need to be updated. This risk register will be reviewed by the PDT and will be updated again prior to the draft submittal of the Project Report.

Concurrent with environmental document submittals, we will prepare the Project Report (PR) for distribution, review and approval by Caltrans, and the rest of the PDT. The PR will be prepared in conformance with Caltrans Project Development Procedures Manual latest guidelines and format style will include the supporting information (GADs, Traffic Studies, Cost Estimates, etc.) listed above.

Mark Thomas will prepare a design exhibit that highlights project geometric layout, lane configurations, signal locations, preliminary drainage, and potential utility conflicts.

The Draft PR requests approval to circulate environmental document, it will be submitted in Draft Form (full District circulation), Draft Final (limited, management review) and Final Form (District circulation copies), for a total of three submittals.

DELIVERABLES

- Draft Project Report



- Cost Estimates for Alternatives
- Geometric Approval Drawings for Recommended Alternatives
- Risk Register
- Design Exhibit

Task 2.9. Land Surveys (WBS 160.20)

Task 2.9.1. Land Net Surveys

Mark Thomas will complete a boundary survey to delineate the existing right of way for SR120 and Airport Way. Mark Thomas will conduct record research at the County and with Caltrans to obtain record maps. Monuments identified on record maps along with other physical evidence will be located in the field to aid in the retracement for right of way and parcel lines impacted by the project. It is assumed that up to twelve (12) parcels along the right of way will be impacted and up to twelve (12) preliminary title reports will be ordered by Mark Thomas to review and plot all encumbrances and easements shown in the title reports. The boundary survey completed for this task will be known as the "Land Net" for the project.

Task 2.9.2. Control Surveys

Mark Thomas will base the project control on the California Coordinate System of 1983 (CCS83), Zone 3, Epoch 2017.50 and vertically upon the North American Vertical Datum of 1988 (NAVD88). Mark Thomas will set up to twelve (12) flight panels for aerial mapping. The control set for this task will be a part of the Caltrans B submittal for Aerotriangulation Adjustment Report and Ground point file. Horizontal values for project control and flight panels will be collected with GPS methods and elevations will be determined by a closed level loop.

Task 2.9.3. Aerial Surveys

Mark Thomas will coordinate with subconsultant Aerotech Mapping to complete aerial mapping along SR120 at Airport Street. The flight will adhere to Caltrans ABC Photogrammetric Mapping standards and will undergo Caltrans review and approval.

Task 2.9.4. Supplemental Topo

Mark Thomas will collect supplemental topography of existing bridge vertical clearance and identified utilities. Field surveys and survey work products will be completed in conformance with the current edition (with updates) of the Caltrans Survey Manual. Mark Thomas will combine aerial photogrammetric mapping and supplemental field topography to develop a digital terrain model for the project. This scope of work is limited to three (3) days of field work.

Task 2.10. Environmental Study Request (WBS 160.30)

Mark Thomas will prepare mapping for the environmental study request. This mapping will include project impact maps as well as compiled survey data to be used in the technical studies. This also includes any access right to enter to conduct any environmental studies.

DELIVERABLES

- Mapping for Environmental Study Report
- Surveys and Mapping for Environmental Studies
- Property Access Rights for Environmental/Engineering Studies

TASK 3. ENVIRONMENTAL STUDIES AND ENVIRONMENTAL DOCUMENTATION (WSB 165)

Task 3.1. Environmental Document Initiation/Project Description (WBS 165.25)

The Mark Thomas team will draft a CEQA/NEPA project description with supporting figures. The project description will include the purpose and need statement, project construction and operational information, project background, and setting information. It is assumed there will be one of the project description from the City and one from the PDT, for a total of three submittals.

DELIVERABLES

- Project Description
- Area of Potential Effects Map (APE)

Task 3.2. Technical Studies (WBS 165.25)

To support the CEQA/NEPA clearance, we anticipate Caltrans will require the following technical studies. For the purposes of this scope and fee, we have assumed a limited number of hours to respond to Caltrans comments on technical reports. If Caltrans reviewers require multiple rounds of review, additional reviews will be charged on a time and materials basis.

Task 3.2.1. CIA

The Mark Thomas team will complete a Community Impact Assessment using the latest template available from the Caltrans SER. The draft CIA will include analysis of all relevant topics, including land use, parks and recreation, farmlands/timberlands, growth, population and housing, economics, environmental justice, and equity. The CIA will also include a summary of Section 4(f)/6(f) analysis.

Task 3.2.2. VIA

The Mark Thomas team will prepare the required VIA checklist/questionnaire for Caltrans review and concurrence. For the purposes of this scope, we assume the project will score between 19 and 28, requiring preparation of a VIA Memorandum. Accordingly, Mark Thomas will prepare the VIA for Caltrans review. The VIA Memorandum will follow all Caltrans requirements and will be in Caltrans format. A licensed landscape architect will oversee the preparation of the VIA questionnaire and VIA Memorandum. Up to two visual simulations are proposed.

Task 3.2.3. Section 4(f)

Based on the project type and location, we don't anticipate a use of Section 4(f)/6(f) resources. Therefore, we propose a 4(f)/6(f) memorandum that documents potential resources near the project and demonstrates no use.

Task 3.2.4. Other Technical Studies

Air Quality/GHG: LSA will prepare an Air Quality Report (AQR) that documents the study results consistent with Caltrans SER AQR Annotated Outline. Construction related air pollutant emissions will be quantified using California Emission Estimator Model (CalEEMod) or another appropriate model as directed by Caltrans. Caltrans Standard Specifications for Construction, as well as mitigation measures, if necessary, will be recommended to reduce short-term, construction related impacts. Operational air pollutant emissions will also be quantified using CalEEMod, CT-EMFAC, or another

appropriate model as directed by Caltrans. The greenhouse gas (GHG) analysis would be based on the SER Climate Change Annotated Outline for a capacity increasing project and/or the most recent guidance available from Caltrans related to GHG emissions and climate change analysis requirements. This task will start after preparation of the traffic analysis.

LSA will prepare an Air Quality Conformity Analysis (AQCA) consistent with the most recent SER *Air Quality Conformity Analysis Annotated Outline*. LSA will prepare the associated AQCA Cover Letter and Air Quality Conformity Findings Checklist. LSA will prepare the PM Conformity Hot Spot Analysis Project Summary Form for Interagency Consultation to allow the San Joaquin Council of Governments (SJCOG) and the San Joaquin Valley Interagency Consultation Group (ICG) to determine whether a project requires a project-level PM hot-spot analysis pursuant to Federal Conformity Regulations, and to confirm that the project is not a Project of Air Quality Concern (POAQC). This scope assumes the preparation of a quantitative PM10 and PM2.5 Hot-Spot assessment would not be required. A qualitative Mobile Source Air Toxic (MSAT) analysis will be prepared according to *FHWA Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents*.

LSA will schedule and participate in an Interagency Consultation meeting, and will assist in the preparation of meeting materials. It is assumed that the specialist who prepared the project's traffic analysis will be at the presentation to assist with any traffic-related questions. To support the required 30-day public review period, LSA will prepare a draft public notice. Fees for the public notice will be the responsibility of Caltrans.

Biological Resources: LSA will conduct a records search of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB), California Native Plant Society's Rare Plant Inventory, and a species list request from the United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) online system to identify sensitive or special-status biological resources that have been reported from the project vicinity and may have potential to occur within the biological study area.

An LSA biologist familiar with the habitats and biological resources of the region will conduct a general walkover field survey of the biological study area (i.e., project site plus 100-foot buffer on each side of the alignment, where access is available or viewed with binoculars from the property boundary where not accessible) to assess and map habitat conditions and record general plant and wildlife observations. The project is located within an urban corridor in the City of Manteca. In a review of available aerial photographs, there is open space within the interchange and the interchange overcrossing, which may provide habitat for sensitive species, such as western burrowing owl, Swainson's hawk, nesting birds, and roosting bats.

LSA will prepare a Natural Environment Study-Minimal Impacts (NES-MI) to document the results of the literature review and field surveys. The NES-MI will be prepared in accordance with Caltrans' Standard Environmental Reference (SER) template dated August 2022, or the most recent guidance available from Caltrans. The NES-MI will include a discussion of plant communities present in the biological study area, as well as a discussion of common plant and animal species occurring (or expected to occur) in the biological study area based on the plant communities present. A generalized vegetation map will be prepared showing plant community types as well as the locations of any sensitive biological resources incidentally observed during the survey. The NES-MI will include an assessment of project impacts on biological resources, and will recommend mitigation measures, where appropriate. Any special status species incidentally observed during the survey will be reported to the CNDDDB. This scope of work does not include focused surveys for special-status species. If these surveys are needed, a budget augment will be requested.

Cultural Resources: LSA will conduct cultural resource technical studies to address requirements of Section 106 and CEQA. LSA assumes the project will require preparation of an Area of Potential Effects (APE), Archaeological Survey

Report (ASR), a Historical Resources Evaluation report (HRER), and a Historic Property Survey Report (HPSR) in order to address the requirements described in the Section 106 PA. LSA's scope of work assumes that the field review for this project will occur concurrently with the field review for Project 2 (SR 120/Main Street).

On behalf of Caltrans, LSA will contact the Native American Heritage Commission (NAHC) in Sacramento for a review of the Sacred Lands File to determine if the APE contains any listed sites. LSA will also request a list of geographically affiliated Native American tribes that may have information or concerns about the project. LSA will provide the following Section 106 consultation assistance to Caltrans: Native American representatives on the NAHC's list will be contacted by letter and follow-up email to solicit input, and compilation of separate administrative records. LSA assumes preparing Department of Parks and Recreation (DPR) 523 Series records for a minimum of five (5) built environmental cultural resources, as appropriate. This number may change pending the outcome of consultation with the Caltrans Architectural Historian. LSA will update the DPR 523 Series records for a minimum of ten (10) built environmental cultural resources, as appropriate, identified in the previous studies that are in the APE. The updates will include an evaluation for listing in the NHRP. The newly prepared and updated DPRs will be appended to the HRER. If additional built environment resources are identified within or adjacent to the APE, Caltrans requires updating existing DPRs of other built environment resources in the APE, or Caltrans requires other related cultural resource technical studies to address built environment resources, LSA will develop a scope and budget to address the additional required study and prepare draft/final documentation per Caltrans and OHP guidelines. Based on currently available information, LSA believes a Finding of Effect (FOE) document to address historic properties is not required. If required, a supplemental scope and budget would be necessary.

Energy: LSA will evaluate the proposed project's potential for increasing the demand for energy during both construction and operation of the project, including diesel and gasoline fuel use for off-road construction equipment, on-road construction vehicles, and operational vehicle trips. LSA will prepare an Energy Memorandum summarizing this analysis.

Noise: LSA will prepare a Noise Study Report (NSR) consistent with the April 2020 Caltrans Traffic Noise Analysis Protocol, September 2013 Technical Noise Supplement (TeNS), and the annotated outline provided by the Caltrans SER. The NSR will identify traffic noise impacts on land uses located adjacent to the proposed project. The areas with potential traffic noise impacts under the design year with project scenario will be identified using land use information, aerial photographs, and field reconnaissance. A discussion of any existing sensitive uses and approved future uses in the project vicinity will be included.

Ambient noise level measurements will be conducted to establish the existing noise environment at representative receptor locations adjacent to the interchange. Up to two long-term (24-hour) and up to 16 short-term (20-minute) noise level measurements will be made to document the existing noise environment and to calibrate the traffic noise model. Observations of other noise sources, barriers, terrains, building heights, and other site-specific information will be noted during each measurement period.

Noise impacts from construction sources will be analyzed based on the equipment expected to be used, length of a specific construction task, equipment power type (gasoline or diesel engine), horsepower, load factor, and percentage of time in use. The construction noise impact will be evaluated in terms of maximum levels (L_{max}) and the frequency of occurrence at adjacent receptor locations. Analysis requirements will be based on the sensitivity of the project study area and the Noise Ordinance specifications of San Joaquin County and the City of Manteca, as well as Caltrans Standard Specifications in Section 14-8.02.

The FHWA Traffic Noise Model (TNM), Version 2.5, will be used to evaluate the traffic noise levels associated with the Existing, Future No Build, and one Build Alternative. The TNM 2.5 model will be calibrated using the short-term noise level measurements and concurrent traffic counts to ensure the accuracy of the noise model. The existing and design-year (future) traffic conditions will assume either the worst noise-hour traffic volumes or the peak-hour traffic volumes provided in the traffic study, whichever is less. The traffic mix for the noise model will be obtained from the traffic study or traffic counts during noise levels measurements. Traffic noise impacts will be determined based on the design year with project traffic noise levels and the corresponding NAC for each land use.

Noise abatement measures (noise barriers) designed to reduce long-term traffic noise impacts by 5 dBA or more, as required to be feasible, will be evaluated. A reasonable allowance per residence and total reasonable allowance per residence will be calculated for each noise barrier height. LSA will prepare a Noise Abatement Decision Report (NADR) consistent with the April 2020 Caltrans Traffic Noise Analysis Protocol and the annotated outline provided by the Caltrans SER. The preliminary noise abatement decision, and secondary effects of abatement (impacts on cultural resources, scenic views, hazardous materials, and biology) will be provided.

Paleontology: LSA will prepare a combined Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER) to address the potential for paleontological resources to occur within the anticipated disturbance limits, both horizontal and vertical, and be impacted by project activities. All tasks and documents will be consistent with the standards set forth by the Society of Vertebrate Paleontology (SVP), current industry best practices, and the guidelines in the Caltrans SER, Chapter 8: Paleontology. The paleontological survey will be conducted at the same time as the cultural resources survey by a paleontologist or an archaeologist who is cross-trained in identifying paleontological resources.

DELIVERABLES

- Air Quality Report and an Air Quality Conformity Analysis
- Air Quality Conformity Cover Letter
- Air Quality Conformity Findings Checklist
- Noise Study Report (NSR)
- Noise Abatement Decision Report (NADR)
- Community Impact Assessment (CIA) Memorandum
- Natural Environment Study-Minimal Impacts (NES-MI)
- Area of Potential Effects
- Archeological Study Report (ASR)
- Historical Resources Evaluation Report (HRER)
- Historic Property Survey Report (HPSR)
- Energy Memorandum
- Combined Paleontological Identification report/Paleontological Evaluation Report (PIR/PER)
- Climate Change Study and Technical Energy Memorandum
- Water Quality Memorandum
- Visual Impact Assessment Memorandum
- Department of Parks and Recreation Cultural Forms (Up to 5)
- Section 4(f)/6(f) Memorandum

Task 3.3. Environmental Document (WBS 165.25)

Task 3.3.1. Draft Environmental Document

The Mark Thomas team will prepare the draft IS/EA. We will prepare the draft environmental document using the most recent annotated outlines from the Caltrans SER. We anticipate the following rounds of review prior to public circulation:

- City review (1)
- Caltrans generalist review (1)
- Caltrans technical team review/NEPA compliance review (1)
- Caltrans Senior review (1)
- Caltrans Office Chief (1)

After the above rounds of review are complete, Mark Thomas will prepare the public review draft IS/EA. This will include required 508 compliance editing of the documents, a necessary step to ensure the documents can be posted online. Mark Thomas will support the City and Caltrans in preparing and planning for required notices. We anticipate that one newspaper add will be run one time, and that no mailers or similar printed notices will be required. We will provide web-ready versions of the notices and environmental documents for posting on the City's and Caltrans' websites.

Task 3.3.2. Public Review

Mark Thomas will review public comments and prepare response to comments.

DELIVERABLES

- Draft CEQA IS/MND
- Draft NEPA EA
- Respond to Comments /Mitigation Monitoring Response Program (RTC/MMRP)

TASK 4. OBTAIN PERMITS, LICENSES, AGREEMENTS AND CERTIFICATIONS (PLACS) (WBS 170)

Task 4.1. Permits (WBS 170.10)

Mark Thomas will prepare and submit an encroachment permit to Caltrans. This will allow the project team to conduct field surveys in Caltrans right of way.

DELIVERABLES

- Caltrans Encroachment Permit

Task 4.2. Freeway Agreement (WBS 170.20)

Mark Thomas will assist in initial discussions around the freeway agreement with Caltrans. As needed, Mark Thomas will assist the City with any updates to the freeway agreement that may be needed. Freeway agreements would be executed in PS&E Phase.

Task 4.3. Maintenance Agreement (WBS 170.30)

Mark Thomas will assist in initial discussions around the maintenance agreement with Caltrans. Mark Thomas will assist the City with the updated maintenance agreement. Maintenance agreements would be executed in PS&E Phase.

TASK 5. CIRCULATE DRAFT ENVIRONMENTAL DOCUMENT AND SELECT PREFERRED ALTERNATIVE (WBS 175)

Task 5.1. Analyzation and selection of the most feasible alternative (WBS 175)

Mark Thomas will prepare a memo analyzing the project alternatives for the City to review. Alternative analysis will include but not limited to costs, schedule, funding opportunities, mitigation strategy, interchange configuration, bridge widening direction, and bicycled and pedestrian improvements.

DELIVERABLES

- Alternative Analysis Memo

TASK 6. PREPARE AND APPROVE PROJECT REPORT AND FINAL ENVIRONMENTAL DOCUMENT (WBS 180)

Task 6.1. Prepare Final Project Report (WBS 180.05)

Mark Thomas will prepare the Final Project Report (PR) for distribution, review and approval by the City, Caltrans, and selected PDT members.

Concurrent with environmental document submittals, we will prepare the Project Report (PR) for distribution, review and approval by Caltrans, and the rest of the PDT. The PR will be prepared in conformance with Caltrans Project Development Procedures Manual latest guidelines and format style will include the supporting information (GADs, Traffic Studies, Cost Estimates, etc.) listed above.

The Final PR requests approval of project. The reports will be submitted in Draft Form (full District circulation), Draft Final (limited, management review) and Final Form (District circulation copies), for a total of three submittals.

DELIVERABLES

- Final Project Report
- Final GAD

Task 6.2. Final Environmental Document (WBS 180.15)



The Mark Thomas team will prepare a response to comments for a limited number of public comments; if the amount or complexity of comments received exceeds what we have budgeted, an augment will be required. We will prepare a Mitigation Monitoring and Reporting Program.

Final IS/EA: Mark Thomas will prepare a final IS/EA for City and Caltrans review. We anticipate the following:

- City review (1)
- Caltrans generalist and technical review (1)
- Caltrans Senior review (1)
- Caltrans Office Chief (1)

Mark Thomas will also prepare one draft and one final Environmental Commitments Record in a format/template to be provided by Caltrans.

DELIVERABLES

- Final IS/MND
- Final NEPA EA
- Environmental Commitment Record

SCOPE OF WORK

Mark Thomas will work with the City of Manteca (the City) to prepare and complete the Project Approval and Environmental Document (PA&ED) phase, to review design alternatives, and develop project approval for the SR 120 Main Street Interchange. Mark Thomas will coordinate and facilitate conversations with Caltrans on completing the PA&ED phase, including alternatives analysis review. Based on initial review of alternatives, the L-9 alternative will likely be eliminated and the project will move forward with the Diverging Diamond Interchange. This scope of work assumes that the technical studies needed for this project and the SR 120 Main Street Interchange will be developed concurrently. This work also assumes that one alternative will be carried through environmental document.

The specific tasks within this scope of work are as follows:

TASK 1. PROJECT MANAGEMENT (WBS 100)

Task 1.1. Project Management (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will manage the project team, which includes managing the team, general project coordination with the City of Manteca, preparing contract paperwork, memo's, letters and e-mail, making phone calls, preparing invoices and monthly progress report and maintaining project files. This task includes Mark Thomas' internal management of the subconsultant's work to insure we are one team submitting work products to the City.

DELIVERABLES

- Coordination with stakeholders including, but not limited to, Caltrans, SJCOG, City of Manteca, and County of San Joaquin
- Coordination with Subconsultants

Task 1.2. Coordination and Meetings (WBS 100.10.05, 100.10.10, 100.10.15, 100.10.35)

Mark Thomas will establish a Caltrans Project Development Team (PDT) including members of the design team, City of Manteca, Caltrans, and other individuals critical to the project delivery. This task includes preparing agendas and summarizing the meeting notes, including action items. Action items will be tracked until resolved. This scope assumes a total of 24 virtual meetings over the anticipated 24-month schedule. We have assumed we will meet up to five times with other stakeholders, such as Caltrans, SJCOG, or the San Joaquin County

DELIVERABLES

- Caltrans Project Development Team (PDT) Meetings (24)
- Focus Meetings (5)
- Meeting Notices
- Meeting Agendas, Handouts/Exhibits, and Minutes
- Executed Cooperative Agreement



Task 1.3. Administration (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will maintain project files, this task includes managerial duties to keep the Project History file up to date and ensure a document management system is established.

DELIVERABLES

- Project Master Files
- Document Management System

Task 1.4. Schedule Control (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will update the Critical Path Schedule (CPM) on a monthly basis to track performance and identify issues that could either delay or accelerate the schedule. Each submittal will clearly be shown in the CPM and tracked for internal progress and external review periods. The CPM will be presented as a discussion item at each Project Development Team (PDT) meeting.

DELIVERABLES

- Project Schedule and Monthly Updates

Task 1.5. Quality Control (WBS 100.10.05, 100.10.10, 100.10.15)

The Mark Thomas Quality Control plan consists of established procedures for performing the work, including methods for design calculations, identification of regularly scheduled plan reviews, design checklists, and methods of project documentation. Specific methods for QA/QC will include:

- The Mark Thomas Quality Assurance Manager will perform an independent review of the reports and design documents at each submittal for consistency, constructability, and accuracy.
- Design Technicians will use a "review stamp" for each round of changes which will track who commented on the reports and design plans, who checked the drafting, and when the final product was reviewed again by the design engineer.

Mark Thomas will implement and maintain these quality control procedures during the preparation of documents throughout the project.

DELIVERABLES

- QA/QC Reviews
- Comment Tracking and Resolution

Task 1.6. Cost Control (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas will develop a roadmap to successfully implement a change in scope or fee and detailing how it will be executed and monitored to minimize disruption to the project schedule. Mark Thomas will prepare monthly progress reports that identify any risks to the project scope or fee.

DELIVERABLES

- Change Management Plan
- Monthly Progress Reports

Task 1.7. Public Outreach (WBS 100.10.05, 100.10.10, 100.10.15)

Mark Thomas with the support of AIM Consulting will provide full-service community engagement to support the City of Manteca during the Project Approval and Environmental Document (PA&ED). The engagement program will ensure broad public awareness, inclusive participation, and meaningful input from residents, businesses, commuters, and stakeholders directly or indirectly affected by the improvements. All engagement activities will comply with Caltrans, FHWA, CEQA, and NEPA public involvement requirements.

Prepare Public Involvement Plan:

- Prepare a Public Involvement Plan (PIP) detailing engagement methods, materials, schedule, and roles.
- Identify stakeholder categories, equity priority areas, and community partners.
- Develop an initial outreach database including businesses, property owners, schools, neighborhood groups, and civic organizations.
- Participate in kickoff and early Project Development Team (PDT) meetings to align communication and documentation procedures.

Communication Collateral Development:

- Develop and update project fact sheets, FAQs, and overview boards for workshops and briefings.
- Produce flyers, mailers, social media graphics, and web content for each engagement round.
- Create PowerPoint presentations, press releases, and digital templates for City use.
- Ensure multilingual translation (e.g., Spanish and others as needed) and ADA accessibility.
- Coordinate with City and Caltrans for content accuracy and branding compliance.

Engagement Activities:

Phase 1 - Awareness and Early Input:

- Launch informational outreach via City and partner channels.
- Host an introductory public information meeting or open house.
- Distribute project flyers and social media content to raise awareness.
- Gather feedback on key issues, including traffic congestion, safety, and pedestrian/bicycle needs.
- Prepare a summary of comments and participation metrics.

Phase 2 - Alternatives Outreach:

- Coordinate with engineering and environmental teams on alternatives display and traffic data summaries.
- Conduct public workshops (up to 4) with interactive boards, visualizations, and surveys.
- Host pop-up outreach (up to 3) events near the interchange corridors, schools, and local events.
- Host up to 3 property owner/or stakeholder group meetings to inform input.
- Maintain virtual engagement tools such as an online interactive map or questionnaire.
- Document and categorize all feedback for environmental and design teams.

Phase 3 - Draft Environmental Document Review:

- Prepare notices, mailers, and flyers in compliance with CEQA/NEPA requirements.
- Host a public workshop (in-person and/or virtual).
- Provide facilitation, sign-in management, translation, and comment tracking.

- Prepare response summary tables for inclusion in the environmental record.

Outreach Management and Coordination:

- Serve as primary point of contact for community engagement throughout PA&ED.
- Coordinate monthly outreach coordination meetings with the City, Caltrans, and consultant team.
- Track and report engagement metrics, attendance, and feedback summaries.
- Maintain a public comment log and participation database for reporting and audit purposes.
- Manage outreach schedule, staff assignments, and production timelines.
- Provide quality assurance and quality control (QA/QC) for all public-facing materials.

DELIVERABLES

- Community Involvement Program
- Public Surveys
- Public Outreach Meetings and Materials
- Social Media Communication

TASK 2. PRELIMINARY ENGINEERING STUDIES AND DRAFT PROJECT REPORT (WBS 160)

Task 2.1. Review Updated Project Information (WBS 160.05)

Mark Thomas will review existing information or anything that may have changed since PSR-PDS were and meet with the City to discuss any items that need to be addressed before team proceeds.

Task 2.2. Completion of the Caltrans ABC Process (WBS 160.10)

Mark Thomas will submit A, B & C materials for Caltrans review and approval including a geometric control plan along with flight and camera calibration info provided by subconsultant Aerotech Mapping. Mark Thomas will set up to twelve (12) durable flight control points with crosses. Flight control will be set outside of the traveled way of SR 120.

Task 2.3. Utility Locations (WBS 160.10)

Mark Thomas will prepare Utility "A" Letters to request updated utility information for their facilities. We assume Mark Thomas will mail the "A" letters and track the responses.

Mark Thomas will use the information gathered by the Utility "A" Letter process to identify potential utility conflicts. We will contact the utility companies to help identify the costs of relocations and also make a preliminary determination of "prior rights" to establish the cost to be used in the Right-of-Way Data Sheet. Any potential utility policy exceptions will be identified in this phase, however processing the actual utility encroachment exception will be a final design task.

DELIVERABLES

- Community Involvement Program
- Public Surveys
- Public Outreach Meetings and Materials
- Social Media Communication

Task 2.4. Engineering Studies (WBS 160.10)

Structures Advanced Planning Study (APS)

Mark Thomas will develop an additional Structure Advance Planning Studies (APS) for the bridge widening, retaining walls and bike path bridges for the Diverging Diamond Alternative. An APS Design Memo will document structure alternatives considered, construction staging, constructability, and assumed foundation type. A Preliminary Foundation Memo and square-foot cost estimates for each structure alternative will be included. The approved APS will be included as part of the Project Report.

Preliminary Geotechnical Design Report

Crawford will prepare a PGDR to provide preliminary geotechnical design recommendations for the project based on an initial evaluation of geologic hazards; review of previous Geotechnical Reports (if available), geologic maps, soil surveys, aerial photos; review of the project plans/alternatives; analysis; and a site visit. The report will include a summary of the expected subgrade and groundwater conditions; available boring data; expected excavatability and use of onsite materials as backfill; slope stability discussion; potential seismic hazards (liquefaction, surface fault rupture, seismic slope stability, lateral spreading); preliminary seismic and ground motion parameters; preliminary percolation values based on book values; and recommendations for future fieldwork and studies.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed.

Following receipt of all draft PGDR review comments and concurrence with Caltrans, Crawford will prepare and submit a final PGDR incorporating the comments as necessary.

Bridge Preliminary Foundation Report

Crawford will prepare a Preliminary Foundation Report (PFR) for the overcrossing location that will address alternatives considered. Crawford will supplement the existing subsurface data by completing one boring near the bridge for the interchange improvements.

Crawford will prepare a Preliminary Foundation Report (PFR) for the overcrossing (consistent with current Caltrans guidelines/format) for review and comment by the design team. The report will provide a site/project description, summarize site geology and geologic reconnaissance, and available previous geotechnical data. Earth materials and foundation conditions will be discussed including seismic criteria and the design ARS curve. The report will discuss preliminary foundation types (e.g., spread footings, driven piling and cast-in-drilled-hole piling) and anticipated pile lengths; structure foundation conditions/constraints, and include construction considerations. The PFR will include the main overcrossing widening and the proposed on/off ramp bridges.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed.

Following receipt of all draft PFR review comments and concurrence with Caltrans, Crawford will prepare and submit a final PFR incorporating the comments as necessary.

Assumption is no subsurface explorations will be completed.

Initial Site Assessment

Crawford will prepare an Initial Site Assessment (ISA) to evaluate each project site and adjacent properties for evidence of recognized environmental conditions (RECs) and/or potential RECs that may significantly impact the project. The ISA will be prepared in accordance with the procedures set forth in Caltrans' Standard Environmental Reference, Chapter 10.

The ISA will include:

- Review and discuss the project with the City of Manteca and the design team.
- Review available project documents and reports, including APN parcel maps, site geology and ground water data, for evidence of suspected or known contamination/hazardous materials issues (such as pesticide usage, orchards, etc.).
- Conduct a limited site reconnaissance to observe current land use and indications of potential contamination at the site, and to view publicly accessible portions of the adjacent properties.
- Review owner representative provided information, if available, regarding past and present operations conducted on the property to assess the potential for RECs.
- Review historical aerial photographs, topographic maps, and soil maps of the site and surrounding properties for indications of site use and potential sources of contamination.
- Conduct a review of federal, state, and city records for indications of the use, misuse, or storage of hazardous and/or potentially hazardous materials on or near the site. The federal, state, and city database search will be provided by a professional record check service.
- If warranted by the records search or site reconnaissance, reasonable attempts will be made to interview persons identified as knowledgeable about potentially contaminated locations within or adjacent to the project site to obtain information indicating their potential impacts to the project. Interviews may be conducted in person, by telephone, or in writing. Individuals interviewed might include owners, occupants, local government officials, or others.
- Prepare a report summarizing the findings of our review, site reconnaissance, property owner interviews, historical photograph evaluation, and regulatory records review. We will address identified potential contamination and hazardous material impacts to provide recommendations and determine additional investigation and analysis.

Preliminary Materials Report

Crawford will complete a materials engineering evaluation, general following Caltrans guidelines. The PMR will include a project description; site description; existing pavement and other material conditions; summary of the previous geotechnical or materials studies/explorations, soils surveys, geologic maps used to develop the report; preliminary pavement section (utilizing the R-value tests from Task 2.3); preliminary corrosion considerations; and recommended field work and laboratory testing to be completed during future phases.

Crawford also included allowance for the Caltrans review process to respond to review comments if/as needed. Following receipt of all Draft PMR review comments and concurrence with Caltrans, Crawford will prepare and submit a Final PMR incorporating the comments as necessary.

Design Standard Decision Document (DSDD)

During the refinement of the project alternatives Mark Thomas will identify features that do not meet current Caltrans Design Standards. Design exceptions will be required. Mark Thomas will prepare a draft Design Standard Decision Document (DSDD). The draft DSDD will be submitted to Caltrans for review and approval. The approved DSDD will be included as an attachment to the Draft Project Report because there is only one build alternative. A Design Information Bulletin 78 design checklist will be submitted with the GADs. The checklist documents conformance with applicable design standards. We anticipate one (1) review by Caltrans District 10 and a final review/ approval by Caltrans Headquarters Project Delivery Coordinator because both underlined and bold design exceptions are anticipated.

Life Cycle Cost Analysis for Recommended Alternatives

Mark Thomas will prepare the Life-Cycle Cost Analysis (LCCA) using the current RealCost Version. We will follow the

flowchart Figure 2-2 for Lane Widening to select the design life and pavement type.

Value Analysis

Mark Thomas will request an exception to prepare a Value Analysis. Mark Thomas as the ability to participate in a VA Study as needed. If a VA Study is required the 3rd party facilitator is not included as part of this scope.

DELIVERABLES

- Structures Advanced Planning Study (APS)
- Preliminary Geotechnical Design Report
- Bridge Preliminary Foundation Report
- Initial Site Assessment
- Preliminary Materials Report
- Design Standard Decision Document (DSDD)
- Life Cycle Cost Analysis for Recommended Alternatives
- Value Analysis, or Exception

Task 2.5. Traffic Studies (WBS 160.10)

Traffic Management Plan

Consistent with Caltrans standards, Mark Thomas will prepare a Traffic Management Plan (TMP) checklist and for inclusion in the Project Report. This will include a review of traffic control restrictions, recommendations for anticipated lane closures, construction staging/traffic requirements, COZEEP requirements, and a review of construction strategies. The TMP will be submitted to Caltrans for approval and will be included as an attachment to the Project Report.

Traffic Analysis Methodology

Fehr & Peers will prepare a draft Traffic Analysis Assumptions and Methodology Memorandum that lists the assumptions and methodology for the data collection process, travel demand forecasting, intersection and freeway operations and safety analysis, and vehicle miles traveled (VMT) impact analysis and mitigation. After review by the project team, we will respond to one set of comments and provide a final Traffic Analysis Assumptions and Methodology Memorandum. The final memo will serve to update and refine the initial traffic analysis tasks outlined below.

Traffic Data Collection

Fehr & Peers will collect weekday peak period (6 to 9 AM and 3 to 6 PM) intersection turning movement counts for the following study intersections.

SR 120/Main Street Interchange

1. Main Street/Industrial Park Drive/Misson Ridge Drive
2. Main Street/SR 120 Westbound Ramps
3. Main Street/SR 120 Eastbound Ramps
4. Main Street/Quintal Road
5. Main Street/Atherton Drive
6. Main Street/Wawona Street

Intersection counts will also be collected at the following freeway interchange ramp terminal intersections to obtain ramp volumes for use in the freeway operations analysis.

- McKinley Avenue/SR 120 Westbound Ramps



- McKinley Avenue/SR 120 Eastbound Ramps
- Union Road/SR 120 Westbound Ramps
- Union Road/SR 120 Eastbound Ramps

The turning movement counts will be collected on a midweek day (Tuesday, Wednesday, or Thursday) while schools are in session and during fair weather. The counts will include heavy vehicles, bicycles, and pedestrians. Fehr & Peers will also conduct field reconnaissance to observe AM and PM peak-period traffic operations at the study intersections listed above.

Fehr & Peers will collect weekday peak period (6 to 9 AM and 3 to 6 PM) volumes from the Caltrans Performance Measurement System (PeMS) database for the following freeway mainline and ramp locations.

- Eastbound SR 120 between Yosemite Avenue and McKinley Avenue
- Eastbound SR 120 to northbound SR 99
- Eastbound SR 120 to southbound SR 99
- Northbound SR 99 to westbound SR 120
- Southbound SR 99 to westbound SR 120

Fehr & Peers will request collision data from the most recent five-year period from Caltrans for the freeway mainline and ramps in the project area. We will request traffic signal timing plans for the existing signalized intersections from the City of Manteca and Caltrans.

Existing Conditions Analysis

Fehr & Peers will analyze traffic operations according to guidance from the *Highway Capacity Manual 7th Edition* (2022). Signalized and stop-controlled intersections will be analyzed using the Synchro/SimTraffic traffic simulation analysis software so that the interaction of adjacent signalized intersection can be measured. Simulation analysis also provides more accurate estimates of queue length since storage lengths and the effect of queue blockage is specifically modeled. Following Caltrans District 10 process, the following measures of effectiveness will be reported for each turning movement: served volume, intersection delay, level of service, and 95th percentile queue length. Additionally, the following network wide performance measures will be reported:

- | | |
|--------------------------|--------------------------------|
| • Demand volume | • Vehicle miles traveled (VMT) |
| • Served volume | • Vehicle hours of travel |
| • Percent demand served | • Average speed |
| • Total stops | • Fuel used |
| • Stops per vehicle | • Total emissions |
| • Vehicle hours of delay | |

The SimTraffic analysis will be based on an average of 12 runs with each run recording a one-hour analysis period. The analysis period will consist of four 15-minute intervals with the PHF adjustment applied for the second interval and the anti-PHF adjustment applied for the other three intervals.

The freeway study segments will be analyzed using the HCS traffic analysis software that applies the HCM procedures to analyze basic, merge, diverge, and weave segments. The analysis segments for existing conditions are listed below.

Eastbound SR 120

- McKinley Avenue Off-ramp (Diverge)
- McKinley Avenue Off to On-ramp (Basic)
- McKinley Avenue On-ramp (Merge)
- Airport Way Off-ramp (Diverge)
- Airport Way Off to On-ramp (Basic)
- Airport Way to Union Road (Weave)
- Union Road Off to On-ramp (Basic)
- Union Road to Main Street (Weave)

Westbound SR 120

- SR 99 to Main Street (Basic)
- Main Street Off-ramp (Diverge)
- Main Street Off to On-ramp (Basic)
- Main Street to Union Road (Weave)
- Union Road Off to On-ramp (Basic)
- Union Road to Airport Way (Weave)
- Airport Way Off to On-ramp (Basic)
- Airport Way On-ramp (Merge)

- Main Street Off to On-ramp (Basic)
- Main Street On-ramp (Merge)
- Main Street to SR 99 (Basic)
- McKinley Avenue Off-ramp (Diverge)
- McKinley Avenue Off to On-ramp (Basic)
- McKinley Avenue On-ramp (Merge)
-

For each interchange, we will report the results for the subject interchange and the adjacent interchanges for the AM and PM peak hours. The HCM methodology is an isolated analysis, so the recurrent congested conditions in the eastbound direction that extends from the SR 99 interchange into the study area will not be reflected in the analysis results for upstream segments. We will note where the analysis results do not match observed congested conditions. Fehr & Peers will prepare a draft Existing Conditions Report for each interchange that will document the data collection, traffic forecasts and operations analysis methodology, and existing conditions analysis results. After review by the project team, we will respond to one set of comments and prepare a final Existing Conditions Report for each interchange.

Fehr & Peers will prepare a draft Existing Conditions Report for each interchange that will document the data collection, traffic forecasts and operations analysis methodology, and existing conditions analysis results. After review by the project team, we will respond to one set of comments and prepare a final Existing Conditions Report for each interchange.

Traffic Forecasts

Fehr & Peers proposes to apply the most recent version of SJCOG's three-county model (San Joaquin, Stanislaus, and Merced) to prepare travel demand forecasts. Although the Traffic Engineering Performance Assessment (TEPA) indicates that the three-city model (Lathrop, Manteca, and Ripon) would be used for the PA/ED phase, Caltrans District 10 staff have recently requested the three-county model for other interchange projects in the City of Lathrop. The three-city model tends to overestimate land use growth within its planning horizon, whereas the three-county model constrains land use growth, making it a more reasonable basis for sizing infrastructure improvements for a specified design year. We will review and update the roadway networks and land use inputs in the project vicinity for the base year model to match current conditions. The base year model will be validated to the collected AM and PM peak hour traffic volumes. The cumulative year model will be similarly reviewed in the project vicinity to ensure that planned roadway and land use changes are accounted for.

Using the existing traffic counts and the base and cumulative year forecast model volumes, Fehr & Peers will prepare opening year and design year traffic forecast volumes for the study intersections under the No Build and build alternatives during the AM and PM peak hours. Daily volume forecasts for SR 120, Airport Way, and Main Street will be prepared to support air quality analysis, noise analysis, and pavement design. The forecasting process will use the difference and ratio methods as appropriate according to guidance from NCHRP Report 765: Analytical Travel Forecasting Approaches for Project-Level Planning and Design (2014). The intersection forecasts will be prepared for the No Build Alternative and one build alternative for each interchange.

Fehr & Peers will prepare a draft Travel Demand Model Validation and Forecasting Memorandum for each interchange that will document the base year model validation and the traffic forecasts for the study intersections and freeway segments. After review by the project team, we will respond to one set of comments and prepare a final Travel Demand Model Validation and Forecasting Memorandum for each interchange.

Future Conditions Analysis

Starting with the traffic operations models developed for existing conditions, Fehr & Peers will develop opening year and design year intersection operations analysis models in the Synchro/SimTraffic software. AM and PM peak hour



conditions will be analyzed for the No Build and one build alternative for each interchange. Similarly, opening year and design year freeway analysis models will be developed in the HCS software. AM and PM peak hour conditions will be analyzed for the No Build and one build alternative for each interchange.

Fehr & Peers will conduct a multimodal assessment for one build alternative at each interchange. The effect of the proposed alternatives on the pedestrian, bicycle, and transit system will be discussed. Fehr & Peers will determine the ramp meter storage requirements according to the Ramp Meter Design Manual guidance according to passenger vehicle and truck volumes.

The PID, approved in 2024, included the ICE analysis, which satisfied Caltrans' requirements at the time. As a result, the current ISOAP evaluation is not expected to be required and is thus not included in this work plan.

Traffic Operations Analysis Report

Fehr & Peers will prepare a draft Traffic Operations Analysis Report for each interchange that documents the data collection, traffic forecasts, and traffic operations analysis. Fehr & Peers assumes that the traffic analysis findings will be integrated into the CEQA and/or NEPA documents by others. After review by the project team, Fehr & Peers will respond to one set of comments and prepare the final Traffic Operations Analysis Report. The draft and final reports will be submitted in Microsoft Word and Adobe PDF formats.

VMT Analysis and Mitigation

As part of the PID process, Fehr & Peers provided preliminary induced VMT forecasts for the VMT Decision Documents (VMTDDs). The method for the VMTDDs was the California Induced Travel Calculator, which is only capable of producing a positive forecast when a project is increasing Class 1, 2, or 3 lane miles. As a result, the method may not fully capture the unique context of interchange improvements and may overstate the induced VMT effect.

As a first item of work, Fehr & Peers will conduct an updated review of the previous VMTDD results and provide a summary of the strengths and limitations of the Calculator methodology as well as a description of the alternative methodology of using the SJCOG regional travel demand model. The results will be presented to the PDT to determine the preferred method. If the PDT determines that the elasticity method is the appropriate approach, Fehr & Peers will update the calculations based on the latest version of the Calculator. If the SJCOG model methodology is selected, it would trigger Optional Task below.

Safety Assessment

Fehr & Peers will use safety analysis methods from the Highway Safety Manual (AASHTO, 2010) to evaluate and support documentation related to the design exceptions that are part of each interchange's preferred alternative. After the preferred alternatives are selected, the safety analysis will be conducted for specific design exceptions identified by the PDT. The safety analysis will use crash modification factors (CMFs) from reputable sources, such as FHWA's Crash Modification Factor Clearinghouse, to document the potential difference in safety performance between the proposed design feature and the standard feature. In circumstances where CMFs are not available, a qualitative assessment will be provided. The result of this analysis will be a memorandum documenting the findings organized by non-standard design features.

Cost Planning

Fehr & Peers will prepare preliminary construction cost estimates for electrical transportation elements of the proposed SR 120/Airport Way and SR 120/Main Street interchanges. This includes estimates for traffic signal installations, modifications, and removals; highway and street lighting systems; ramp metering systems; fiber optic cable systems; CCTV camera systems; changeable message signs; traffic monitoring station systems; and weather stations.

DELIVERABLES

- Traffic Management Plan Checklist
- Existing Traffic Analysis Conditions Report
- Traffic Forecasts/Modeling
- Future Conditions Analysis
- Travel Demand Model Validation and Forecasting Memorandum
- Traffic Operations Analysis Assumptions and Methodology Memorandum (TOAR)
- Updated Review of VMT Decision Documents (VMTDDs)
- Forecast VMT Using Travel Demand Model (optional)
- Safety Assessment
- Safety Analysis to Support the Selection of Preferred Alternative

Task 2.6. Hydraulic/Hydrology Studies (WBS 160.10)**Drainage Report**

Mark Thomas will obtain all relevant drainage information, including storm drain facilities, ditches, pipe location and sizes, local rainfall intensities and flows. A hydrologic analysis will be completed to develop watershed boundaries for the areas draining to this project, flows based on Caltrans standards, and preliminary drainage concepts.

A drainage report will be developed based on Caltrans guidelines. The report will include, but not be limited to, detailed discussions of the following: existing conditions, off-site hydrology and hydraulics, onsite roadway drainage, existing and post project drainage patterns, storm water quality, and other topics of significance.

Storm Water Data Report

Mark Thomas will prepare a Storm Water Data Report in accordance with Caltrans procedures based on information collected in the Drainage Report.

DELIVERABLES

- Storm Water Data Report
- Hydraulics/Hydrology Drainage Report

Task 2.7. Right of Way Requirements (WBS 160.10)**Mapping and Exhibits**

Mark Thomas will prepare Right of Way requirements exhibits as well as utility conflict maps to be used to develop the Right of Way Data Sheet.

Right of Way Data Sheet

Monument will coordinate with the design team to identify right-of-way acquisitions resulting from the proposed improvements. Additionally, Monument will provide information about existing conditions within the project limits including, land use, and any existing rights or encumbrances known to exist on the affected properties. The specific steps Monument will take to determine impacts and estimate costs are as follows:

- Perform a GIS analysis to identify property and rights potentially affected by the proposed design
- Use publicly available data and other real estate resources to confirm the ownership, land use, zoning, lot size, and improvements for each affected property.

- Perform a desktop inspection of properties to confirm the probable acquisition type (fee, easement, temporary construction easement, etc.) including identifying existing uses or personal property to be relocated (if any).
- Calculate the fee and/or easement area (including temporary construction easements) that will need to be acquired for each impacted property using design data and assessor boundary information.
- Estimate the total capital cost of acquisition for all parcels including real estate costs, relocation assistance, severance damages, loss of goodwill, fixtures and equipment, demolition and clearance.
- Estimate permit costs.
- Estimate the total support cost for all parcels including appraisal fees, condemnation costs, title and escrow fees, environmental fees, and consultant fees as necessary.
- Escalate costs to anticipated right-of-way acquisition date.
- Prepare a draft Caltrans Right of Way Data Sheet using Caltrans Exhibit 17-EX-21 (Right of Way Data Sheet for Local Public Agencies) for the Build Alternatives.
- Update the RWDS based on comments from the design team and the City and submit a final Draft RWDS.
- Respond to comments from Caltrans R/W as necessary and make required updates to the Data Sheets.

DELIVERABLES

- Right of Way Data Sheet
- Utility Conflict Maps (30%)
- Right of Way Needs Summary/Exhibit
- Property Access Rights for Environmental/Engineering Studies

Task 2.8. Draft Project Report (WBS 160.15)

Mark Thomas will prepare the Draft and Final Project Report (PR) for distribution, review and approval by the City, Caltrans, and selected PDT members.

As a first item of work, Mark Thomas will update the Risk Register to include items such as VMT or any other items that may need to be updated. This risk register will be reviewed by the PDT and will be updated again prior to the draft submittal of the Project Report.

Concurrent with environmental document submittals, we will prepare the Project Report (PR) for distribution, review and approval by Caltrans, and the rest of the PDT. The PR will be prepared in conformance with Caltrans Project Development Procedures Manual latest guidelines and format style will include the supporting information (GADs, Traffic Studies, Cost Estimates, etc.) listed above.

Mark Thomas will prepare a design exhibit that highlights project geometric layout, lane configurations, signal locations, preliminary drainage, and potential utility conflicts.

The Draft PR requests approval to circulate environmental document, it will be submitted in Draft Form (full District circulation), Draft Final (limited, management review) and Final Form (District circulation copies), for a total of three submittals.

DELIVERABLES

- Draft Project Report
- Cost Estimates for Alternatives
- Geometric Approval Drawings for Recommended Alternatives



- Risk Register
- Design Exhibit

Task 2.9. Land Surveys (WBS 160.20)

Task 2.9.1. Land Net Surveys

Mark Thomas will complete a boundary survey to delineate the existing right of way for SR120 and Main Street. Mark Thomas will conduct record research at the County and with Caltrans to obtain record maps. Monuments identified on record maps along with other physical evidence will be located in the field to aid in the retracement for right of way and parcel lines impacted by the project. It is assumed that up to twelve (12) parcels along the right of way will be impacted and up to twelve (12) preliminary title reports will be ordered by Mark Thomas to review and plot all encumbrances and easements shown in the title reports. The boundary survey completed for this task will be known as the "Land Net" for the project.

Task 2.9.2. Control Surveys

Mark Thomas will base the project control on the California Coordinate System of 1983 (CCS83), Zone 3, Epoch 2017.50 and vertically upon the North American Vertical Datum of 1988 (NAVD88). Mark Thomas will set up to twelve (12) flight panels for aerial mapping. The control set for this task will be a part of the Caltrans B submittal for Aerotriangulation Adjustment Report and Ground point file. Horizontal values for project control and flight panels will be collected with GPS methods and elevations will be determined by a closed level loop.

Task 2.9.3. Aerial Surveys

Mark Thomas will coordinate with subconsultant Aerotech Mapping to complete aerial mapping along SR120 at Main Street. The flight will adhere to Caltrans ABC Photogrammetric Mapping standards and will undergo Caltrans review and approval.

Task 2.9.4. Supplemental Topo

Mark Thomas will collect supplemental topography of existing bridge vertical clearance and identified utilities. Field surveys and survey work products will be completed in conformance with the current edition (with updates) of the Caltrans Survey Manual. Mark Thomas will combine aerial photogrammetric mapping and supplemental field topography to develop a digital terrain model for the project. This scope of work is limited to three (3) days of field work.

Task 2.10. Environmental Study Request (WBS 160.30)

Mark Thomas will prepare mapping for the environmental study request. This mapping will include project impact maps as well as compiled survey data to be used in the technical studies. This also includes any access right to enter to conduct any environmental studies.

DELIVERABLES

- Mapping for Environmental Study Report
- Surveys and Mapping for Environmental Studies
- Property Access Rights for Environmental/Engineering Studies

TASK 3. ENVIRONMENTAL STUDIES AND ENVIRONMENTAL DOCUMENTATION (WSB 165)

Task 3.1. Environmental Document Initiation/Project Description (WBS 165.25)

The Mark Thomas team will draft a CEQA/NEPA project description with supporting figures. The project description will include the purpose and need statement, project construction and operational information, project background, and setting information. It is assumed there will be one of the project description from the City and one from the PDT, for a total of three submittals.

DELIVERABLES

- Project Description
- Area of Potential Effects Map (APE)

Task 3.2. Technical Studies (WBS 165.25)

To support the CEQA/NEPA clearance, we anticipate Caltrans will require the following technical studies. For the purposes of this scope and fee, we have assumed a limited number of hours to respond to Caltrans comments on technical reports. If Caltrans reviewers require multiple rounds of review, additional reviews will be charged on a time and materials basis.

Task 3.2.1. CIA

The Mark Thomas team will complete a Community Impact Assessment using the latest template available from the Caltrans SER. The draft CIA will include analysis of all relevant topics, including land use, parks and recreation, farmlands/timberlands, growth, population and housing, economics, environmental justice, and equity. The CIA will also include a summary of Section 4(f)/6(f) analysis.

Task 3.2.2. VIA

The Mark Thomas team will prepare the required VIA checklist/questionnaire for Caltrans review and concurrence. For the purposes of this scope, we assume the project will score between 19 and 28, requiring preparation of a VIA Memorandum. Accordingly, Mark Thomas will prepare the VIA for Caltrans review. The VIA Memorandum will follow all Caltrans requirements and will be in Caltrans format. A licensed landscape architect will oversee the preparation of the VIA questionnaire and VIA Memorandum. Up to two visual simulations are proposed.

Task 3.2.3. Section 4(f)

Based on the project type and location, we don't anticipate a use of Section 4(f)/6(f) resources. Therefore, we propose a 4(f)/6(f) memorandum that documents potential resources near the project and demonstrates no use.

Task 3.2.4. Other Technical Studies

Air Quality/GHG: LSA will prepare an Air Quality Report (AQR) that documents the study results consistent with Caltrans SER AQR Annotated Outline. Construction related air pollutant emissions will be quantified using California Emission Estimator Model (CalEEMod) or another appropriate model as directed by Caltrans. Caltrans Standard Specifications for Construction, as well as mitigation measures, if necessary, will be recommended to reduce short-term, construction related impacts. Operational air pollutant emissions will also be quantified using CalEEMod, CT-EMFAC, or another

appropriate model as directed by Caltrans. The greenhouse gas (GHG) analysis would be based on the SER Climate Change Annotated Outline for a capacity increasing project and/or the most recent guidance available from Caltrans related to GHG emissions and climate change analysis requirements. This task will start after preparation of the traffic analysis.

LSA will prepare an Air Quality Conformity Analysis (AQCA) consistent with the most recent SER *Air Quality Conformity Analysis Annotated Outline*. LSA will prepare the associated AQCA Cover Letter and Air Quality Conformity Findings Checklist. LSA will prepare the PM Conformity Hot Spot Analysis Project Summary Form for Interagency Consultation to allow the San Joaquin Council of Governments (SJCOG) and the San Joaquin Valley Interagency Consultation Group (ICG) to determine whether a project requires a project-level PM hot-spot analysis pursuant to Federal Conformity Regulations, and to confirm that the project is not a Project of Air Quality Concern (POAQC). This scope assumes the preparation of a quantitative PM10 and PM2.5 Hot-Spot assessment would not be required. A qualitative Mobile Source Air Toxic (MSAT) analysis will be prepared according to *FHWA Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents*.

LSA will schedule and participate in an Interagency Consultation meeting, and will assist in the preparation of meeting materials. It is assumed that the specialist who prepared the project's traffic analysis will be at the presentation to assist with any traffic-related questions. To support the required 30-day public review period, LSA will prepare a draft public notice. Fees for the public notice will be the responsibility of Caltrans.

Biological Resources: LSA will conduct a records search of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB), California Native Plant Society's Rare Plant Inventory, and a species list request from the United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) online system to identify sensitive or special-status biological resources that have been reported from the project vicinity and may have potential to occur within the biological study area.

An LSA biologist familiar with the habitats and biological resources of the region will conduct a general walkover field survey of the biological study area (i.e., project site plus 100-foot buffer on each side of the alignment, where access is available or viewed with binoculars from the property boundary where not accessible) to assess and map habitat conditions and record general plant and wildlife observations. The project is located within an urban corridor in the City of Manteca. In a review of available aerial photographs, there is open space within the interchange and the interchange overcrossing, which may provide habitat for sensitive species, such as western burrowing owl, Swainson's hawk, nesting birds, and roosting bats.

LSA will prepare a Natural Environment Study-Minimal Impacts (NES-MI) to document the results of the literature review and field surveys. The NES-MI will be prepared in accordance with Caltrans' Standard Environmental Reference (SER) template dated August 2022, or the most recent guidance available from Caltrans. The NES-MI will include a discussion of plant communities present in the biological study area, as well as a discussion of common plant and animal species occurring (or expected to occur) in the biological study area based on the plant communities present. A generalized vegetation map will be prepared showing plant community types as well as the locations of any sensitive biological resources incidentally observed during the survey. The NES-MI will include an assessment of project impacts on biological resources, and will recommend mitigation measures, where appropriate. Any special status species incidentally observed during the survey will be reported to the CNDDDB. This scope of work does not include focused surveys for special-status species. If these surveys are needed, a budget augment will be requested.

Cultural Resources: LSA will conduct cultural resource technical studies to address requirements of Section 106 and CEQA. LSA assumes the project will require preparation of an Area of Potential Effects (APE), Archaeological Survey

Report (ASR), a Historical Resources Evaluation report (HRER), and a Historic Property Survey Report (HPSR) in order to address the requirements described in the Section 106 PA. LSA's scope of work assumes that the field review for this project will occur concurrently with the field review for Project 2 (SR 120/Main Street).

On behalf of Caltrans, LSA will contact the Native American Heritage Commission (NAHC) in Sacramento for a review of the Sacred Lands File to determine if the APE contains any listed sites. LSA will also request a list of geographically affiliated Native American tribes that may have information or concerns about the project. LSA will provide the following Section 106 consultation assistance to Caltrans: Native American representatives on the NAHC's list will be contacted by letter and follow-up email to solicit input, and compilation of separate administrative records. LSA assumes preparing Department of Parks and Recreation (DPR) 523 Series records for a minimum of five (5) built environmental cultural resources, as appropriate. This number may change pending the outcome of consultation with the Caltrans Architectural Historian. LSA will update the DPR 523 Series records for a minimum of ten (10) built environmental cultural resources, as appropriate, identified in the previous studies that are in the APE. The updates will include an evaluation for listing in the NHRP. The newly prepared and updated DPRs will be appended to the HRER. If additional built environment resources are identified within or adjacent to the APE, Caltrans requires updating existing DPRs of other built environment resources in the APE, or Caltrans requires other related cultural resource technical studies to address built environment resources, LSA will develop a scope and budget to address the additional required study and prepare draft/final documentation per Caltrans and OHP guidelines. Based on currently available information, LSA believes a Finding of Effect (FOE) document to address historic properties is not required. If required, a supplemental scope and budget would be necessary.

Energy: LSA will evaluate the proposed project's potential for increasing the demand for energy during both construction and operation of the project, including diesel and gasoline fuel use for off-road construction equipment, on-road construction vehicles, and operational vehicle trips. LSA will prepare an Energy Memorandum summarizing this analysis.

Noise: LSA will prepare a Noise Study Report (NSR) consistent with the April 2020 Caltrans Traffic Noise Analysis Protocol, September 2013 Technical Noise Supplement (TeNS), and the annotated outline provided by the Caltrans SER. The NSR will identify traffic noise impacts on land uses located adjacent to the proposed project. The areas with potential traffic noise impacts under the design year with project scenario will be identified using land use information, aerial photographs, and field reconnaissance. A discussion of any existing sensitive uses and approved future uses in the project vicinity will be included.

Ambient noise level measurements will be conducted to establish the existing noise environment at representative receptor locations adjacent to the interchange. Up to two long-term (24-hour) and up to 16 short-term (20-minute) noise level measurements will be made to document the existing noise environment and to calibrate the traffic noise model. Observations of other noise sources, barriers, terrains, building heights, and other site-specific information will be noted during each measurement period.

Noise impacts from construction sources will be analyzed based on the equipment expected to be used, length of a specific construction task, equipment power type (gasoline or diesel engine), horsepower, load factor, and percentage of time in use. The construction noise impact will be evaluated in terms of maximum levels (L_{max}) and the frequency of occurrence at adjacent receptor locations. Analysis requirements will be based on the sensitivity of the project study area and the Noise Ordinance specifications of San Joaquin County and the City of Manteca, as well as Caltrans Standard Specifications in Section 14-8.02.

The FHWA Traffic Noise Model (TNM), Version 2.5, will be used to evaluate the traffic noise levels associated with the Existing, Future No Build, and one Build Alternative. The TNM 2.5 model will be calibrated using the short-term noise level measurements and concurrent traffic counts to ensure the accuracy of the noise model. The existing and design-year (future) traffic conditions will assume either the worst noise-hour traffic volumes or the peak-hour traffic volumes provided in the traffic study, whichever is less. The traffic mix for the noise model will be obtained from the traffic study or traffic counts during noise levels measurements. Traffic noise impacts will be determined based on the design year with project traffic noise levels and the corresponding NAC for each land use.

Noise abatement measures (noise barriers) designed to reduce long-term traffic noise impacts by 5 dBA or more, as required to be feasible, will be evaluated. A reasonable allowance per residence and total reasonable allowance per residence will be calculated for each noise barrier height. LSA will prepare a Noise Abatement Decision Report (NADR) consistent with the April 2020 Caltrans Traffic Noise Analysis Protocol and the annotated outline provided by the Caltrans SER. The preliminary noise abatement decision, and secondary effects of abatement (impacts on cultural resources, scenic views, hazardous materials, and biology) will be provided.

Paleontology: LSA will prepare a combined Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER) to address the potential for paleontological resources to occur within the anticipated disturbance limits, both horizontal and vertical, and be impacted by project activities. All tasks and documents will be consistent with the standards set forth by the Society of Vertebrate Paleontology (SVP), current industry best practices, and the guidelines in the Caltrans SER, Chapter 8: Paleontology. The paleontological survey will be conducted at the same time as the cultural resources survey by a paleontologist or an archaeologist who is cross-trained in identifying paleontological resources.

DELIVERABLES

- Air Quality Report and an Air Quality Conformity Analysis
- Air Quality Conformity Cover Letter
- Air Quality Conformity Findings Checklist
- Noise Study Report (NSR)
- Noise Abatement Decision Report (NADR)
- Community Impact Assessment (CIA) Memorandum
- Natural Environment Study-Minimal Impacts (NES-MI)
- Area of Potential Effects
- Archeological Study Report (ASR)
- Historical Resources Evaluation Report (HRER)
- Historic Property Survey Report (HPSR)
- Energy Memorandum
- Combined Paleontological Identification report/Paleontological Evaluation Report (PIR/PER)
- Climate Change Study and Technical Energy Memorandum
- Water Quality Memorandum
- Visual Impact Assessment Memorandum
- Department of Parks and Recreation Cultural Forms (Up to 5)
- Section 4(f)/6(f) Memorandum

Task 3.3. Environmental Document (WBS 165.25)

Task 3.3.1. Draft Environmental Document

The Mark Thomas team will prepare the draft IS/EA. We will prepare the draft environmental document using the most recent annotated outlines from the Caltrans SER. We anticipate the following rounds of review prior to public circulation:

- City review (1)
- Caltrans generalist review (1)
- Caltrans technical team review/NEPA compliance review (1)
- Caltrans Senior review (1)
- Caltrans Office Chief (1)

After the above rounds of review are complete, Mark Thomas will prepare the public review draft IS/EA. This will include required 508 compliance editing of the documents, a necessary step to ensure the documents can be posted online. Mark Thomas will support the City and Caltrans in preparing and planning for required notices. We anticipate that one newspaper add will be run one time, and that no mailers or similar printed notices will be required. We will provide web-ready versions of the notices and environmental documents for posting on the City's and Caltrans' websites.

Task 3.3.2. Public Review

Mark Thomas will review public comments and prepare response to comments.

DELIVERABLES

- Draft CEQA IS/MND
- Draft NEPA EA
- Respond to Comments /Mitigation Monitoring Response Program (RTC/MMRP)

TASK 4. OBTAIN PERMITS, LICENSES, AGREEMENTS AND CERTIFICATIONS (PLACS) (WBS 170)

Task 4.1. Permits (WBS 170.10)

Mark Thomas will prepare and submit an encroachment permit to Caltrans. This will allow the project team to conduct field surveys in Caltrans right of way.

DELIVERABLES

- Caltrans Encroachment Permit

Task 4.2. Freeway Agreement (WBS 170.20)

Mark Thomas will assist in initial discussions around the freeway agreement with Caltrans. As needed, Mark Thomas will assist the City with any updates to the freeway agreement that may be needed. Freeway agreements would be executed in PS&E Phase.

Task 4.3. Maintenance Agreement (WBS 170.30)

Mark Thomas will assist in initial discussions around the maintenance agreement with Caltrans. Mark Thomas will assist the City with the updated maintenance agreement. Maintenance agreements would be executed in PS&E Phase.

TASK 5. CIRCULATE DRAFT ENVIRONMENTAL DOCUMENT AND SELECT PREFERRED ALTERNATIVE (WBS 175)

Task 5.1. Analyzation and selection of the most feasible alternative (WBS 175)

Mark Thomas will prepare a memo analyzing the project alternatives for the City to review. Alternative analysis will include but not limited to costs, schedule, funding opportunities, mitigation strategy, interchange configuration, bridge widening direction, and bicycled and pedestrian improvements.

DELIVERABLES

- Alternative Analysis Memo

TASK 6. PREPARE AND APPROVE PROJECT REPORT AND FINAL ENVIRONMENTAL DOCUMENT (WBS 180)

Task 6.1. Prepare Final Project Report (WBS 180.05)

Mark Thomas will prepare the Final Project Report (PR) for distribution, review and approval by the City, Caltrans, and selected PDT members.

Concurrent with environmental document submittals, we will prepare the Project Report (PR) for distribution, review and approval by Caltrans, and the rest of the PDT. The PR will be prepared in conformance with Caltrans Project Development Procedures Manual latest guidelines and format style will include the supporting information (GADs, Traffic Studies, Cost Estimates, etc.) listed above.

The Final PR requests approval of project. The reports will be submitted in Draft Form (full District circulation), Draft Final (limited, management review) and Final Form (District circulation copies), for a total of three submittals.

DELIVERABLES

- Final Project Report
- Final GAD

Task 6.2. Final Environmental Document (WBS 180.15)



The Mark Thomas team will prepare a response to comments for a limited number of public comments; if the amount or complexity of comments received exceeds what we have budgeted, an augment will be required. We will prepare a Mitigation Monitoring and Reporting Program.

Final IS/EA: Mark Thomas will prepare a final IS/EA for City and Caltrans review. We anticipate the following:

- City review (1)
- Caltrans generalist and technical review (1)
- Caltrans Senior review (1)
- Caltrans Office Chief (1)

Mark Thomas will also prepare one draft and one final Environmental Commitments Record in a format/template to be provided by Caltrans.

DELIVERABLES

- Final IS/MND
- Final NEPA EA
- Environmental Commitment Record

EXHIBIT B

CERTIFICATE OF COMPLIANCE WITH LABOR CODE § 3700
[Labor Code § 1861]

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this AGREEMENT.

CONSULTANTS

By:


Matt Brogan, Vice President

EXHIBIT C
Fee Schedule

ATTACHMENT 3

Cost Proposal 1
Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: Mark Thomas & Company, Inc.

Project No. SR 120-Airport Interchange Contract No. _____ Date 11/3/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual or Average Hourly Rate	Total
Principal	Matt Brogan	\$185 - \$226	140.0	\$ 189.56	\$ 26,538.40
Sr. Project Manager	Martha Dadala	\$85 - \$121	100.0	\$ 142.15	\$ 14,215.00
Project Manager	Kira Caselli	\$70 - \$100	700.0	\$ 79.90	\$ 55,930.00
Sr. Project Engineer	Arsalan Gharachorloo	\$60 - \$89	682.0	\$ 64.36	\$ 43,893.52
Principal		\$185 - \$226	0.0	\$ 196.00	\$ -
Sr. Engineering Manager		\$120 - \$168	0.0	\$ 138.00	\$ -
Engineering Manager		\$115 - \$142	0.0	\$ 123.00	\$ -
Design Manager		\$115 - \$142	0.0	\$ 123.00	\$ -
Sr. Project Manager		\$85 - \$121	129.0	\$ 102.00	\$ 13,158.00
Sr. Technical Lead		\$85 - \$105	0.0	\$ 93.00	\$ -
Project Manager		\$70 - \$100	0.0	\$ 81.00	\$ -
Technical Lead		\$70 - \$100	0.0	\$ 77.00	\$ -
Sr. Project Engineer		\$60 - \$89	222.0	\$ 70.00	\$ 15,540.00
Sr. Technical Engineer		\$65 - \$84	250.0	\$ 68.00	\$ 17,000.00
Project Engineer		\$50 - \$68	520.0	\$ 58.00	\$ 30,160.00
Civil Engineering Designer		\$50 - \$74	0.0	\$ 62.00	\$ -
Design Engineer II		\$40 - \$63	600.0	\$ 47.00	\$ 28,200.00
Design Engineer I		\$35 - \$47	460.0	\$ 39.00	\$ 17,940.00
CADD Manager		\$75 - \$95	0.0	\$ 80.00	\$ -
Sr. Technician		\$50 - \$68	0.0	\$ 59.00	\$ -
Technician		\$30 - \$42	0.0	\$ 38.00	\$ -
Intern		\$15 - \$32	100.0	\$ 23.00	\$ 2,300.00
LAUD Division Manager		\$95 - \$116	0.0	\$ 100.00	\$ -
Sr. LAUD Project Manager		\$85 - \$110	0.0	\$ 93.00	\$ -
LAUD Project Manager		\$65 - \$84	0.0	\$ 72.00	\$ -
Sr. Landscape Architect		\$55 - \$74	0.0	\$ 62.00	\$ -
Landscape Architect		\$45 - \$63	0.0	\$ 50.00	\$ -
Landscape Designer II		\$35 - \$53	0.0	\$ 40.00	\$ -
Landscape Designer I		\$25 - \$37	0.0	\$ 30.00	\$ -
Landscape Intern		\$20 - \$32	0.0	\$ 25.00	\$ -
Survey Division Manager		\$100 - \$147	6.0	\$ 125.00	\$ 750.00
Survey Manager II		\$85 - \$116	94.0	\$ 91.00	\$ 8,554.00
Survey Manager I		\$75 - \$100	0.0	\$ 78.00	\$ -
Project Surveyor III		\$70 - \$89	0.0	\$ 74.00	\$ -
Project Surveyor II		\$60 - \$84	196.0	\$ 74.00	\$ 14,504.00
Project Surveyor I		\$55 - \$79	0.0	\$ 61.00	\$ -
Asst Surveyor III		\$50 - \$68	0.0	\$ 57.00	\$ -
Asst Surveyor II		\$40 - \$63	136.0	\$ 47.00	\$ 6,392.00
Asst Surveyor I		\$40 - \$58	0.0	\$ 43.00	\$ -
Survey Specialist III		\$45 - \$89	0.0	\$ 69.00	\$ -
Survey Specialist II		\$40 - \$74	0.0	\$ 56.00	\$ -
Survey Specialist I		\$40 - \$58	0.0	\$ 46.00	\$ -
Lead Survey Technician		\$45 - \$58	16.0	\$ 47.00	\$ 752.00
Survey Technician III		\$40 - \$63	0.0	\$ 48.00	\$ -
Survey Technician II		\$35 - \$53	114.0	\$ 41.00	\$ 4,674.00
Survey Technician I		\$20 - \$37	0.0	\$ 26.00	\$ -
SUE Program Manager		\$85 - \$110	0.0	\$ 92.00	\$ -

ATTACHMENT 3

Utility Locator (North)		\$60 - \$79	0.0	\$ 65.00	\$ -
Utility Locator (South)		\$75 - \$100	0.0	\$ 83.00	\$ -
Chief of Party (OE3)		\$60 - \$79	0.0	\$ 62.00	\$ -
Instrumentperson (OE3)		\$50 - \$68	0.0	\$ 57.00	\$ -
Chainperson (OE3)		\$50 - \$68	0.0	\$ 53.00	\$ -
Apprentice (OE3)		\$30 - \$47	0.0	\$ 40.00	\$ -
2-Person Crew (OE3)		\$125 - \$158	160.0	\$ 132.00	\$ 21,120.00
3-Person Crew (OE3)		\$175 - \$221	30.0	\$ 188.00	\$ 5,640.00
Chief of Party (OE12)		\$65 - \$84	0.0	\$ 69.00	\$ -
Instrumentperson (OE12)		\$55 - \$74	0.0	\$ 62.00	\$ -
Chainperson (OE12)		\$55 - \$74	0.0	\$ 60.00	\$ -
Apprentice (OE12)		\$35 - \$53	0.0	\$ 45.00	\$ -
2-Person Crew (OE12)		\$130 - \$163	0.0	\$ 139.00	\$ -
3-Person Crew (OE12)		\$185 - \$231	0.0	\$ 198.00	\$ -
Safety Manager		\$75 - \$95	0.0	\$ 82.00	\$ -
Division Manager - CM		\$145 - \$179	0.0	\$ 154.00	\$ -
Area Manager - CM		\$105 - \$131	0.0	\$ 110.00	\$ -
Construction Manager		\$90 - \$116	0.0	\$ 100.00	\$ -
Sr. Resident Engineer		\$110 - \$137	0.0	\$ 117.00	\$ -
Resident Engineer		\$90 - \$121	0.0	\$ 101.00	\$ -
Asst. Resident Engineer		\$60 - \$79	0.0	\$ 66.00	\$ -
Sr. Inspector - CM		\$65 - \$105	0.0	\$ 87.00	\$ -
Inspector - CM		\$55 - \$74	0.0	\$ 61.00	\$ -
Office Engineer		\$45 - \$74	0.0	\$ 55.00	\$ -
Division Manager - PL		\$90 - \$126	0.0	\$ 97.00	\$ -
Sr. Project Manager - PL		\$80 - \$116	371.0	\$ 98.00	\$ 36,358.00
Project Manager - PL		\$55 - \$74	635.0	\$ 60.00	\$ 38,100.00
Sr. Planner		\$50 - \$68	0.0	\$ 54.00	\$ -
Planner II		\$40 - \$53	890.0	\$ 43.00	\$ 38,270.00
Planner I		\$30 - \$42	0.0	\$ 32.00	\$ -
Economist		\$35 - \$47	0.0	\$ 41.00	\$ -
Funding Manager		\$105 - \$142	0.0	\$ 117.00	\$ -
Sr. Funding Specialist		\$75 - \$95	0.0	\$ 80.00	\$ -
Funding Specialist		\$40 - \$74	0.0	\$ 58.00	\$ -
Project Accountant Manager		\$70 - \$100	0.0	\$ 76.00	\$ -
Project Delivery Manager		\$65 - \$89	0.0	\$ 74.00	\$ -
Sr. Project Accountant		\$50 - \$74	40.0	\$ 58.00	\$ 2,320.00
Project Accountant		\$35 - \$58	0.0	\$ 47.00	\$ -
Sr. Project Coordinator		\$45 - \$68	61.0	\$ 52.00	\$ 3,172.00
Project Coordinator		\$35 - \$53	0.0	\$ 45.00	\$ -
Sr. Project Assistant		\$40 - \$53	0.0	\$ 45.00	\$ -
Project Assistant		\$30 - \$42	0.0	\$ 33.00	\$ -
Sr. Technical Writer		\$35 - \$58	0.0	\$ 45.00	\$ -
Technical Writer		\$35 - \$47	0.0	\$ 40.00	\$ -
Sr. Graphic Manager		\$60 - \$74	0.0	\$ 68.00	\$ -
Sr. Graphic Designer		\$45 - \$63	0.0	\$ 49.00	\$ -
Graphic Designer		\$35 - \$47	0.0	\$ 39.00	\$ -
Survey Coordinator		\$35 - \$47	0.0	\$ 38.00	\$ -
District Manager-Engineer		\$125 - \$158	0.0	\$ 137.00	\$ -
Deputy District Manager		\$110 - \$142	0.0	\$ 121.00	\$ -
Operations Manager		\$85 - \$110	0.0	\$ 93.00	\$ -
Sr. Sanitary Project Engineer		\$75 - \$95	0.0	\$ 87.00	\$ -
Sanitary Project Engineer		\$70 - \$89	0.0	\$ 74.00	\$ -
Associate Sanitary Engineer		\$60 - \$89	0.0	\$ 66.00	\$ -
Assistant Sanitary Engineer		\$55 - \$79	0.0	\$ 63.00	\$ -
Lead Inspector		\$50 - \$74	0.0	\$ 57.00	\$ -
Sr. Inspector		\$45 - \$63	0.0	\$ 55.00	\$ -
Inspector		\$35 - \$53	0.0	\$ 40.00	\$ -
Inspector - Apprentice		\$30 - \$42	0.0	\$ 34.00	\$ -

ATTACHMENT 3

Expert Witness	\$315 - \$383	0.0	\$ 331.00	\$ -
Strategic Consulting	\$315 - \$383	0.0	\$ 331.00	\$ -

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 445,480.92
b) Anticipated Salary Increases (see page 2 for calculation)	<u>\$8,909.62</u>
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 454,390.54

INDIRECT COSTS

d) Fringe Benefits (Rate: 100.37%)	e) Total Fringe Benefits [(c) x (d)]	\$ 456,071.78
f) Overhead (Rate: 45.76%)	g) Overhead [(c) x (f)]	\$ 207,929.11
h) General and Administrative (Rate: 0.00%)	i) Gen & Admin [(c) x (h)]	\$ -
j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]		\$ 664,000.89
k) TOTAL FIXED FEE [(j) x fixed fee 10.00 %]		\$ 111,839.14

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	
Mileage	0	miles	\$0.70	\$ -
Mileage - Survey	3280	miles	\$0.70	\$ 2,296.00
CM Truck & Equipment	0	HR	\$14.00	\$ -
Copies	0	EA	\$0.05	\$ -
Reproductions - full size	0	sheets	\$1.00	\$ -
Reproductions - half size	0	sheets	\$0.35	\$ -
Structure/Quantity Calculations	0	sheets	\$0.05	\$ -
Misc. Costs	0	LS	\$500.00	\$ -
Overnight Mail/Mail	0	EA	\$15.00	\$ -
Potholing	2	EA	\$5,000.00	\$ 10,000.00
Misc. Surveys (Maps, PTR's, etc.)	12	LS	\$1,000.00	\$ 12,000.00
Safety Plan	0	LS	\$1,000.00	\$ -
Traffic Control	0	LS	\$3,000.00	\$ -
Per Diem	0	Day	\$260.00	\$ -
Civil Grid	0	0	\$0.00	\$ -
Survey Equipment	0	HR	\$30.00	\$ -
Aerial Mapping	1	LS	\$11,500.00	\$ 11,500.00

l) TOTAL OTHER DIRECT COSTS \$ 35,796.00

m) SUBCONSULTANTS' COSTS (add additional pages if necessary)

Subconsultant 1: AIM	\$ 57,372.25
Subconsultant 2: Crawford	\$ 51,528.38
Subconsultant 3: Fehr & Peers	\$ 169,531.22
Subconsultant 4: LSA	\$ 240,424.81
Subconsultant 5: Monument ROW	\$ 10,903.24

m) TOTAL SUBCONSULTANTS' COSTS \$ 529,759.90

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 565,555.90

TOTAL COST [(c) + (j) + (k) + (n)] \$ 1,795,786.48

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	/	Total Hours per Cost Proposal	=	Avg Hourly Rate	2 Year Contract Duration
\$445,480.92		6652.0		\$66.97	Year 1 Avg Hourly Rates

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %

	Average Hourly Rate		Escalation			
Year 1	\$66.97	+	5.00%	=	\$70.32	Year 2 Avg Hourly Rate
Year 2	\$70.32	+	10000.00%	=	\$7,102.11	Year 3 Avg Hourly Rate
Year 3	\$7,102.11	+	5.00%	#	\$7,457.22	Year 4 Avg Hourly Rate
Year 4	\$7,457.22	+	5.00%	=	\$7,830.08	Year 5 Avg Hourly Rate
Year 5	\$7,830.08	+	5.00%	=	\$8,221.58	Year 6 Avg Hourly Rate
Year 6	\$8,221.58	+	5.00%	=	\$8,632.66	Year 7 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total hours per Cost Proposal		Total Hours per Year	
Year 1	60%	x	6652.0	=	3991.2	Estimated Hours Year 1
Year 2	40%	x	6652.0	=	2660.8	Estimated Hours Year 2
Year 3	0%	x	6652.0	=	0.0	Estimated Hours Year 3
Year 4	0%	x	6652.0	=	0.0	Estimated Hours Year 4
Year 5	0%	x	6652.0	=	0.0	Estimated Hours Year 5
Year 6	0%	x	6652.0	=	0.0	Estimated Hours Year 6
Total	100%		Total		6652.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$66.97	x	3991.2	=	\$267,288.55	Estimated Cost Year 1
Year 2	\$70.32	x	2660.8	=	\$187,101.99	Estimated Cost Year 2
Year 3	\$7,102.11	x	0.0	=	\$0.00	Estimated Cost Year 3
Year 4	\$7,457.22	x	0.0	=	\$0.00	Estimated Cost Year 4
Year 5	\$7,830.08	x	0.0	=	\$0.00	Estimated Cost Year 5
Year 6	\$8,221.58	x	0.0	=	\$0.00	Estimated Cost Year 6
	Total Direct Labor Cost with Escalation				\$454,390.54	
	Direct Labor Subtotal before Escalation				\$445,480.92	
	Estimated total of Direct Labor Salary Increase				\$8,909.62	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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 Part 31](#) - Contract Cost Principles and Procedures
5. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
6. [48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency approved or Caltrans accepted

Prime Consultant or Subconsultant Certifying:

Name: Matt Brogan _____

Title*: Principal, Executive Vice President _____

Signature  _____

Date of Certification (mm/dd/yyyy): 11/03/2025 _____

Email: mbrogan@markthomas.com _____

Phone Number: 916-605-6761 _____

Address: 701 University Avenue, Suite 200, Sacramento, CA 95825 _____

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: AIM Consulting

Project No. Manteca - Airport Way Part 2 Contract No. _____

Date 10/28/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Senior Outreach Manager	K. DeMaio		39	\$ 68.06	\$ 2,620.31
Graphic Design	D. Tran		38	\$ 75.00	\$ 2,812.50
Outreach Manager	TBD	55-65	69	\$ 59.75	\$ 4,092.88
Senior Outreach Coordinator	F. Molina		97	\$ 48.85	\$ 4,714.03
Outreach Coordinator	TBD	35-45	100	\$ 39.65	\$ 3,945.18

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 18,184.89
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 227.31
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 18,412.20

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>26.89%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 4,951.04
f) Overhead & G&A (Rate: <u>80.55%</u>)	g) Overhead [(c) x (f)]	\$ 14,831.02
h) General & Admin (Rate: <u>57%</u>)	i) Gen & Admin [(c) x (h)]	\$ 10,575.97
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 30,358.03
FIXED FEE	k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: 10%	\$ 4,877.02

I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Printing and Workshop supplies	tbd		at rate	\$ 1,250.00
Mileages	tbd		at rate	\$ 475.00
Mailers and Postage	tbd		at rate	\$ 2,000.00
	I) TOTAL OTHER DIRECT COSTS			\$ 3,725.00

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1:	_____
Subconsultant 2:	_____
Subconsultant 3:	_____
Subconsultant 4:	_____
m) TOTAL SUBCONSULTANTS' COSTS	\$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(I) + (m)]	\$ 3,725.00
TOTAL COST [(c) + (j) + (k) + (n)]	\$ 57,372.25

NOTES:

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant AIM Consulting

Project No. Manteca - Airport Way Contract No. _____

Date 10/28/2025

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 18,184.89	341	=	\$ 53.41	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	Avg Hourly Rate	
Year 1	\$ 53.41	+	5%	=	\$ 56.08	Year 2 Avg Hourly Rate
Year 2	\$ 56.08	+	5%	=	\$ 58.88	Year 3 Avg Hourly Rate
Year 3	\$ 58.88	+	5%	=	\$ 61.82	Year 4 Avg Hourly Rate
Year 4	\$ 61.82	+	5%	=	\$ 64.92	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	75.00%	*	340.5	=	255.4	Estimated Hours Year 1
Year 2	25.00%	*	340.5	=	85.1	Estimated Hours Year 2
Year 3	0.00%	*	340.5	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	340.5	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	340.5	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	340.5	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$ 53.41	*	255	=	\$ 13,638.66	Estimated Hours Year 1	
Year 2	\$ 56.08	*	85	=	\$ 4,773.53	Estimated Hours Year 2	
Year 3	\$ 58.88	*	0	=	\$ -	Estimated Hours Year 3	
Year 4	\$ 61.82	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 18,412.20	
Direct Labor Subtotal before Escalation					=	\$ 18,184.89	
Estimated total of Direct Labor Salary Increase					=	\$ 227.31	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

ATTACHMENT 3

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Katie DeMaio Title *: President

Signature: _____ Date of Certification: 10/28/2025

Email: kdemaio@aimconsultingco.com Phone number: 916-442-1168

Address: 2600 Capitol Ave, Suite 440 Sacramento CA 95816

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

ATTACHMENT 3

SR120/Airport Way

11/19/2025



Crawford & Associates, Inc. - Tasks and Descriptions

	Principal *	Senior Project Manager *	Project Manager I	Senior Engineer I	Senior Geologist	Project Engineer II / Geologist II	Project Engineer I / Geologist I	Staff Engineer / Geologist	Drafter	Project Coordinator	Administrative Assistant					
Crawford Staff	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Initial Hourly Rate	\$ 76.90	\$ 71.90	\$ 61.60	\$ 57.42	\$ 50.50	\$ 44.92	\$ 41.33	\$ 33.79	\$ 32.50	\$ 40.00	\$ 31.00					
Fringe Benefits	72.58%	\$ 55.81	\$ 52.19	\$ 44.71	\$ 41.68	\$ 36.65	\$ 32.60	\$ 30.00	\$ 24.52	\$ 23.59	\$ 29.03	\$ 22.50				
Overhead	84.99%	\$ 65.36	\$ 61.11	\$ 52.35	\$ 48.80	\$ 42.92	\$ 38.18	\$ 35.13	\$ 28.72	\$ 27.62	\$ 34.00	\$ 26.35				
G&A	20.00%	\$ 15.38	\$ 14.38	\$ 12.32	\$ 11.48	\$ 10.10	\$ 8.98	\$ 8.27	\$ 6.76	\$ 6.50	\$ 8.00	\$ 6.20				
Fixed Fee	10%	\$ 21.35	\$ 19.96	\$ 17.10	\$ 15.94	\$ 14.02	\$ 12.47	\$ 11.47	\$ 9.38	\$ 9.02	\$ 11.10	\$ 8.60				
Hourly Rate	\$ 234.80	\$ 219.53	\$ 188.08	\$ 175.32	\$ 154.19	\$ 137.15	\$ 126.19	\$ 103.17	\$ 99.23	\$ 122.13	\$ 94.65					
													HOURS PER TASK	LABOR COST PER TASK	OTHER DIRECT COSTS	TOTAL COST PER TASK
TASK 1	1. Project Design Team Meetings															
	PDT Meetings	2.00		8.00									10.00	\$ 1,974.24	\$ -	\$ 1,974.24
	Task 1 - Hours	2.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	\$ 1,974.24	\$ -	\$ 1,974.24
TASK 2	2. Preliminary Foundation Report															
	Document Review and Research			1.00			2.00	12.00			0.50	0.50	16.00	\$ 2,085.08	\$ -	\$ 2,085.08
	Engineering Evaluation and Analysis	1.00	2.00	5.00	10.00		12.00			0.50			30.50	\$ 5,074.35	\$ -	\$ 5,074.35
	Preliminary Foundation Report	1.00	2.00	5.00	7.00		15.00	5.00	4.00	12.50	1.00		52.50	\$ 7,304.95	\$ -	\$ 7,304.95
	Caltrans Review Comments	0.50	1.00	2.00	4.00		3.00				0.50		11.00	\$ 1,886.89	\$ -	\$ 1,886.89
	Task 2 - Hours	2.50	5.00	13.00	21.00	0.00	32.00	17.00	4.00	12.50	2.50	0.50	110.00	\$ 16,351.27	\$ -	\$ 16,351.27
TASK 3	3. Preliminary Geotechnical Report															
	Document Review and Research	1.00		1.00	5.00		12.00	5.00			1.00	1.00	26.00	\$ 3,793.05	\$ -	\$ 3,793.05
	Preliminary Geotechnical Report	1.00	2.00	2.00	10.00		20.00	5.00		2.00	1.00		43.00	\$ 6,497.82	\$ -	\$ 6,497.82
	Caltrans Review Comments	0.50	1.00	2.00	3.00		3.00				0.50		10.00	\$ 1,711.57	\$ -	\$ 1,711.57
	Task 3 - Hours	2.50	3.00	5.00	18.00	0.00	35.00	10.00	0.00	2.00	2.50	1.00	79.00	\$ 12,002.43	\$ -	\$ 12,002.43
TASK 4	4. Preliminary Materials Report															
	Document Review and Research	0.50		1.00	2.00		6.00	5.00			1.00	1.00	16.50	\$ 2,326.77	\$ -	\$ 2,326.77
	Preliminary Materials Report	1.00	1.00	2.00	8.00		9.00	10.00		2.00	1.00		34.00	\$ 5,049.93	\$ -	\$ 5,049.93
	Caltrans Review Comments	0.50	1.00	2.00	3.00						0.50		7.00	\$ 1,300.11	\$ -	\$ 1,300.11
	Task 4 - Hours	2.00	2.00	5.00	13.00	0.00	15.00	15.00	0.00	2.00	2.50	1.00	57.50	\$ 8,676.81	\$ -	\$ 8,676.81
TASK 5	5. Initial Site Assessment															
	Project Management and ERIS Record Search	0.50	0.50		4.00	2.00		1.00			0.50	1.00	9.50	\$ 1,518.73	\$ 750.00	\$ 2,268.73
	Site Reconnaissance					1.00		4.00			0.50		5.50	\$ 720.02	\$ 74.00	\$ 794.02
	Research / Interviews							4.00			0.50		4.50	\$ 565.83	\$ -	\$ 565.83
	Draft and Final Reports	1.00	4.00		4.00	20.00		10.00		2.00	1.00		42.00	\$ 6,480.50	\$ -	\$ 6,480.50
	Task 5 - Hours	1.50	4.50	0.00	8.00	23.00	0.00	19.00	0.00	2.00	2.50	1.00	61.50	\$ 9,285.09	\$ 824.00	\$ 10,109.09
	Subtotal- Hours/Tasks	10.50	14.50	31.00	60.00	23.00	82.00	61.00	4.00	18.50	10.00	3.50	318.00			
														TOTAL LABOR COST:	\$ 48,289.85	
														TOTAL OTHER DIRECT COSTS:	\$ 824.00	
														ANTICIPATED SALARY INCREASE:	\$ 2,414.54	
														TOTAL ESTIMATED FEE:	\$ 51,528.38	

Overtime and Graveyard Charges May Apply
 (*) Indicates Key Staff
 (**) Indicates Prevailing Wage Classifications

ATTACHMENT 3

COST PROPOSAL 1

COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS

Mark-ups Not Allowed

Prime Consultant
 Subconsultant
 2nd Tier Subconsultant

Consultant Crawford & Associates, Inc.

Project No. _____ Contract No. _____ Date 11/19/2025

Project Name SR120/Airport Way

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal *	TBD	11	\$76.90	\$ 807.45
Senior Project Manager *	TBD	15	\$71.90	\$ 1,042.55
Construction Services Director *	TBD	0	\$69.97	\$ -
Project Manager II	TBD	0	\$78.07	\$ -
Project Manager I	TBD	31	\$61.60	\$ 1,909.60
Senior Engineer II	TBD	0	\$61.00	\$ -
Senior Engineer I	TBD	60	\$57.42	\$ 3,445.20
Senior Geologist	TBD	23	\$50.50	\$ 1,161.50
Project Engineer III / Geologist III	TBD	0	\$47.60	\$ -
Project Engineer II / Geologist II	TBD	82	\$44.92	\$ 3,683.44
Project Engineer I / Geologist I	TBD	61	\$41.33	\$ 2,521.13
Staff Engineer / Geologist	TBD	4	\$33.79	\$ 135.16
Drafter	TBD	19	\$32.50	\$ 601.25
Project Coordinator	TBD	10	\$40.00	\$ 400.00
Administrative Assistant	TBD	4	\$31.00	\$ 108.50
Special Inspector	TBD	0	\$38.00	\$ -
Senior Technician	TBD	0	\$33.50	\$ -
Staff Technician	TBD	0	\$30.50	\$ -
Special Inspector I (Masonry) **	TBD	0	\$58.00	\$ -
Special Inspector II (Welding) **	TBD	0	\$53.75	\$ -
Laborer Technician **	TBD	0	\$38.75	\$ -
Soils/Asphalt Technician **	TBD	0	\$51.25	\$ -
Concrete Technician **	TBD	0	\$47.00	\$ -

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LABOR COSTS

a) Subtotal Direct L Geotechnical Engineering and Environmental Services \$ 15,815.78
 b) Anticipated Salary Increases (see page 2 for calculation) \$790.80
c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$ 16,606.58

INDIRECT COSTS

d) Fringe Benefits Rate: 72.58% e) Total Fringe Benefits [(c) x (d)] \$ 12,053.06
 f) Overhead Rate: 84.99% g) Overhead [(c) x (f)] \$ 14,113.94
 h) General & Administrative Rate: 20.00% i) Gen & Admin [(c) x (h)] \$ 3,321.32
Combined ICR %: 177.57%
j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$ 29,488.31
FIXED FEE k) TOTAL FIXED FEE [(c) + (j)] x fixed fee 10% \$ 4,609.49

I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs	70	Mile	\$ 0.70	\$ 49.00
Vehicle Charge	1	Day	\$ 25.00	\$ 25.00
ERIS (Record Search)	1	Cost	\$ 750.00	\$ 750.00
				\$ 824.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)

Subconsultant 1: \$ -
 Subconsultant 2: \$ -
m) TOTAL SUBCONSULTANT'S COSTS \$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 824.00
TOTAL COST [(c) + (j) + (k) + (n)] \$ 51,528.38

CALCULATIONS FOR ANTICIPATED SALARY INCREASE

1. Calculate Average Hourly Rate for 1st Year of the Contract (Direct labor subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
<u>\$15,815.78</u>	<u>318</u>		<u>49.74</u>	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$49.74	+	5.0%	=	\$52.22	Year 2 Avg Hourly Rate
Year 2	\$52.22	+	5.0%	=	\$54.83	Year 3 Avg Hourly Rate
Year 3	\$54.83	+	5.0%	=	\$57.57	Year 4 Avg Hourly Rate
Year 4	\$57.57	+	5.0%	=	\$60.45	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	0%	*	318	=	0.00	Est Hours Year 1
Year 2	100%	*	318	=	318.00	Est Hours Year 2
Year 3	0%	*	318	=	0.00	Est Hours Year 3
Year 4	0%	*	318	=	0.00	Est Hours Year 4
Year 5	0%	*	318	=	0.00	Est Hours Year 5
Total	100%		Total	=	318.00	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$49.74	*	0	=	\$0.00	Est Hours Year 1
Year 2	\$52.22	*	318	=	\$16,606.58	Est Hours Year 2
Year 3	\$54.83	*	0	=	\$0.00	Est Hours Year 3
Year 4	\$57.57	*	0	=	\$0.00	Est Hours Year 4
Year 5	\$60.45	*	0	=	\$0.00	Est Hours Year 5
			Total Direct Labor Cost with Escalation	=	\$16,606.58	
			Direct Labor Subtotal before Escalation	=	\$15,815.78	
Geotechnical Engineering			Total of Direct Labor Salary Increase	=	<u>\$790.80</u>	(Transfers to Page 1)

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 years = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board

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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted In direct Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Benjamin D. Crawford Title *: President

Signature :  Date of Certification: 11/19/2025

Email: ben.crawford@crawford-inc.com Phone Number: (916) 455-4225

Address: Crawford & Associates, Inc., 4701 Freeport Blvd., Sacramento, CA 95822

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Geotechnical Engineering and Environmental Services

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: **Fehr & Peers**

Project No. **Manteca SR 120 Airport Way Interchange PA ED**

Contract No. _____

Date **11/21/2025**

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal	Francisco Martin	83.17-151.44	103	\$ 92.55	\$ 9,532.65
Senior Associate	David Stanek	65.87-99.04	102	\$ 87.98	\$ 8,973.96
Associate	Ashley Weiss	48.80-81.73	110	\$ 79.33	\$ 8,726.30
Associate	Yoyo Zeng		65	\$ 61.54	\$ 4,000.10
Senior Engineer/Planner	Zoey Li	42.55-64.90	81	\$ 46.63	\$ 3,777.03
Engineer/Planner	Raina Joby	34.86-51.44	168	\$ 43.51	\$ 7,309.68
Engineer/Planner	Yihao Zhang		168	\$ 38.46	\$ 6,461.28
Senior Project Coordinator	Tanya Silchuk	35.58-55.29	104	\$ 37.50	\$ 3,900.00
Project Coordinator		25.96-38.46		\$ 28.85	\$ -
Senior Engineering Technican		38.46-72.12		\$ 60.82	\$ -
Technician		29.81-49.52		\$ 34.62	\$ -
Intern		23.00-36.00		\$ 31.50	\$ -
Senior Project Accountant		37.02-77.88		\$ 43.27	\$ -
				\$	\$ -
				\$	\$ -
				\$	\$ -
				\$	\$ -

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 52,681.00
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 1,317.03
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 53,998.03

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>60.79%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 32,825.40
f) Overhead & G&A (Rate: <u>118.33%</u>)	g) Overhead [(c) x (f)]	\$ 63,895.86
h) General & Admin (Rate: _____)	i) Gen & Admin [(c) x (h)]	\$ -
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 96,721.26

FIXED FEE

k) TOTAL FIXED FEE [(c) + (j)] x fixed fee:	10%	\$ 15,071.93
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I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Peak Hour Intersection Turning Movement Counts	6	count	\$ 600.00	\$ 3,600.00
Mileage for field observations	200	miles	\$ 0.70	\$ 140.00
			\$	\$ -
			\$	\$ -

I) TOTAL OTHER DIRECT COSTS \$ 3,740.00

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1: _____

Subconsultant 2: _____

ATTACHMENT 3

Subconsultant 3: _____

Subconsultant 4: _____

m) TOTAL SUBCONSULTANTS' COSTS	\$	-
n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)]	\$	3,740.00
TOTAL COST [(c) + (j) + (k) + (n)]	\$	169,531.22

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant Fehr & Peers

Manteca SR 120 Airport Way

Project No. Interchange PA ED Contract No. _____

Date 11/21/2025

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 52,681.00	901	=	\$ 58.47	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	Avg Hourly Rate	
Year 1	\$ 58.47	+	5%	=	\$ 61.39	Year 2 Avg Hourly Rate
Year 2	\$ 61.39	+	5%	=	\$ 64.46	Year 3 Avg Hourly Rate
Year 3	\$ 64.46	+	5%	=	\$ 67.69	Year 4 Avg Hourly Rate
Year 4	\$ 67.69	+	5%	=	\$ 71.07	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	50.00%	*	901.0	=	450.5	Estimated Hours Year 1
Year 2	50.00%	*	901.0	=	450.5	Estimated Hours Year 2
Year 3	0.00%	*	901.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	901.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	901.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	901.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$ 58.47	*	451	=	\$ 26,340.50	Estimated Hours Year 1
Year 2	\$ 61.39	*	451	=	\$ 27,657.53	Estimated Hours Year 2
Year 3	\$ 64.46	*	0	=	\$ -	Estimated Hours Year 3
Year 4	\$ 67.69	*	0	=	\$ -	Estimated Hours Year 4
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$ 53,998.03	
Direct Labor Subtotal before Escalation				=	\$ 52,681.00	
Estimated total of Direct Labor Salary Increase				=	\$ 1,317.03	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Lysa Wollard

Title *: Chief Financial Officer

Signature: 

Date of Certification: 11/21/2025

Email: l.wollard@fehrandpeers.com

Phone number: 925-977-3200

Address: 100 Pringle Ave. Suite 600 Walnut Creek CA 94596

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Traffic forecasts, traffic operations analysis, VMT analysis, safety assessment and cost estimates for traffic design

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: LSA Associates, Inc.

Project No. _____

Contract No. _____

Date 11/3/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal in-Charge	Amanda Durgen		39	\$ 79.56	\$ 3,102.84
Project Manager	T.J. Warner		116	\$ 79.33	\$ 9,202.28
Principal		\$72.10 - \$105.87	54	\$ 88.99	\$ 4,805.46
Associate		\$43.38 - \$89.25	147	\$ 66.32	\$ 9,749.04
Senior Technical Specialist		\$40.62 - \$78.95	118	\$ 59.79	\$ 7,055.22
Technical Specialist		\$34.58 - \$45.36	299	\$ 39.97	\$ 11,951.03
Assistant Technical Specialist		\$26.25 - \$39.83	55	\$ 33.04	\$ 1,817.20
GIS/Graphics		\$36.05 - \$64.90	73	\$ 50.48	\$ 3,685.04
Project Assistant		\$33.39 - \$39.52	18	\$ 36.46	\$ 656.28
Admin/Document Management		\$31.20 - \$52.40	236	\$ 41.80	\$ 9,864.80

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 61,889.19
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 4,267.26
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 66,156.45

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>119.51%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 79,063.57
f) Overhead & G&A (Rate: <u>101.45%</u>)	g) Overhead [(c) x (f)]	\$ 67,115.72
h) General & Admin (Rate: <u>0%</u>)	i) Gen & Admin [(c) x (h)]	\$ -
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 146,179.29

FIXED FEE

k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: 10%	\$ 21,233.57
--	---------------------

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Lodging	7	days	\$ 200.00	\$ 1,400.00
Meals	23	each/cost	\$ 25.00	\$ 575.00
Records Search	1	each	\$ 1,000.00	\$ 1,000.00
Reproduction	8	each	\$ 0.75	\$ 6.00
Aerial Drone	1	days	\$ 200.00	\$ 200.00
Mileage	1735	each	\$ 0.70	\$ 1,214.50
GPS Units	3	days	\$ 75.00	\$ 225.00
Sound Meter	6	days	\$ 75.00	\$ 450.00
Flight	3	each	\$ 335.00	\$ 1,005.00
Car Rental	3	each	\$ 200.00	\$ 600.00
Parking	3	each	\$ 60.00	\$ 180.00

l) TOTAL OTHER DIRECT COSTS \$ 6,855.50

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1: none

m) TOTAL SUBCONSULTANTS' COSTS \$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 6,855.50

TOTAL COST [(c) + (j) + (k) + (n)] \$ 240,424.81

NOTES:

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant LSA Associates, Inc.

Project No. _____ Contract No. _____

Date 11/3/2025

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 61,889.19	1155	=	\$ 53.58	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	
Year 1	\$ 53.58	+	5%	=	\$ 56.26 Year 2 Avg Hourly Rate
Year 2	\$ 56.26	+	5%	=	\$ 59.08 Year 3 Avg Hourly Rate
Year 3	\$ 59.08	+	5%	=	\$ 62.03 Year 4 Avg Hourly Rate
Year 4	\$ 62.03	+	5%	=	\$ 65.13 Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	2.00%	*	1155.0	=	23.1	Estimated Hours Year 1
Year 2	60.00%	*	1155.0	=	693.0	Estimated Hours Year 2
Year 3	38.00%	*	1155.0	=	438.9	Estimated Hours Year 3
Year 4	0.00%	*	1155.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	1155.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	1155.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	
Year 1	\$ 53.58	*	23	=	\$ 1,237.78	Estimated Hours Year 1
Year 2	\$ 56.26	*	693	=	\$ 38,990.19	Estimated Hours Year 2
Year 3	\$ 59.08	*	439	=	\$ 25,928.48	Estimated Hours Year 3
Year 4	\$ 62.03	*	0	=	\$ -	Estimated Hours Year 4
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$ 66,156.45	
	Direct Labor Subtotal before Escalation			=	\$ 61,889.19	
	Estimated total of Direct Labor Salary Increase			=	\$ 4,267.26	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

ATTACHMENT 3

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Amy Fischer

Title *: President/Chief Operating Officer

Signature:



Date of Certification: 11/21/2025

Email: amy.fischer@lsa.net

Phone number: (949) 553-0666

Address: 3210 El Camino Real, Suite 100, Irvine, CA 92602

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Environmental Services for SR 120/Airport Way Interchange and SR 120/Main Street Interchange Projects in the City of Manteca, California

ATTACHMENT 3

Year 1	40.00%	*	77.0	=	30.8	Estimated Hours Year 1
Year 2	30.00%	*	77.0	=	23.1	Estimated Hours Year 2
Year 3	30.00%	*	77.0	=	23.1	Estimated Hours Year 3
Year 4	0.00%	*	77.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	77.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	77.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$ 60.56	*	31	=	\$ 1,865.28	Estimated Hours Year 1	
Year 2	\$ 63.59	*	23	=	\$ 1,468.90	Estimated Hours Year 2	
Year 3	\$ 66.77	*	23	=	\$ 1,542.35	Estimated Hours Year 3	
Year 4	\$ 70.11	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 4,876.53	
Direct Labor Subtotal before Escalation					=	\$ 4,663.19	
Estimated total of Direct Labor Salary Increase					=	\$ 213.34	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Bob Morrison Title *: Vice President

Signature:  Date of Certification: 10/31/25

Email: bmorrison@monumentrow.com Phone number: 916.717.7069

Address: 200 Spectrum Center Suite 300, Irvine CA 92618

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Real Estate and Right of Way Services

ATTACHMENT 3

Cost Proposal 1
Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: Mark Thomas & Company, Inc.

Project No. SR 120-Main Interchange Contract No. _____ Date 11/3/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual or Average Hourly Rate	Total
Principal	Matt Brogan	\$185 - \$226	132.0	\$ 189.56	\$ 25,021.92
Sr. Project Manager	Martha Dadala	\$85 - \$121	100.0	\$ 142.15	\$ 14,215.00
Project Manager	Kira Caselli	\$70 - \$100	644.0	\$ 79.90	\$ 51,455.60
Sr. Project Engineer	Arsalan Gharachorloo	\$60 - \$89	682.0	\$ 64.36	\$ 43,893.52
0			0.0	\$ -	\$ -
Principal		\$185 - \$226	0.0	\$ 196.00	\$ -
Sr. Engineering Manager		\$120 - \$168	0.0	\$ 138.00	\$ -
Engineering Manager		\$115 - \$142	0.0	\$ 123.00	\$ -
Design Manager		\$115 - \$142	0.0	\$ 123.00	\$ -
Sr. Project Manager		\$85 - \$121	129.0	\$ 102.00	\$ 13,158.00
Sr. Technical Lead		\$85 - \$105	0.0	\$ 93.00	\$ -
Project Manager		\$70 - \$100	0.0	\$ 81.00	\$ -
Technical Lead		\$70 - \$100	0.0	\$ 77.00	\$ -
Sr. Project Engineer		\$60 - \$89	222.0	\$ 70.00	\$ 15,540.00
Sr. Technical Engineer		\$65 - \$84	250.0	\$ 68.00	\$ 17,000.00
Project Engineer		\$50 - \$68	520.0	\$ 58.00	\$ 30,160.00
Civil Engineering Designer		\$50 - \$74	0.0	\$ 62.00	\$ -
Design Engineer II		\$40 - \$63	620.0	\$ 47.00	\$ 29,140.00
Design Engineer I		\$35 - \$47	400.0	\$ 39.00	\$ 15,600.00
CADD Manager		\$75 - \$95	0.0	\$ 80.00	\$ -
Sr. Technician		\$50 - \$68	0.0	\$ 59.00	\$ -
Technician		\$30 - \$42	0.0	\$ 38.00	\$ -
Intern		\$15 - \$32	100.0	\$ 23.00	\$ 2,300.00
LAUD Division Manager		\$95 - \$116	0.0	\$ 100.00	\$ -
Sr. LAUD Project Manager		\$85 - \$110	0.0	\$ 93.00	\$ -
LAUD Project Manager		\$65 - \$84	0.0	\$ 72.00	\$ -
Sr. Landscape Architect		\$55 - \$74	0.0	\$ 62.00	\$ -
Landscape Architect		\$45 - \$63	0.0	\$ 50.00	\$ -
Landscape Designer II		\$35 - \$53	0.0	\$ 40.00	\$ -
Landscape Designer I		\$25 - \$37	0.0	\$ 30.00	\$ -
Landscape Intern		\$20 - \$32	0.0	\$ 25.00	\$ -
Survey Division Manager		\$100 - \$147	6.0	\$ 125.00	\$ 750.00
Survey Manager II		\$85 - \$116	94.0	\$ 91.00	\$ 8,554.00
Survey Manager I		\$75 - \$100	0.0	\$ 78.00	\$ -
Project Surveyor III		\$70 - \$89	0.0	\$ 74.00	\$ -
Project Surveyor II		\$60 - \$84	196.0	\$ 74.00	\$ 14,504.00
Project Surveyor I		\$55 - \$79	0.0	\$ 61.00	\$ -
Asst Surveyor III		\$50 - \$68	0.0	\$ 57.00	\$ -
Asst Surveyor II		\$40 - \$63	136.0	\$ 47.00	\$ 6,392.00
Asst Surveyor I		\$40 - \$58	0.0	\$ 43.00	\$ -
Survey Specialist III		\$45 - \$89	0.0	\$ 69.00	\$ -
Survey Specialist II		\$40 - \$74	0.0	\$ 56.00	\$ -
Survey Specialist I		\$40 - \$58	0.0	\$ 46.00	\$ -
Lead Survey Technician		\$45 - \$58	16.0	\$ 47.00	\$ 752.00
Survey Technician III		\$40 - \$63	0.0	\$ 48.00	\$ -
Survey Technician II		\$35 - \$53	114.0	\$ 41.00	\$ 4,674.00
Survey Technician I		\$20 - \$37	0.0	\$ 26.00	\$ -

ATTACHMENT 3

SUE Program Manager		\$85 - \$110	0.0	\$ 92.00	\$ -
Utility Locator (North)		\$60 - \$79	0.0	\$ 65.00	\$ -
Utility Locator (South)		\$75 - \$100	0.0	\$ 83.00	\$ -
Chief of Party (OE3)		\$60 - \$79	0.0	\$ 62.00	\$ -
Instrumentperson (OE3)		\$50 - \$68	0.0	\$ 57.00	\$ -
Chainperson (OE3)		\$50 - \$68	0.0	\$ 53.00	\$ -
Apprentice (OE3)		\$30 - \$47	0.0	\$ 40.00	\$ -
2-Person Crew (OE3)		\$125 - \$158	160.0	\$ 132.00	\$ 21,120.00
3-Person Crew (OE3)		\$175 - \$221	30.0	\$ 188.00	\$ 5,640.00
Chief of Party (OE12)		\$65 - \$84	0.0	\$ 69.00	\$ -
Instrumentperson (OE12)		\$55 - \$74	0.0	\$ 62.00	\$ -
Chainperson (OE12)		\$55 - \$74	0.0	\$ 60.00	\$ -
Apprentice (OE12)		\$35 - \$53	0.0	\$ 45.00	\$ -
2-Person Crew (OE12)		\$130 - \$163	0.0	\$ 139.00	\$ -
3-Person Crew (OE12)		\$185 - \$231	0.0	\$ 198.00	\$ -
Safety Manager		\$75 - \$95	0.0	\$ 82.00	\$ -
Division Manager - CM		\$145 - \$179	0.0	\$ 154.00	\$ -
Area Manager - CM		\$105 - \$131	0.0	\$ 110.00	\$ -
Construction Manager		\$90 - \$116	0.0	\$ 100.00	\$ -
Sr. Resident Engineer		\$110 - \$137	0.0	\$ 117.00	\$ -
Resident Engineer		\$90 - \$121	0.0	\$ 101.00	\$ -
Asst. Resident Engineer		\$60 - \$79	0.0	\$ 66.00	\$ -
Sr. Inspector - CM		\$65 - \$105	0.0	\$ 87.00	\$ -
Inspector - CM		\$55 - \$74	0.0	\$ 61.00	\$ -
Office Engineer		\$45 - \$74	0.0	\$ 55.00	\$ -
Division Manager - PL		\$90 - \$126	0.0	\$ 97.00	\$ -
Sr. Project Manager - PL		\$80 - \$116	371.0	\$ 98.00	\$ 36,358.00
Project Manager - PL		\$55 - \$74	635.0	\$ 60.00	\$ 38,100.00
Sr. Planner		\$50 - \$68	0.0	\$ 54.00	\$ -
Planner II		\$40 - \$53	836.0	\$ 43.00	\$ 35,948.45
Planner I		\$30 - \$42	0.0	\$ 32.00	\$ -
Economist		\$35 - \$47	0.0	\$ 41.00	\$ -
Funding Manager		\$105 - \$142	0.0	\$ 117.00	\$ -
Sr. Funding Specialist		\$75 - \$95	0.0	\$ 80.00	\$ -
Funding Specialist		\$40 - \$74	0.0	\$ 58.00	\$ -
Project Accountant Manager		\$70 - \$100	0.0	\$ 76.00	\$ -
Project Delivery Manager		\$65 - \$89	0.0	\$ 74.00	\$ -
Sr. Project Accountant		\$50 - \$74	40.0	\$ 58.00	\$ 2,320.00
Project Accountant		\$35 - \$58	0.0	\$ 47.00	\$ -
Sr. Project Coordinator		\$45 - \$68	56	\$ 52.00	\$ 2,899.06
Project Coordinator		\$35 - \$53	0.0	\$ 45.00	\$ -
Sr. Project Assistant		\$40 - \$53	0.0	\$ 45.00	\$ -
Project Assistant		\$30 - \$42	0.0	\$ 33.00	\$ -
Sr. Technical Writer		\$35 - \$58	0.0	\$ 45.00	\$ -
Technical Writer		\$35 - \$47	0.0	\$ 40.00	\$ -
Sr. Graphic Manager		\$60 - \$74	0.0	\$ 68.00	\$ -
Sr. Graphic Designer		\$45 - \$63	0.0	\$ 49.00	\$ -
Graphic Designer		\$35 - \$47	0.0	\$ 39.00	\$ -
Survey Coordinator		\$35 - \$47	0.0	\$ 38.00	\$ -
District Manager-Engineer		\$125 - \$158	0.0	\$ 137.00	\$ -
Deputy District Manager		\$110 - \$142	0.0	\$ 121.00	\$ -
Operations Manager		\$85 - \$110	0.0	\$ 93.00	\$ -
Sr. Sanitary Project Engineer		\$75 - \$95	0.0	\$ 87.00	\$ -
Sanitary Project Engineer		\$70 - \$89	0.0	\$ 74.00	\$ -
Associate Sanitary Engineer		\$60 - \$89	0.0	\$ 66.00	\$ -
Assistant Sanitary Engineer		\$55 - \$79	0.0	\$ 63.00	\$ -
Lead Inspector		\$50 - \$74	0.0	\$ 57.00	\$ -
Sr. Inspector		\$45 - \$63	0.0	\$ 55.00	\$ -
Inspector		\$35 - \$53	0.0	\$ 40.00	\$ -

ATTACHMENT 3

Inspector - Apprentice		\$30 - \$42	0.0	\$ 34.00	\$ -
Expert Witness		\$315 - \$383	0.0	\$ 331.00	\$ -
Strategic Consulting		\$315 - \$383	0.0	\$ 331.00	\$ -

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 435,495.54
b) Anticipated Salary Increases (see page 2 for calculation)	<u>\$ 8,709.91</u>
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 444,205.46

INDIRECT COSTS

d) Fringe Benefits (Rate: 100.37%)	e) Total Fringe Benefits [(c) x (d)]	\$ 445,849.02
f) Overhead (Rate: 45.76%)	g) Overhead [(c) x (f)]	<u>\$ 203,268.42</u>
h) General and Administrative (Rate: 0.00%)	i) Gen & Admin [(c) x (h)]	<u>\$ -</u>
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 649,117.43
FIXED FEE	k) TOTAL FIXED FEE [(j) x fixed fee 10.00 %]	\$ 109,332.29

l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	
Mileage	0	miles	\$0.70	\$ -
Mileage - Survey	3280	miles	\$0.70	\$ 2,296.00
CM Truck & Equipment	0	HR	\$14.00	\$ -
Copies	0	EA	\$0.05	\$ -
Reproductions - full size	0	sheets	\$1.00	\$ -
Reproductions - half size	0	sheets	\$0.35	\$ -
Structure/Quantity Calculations	0	sheets	\$0.05	\$ -
Misc. Costs	0	LS	\$500.00	\$ -
Overnight Mail/Mail	0	EA	\$15.00	\$ -
Potholing	0	EA	\$5,000.00	\$ -
Misc. Surveys (Maps, PTR's, etc.)	12	LS	\$1,000.00	\$ 12,000.00
Safety Plan	0	LS	\$1,000.00	\$ -
Traffic Control	2	LS	\$3,000.00	\$ 6,000.00
Per Diem	0	Day	\$260.00	\$ -
Civil Grid	0	0	\$0.00	\$ -
Survey Equipment	0	HR	\$30.00	\$ -
Aerial Mapping	1	LS	\$11,500.00	\$ 11,500.00

l) TOTAL OTHER DIRECT COSTS \$ 31,796.00

m) SUBCONSULTANTS' COSTS (add additional pages if necessary)

Subconsultant 1: AIM	<u>\$ 57,372.25</u>
Subconsultant 2: Crawford	<u>\$ 51,528.38</u>
Subconsultant 3: Fehr & Peers	<u>\$ 185,501.18</u>
Subconsultant 4: LSA	<u>\$ 264,404.12</u>
Subconsultant 5: Monument ROW	<u>\$ 10,903.24</u>

m) TOTAL SUBCONSULTANTS' COSTS	\$ 569,709.17
n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)]	\$ 601,505.17
TOTAL COST [(c) + (j) + (k) + (n)]	\$ 1,804,160.35

NOTES:

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	/	Total Hours per Cost Proposal	=	Avg Hourly Rate	2 Year Contract Duration Year 1 Avg Hourly Rates
\$435,495.54		6489		\$67.12	

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Average Hourly Rate		Escalation			
Year 1	\$67.12	+	5.00%	=	\$70.47	Year 2 Avg Hourly Rate
Year 2	\$70.47	+	5.00%	=	\$73.99	Year 3 Avg Hourly Rate
Year 3	\$73.99	+	5.00%	=	\$77.69	Year 4 Avg Hourly Rate
Year 4	\$77.69	+	5.00%	=	\$81.58	Year 5 Avg Hourly Rate
Year 5	\$81.58	+	5.00%	=	\$85.66	Year 6 Avg Hourly Rate
Year 6	\$85.66	+	5.00%	=	\$89.94	Year 7 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total hours per Cost Proposal		Total Hours per Year	
Year 1	60%	x	6488.8	=	3893.3	Estimated Hours Year 1
Year 2	40%	x	6488.8	=	2595.5	Estimated Hours Year 2
Year 3	0%	x	6488.8	=	0.0	Estimated Hours Year 3
Year 4	0%	x	6488.8	=	0.0	Estimated Hours Year 4
Year 5	0%	x	6488.8	=	0.0	Estimated Hours Year 5
Year 6	0%	x	6488.8	=	0.0	Estimated Hours Year 6
Total	100%		Total		6488.8	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$67.12	x	3893.3	=	\$261,297.33	Estimated Cost Year 1
Year 2	\$70.47	x	2595.5	=	\$182,908.13	Estimated Cost Year 2
Year 3	\$73.99	x	0.0	=	\$0.00	Estimated Cost Year 3
Year 4	\$77.69	x	0.0	=	\$0.00	Estimated Cost Year 4
Year 5	\$81.58	x	0.0	=	\$0.00	Estimated Cost Year 5
Year 6	\$85.66	x	0.0	=	\$0.00	Estimated Cost Year 6
	Total Direct Labor Cost with Escalation				\$444,205.46	
	Direct Labor Subtotal before Escalation				\$435,495.54	
	Estimated total of Direct Labor Salary Increase				\$8,709.91	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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

5. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
6. [48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency approved or Caltrans accepted

Prime Consultant or Subconsultant Certifying:

Name: Matt Brogan _____

Title*: Principal, Executive Vice President _____

Signature:  _____

Date of Certification (mm/dd/yyyy): 11/03/2025 _____

Email: mbrogan@markthomas.com _____

Phone Number: 916-605-6761 _____

Address: 701 University Avenue, Suite 200, Sacramento, CA 95825 _____

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: AIM Consulting

Project No. Manteca - Airport Way Part 1 Contract No. _____

Date 10/28/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Senior Outreach Manager	K. DeMaio		39	\$ 68.06	\$ 2,620.31
Graphic Design	D. Tran		38	\$ 75.00	\$ 2,812.50
Outreach Manager	TBD	55-65	69	\$ 59.75	\$ 4,092.88
Senior Outreach Coordinator	F. Molina		97	\$ 48.85	\$ 4,714.03
Outreach Coordinator	TBD	35-45	100	\$ 39.65	\$ 3,945.18

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 18,184.89
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 227.31
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 18,412.20

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>26.89%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 4,951.04
f) Overhead & G&A (Rate: <u>80.55%</u>)	g) Overhead [(c) x (f)]	\$ 14,831.02
h) General & Admin (Rate: <u>57%</u>)	i) Gen & Admin [(c) x (h)]	\$ 10,575.97
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 30,358.03
FIXED FEE	k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: 10%	\$ 4,877.02

I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Printing and Workshop supplies	tbd		at rate	\$ 1,250.00
Mileages	tbd		at rate	\$ 475.00
Mailers and Postage	tbd		at rate	\$ 2,000.00
	I) TOTAL OTHER DIRECT COSTS			\$ 3,725.00

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1:	_____
Subconsultant 2:	_____
Subconsultant 3:	_____
Subconsultant 4:	_____
m) TOTAL SUBCONSULTANTS' COSTS	\$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(I) + (m)]	\$ 3,725.00
TOTAL COST [(c) + (j) + (k) + (n)]	\$ 57,372.25

NOTES:

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant AIM Consulting

Project No. Manteca - Airport Way Contract No. _____

Date 10/28/2025

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 18,184.89	341	=	\$ 53.41	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	Avg Hourly Rate	
Year 1	\$ 53.41	+	5%	=	\$ 56.08	Year 2 Avg Hourly Rate
Year 2	\$ 56.08	+	5%	=	\$ 58.88	Year 3 Avg Hourly Rate
Year 3	\$ 58.88	+	5%	=	\$ 61.82	Year 4 Avg Hourly Rate
Year 4	\$ 61.82	+	5%	=	\$ 64.92	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	75.00%	*	340.5	=	255.4	Estimated Hours Year 1
Year 2	25.00%	*	340.5	=	85.1	Estimated Hours Year 2
Year 3	0.00%	*	340.5	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	340.5	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	340.5	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	340.5	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$ 53.41	*	255	=	\$ 13,638.66	Estimated Hours Year 1	
Year 2	\$ 56.08	*	85	=	\$ 4,773.53	Estimated Hours Year 2	
Year 3	\$ 58.88	*	0	=	\$ -	Estimated Hours Year 3	
Year 4	\$ 61.82	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 18,412.20	
Direct Labor Subtotal before Escalation					=	\$ 18,184.89	
Estimated total of Direct Labor Salary Increase					=	\$ 227.31	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

ATTACHMENT 3

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Katie DeMaio Title *: President

Signature: _____ Date of Certification: 10/28/2025

Email: kdemaio@aimconsultingco.com Phone number: 916-442-1168

Address: 2600 Capitol Ave, Suite 440 Sacramento CA 95816

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

ATTACHMENT 3

SR120/Main Street

11/19/2025



Crawford & Associates, Inc. - Tasks and Descriptions

	Principal *	Senior Project Manager *	Project Manager I	Senior Engineer I	Senior Geologist	Project Engineer II / Geologist II	Project Engineer I / Geologist I	Staff Engineer / Geologist	Drafter	Project Coordinator	Administrative Assistant					
Crawford Staff	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Initial Hourly Rate	\$ 76.90	\$ 71.90	\$ 61.60	\$ 57.42	\$ 50.50	\$ 44.92	\$ 41.33	\$ 33.79	\$ 32.50	\$ 40.00	\$ 31.00					
Fringe Benefits	72.58%	\$ 55.81	\$ 52.19	\$ 44.71	\$ 41.68	\$ 36.65	\$ 32.60	\$ 30.00	\$ 24.52	\$ 23.59	\$ 29.03	\$ 22.50				
Overhead	84.99%	\$ 65.36	\$ 61.11	\$ 52.35	\$ 48.80	\$ 42.92	\$ 38.18	\$ 35.13	\$ 28.72	\$ 27.62	\$ 34.00	\$ 26.35				
G&A	20.00%	\$ 15.38	\$ 14.38	\$ 12.32	\$ 11.48	\$ 10.10	\$ 8.98	\$ 8.27	\$ 6.76	\$ 6.50	\$ 8.00	\$ 6.20				
Fixed Fee	10%	\$ 21.35	\$ 19.96	\$ 17.10	\$ 15.94	\$ 14.02	\$ 12.47	\$ 11.47	\$ 9.38	\$ 9.02	\$ 11.10	\$ 8.60				
Hourly Rate	\$ 234.80	\$ 219.53	\$ 188.08	\$ 175.32	\$ 154.19	\$ 137.15	\$ 126.19	\$ 103.17	\$ 99.23	\$ 122.13	\$ 94.65					
													HOURS PER TASK	LABOR COST PER TASK	OTHER DIRECT COSTS	TOTAL COST PER TASK
TASK 1	1. Project Design Team Meetings															
	PDT Meetings	2.00		8.00									10.00	\$ 1,974.24	\$ -	\$ 1,974.24
	Task 1 - Hours	2.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	\$ 1,974.24	\$ -	\$ 1,974.24
TASK 2	2. Preliminary Foundation Report															
	Document Review and Research			1.00			2.00	12.00			0.50	0.50	16.00	\$ 2,085.08	\$ -	\$ 2,085.08
	Engineering Evaluation and Analysis	1.00	2.00	5.00	10.00		12.00				0.50		30.50	\$ 5,074.35	\$ -	\$ 5,074.35
	Preliminary Foundation Report	1.00	2.00	5.00	7.00		15.00	5.00	4.00	12.50	1.00		52.50	\$ 7,304.95	\$ -	\$ 7,304.95
	Caltrans Review Comments	0.50	1.00	2.00	4.00		3.00				0.50		11.00	\$ 1,886.89	\$ -	\$ 1,886.89
	Task 2 - Hours	2.50	5.00	13.00	21.00	0.00	32.00	17.00	4.00	12.50	2.50	0.50	110.00	\$ 16,351.27	\$ -	\$ 16,351.27
TASK 3	3. Preliminary Geotechnical Report															
	Document Review and Research	1.00		1.00	5.00		12.00	5.00			1.00	1.00	26.00	\$ 3,793.05	\$ -	\$ 3,793.05
	Preliminary Geotechnical Report	1.00	2.00	2.00	10.00		20.00	5.00		2.00	1.00		43.00	\$ 6,497.82	\$ -	\$ 6,497.82
	Caltrans Review Comments	0.50	1.00	2.00	3.00		3.00				0.50		10.00	\$ 1,711.57	\$ -	\$ 1,711.57
	Task 3 - Hours	2.50	3.00	5.00	18.00	0.00	35.00	10.00	0.00	2.00	2.50	1.00	79.00	\$ 12,002.43	\$ -	\$ 12,002.43
TASK 4	4. Preliminary Materials Report															
	Document Review and Research	0.50		1.00	2.00		6.00	5.00			1.00	1.00	16.50	\$ 2,326.77	\$ -	\$ 2,326.77
	Preliminary Materials Report	1.00	1.00	2.00	8.00		9.00	10.00		2.00	1.00		34.00	\$ 5,049.93	\$ -	\$ 5,049.93
	Caltrans Review Comments	0.50	1.00	2.00	3.00						0.50		7.00	\$ 1,300.11	\$ -	\$ 1,300.11
	Task 4 - Hours	2.00	2.00	5.00	13.00	0.00	15.00	15.00	0.00	2.00	2.50	1.00	57.50	\$ 8,676.81	\$ -	\$ 8,676.81
TASK 5	5. Initial Site Assessment															
	Project Management and ERIS Record Search	0.50	0.50		4.00	2.00		1.00			0.50	1.00	9.50	\$ 1,518.73	\$ 750.00	\$ 2,268.73
	Site Reconnaissance					1.00		4.00			0.50		5.50	\$ 720.02	\$ 74.00	\$ 794.02
	Research / Interviews							4.00			0.50		4.50	\$ 565.83	\$ -	\$ 565.83
	Draft and Final Reports	1.00	4.00		4.00	20.00		10.00		2.00	1.00		42.00	\$ 6,480.50	\$ -	\$ 6,480.50
	Task 5 - Hours	1.50	4.50	0.00	8.00	23.00	0.00	19.00	0.00	2.00	2.50	1.00	61.50	\$ 9,285.09	\$ 824.00	\$ 10,109.09
	Subtotal- Hours/Tasks	10.50	14.50	31.00	60.00	23.00	82.00	61.00	4.00	18.50	10.00	3.50	318.00			
														TOTAL LABOR COST:	\$ 48,289.85	
														TOTAL OTHER DIRECT COSTS:	\$ 824.00	
														ANTICIPATED SALARY INCREASE:	\$2,414.54	
														TOTAL ESTIMATED FEE:	\$ 51,528.38	

Overtime and Graveyard Charges May Apply
 (*) Indicates Key Staff
 (**) Indicates Prevailing Wage Classifications

ATTACHMENT 3

COST PROPOSAL 1

COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS

Mark-ups Not Allowed

Prime Consultant Subconsultant 2nd Tier Subconsultant

Consultant Crawford & Associates, Inc.

Project No. _____ Contract No. _____ Date 11/19/2025

Project Name SR120/Main Street

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal *	TBD	11	\$76.90	\$ 807.45
Senior Project Manager *	TBD	15	\$71.90	\$ 1,042.55
Construction Services Director *	TBD	0	\$69.97	\$ -
Project Manager II	TBD	0	\$78.07	\$ -
Project Manager I	TBD	31	\$61.60	\$ 1,909.60
Senior Engineer II	TBD	0	\$61.00	\$ -
Senior Engineer I	TBD	60	\$57.42	\$ 3,445.20
Senior Geologist	TBD	23	\$50.50	\$ 1,161.50
Project Engineer III / Geologist III	TBD	0	\$47.60	\$ -
Project Engineer II / Geologist II	TBD	82	\$44.92	\$ 3,683.44
Project Engineer I / Geologist I	TBD	61	\$41.33	\$ 2,521.13
Staff Engineer / Geologist	TBD	4	\$33.79	\$ 135.16
Drafter	TBD	19	\$32.50	\$ 601.25
Project Coordinator	TBD	10	\$40.00	\$ 400.00
Administrative Assistant	TBD	4	\$31.00	\$ 108.50
Special Inspector	TBD	0	\$38.00	\$ -
Senior Technician	TBD	0	\$33.50	\$ -
Staff Technician	TBD	0	\$30.50	\$ -
Special Inspector I (Masonry) **	TBD	0	\$58.00	\$ -
Special Inspector II (Welding) **	TBD	0	\$53.75	\$ -
Laborer Technician **	TBD	0	\$38.75	\$ -
Soils/Asphalt Technician **	TBD	0	\$51.25	\$ -
Concrete Technician **	TBD	0	\$47.00	\$ -

318

LABOR COSTS

a) Subtotal Direct L Geotechnical Engineering and Environmental Services \$ 15,815.78
 b) Anticipated Salary Increases (see page 2 for calculation) \$790.80
c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$ 16,606.58

INDIRECT COSTS

d) Fringe Benefits Rate: 72.58% e) Total Fringe Benefits [(c) x (d)] \$ 12,053.06
 f) Overhead Rate: 84.99% g) Overhead [(c) x (f)] \$ 14,113.94
 h) General & Administrative Rate: 20.00% i) Gen & Admin [(c) x (h)] \$ 3,321.32
Combined ICR %: 177.57%
j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$ 29,488.31
FIXED FEE k) TOTAL FIXED FEE [(c) + (j)] x fixed fee 10% \$ 4,609.49

I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs	70	Mile	\$ 0.70	\$ 49.00
Vehicle Charge	1	Day	\$ 25.00	\$ 25.00
ERIS (Record Search)	1	Cost	\$ 750.00	\$ 750.00
				\$ 824.00

m) SUBCONSULTANT'S COSTS (Add additional pages if necessary)

Subconsultant 1: \$ -
 Subconsultant 2: \$ -
m) TOTAL SUBCONSULTANT'S COSTS \$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 824.00
TOTAL COST [(c) + (j) + (k) + (n)] \$ 51,528.38

CALCULATIONS FOR ANTICIPATED SALARY INCREASE

1. Calculate Average Hourly Rate for 1st Year of the Contract (Direct labor subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
<u>\$15,815.78</u>	<u>318</u>		<u>49.74</u>	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$49.74	+	5.0%	=	\$52.22	Year 2 Avg Hourly Rate
Year 2	\$52.22	+	5.0%	=	\$54.83	Year 3 Avg Hourly Rate
Year 3	\$54.83	+	5.0%	=	\$57.57	Year 4 Avg Hourly Rate
Year 4	\$57.57	+	5.0%	=	\$60.45	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	0%	*	318	=	0.00	Est Hours Year 1
Year 2	100%	*	318	=	318.00	Est Hours Year 2
Year 3	0%	*	318	=	0.00	Est Hours Year 3
Year 4	0%	*	318	=	0.00	Est Hours Year 4
Year 5	0%	*	318	=	0.00	Est Hours Year 5
Total	100%		Total	=	318.00	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$49.74	*	0	=	\$0.00	Est Hours Year 1
Year 2	\$52.22	*	318	=	\$16,606.58	Est Hours Year 2
Year 3	\$54.83	*	0	=	\$0.00	Est Hours Year 3
Year 4	\$57.57	*	0	=	\$0.00	Est Hours Year 4
Year 5	\$60.45	*	0	=	\$0.00	Est Hours Year 5
Total Direct Labor Cost with Escalation				=	\$16,606.58	
Direct Labor Subtotal before Escalation				=	\$15,815.78	
Geotechnical Engineering Direct Labor Salary Increase				=	<u>\$790.80</u>	(Transfers to Page 1)

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 years = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board

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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted In direct Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Benjamin D. Crawford Title *: President

Signature :  Date of Certification: 11/19/2025

Email: ben.crawford@crawford-inc.com Phone Number: (916) 455-4225

Address: Crawford & Associates, Inc., 4701 Freeport Blvd., Sacramento, CA 95822

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Geotechnical Engineering and Environmental Services

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: **Fehr & Peers**

Project No. **Manteca SR 120 Main St
Interchange PA ED**

Contract No. _____

Date **1/16/2026**

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal	Francisco Martin	83.17-151.44	105	\$ 92.55	\$ 9,717.75
Senior Associate	David Stanek	65.87-99.04	106	\$ 87.98	\$ 9,325.88
Associate	Ashley Weiss	48.80-81.73	116	\$ 79.33	\$ 9,202.28
Associate	Yoyo Zeng		72	\$ 61.54	\$ 4,430.88
Senior Engineer/Planner	Zoey Li	42.55-64.90	88	\$ 46.63	\$ 4,103.44
Engineer/Planner	Raina Joby	34.86-51.44	200	\$ 43.51	\$ 8,702.00
Engineer/Planner	Yihao Zhang		200	\$ 38.46	\$ 7,692.00
Senior Project Coordinator	Tanya Silchuk	35.58-55.29	112	\$ 37.50	\$ 4,200.00
Project Coordinator		25.96-38.46		\$ 28.85	\$ -
Senior Engineering Technican		38.46-72.12		\$ 60.82	\$ -
Technician		29.81-49.52		\$ 34.62	\$ -
Intern		23.00-36.00		\$ 31.50	\$ -
Senior Project Accountant		37.02-77.88		\$ 43.27	\$ -
					\$ -
					\$ -
					\$ -
					\$ -

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 57,374.23
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 1,434.36
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 58,808.59

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>60.79%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 35,749.74
f) Overhead & G&A (Rate: <u>118.33%</u>)	g) Overhead [(c) x (f)]	\$ 69,588.20
h) General & Admin (Rate: _____)	i) Gen & Admin [(c) x (h)]	\$ -
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 105,337.94

FIXED FEE

k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: 10%	\$ 16,414.65
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I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Peak Hour Intersection Turning Movement Counts	8	count	\$ 600.00	\$ 4,800.00
Mileage for field observations	200	miles	\$ 0.70	\$ 140.00
				\$ -
				\$ -

I) TOTAL OTHER DIRECT COSTS \$ 4,940.00

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1: _____

Subconsultant 2: _____

ATTACHMENT 3

Subconsultant 3: _____

Subconsultant 4: _____

m) TOTAL SUBCONSULTANTS' COSTS	\$	-
n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)]	\$	4,940.00
TOTAL COST [(c) + (j) + (k) + (n)]	\$	185,501.18

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant Fehr & Peers

Manteca SR 120 Main St
 Project No. Interchange PA ED Contract No. _____ Date 1/16/2026

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 57,374.23	999	=	\$ 57.43	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

Year	Avg Hourly Rate	+	Proposed Escalation	=	Year	Avg Hourly Rate
Year 1	\$ 57.43	+	5%	=	Year 2	\$ 60.30
Year 2	\$ 60.30	+	5%	=	Year 3	\$ 63.32
Year 3	\$ 63.32	+	5%	=	Year 4	\$ 66.48
Year 4	\$ 66.48	+	5%	=	Year 5	\$ 69.81

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

Year	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	Estimated Hours
Year 1	50.00%	*	999.0	=	499.5	Estimated Hours Year 1
Year 2	50.00%	*	999.0	=	499.5	Estimated Hours Year 2
Year 3	0.00%	*	999.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	999.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	999.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	999.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

Year	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year	Estimated Hours	
Year 1	\$ 57.43	*	500	=	\$ 28,687.12	Estimated Hours Year 1	
Year 2	\$ 60.30	*	500	=	\$ 30,121.47	Estimated Hours Year 2	
Year 3	\$ 63.32	*	0	=	\$ -	Estimated Hours Year 3	
Year 4	\$ 66.48	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 58,808.59	
Direct Labor Subtotal before Escalation					=	\$ 57,374.23	
Estimated total of Direct Labor Salary Increase					=	\$ 1,434.36	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

ATTACHMENT 3

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Lysa Wollard

Title *: Chief Financial Officer

Signature: 

Date of Certification: 1/16/2026

Email: l.wollard@fehrandpeers.com

Phone number: 925-977-3200

Address: 100 Pringle Ave. Suite 600 Walnut Creek CA 94596

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Traffic forecasts, traffic operations analysis, VMT analysis, safety assessment and cost estimates for traffic design

ATTACHMENT 3

Cost Proposal 1

Cost Plus Fixed Fee or Lump Sum

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: LSA Associates, Inc.

Project No. _____ Contract No. _____

Date 11/21/2025

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal in-Charge	Amanda Durgen		39	\$ 79.56	\$ 3,102.84
Project Manager	T.J. Warner		118	\$ 79.33	\$ 9,360.94
Principal		\$72.10 - \$105.87	54	\$ 88.99	\$ 4,805.46
Associate		\$43.38 - \$89.25	235	\$ 66.32	\$ 15,585.20
Senior Technical Specialist		\$40.62 - \$78.95	124	\$ 59.79	\$ 7,413.96
Technical Specialist		\$34.58 - \$45.36	299	\$ 39.97	\$ 11,951.03
Assistant Technical Specialist		\$26.25 - \$39.83	55	\$ 33.04	\$ 1,817.20
GIS/Graphics		\$36.05 - \$64.90	75	\$ 50.48	\$ 3,786.00
Project Assistant		\$33.39 - \$39.52	18	\$ 36.46	\$ 656.28
Admin/Document Management		\$31.20 - \$52.40	236	\$ 41.80	\$ 9,864.80

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 68,343.71
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 4,712.30
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ 73,056.01

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>119.51%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ 87,309.24
f) Overhead & G&A (Rate: <u>101.45%</u>)	g) Overhead [(c) x (f)]	\$ 74,115.32
h) General & Admin (Rate: <u>0%</u>)	i) Gen & Admin [(c) x (h)]	\$ -
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ 161,424.56

FIXED FEE

k) TOTAL FIXED FEE [(c) + (j)] x fixed fee:	10%	\$ 23,448.06
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l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
Lodging	7	days	\$ 200.00	\$ 1,400.00
Meals	23	each/cost	\$ 25.00	\$ 575.00
Records Search	1	each	\$ 1,000.00	\$ 1,000.00
Reproduction	8	each	\$ 0.75	\$ 6.00
Aerial Drone	1	days	\$ 200.00	\$ 200.00
Mileage	1835	each	\$ 0.70	\$ 1,284.50
GPS Units	3	days	\$ 75.00	\$ 225.00
Flight	3	each	\$ 335.00	\$ 1,005.00
Car Rental	3	each	\$ 200.00	\$ 600.00
Parking	3	each	\$ 60.00	\$ 180.00

l) TOTAL OTHER DIRECT COSTS \$ 6,475.50

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1: none

m) TOTAL SUBCONSULTANTS' COSTS \$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 6,475.50

TOTAL COST [(c) + (j) + (k) + (n)] \$ 264,404.12

NOTES:

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

ATTACHMENT 3

CALCULATIONS FOR ANTICIPATED SALARY INCREASES

Consultant LSA Associates, Inc.

Project No. _____ Contract No. _____

Date 11/21/2025

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal	=	Avg Hourly Rate	5 Year Contract Duration
\$ 68,343.71	1253	=	\$ 54.54	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate	+	Proposed Escalation	=	Avg Hourly Rate	
Year 1	\$ 54.54	+	5%	=	\$ 57.27	Year 2 Avg Hourly Rate
Year 2	\$ 57.27	+	5%	=	\$ 60.13	Year 3 Avg Hourly Rate
Year 3	\$ 60.13	+	5%	=	\$ 63.14	Year 4 Avg Hourly Rate
Year 4	\$ 63.14	+	5%	=	\$ 66.30	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year	*	Total Hours per Cost Proposal	=	Total Hours per Year	
Year 1	2.00%	*	1253.0	=	25.1	Estimated Hours Year 1
Year 2	60.00%	*	1253.0	=	751.8	Estimated Hours Year 2
Year 3	38.00%	*	1253.0	=	476.1	Estimated Hours Year 3
Year 4	0.00%	*	1253.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	1253.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	1253.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$ 54.54	*	25	=	\$ 1,366.87	Estimated Hours Year 1	
Year 2	\$ 57.27	*	752	=	\$ 43,056.54	Estimated Hours Year 2	
Year 3	\$ 60.13	*	476	=	\$ 28,632.60	Estimated Hours Year 3	
Year 4	\$ 63.14	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 73,056.01	
Direct Labor Subtotal before Escalation					=	\$ 68,343.71	
Estimated total of Direct Labor Salary Increase					=	\$ 4,712.30	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

ATTACHMENT 3

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 Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Amy Fischer

Title *: President/Chief Operating Officer

Signature: 

Date of Certification: 11/21/2025

Email: amy.fischer@lsa.net

Phone number: (949) 553-0666

Address: 3210 El Camino Real, Suite 100, Irvine, CA 92602

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Environmental Services for SR 120/Airport Way Interchange and SR 120/Main Street Interchange Projects in the City of Manteca, California

ATTACHMENT 3

Year 1	40.00%	*	77.0	=	30.8	Estimated Hours Year 1
Year 2	30.00%	*	77.0	=	23.1	Estimated Hours Year 2
Year 3	30.00%	*	77.0	=	23.1	Estimated Hours Year 3
Year 4	0.00%	*	77.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	77.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	77.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)	*	Estimated hours (calculated above)	=	Cost per Year		
Year 1	\$ 60.56	*	31	=	\$ 1,865.28	Estimated Hours Year 1	
Year 2	\$ 63.59	*	23	=	\$ 1,468.90	Estimated Hours Year 2	
Year 3	\$ 66.77	*	23	=	\$ 1,542.35	Estimated Hours Year 3	
Year 4	\$ 70.11	*	0	=	\$ -	Estimated Hours Year 4	
Year 5	\$ -	*	0	=	\$ -	Estimated Hours Year 5	
Total Direct Labor Cost with Escalation					=	\$ 4,876.53	
Direct Labor Subtotal before Escalation					=	\$ 4,663.19	
Estimated total of Direct Labor Salary Increase					=	\$ 213.34	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology).
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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 requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Bob Morrison Title *: Vice President

Signature:  Date of Certification: 10/31/25

Email: bmorrison@monumentrow.com Phone number: 916.717.7069

Address: 200 Spectrum Center Suite 300, Irvine CA 92618

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Real Estate and Right of Way Services

Certificate of Liability Insurance