

COUNTY OF TULARE
ENGINEERING SERVICES AGREEMENT FORM
FOR FEDERALLY FUNDED PROJECTS
REVISION APPROVED 02/04/2021

**COUNTY OF TULARE
PROFESSIONAL ENGINEERING CONSULTING SERVICES
FOR THE MOUNTAIN ROAD 43 (M43 - MANTER MEADOW DRIVE)
OVER CAPINERO CREEK BRIDGE PROJECT**

THIS AGREEMENT ("Agreement") is entered into as of July 9, 2024, between the **COUNTY OF TULARE**, a political subdivision of the State of California ("COUNTY"), and **BIGGS CARDOSA ASSOCIATES INC.**, a California corporation ("CONTRACTOR"). COUNTY and CONTRACTOR are each a "Party" and together are the "Parties" to this Agreement, which is made with reference to the following:

- A.** COUNTY has requested proposals for professional engineering services for the **Mountain Road 43 (M43 - Manter Meadow Drive) over Capinero Creek Bridge Project** (the Project) located within Tulare County and approximately 1 mile southeast of the Community of Pine Flat. These consultant services are to include project management, performing field reviews/studies, completing regulatory agency permitting and coordination, preparing CEQA and NEPA documentation, developing biddable construction documents (plans, specifications, and construction cost estimate), providing professional assistance during the bidding process, bid evaluation, and assistance with the selection of a construction contractor, environmental monitoring during construction, and construction support (as needed) during the construction of the project as described per the attached **Exhibit A** ("Scope of Work"), to the satisfaction of the COUNTY, State, Federal Emergency Management Agency (FEMA), and other jurisdictional agencies. CONTRACTOR shall document the results of the work to the satisfaction of the COUNTY, the State and FEMA. This may include preparation of progress and final reports or similar evidence of attainment of the Agreement objectives.
- B.** CONTRACTOR'S response indicates that it possesses the professional qualifications, relevant experience and demonstrated competence to provide such services. If there is any conflict between the CONTRACTOR'S approved Cost Proposal (attached as **Exhibit B**) and this Agreement, this Agreement shall take the precedence.

THE PARTIES AGREE AS FOLLOWS:

- 1. TERM:** This Agreement becomes effective as of July 9, 2024 and expires at 11:59 PM on December 31, 2029 unless earlier terminated as provided below, or unless the Parties extend the term by a written amendment to this Agreement.
- 2. SERVICES:** CONTRACTOR will provide professional engineering services, more particularly described in **Exhibit A**. All work performed and billed to the COUNTY by the CONTRACTOR shall be eligible for federal reimbursement in accordance with the Caltrans Local Assistance Procedures Manual (LAPM) and/or any other applicable FEMA requirements, unless otherwise directed by the COUNTY, in writing.
- 3. PAYMENT FOR SERVICES:** See attached **Exhibit B** ("CONTRACTOR'S Cost Proposal").
- A.** The COUNTY shall reimburse the CONTRACTOR for hours worked at the hourly rates specified in **Exhibit B**. The specified hourly rates shall include direct salary costs, employee benefits, overhead, and fee. These rates are **not** adjustable for the performance period set forth in this Agreement. Note that anticipated salary increases are calculated in advance and factored into the not to exceed lump sum contract cost.

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- B. In addition, the CONTRACTOR will be reimbursed for incurred direct costs other than salary costs that are identified in **Exhibit A** and **Exhibit B**.
- C. No additional compensation will be paid to the CONTRACTOR, unless there is a change in the scope of the work or the scope of the project. In the instance of a change in the scope of the work or the scope of the project, adjustment to the fee will be negotiated between the CONTRACTOR and COUNTY. Adjustment in the fee will not be effective until authorized by a written amendment to this Agreement which has been approved by the COUNTY.
- D. The CONTRACTOR shall not commence performance of work or services until this Agreement has been approved by COUNTY, and a notification to proceed has been issued. No payment will be made for any work performed prior to COUNTY approval of this Agreement.

The CONTRACTOR will be reimbursed, as promptly as fiscal procedures will permit, upon receipt by COUNTY'S Contract Administrator of itemized invoices in duplicate. Invoices shall be submitted no later than 45 calendar days after the performance of work for which CONTRACTOR is billing. Invoices shall detail the work performed on each milestone, as applicable. Invoices shall follow the format stipulated for the Cost Proposal and shall reference this Agreement number and project title. Final invoice must contain the final cost and all credits owed to the COUNTY that include any equipment purchased pursuant to the Exhibits to this Agreement. The final invoice should be submitted within 60 calendar days after completion of CONTRACTOR'S work. Invoices shall be emailed to RMA-AP@tularecounty.ca.gov AND the current County Project Manager. All invoices should identify the current County Project Manager and Board Agreement Number (5-digit number).

- E. The total amount payable by the COUNTY for services identified in Exhibit A and Exhibit B shall not exceed sum of FIVE HUNDRED SEVENTY-TWO THOUSAND EIGHT HUNDRED FIFTY-SEVEN DOLLARS AND NO CENTS (\$572,857.00) for primary services and THREE HUNDRED NINETEEN THOUSAND EIGHT HUNDREDD NINETY-NINE DOLLARS AND NO CENTS (\$319,899.00) for optional services, for a total of EIGHT HUNDRED NINETY-TWO THOUSAND SEVEN HUNDRED FIFTY-FIVE DOLLARS AND NO CENTS (\$892,755.00).
- F. Caution: This project may be partially funded with Federal funds and therefore requires full compliance with Title 2 of the Code of Federal Regulations, § 200.218 through 200.326 AND the County Purchasing Ordinance.

The CONTRACTOR shall not commence performance of optional services until a notification to proceed has been issued. No payment will be made prior to approval or for any optional services performed prior to the COUNTY's issuance of a notice to proceed.

It is mutually understood between the Parties that this Agreement may have been written before ascertaining the availability of funds or appropriation of funds, for the mutual benefit of the Parties, to avoid program and fiscal delays that would occur if the Agreement were executed after that determination was made.

This Agreement is valid and enforceable only if sufficient funds are made available to COUNTY for the purpose of this Agreement. In addition, this Agreement is subject to any additional restrictions, limitations, conditions, or any statute enacted by the Congress, State Legislature, or COUNTY governing board that may affect the provisions, terms, or funding of this Agreement in any manner.

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The COUNTY has received FEMA authorization to initiate the Project and secure a design consultant contract to complete the Preliminary Engineering (PE) phase of the Project. It is mutually agreed by the Parties that if sufficient funds are not appropriated to cover the full balance of anticipated PE funds, work may be temporarily suspended until an appropriation of sufficient funds is received by the COUNTY or this Agreement may be amended to reflect a reduction in funds. COUNTY has the option to void the Agreement under the 30-day termination clause or Parties may mutually agree to amend the Agreement to reflect a reduction in funds.

4. INSURANCE: Before approval of this Agreement by COUNTY, CONTRACTOR must file with the Clerk of the Board of Supervisors, evidence of the required insurance as set forth in the attached **Exhibit C**.

5. GENERAL AGREEMENT TERMS AND CONDITIONS: COUNTY'S "General Agreement Terms and Conditions" are hereby incorporated by reference and made a part of this Agreement as if fully set forth herein. COUNTY'S "General Agreement Terms and Conditions" can be viewed at:

<https://tularecountycounsel.org/main/contract-exhibits/general-terms-and-conditions-contract-template/>

6. ADDITIONAL EXHIBITS: CONTRACTOR shall comply with the terms and conditions of the Exhibits listed below and identified with a checked box, which are by this reference made a part of this Agreement.

<input checked="" type="checkbox"/>	Exhibit A	Scope of Work
<input checked="" type="checkbox"/>	Exhibit B	Contractor's Cost Proposal
<input checked="" type="checkbox"/>	Exhibit C	Professional Services Contracts – Insurance Requirements
<input checked="" type="checkbox"/>	Exhibit D	Additional terms and conditions for federally-funded contracts.

7. NOTICES: (a) Except as may be otherwise required by law, any notice to be given must be written and must be either personally delivered, sent by facsimile transmission or sent by first class mail, postage pre-paid and addressed as follows:

COUNTY:

Tulare County Resource Management Agency
Attention: Karla Arteaga, Contract Administrator
5961 South Mooney Boulevard
Visalia, CA 93277

Phone No.: (559) 624-7000
Fax No.: (559) 615-3005

With a Copy to:

COUNTY ADMINISTRATIVE OFFICER
2800 W. Burrell Ave.
Visalia, CA 93291

Phone No.: (559) 636-5000
Fax No.: (559) 733-6318

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CONTRACTOR:

Biggs Cardosa Associates Inc.
Attention: Mahvash Harms, PE, SE
5250 N. Palm Avenue, Suite 211
Fresno, CA 93704

Phone No.: (559) 449-8686

Fax No.: (559) 449-8580

(b) Notice personally delivered is effective when delivered. Notice sent by facsimile transmission is deemed to be received upon successful transmission. Notice sent by first class mail will be deemed received on the fifth calendar day after the date of mailing. Either Party may change the above address by giving written notice under this section.

8. AUTHORITY: CONTRACTOR represents and warrants to COUNTY that the individual(s) signing this Agreement on its behalf are duly authorized and have legal capacity to sign this Agreement and bind CONTRACTOR to its terms. CONTRACTOR acknowledges that COUNTY has relied upon this representation and warranty in entering into this Agreement.

9. ORDER OF PRECEDENCE: Notwithstanding anything to the contrary in this Agreement, including the COUNTY'S "General Agreement Terms and Conditions" incorporated by reference, and the attached Exhibits, because the services to be provided under this Agreement are at least partially federally-funded, the provisions of the attached **Exhibit D** shall prevail over any inconsistent provisions herein.

10. COUNTERPARTS: The Parties may sign this Agreement in counterparts, each of which is an original and all of which taken together, form one single document.

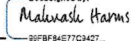
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THE PARTIES, having read and considered the above provisions, indicate their agreement by their authorized signatures below.

Biggs Cardosa Associates Inc.


Date: 06/03/2024

By 

Print Name Mahvash Harms

Title Principal / Vice President

Date: 06/03/2024

By 


Print Name Dan Devlin

Title Principal/Secretary

[Pursuant to Corporations Code section 313, County policy requires that contracts with a **Corporation** be signed by both (1) the chairman of the Board of Directors, the president or any vice-president (or another officer having general, operational responsibilities), and (2) the secretary, any assistant secretary, the chief financial officer, or any assistant treasurer (or another officer having recordkeeping or financial responsibilities), unless the contract is accompanied by a certified copy of a resolution of the corporation's Board of Directors authorizing the execution of the contract. Similarly, pursuant to California Corporations Code section 17703.01, County policy requires that contracts with a **Limited Liability Company** be signed by at least two managers, unless the contract is accompanied by a certified copy of the articles of organization stating that the LLC is managed by only one manager.]


COUNTY OF TULARE

Date: 7/9/2024

By 
Chair, Board of Supervisors

ATTEST: JASON T. BRITT
County Administrative Officer/Clerk of the Board
of Supervisors of the County of Tulare

Date: 7/9/2024

By 
Deputy Clerk



Approved as to Form
County Counsel

Date: 06/03/2024

By Patrick Beck
Deputy

Matter # 2024104

Exhibit A

Scope of Work

Types of Services: Biggs Cardosa Associates (Biggs Cardosa) will provide all the project management and structural engineering services. We have also included subconsultants who can provide the following additional services required to deliver this project in its entirety:

- Civil/Roadway Engineering
- Surveying (**Optional Task**)
- Right Of Way Acquisition Support
- Utility Coordination/Relocation
- Drainage Design
- Bridge Design
- Hydraulics/Hydrology
- Environmental Design/ Permitting
- Geotechnical Engineering

We have reviewed the Scope of Work presented in the RFP and have identified optional and additional tasks that are required to complete the project. In this section, we discuss areas where we feel it is important to elaborate on the proposed Scope of Work or identify special issues and challenges that we foresee to that item of scope.

TASK 1: PROJECT MANAGEMENT

In general, project management will include the supervision and scheduling of project staff, review of work prepared by staff and subconsultants, project coordination, project organization, quality assurance and control, acting as the client liaison, monitoring the project schedule and budget, preparation of project reports and attendance at meetings with the County and other agencies to receive input and discuss and review the project during its critical design periods. More specific responsibilities include:

Task 1.0 – Coordination/Meetings/Administration

Task 1.0.1: Project Development Meetings:

Biggs Cardosa will schedule monthly project development virtual meetings to discuss the status of the project, upcoming efforts, issues, and other relevant information. An agenda and invitation will be sent out two (2) days prior to the meeting, including minutes from the previous meeting. Minutes of each meeting will be distributed to attendees within five (5) workdays of the meeting. At the meeting, we will distribute an **Outstanding Issues list**. Items on the list are discussed at the meeting, new issues are added and assigned, and tasks completed are noted as "closed".

Task 1.0.2: Miscellaneous Coordination Meetings (Agency / Property Owners): Biggs Cardosa will assist the County in conducting additional coordination meetings, as needed, with the adjacent property owners. This task will include preparing exhibits for memos, letters, e-mails, and phone calls necessary to manage the project. This scope assumes a total of one (1) combined meeting with various adjacent property owners.

Task 1.0.3 – Project Schedule

Biggs Cardosa will prepare a Project Master Schedule in Microsoft Project format. The schedule will be updated regularly and discussed at the monthly PDT meetings. The schedule will have all relationships defined and the critical path and activity floats shown.

The Preliminary Project Schedule is included at the end of this section and is based on the anticipated contract execution date that includes all the major design tasks and defined relationships.

Task 1.0.4 – Progress Reports and Invoices

On a monthly basis, we will issue invoices and progress reports to the County detailing major items worked on during the billing period and anticipated work for the following month. We will establish and apply internal accounting methods and procedures acceptable to the County for documenting and monitoring contract costs.

Task 1.1 – Quality Assurance (QA) / Implementation of Quality Control (QC)

Biggs Cardosa has an established Quality Management System (QMS) that contains various Design Quality Control Procedures (DQCPs). Each DQCP deals with one element of design (such as drawings, calculations, quantities, reports, computer programs, etc.), clearly spelling out the procedures that all team members must follow to maintain proper

quality for this project. The QMS is intended to ensure that reports, plans, studies, estimates, etc. are complete, accurate, checked, conform to standards, proofread to meet professional engineering practices, and of a quality acceptable to the client prior to submittal.

At all milestone submittals, our PS&E package will undergo two levels of QC checking:

- A Level 1 Check, which is a detailed line-by-line check of the deliverable. All checker comments are reconciled with the designer.
- A Level 2 Check, which is an inter-disciplinary check, where each discipline lead will review the plans of all other disciplines for conflicts or coordination elements with their plans. A Level 2 Check Meeting is then held for all discipline leads to exchange comments and reach resolution.

Task 1 Deliverables:

- ✓ Meeting agendas and minutes
- ✓ Outstanding Issues List (and updates)
- ✓ Project Master Schedule (and updates)
- ✓ Invoices with progress reports

TASK 2: PROJECT KICK-OFF, FIELD REVIEW, & BACKGROUND INFORMATION

Task 2.1 – Kick-Off Meeting

Biggs Cardosa will schedule a virtual project kick-off meeting, at which we will invite key personnel from the County, as well as other parties that, in concurrence with the County, we feel are important stakeholders in the success of the project. The goal of the kick-off meeting is to introduce staff, discuss project background and scope, establish communication and procedure guidelines, and discuss the project schedule. We will also start preparation of a detailed project description, including project components, purpose and need, environmental study limits (ESL), and timing of construction.

Task 2.2 – Document Review

The Biggs Cardosa design team will review available data, including previous studies, provided by the County. Key information to review will be the available ADT counts, photos, and maintenance history. We will also perform one (1) site visit to document and confirm the existing conditions.

We will run a SWITRS report for accident history and USA North 811 for utility owner information.

Task 2.3 – Utility Coordination (Optional)

We will provide utility coordination services. Due to the federal funding associated with the project, utility coordination services will be conducted in general conformance with Caltrans' Local Assistance and Utility Relocation Manuals. We will follow the Utility A-B-C process:

Utility "A" Letter - A USA list is generated that shows all possible utility companies located within the project limits. A letter is sent to each respective utility company informing them about the project and asking them for as-built mapping and liability claims within the project area.

Utility Kickoff Meeting - Once the 35% design is complete, a utility kickoff meeting is held with the utility companies to discuss project impacts. At the meeting, a preferred approach is recommended to the utility companies and a consensus is reached regarding various items including clear recover zone requirements, overhang easements, and vertical clearance requirements over underground utilities.

Utility "B" Letter - Letter is issued to the utility companies with 60% plans that show utility impacts. The utility companies are instructed to begin relocation plans at this time. Frequent follow-ups with utility companies are required from this point forward.

Utility "C" Letter (Notice to Owner) - Once utility relocation plans are received and approved from the utility companies, the notice to owner letter authorizes the company to relocate their utilities. Right of way acquisition must be cleared for this letter to be issued.

As part of conducting utility mapping, we will determine horizontal location of existing utilities and prepare a list of those utilities which have a potential for physical conflicts with proposed improvements. We have assumed that 5 potholes will

need to be completed (\$2,500/pothole). We will obtain a potholing company to perform non-intrusive vacuum excavation at critical locations to determine the positive location of conflicting utilities.

Task 2 Deliverables:

- ✓ Utility A, B, and C letters for County Signature **(Optional)**
- ✓ Potholing Services **(Optional)**
- ✓ Draft and Final Project Description and ESL Map (PDF)

TASK 3: SURVEYING, MAPPING, & RIGHT-OF-WAY (Optional)

Upon request, the Biggs Cardosa design team will perform a field survey to establish control to facilitate a topographic and boundary survey of the site. Inter-visible local project horizontal control (NAD83) and vertical control (NAVD88) will be established within each segment based on existing and current monument networks and benchmarks. Control point coordinates, basis of bearings and coordinates, and benchmark notes will be provided to show on final plans.

Task 3.1 – Project Survey Control (Optional)

We will perform a control survey to set durable control points within the project limits. We will resolve property boundary and right-of-way locations, including performing necessary research of record maps, documents, and other record drawings of the right-of-way and property boundaries. We will locate any existing monuments within the project area that may be impacted by the project.

Task 3.2 – Obtain County Encroachment Permit and Right of Entry from Adjacent Property Owners (By County)

We will identify those properties where access is required to complete the project base mapping. The County will prepare, coordinate, and obtain Permission to Enter (PTE) to ensure all adjoining property owners have been adequately notified prior to initial site study and field survey.

Task 3.3 – Topographic Surveys (Optional)

The Topographic Survey will be the primary source of topographic data for the project. The survey shall be a strip of roadway approximately 550 feet in length along Manter Meadow Drive beginning at the intersection of Pine Flat Drive. The strip will be approximately 40 feet wide, surveyed to 10 feet beyond each side of the existing street and will widen to 100 feet wide at the proposed bridge location. The areas of topographic survey will include all visible above-ground utility features including but not limited to manholes, vaults, valves, and utility poles including overhead line heights and alignments, trees over 6" Diameter at Breast Height (DBH). A detailed survey of the existing culverts shall include the concrete headwalls, pipe openings, and rock slope protection limits. This task shall also include a hydrographic survey of the existing creek. Including 100' cross sections on both sides of the bridge for up to 500' up and down stream. It is assumed all in-channel surveys will be completed when the river is dry. We will run break lines as appropriate, including elevation spot shots and other relevant features from Topographic Survey.

All data will be compiled in an electronic base map. This will include a Digital Terrain Model and right of way and property lines.

Task 3.4 – Property Surveys and Resolution (Optional)

We will perform a field survey to locate necessary monumentation to establish the Right of Way lines of Manter Meadow Drive, together with property lines and easements within the project limits. Our research indicates that Parcel maps (PM), records of Survey (RS) & Tract maps (TM) shown in publicly available from the Tulare County Surveyors office will be sufficient to complete this survey. It is our understanding that no other monument ties to other maps will be necessary to complete this project other than those publicly available. Should a material discrepancy be found or evidence of a dispute with adjoining be discovered, we will stop work under the current scope and discuss options with the County to move forward. Once the locations of the property lines are established based on the field evidence collected, we will plot this boundary in a CAD file that will serve as the basis for design and acquisitions. It is assumed that boundary evidence necessary to define the boundary will be readily available.

Task 3.5 – Base Map Preparation (Optional)

Based upon information gathered, we will compile an electronic base map in AutoCAD. This will include a Digital Terrain Model. We will run break lines as appropriate; include elevation spot shots and other relevant features from the topographic survey. The electronic base map will conform to the following:

Text style, orientation and size shall be in accordance with County CAD Standards.

Include control points.

Include topographic survey points used to create the planimetric and surface model

Place non-topographic information on separate layers.

Delineate planimetric features (1" = 20' scale).

Boundary, Right of Way and easement lines to be shown on the base mapping

Task 3.6 – Acquisition Staking (Optional)

Upon request, we will set survey "show me stakes" to mark existing boundary locations and acquisition corners (proposed right-of-way take and temporary construction easements) at all affected properties. Stakes will be clearly flagged and marked at intervisible locations for visual aid for property owners and the appraisal team. Corresponding staking plots (including photos) will be provided for all as-staked locations. It is assumed that all property owners will provide access for staking activities and that all show-me stakes will be set during one mobilization.

Task 3.7 – Right-of-Way Acquisition Support

We will draft up to ten (10) legal descriptions accompanied by 8.5"x11" plats for right of way acquisition and up to five (5) temporary construction easements (plat only). Legal descriptions will be based on a boundary survey that will include right of way, property, and easement lines. It is assumed preliminary title reports will be provided by the County to confirm ownership, encumbrances, and easements. The legal descriptions will undergo one technical review by the County before being signed and stamped by a licensed land surveyor.

The following parcel (by Assessor Parcel Number) have been identified for this task:

APN 327-190-034

APN 327-300-005

APN 327-240-005

APN 327-240-046

APN 327-240-048

Task 3 Deliverables:

- ✓ Utility Base Mapping (Optional)
- ✓ Base Map Sheet (Optional)
- ✓ Up to 10 Plat Maps & Legal Descriptions
- ✓ Up to 5 TCE (plat only)

TASK 4: PRELIMINARY ENGINEERING (35% DESIGN)

Task 4.1 – Preliminary Design

The Biggs Cardosa design team will define up to **two (2) bridge alternatives and associated roadway alignments** prior to proceeding with the final design. This phase of work focuses on identifying project challenges, developing and screening improvement alternatives, and defining the project.

Task 4.1.1 – Preliminary Roadway Design

We will prepare two preliminary/quick profiles based on hydraulics constraints to determine the limits of pavement. Based on the profiles, limits of work, and a rough order-of-magnitude, we will work with the County will determine the preferred alternative. We will then prepare a GAD with preliminary plan, profile, and typical section for the preferred alternative only.

Items for the GAD submittal include:

- Geometric Design Criteria
- Roadway Costs & Constructability
- Right of Way Impacts
- Driveway Access
- Utility Impacts
- Environmental Study Limits (ESL)

We will also prepare a rough order-of-magnitude preliminary estimate of the construction costs for the roadway items. Unit construction costs will be determined by reviewing similar recent project bid summaries, the current Caltrans Contract Cost Data book, California Highway Construction Cost Index information, and the Caltrans Engineering Service Center site.

Task 4.1.2 – Preliminary Bridge Design

We will develop up to two (2) structure concepts on the preferred roadway alignment and will discuss the advantages and disadvantages of each alternative.

Bridge Preliminary General Plans: We will prepare preliminary General Plan sheets for each of the structure concepts that include plan, elevation, and typical section.

Bridge General Plan Estimates: We will prepare preliminary Engineer's Estimates for each of the structure concepts which will include the appropriate contingencies (typically 25%) in accordance with Caltrans guidelines. It is important that we get the most accurate cost estimate possible for planning and budgeting purposes at this early stage of design. Therefore, instead of using cost per square foot basis, we will quantify the major bid items and determine the unit costs based on similar recent project bid summaries, the most current Caltrans Contract Cost Data book, the California highway Construction Cost Index information, and the Caltrans Engineering Service Center site.

Task 4.2 – Project Alternatives Memorandum

The Project Alternatives Memorandum will be prepared during the preliminary design phase to document the basis of design and reasoning made to arrive at the preferred alignment and bridge type. Design considerations will include alignment and profile design, anticipated design exceptions, right of way constraints, utility relocation and accommodation, environmental impacts, hydraulic constraints, geotechnical constraints, constructability, construction staging and access, structure cost, and approach roadway costs.

Our experience and expertise provide Biggs Cardosa the ability to review the proposed structure, geometrics, and existing conditions and quickly assess the most cost-effective structure concepts. We will use this experience and expertise to evaluate alternative bridge configurations and alignments to meet the requirements of the project constraints. We will work closely with the County to evaluate what impacts to cost, schedule, constructability, and environmental considerations are created by each of the feasible structure concepts.

The Project Alternatives Memorandum will include the following primary elements:

- Discussion of the pros and cons of each alternative including a comparison table showing primary factors based on preliminary profiles (construction and maintenance costs, permitting constraints, environmental impacts, right-of-way impacts, etc.) that clearly highlights how the preferred alternative was determined.
- List of outstanding issues to be resolved during final design.
- List of outstanding design decisions needed by the County during final design.

Task 4 Deliverables:

- ✓ Preliminary Bridge General Plans and Cost Estimates (PDF)
- ✓ Draft and Final Project Alternatives Memorandum (PDF)

TASK 5: FIELD EXPLORATION, GEOTECHNICAL ENGINEERING, & REPORTING

The proposed geotechnical exploration and sampling are dependent on the preferred alternative that will be determined during the preliminary design phase. The scope assumes that the existing culvert crossing at Manter Meadow Drive will be

replaced with a single-span bridge (bridge substructure width less than 45 feet). The approach roadway improvements at each end of the bridge is anticipated to be less than 200 feet.

Task 5.1 – Research & Data Collection

The Biggs Cardosa design team will review readily available geologic and soil literature in the vicinity of the site including review of any as-built drawings or existing Log of Test Borings (LOTB) sheets. We will evaluate the site for drill rig accessibility as needed.

We will comply with local permit requirements. We will field locate and call for USA clearance a minimum of two business days prior to performing any exploratory excavations on the site

Task 5.2 – Geotechnical Field Exploration

The borings will provide an evaluation of subsurface conditions for the proposed foundations of the structure. The boring locations will depend upon available access and any boring data from previous studies and the proposed foundation location. Caltrans is enforcing the AASHTO recommendations of a soil boring at each bridge support locations where substructure width is less than 100 feet; minimum of two borings are required per location where substructure width is greater than 100 feet. Per this requirement, two 50-foot deep borings (one at each abutment) will be performed. The proposed approximate boring depths will be raised if refusal is encountered. The boreholes will be excavated using a truck-mounted or track-mounted drilling rig. Asphalt concrete cold-patch will be used to replace asphalt that is removed by excavations, and quick-set cement will be used to replace concrete that is removed by excavations.

We will prepare a boring location plan, and this plan will be used to secure the well permits as well as County encroachment permits. Any other permits, if required, will be secured by others.

Our field personnel will classify and continuously log subsurface soil conditions encountered in the test boring at the time of drilling in accordance with Caltrans guidelines. We will collect soil samples for laboratory testing, including bulk samples of near-surface soils and small disturbed and relatively undisturbed ring samples of deeper soils. The small disturbed and relatively undisturbed soil samples will be collected using split-spoon samplers at a vertical interval of about 5 feet, alternating between the Standard Penetration Test (SPT) sampler and the Modified California Drive (MCD) sampler. Samples of subsurface soils will be logged during the field investigation, secured in their containers or collected in plastic bags, and transported to the laboratory. The borings will be drilled and capped in accordance with the permit requirements.

Task 5.3 – Laboratory Testing

Field logs of the boreholes will be reviewed to select representative soil samples for laboratory testing. Various laboratory tests will be performed on soil samples to determine or derive their physical and engineering characteristics. Anticipated laboratory tests include: in-situ density and moisture content, grain size, Atterberg limits, direct shear, UU triaxial, consolidation, R-value, and soil corrosion tests. Laboratory tests will be conducted in general accordance with American Society for Testing and Materials (ASTM) standards or California Test methods.

Task 5.4 –Soils Analyses/Evaluation

Results obtained from the field investigation and laboratory testing will be used to characterize subsurface soils and conditions and create idealized soil profiles for design purpose. The following analyses will be performed for the project:

- Evaluation of seismicity and estimation of Peak Ground Acceleration based on the Caltrans design criteria, and recommendation of an ARS curve for bridge structural design.
- Assessment of soil liquefaction potential, seismic settlement, and lateral spreading.
- Foundation analysis for bridge.
- Assessment of global slope stability.
- Evaluation of soil corrosivity conditions and recommendations for mitigation measures.
- Design of pavement structural section in accordance with the Caltrans method.

Task 5.5 –Foundation Report

We will prepare a Foundation Report (FR) to provide the geotechnical design and construction recommendations for the project, including, but not limited to, the following:

- Scope of work summary, project description and field exploration summary.
- Site plan showing locations of borings taken.
- Site geology and subsurface conditions.
- Summary of laboratory testing program.
- Idealized soil profile and engineering parameters.
- Seismic study in accordance with latest version of Caltrans' Seismic Design Criteria.
- Geologic hazard evaluation (liquefaction, seismic settlement, and lateral spreading).
- Corrosion evaluation.
- Bridge foundation recommendations (axial, lateral, and pile data table)
- Approach embankment material and earthwork recommendations.
- Pavement structural recommendations based on Traffic Indices.
- Construction considerations.
- LOTB sheets.

We will address any comments resulting from the County review and prepare a Final Foundation Report.

Task 5 Deliverables:

- ✓ Draft and Final Foundation Reports with LOTB sheets (PDF)

TASK 6: RIVER HYDROLOGY & HYDRAULICS

Task 6.1 – Obtain & Review Project Documentation (Completed)

In conjunction with the County, Avila and Associates has already completed this task as part of the FEMA approval process.

The Biggs Cardosa design team has reviewed all available background information for the project including inspection reports and as-built plans.

Task 6.2 – Estimate Hydrology (Completed)

In conjunction with the County, Avila & Associates has already completed this task as part of the FEMA approval process. We have identified the appropriate design floods (50-year), base flood (100-year), flood of record (if available), and the overtopping flood. In accordance with Federal and Caltrans standards, these floods have been evaluated using two or more methods.

Hydrology results will be provided in the Preliminary and Final Hydraulic Memos.

Task 6.3 – Hydraulic Analysis

Task 6.3.1 – Survey Request

We will create and submit to the County a survey request of the channel and structure information needed to model the existing bridge and channel.

Task 6.3.2 – Existing Conditions

We will create a 2D HEC-RAS model of the existing conditions based on existing topographic information (LiDAR), creek surveys, and detailed survey or as-built plans of the existing bridge, using HEC-RAS 6.4 or newer.

Task 6.3.3 – Other Jurisdiction

We will investigate if any irrigation districts or water boards have jurisdiction or special requirements along the project waterway. We will confirm our assumption that CVFPB does not have jurisdiction.

Task 6.3.4 – Proposed Alternatives Modeling

We will update the existing conditions 2D model for up to 3 proposed conditions alternatives based on project plans and grading.

Task 6.3.5 – Proposed Final Conditions

We will update the proposed conditions model once more for the final/preferred alternative. Hydraulic results will be provided in the Preliminary and Final Hydraulic Memos.

Task 6.4 – Scour & Bank Protection

Task 6.4.1 – Degradation

We will review Maintenance Reports for the existing bridge and upstream and downstream bridges to assist in degradation analysis.

Task 6.4.2 – Scour and Bank Protection

Local Scour: The Biggs Cardosa design team will complete local scour calculations including pier, contraction, abutment, and pressure flow scour will be estimated for the preferred bridge alternative modeled under Task 3d using the methods described in the Federal Highway Administration (FHWA) Publication HEC-18, Evaluating Scour at Bridges.

Bank Protection: We will complete calculations to determine the need for bank protection. If bank protection is required, parameters will be provided according to FHWA publication HEC-23, Bridge Scour and Stream Instability Countermeasures for rock riprap for the one chosen proposed bridge alternative.

Scour and RSP calculations will be incorporated into the Preliminary and Final Hydraulic Memos.

Task 6.5 – Prepare Hydraulic Memorandum

Draft Preliminary Hydraulic Memo: We will complete a draft Preliminary Hydraulic Memo documenting the hydrology and hydraulic results for the existing conditions and up to two proposed bridge alternatives.

Respond to Comments and Finalize Preliminary Hydraulic Memo: We will incorporate comments and update the Draft Preliminary Memo to a Final Preliminary Hydraulic Memo.

Draft Final Hydraulic Memo: We will complete a draft Final Hydraulic Memo documenting the hydrology, hydraulic, scour, and bank protection results for the existing conditions and preferred proposed bridge alternative.

Respond to Comments and Finalize Final Hydraulic Memo: We will incorporate comments and update the Draft Final Memo to a Final, Final Hydraulic Memo.

Task 6.6 – Low Flow Analysis (Added Task Beyond RFP) (Optional)

We are adding this task because Capinero Creek flows will need to be diverted during construction. It is imperative that we have a good understanding of the anticipated historical flows to assess the need for stream diversion systems and to minimize potential construction delays (and unforeseen construction costs) due to unanticipated creek flows.

Low Flow Analysis: The Biggs Cardosa will perform a duration-frequency analysis for Fay Creek using the U.S. Army Corps of Engineers' HEC-SSP (Statistical Software Package), Version 2.2 or later and streamflow gage data from streamflow gages near the project site.

The duration frequency analysis will be used to calculate monthly flow exceedance levels, by month, for the construction period. The monthly flow exceedance levels for the 0.1%, 1%, 2%, 5%, 10%, 15%, 25%, 50%, 80%, 90%, 95%, and 99% flow levels will be provided, as well as the absolute minimum and maximum flows for each of the months.

Falsework/Diversion Modeling: We will model up to two alternative falsework configurations and diversion strategies, for up to three discharges.

Technical Memorandum: We will complete a Draft Technical Memo describing the additional analysis and including the flow duration curves for each month. Responses to comments on the revised Draft Technical Memo will be prepared and a Final Technical Memo will be submitted.

Task 6 Deliverables:

- ✓ Draft and Final Hydraulic Reports (PDF)
- ✓ Low Flow Analysis Technical Memorandum (PDF) (Added Task Beyond RFP)

TASK 7: ENVIRONMENTAL STUDIES & CONSULTATION WITH REGULATORY AGENCIES

Title 14, Division 6, Chapter 3, Article 18 of the California Code of Regulations describes the Statutory Exemptions (SE) from CEQA. Based on our preliminary understanding and the information provided in the RFP, we anticipate the project will fall under the SE for Emergency Projects (CEQA Section 15269). This category includes "Emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety, or welfare. Emergency repairs include those that require a reasonable amount of planning to address an anticipated emergency." This SE is exempt entirely from the requirements of CEQA.

The project will include Clean Water Act Section 404 permitting, which will require NEPA approvals through the United States Army Corps of Engineers (USACE). Technical studies that may be required for the 404 permitting process have been included as required and optional tasks. The County may use federal funds for the project that would be processed through the FEMA's public assistance program. Therefore, environmental approvals pursuant to NEPA may be required, and FEMA would be the NEPA lead agency. It is anticipated that any technical studies required for NEPA approval would be completed by FEMA. However, in the event that the County is responsible for one or more studies, studies that are anticipated to be needed to support NEPA have been included in the scope of work as optional tasks.

As defined in 40 Code of Federal Regulations (CRF) §1508.4, activities that are categorically excluded and do not need to undergo detailed environmental analysis in an Environmental Assessment or Environmental Impact Statement because the activities have been determined to normally not have the potential, individually or cumulatively, to have a significant effect on the human environment. FEMA has established a list of Categorical Exclusions (CATEX) that fall within this category. Certain CATEXs are denoted with an asterisk and require preparation of a Record of Environmental Consideration (REC). An asterisk denotes classes of actions that have a higher possibility of involving extraordinary circumstances.

Based on our preliminary understanding and the information provided in the RFP, we anticipate the project will be categorically excluded under CATEX "*N9 Federal Assistance for Flood Hazard Reduction Actions." This CATEX covers minor flood control actions as identified in Sections 1366 and 1361 of the National Flood Insurance Act (NFIA), which include "...floodproofing of structures (including public structures) located in areas having special flood hazards or other areas of flood risk..."

The project is not expected to qualify for permitting under Clean Water Act Section 404 and 401 Regional Permit 8 for emergency repairs because the scope of the project is beyond what is allowed under this permit. In addition, the project is not expected to qualify for California Fish and Game Code Section 1610 for emergency because the repair work under this regulation must be conducted within one year of the damage. Therefore, the project is anticipated to be permitted by the USACE, Regional Water Quality Control Board, RWQCB, and California Department of Fish and Wildlife (CDFW) under the standard permitting process.

The Biggs Cardosa design team has extensive experience preparing a variety of environmental documents and regulatory permitting for projects with the County. Our approach is designed for consistent and regular interaction and communication with County staff and other interested/responsible governmental agencies and parties, allowing for frequent exchange of information without loss of time or resources. Working closely with County staff throughout the project will ensure early identification and resolution of critical issues. We anticipate that the tasks outlined in this scope of work will be conducted over the anticipated 18-month period, including 12 months for design and 6 months for construction.

Task 7.1 – Environmental Studies and Consultation with Regulatory Agencies

Task 7.1.1 – Aquatic Resources Delineation (ARD)

Review of Existing Information: We will review background information relevant to the site's aquatic resources. This information will include soils maps, National Wetland Inventory maps, U.S. Geological Survey (USGS) topographic maps, aerial photographs, and any available information regarding site history.

Field Survey and Preparation of Draft Map: We will delineate the site's aquatic resources according to U.S. Army Corps of Engineers (USACE) guidelines, including the 1987 Corps of Engineers Wetlands Delineation Manual, the Western Mountains, Valleys, and Coast Region Supplement, and the current regulatory definition of waters of the U.S. The boundaries of aquatic resources will be mapped using a GPS unit with sub-meter accuracy and plotted on an appropriate base map. Soils, hydrology, and vegetation data will be gathered, and color photographs taken, at selected observation locations. All data will be entered on datasheets modeled after those used by the USACE. All sample points will be identified on the wetland delineation map and keyed to the appropriate datasheets. Aquatic resources shapefiles will be provided for inclusion on the site plans.

Aquatic Resources Delineation Report: We will prepare a technical ARD report to accompany the delineation map. The report will include the following sections: executive summary, introduction, methods, results, mapping, and appropriate appendices. The appendices will include all datasheets and soils information. We will provide a copy of the report for review and comment, following which the document will be finalized and submitted to the USACE for purposes of agency review and verification.

Task 7.1.2 – Biological Resources Evaluation (BRE) Report

Review of Existing Information: We will review all relevant background information. Such information will include the California Natural Diversity Data Base (CNDDB), the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IPaC) System, the California Native Plant Society's Inventory of Rare and Endangered Vascular Plants of California, technical reports dealing with the flora and fauna of the area, National Wetland Inventory maps, and any other planning documents completed for projects within the region that may be relevant to the project site.

Field Survey: We will conduct a field survey for sensitive biotic resources within and adjacent to the project site. This work will be conducted at a level of effort sufficient to verify the information gathered during background research and to identify 1) existing biotic resources of the project site, including land uses and biotic habitats, constituent plants and animals, potential jurisdictional waters, and habitat suitable for special status species; 2) the regulatory constraints associated with the proposed project; and 3) possible planning alternatives that will be expected to minimize any such constraints.

Biological Resources Evaluation Report: A single summary report suitable for CEQA and NEPA review will be prepared that identifies the Biotic habitats of the project site and the flora and fauna associated with each habitat type, presence or absence of sensitive biological resources including wetlands and habitats suitable for special status species, potential project-related impacts to biological resources that will be considered significant, mitigation measures that will reduce the magnitude of significant environmental impacts that could result from planned improvements, and implications of state and federal regulations that could affect the project.

The report will also include an effect determination for each federally listed species identified in the IPaC and CNDDB species lists, for purposes of facilitating compliance with Section 7 of the federal Endangered Species Act. If sensitive biotic resources are absent from the project site, the report will state this. The report will be illustrated with photographs that document project site conditions at the time of the field survey. Accompanying the report will be maps appropriate for identifying the site's location and any significant biological features that may be present within the project site.

Task 7.1.3 – Construction Noise Technical Memorandum (Optional)

If required to support CEQA or NEPA, we will prepare a technical memorandum to address short-term construction-related impacts associated with the proposed project. The memorandum will include a summary description of the existing noise environment, based on existing environmental documentation. Relevant background information, including noise fundamentals, descriptors, and applicable federal, state, and local regulatory framework, will be described.

To assess potential construction noise impacts, nearby land uses and their relative exposure to the proposed project area (considering topographic barriers and distance) will be identified. Predicted construction-generated noise levels will be calculated using the Federal Highway Administration's (FHWA) Roadway Construction Noise Model (version 1.0) based on construction equipment anticipated to be required for the proposed project. Construction-generated noise levels at the nearest land uses will be identified and summarized in tabular format within the report.

Construction-related vibration levels will be quantitatively assessed. Predicted construction vibration levels at the nearest existing structures will be quantified. The significance of construction-generated noise and vibration impacts will be assessed in comparison to applicable standards and recommended significance thresholds. Mitigation measures will be identified for significant and potentially significant impacts. The effectiveness of proposed mitigation measures will be assessed.

Task 7.1.4 – Construction Air Quality Memorandum (Optional)

If required to support CEQA or NEPA, we will prepare a technical memorandum to address short-term construction-related impacts associated with the proposed project. Existing air quality and greenhouse gas (GHG) conditions will be summarized, including applicable regulatory framework. Short-term construction emissions of criteria air pollutants and GHG emissions will be quantified. Construction emissions will be quantified based on project-specific construction information and schedules, to be provided. Localized air quality impacts are anticipated to be minor and will be qualitatively discussed. Measures for the control of construction emissions will be discussed. This discussion will address applicable San Joaquin Valley Air Pollution Control District rules, regulations, and recommended mitigation measures for the control of construction-generated emissions. The effectiveness of proposed mitigation measures will be assessed.

Task 7.1.5 – Historic Property Evaluation Report (Optional)

If required to support CEQA or NEPA, we will prepare an Area of Potential Effects (APE) Map for Section 106 compliance. The APE Map will capture all areas that may be subject to potential direct or indirect effects. We will ensure the APE considers potential effects to both built environment and archaeological resources.

Our qualified architectural historians will prepare a Historic Property Evaluation Report (HPER), following the State Office of Historic Preservation (OHP) "Guidance for Section 106 Consultation Submittals" (April 2020) and/or a template provided by FEMA, if applicable. The HPER will evaluate buildings or structures in the APE that are 45 years and older, and document them on the appropriate inventory forms (DPR 523). If a historic property subject to Section 106 or historical resource subject to CEQA is identified, we will apply the criteria of adverse effect for Section 106 and the threshold for impacts for CEQA. If an adverse effect for Section 106 is identified, a Memorandum of Agreement (MOA) with SHPO is required to resolve the adverse effect. The HPER will be reviewed by FEMA and submitted to OHP to request State Historic Preservation Officer (SHPO) concurrence on findings under Section 106. The HPER would also be used by USACE to satisfy the Section 106 review associated with USACE permits, and by the County to support its findings as the local lead agency under CEQA.

If requested, we will assist FEMA with outreach to potentially interested parties as required by Section 106 by preparing and sending consultation letters. The letters will be prepared on a template provided by FEMA, if applicable. The results of the outreach will be summarized in the HPER. It is assumed that outreach to Native American parties will be conducted by FEMA or the Biggs Cardosa design team.

Task 7.1.6 – Archaeological/Paleontological Report (Optional)

Research: If required to support CEQA or NEPA, we will complete a records search at the Southern San Joaquin Valley Information Center (SSJVIC), located at California State University, Bakersfield. The SSJVIC is the State-designated repository for records concerning known archaeological and historic resources and prior cultural resource studies in Tulare

County. The records search will include up to a 0.5-mile radius around the project area. We will provide data from the SSJVIC related to historic built environment resources. In addition, we will contact the Native American Heritage Commission (NAHC). The NAHC will perform a Sacred Lands file search and provide a list of local Native American groups. Paleontological research will be conducted through the University of California, Museum of Paleontology, located in Berkeley. Finally, limited on-line research will be conducted.

Field Survey: Records search data will inform the necessity to conduct a pedestrian survey of the Project area. If an adequate survey has been conducted in the last 10 years and no cultural resources have been previously identified within or near the project area, then a survey will not be necessary. The purpose of the survey is to identify cultural resources within the project boundaries, characterize the setting of the project, and field check any previously recorded cultural resources discovered by the records search. Photographs will be taken.

Report: Upon completion of these tasks, we will prepare a combined cultural and paleontological resources technical report. The report will include a project description, setting, methods, results, and recommendations.

Task 7.1.7 – Native American Consultation (Optional)

If required to support CEQA or NEPA, we will contact the NAHC for a list of groups to consult with under AB-52 and Section 106, as needed. The County will need to provide their AB-52 consultation list. If a list is not available, we will send letters to the groups listed by the NAHC. We will work with the County and FEMA to distribute notification/consultation letters via U.S. Certified Mail initiating the consultation process under both AB-52 and NHPA. We will send letters on the County and FEMA letterhead. We will make up to two attempts to follow-up with Native American groups (email and/or telephone). We will provide a summary-of-consultation matrix to the County and FEMA.

Task 7.1.8 – Federal Endangered Species Act (Section 7) Consultation (Optional)

According to preliminary database searches, there is potential for several federally-listed threatened and endangered species to be in the project area. The federally endangered fisher (*Pekania pennanti* pop. 2) has been recorded less than two miles from the project area, and the federally endangered foothill yellow legged frog – South Sierra DPS (*Rana boylei* pop. 5) has been recorded less than four miles from the project area. Impacts on these or other federally listed species would require consultation under the Federal Endangered Species Act (FESA). If required, we will prepare the Section 7 Consultation initiation package, including the Biological Assessment (BA), and will coordinate as needed for review and submittal of the BA to FEMA or USACE for their consultation with the USFWS. If requested, we will attend up to three virtual meetings held as part of the consultation process. We will provide ongoing support to the County to streamline the FESA process, including preparation of supplemental information requested by any of the agencies. We will also provide technical assistance to the design engineers and County to refine impact avoidance, minimization, and mitigation measures, as required by resource agencies to reduce project impacts on listed species to the maximum extent feasible.

Task 7.1.9 – NEPA Documentation (Optional)

If requested, we will provide the required project information to support FEMA's Environmental and Historic Resource Compliance review. Information will include, but is not limited to, project maps, construction details, photographs of the project area, information known related to environmental issues or historic preservation concerns, such as threatened and endangered species, floodplains, wetlands, hazardous materials, historic resources, cultural resources, and copies of other environmental permits.

Task 7.1.10 – CEQA Documentation (Optional)

If requested, we will prepare and coordinate with the County for filing of the Notice of Exemption. We will provide the draft form for review, then will provide the final form to the County for filing.

Task 7.2 – Phase 1 Initial Site Assessment (ISA)

We will prepare an ISA to evaluate the project site and adjacent properties for evidence of recognized environmental conditions (REC) and/or potential RECs that may significantly impact the constructability, feasibility, and/or cost of the project. The ISA will be prepared in accordance with the procedures set forth in Caltrans' Standard Environmental

Reference, Chapter 10, and ASTM E1527-21. The ISA will include a records review, physical setting review, historical lands review, site reconnaissance, and interviews.

We will prepare a report documenting the assessment. The report will include, but not necessarily be limited to, a description of the subject property and vicinity; summary of the physical setting, local geologic conditions, and hydrogeologic conditions; summary of the historical record review and historical site usage; findings from the records review; site reconnaissance observations; interview results; photographs of significant items of environmental concern observed during the site reconnaissance (if any); findings, opinions, and conclusions on potential impacts, including a summary of RECs and a discussion of significant data gaps and data failures; and recommendations as warranted by the findings for additional investigation and/or sampling for potentially hazardous materials.

Task 7.3 – Asbestos/ADL/Lead Paint Survey (Optional)

We will contract with National Analytical Laboratories, Inc. (NAL), to have the bridge/crossing structure inspected by a Certified Asbestos Consultant and a Certified Lead Inspector. The NAL report will document if asbestos, asbestos containing building materials, or lead based paint are present. We will also collect soil samples from up to four locations along the approach roadways. These soil samples will be collected near the four locations near the corners of the bridge/crossing structure (if possible). At each of these locations we will attempt to collect soil samples at three discrete depth intervals between ground surface and about 30 inches depth. Samples will be analyzed for total lead and pH, and if concentrations warrant, will be further analyzed for soluble lead (for budgeting purposes we assume 12 soil samples, about 30 percent (four samples) of which will be analyzed for soluble lead, and about 10 percent (two samples) of which will be analyzed for pH. The analytical results of this sampling will be included and discussed in the ISA report. Select samples will also be analyzed for the presence of asbestos. ADL and asbestos analytical results will be summarized in the ISA report. Results will be compared with hazardous waste limits. The NAL inspection report and soil sample analytical results will be included as part of the ISA report.

Task 7.4 – Prepare State and Federal Permit Applications

Task 7.4.1 – Regulatory Permitting

Clean Water Act Section 404: Section 404 of the Clean Water Act regulates and authorizes the USACE to issue permits for the discharge of dredged or fill materials into waters of the U.S. Capinero Creek is a natural waterway and is expected to be considered jurisdictional by the USACE as waters of the U.S. Because the project would require work within the creek, the need for a Section 404 Permit is anticipated. It is expected that the project will fall within the scope of the USACE Nationwide Permit 14 for "Linear Transportation Facilities." A pre-construction notification (PCN) would be required for the project if more than 0.10 acre of permanent impacts on waters of the U.S would result from the project, or if the project would impact wetlands.

Clean Water Act Section 401: The Clean Water Act provides the RWQCB with jurisdiction over waters of the state. The RWQCB typically takes jurisdiction over all surface and groundwaters in the state of California; therefore, Capinero Creek is also considered waters of the state. Section 401 of the Clean Water Act requires applicants acquiring permits from the USACE under Section 404 obtain a Water Quality Certification from the RWQCB for the state in which the discharge originates.

California Fish and Game Code Section 1602: Section 1602 of the Fish and Game Code requires submittal of a Streambed Alteration Notification to the CDFW for any activity that may substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake. Streams are defined by the presence of a channel bed and banks and at least an intermittent flow of water; therefore, Capinero Creek is expected to fall under the jurisdiction of the CDFW. The CDFW reviews the proposed actions and, if necessary, submits to the applicant a proposal for measures to protect affected fish and wildlife resources. The final proposal that is mutually agreed upon by CDFW and the applicant is the Streambed Alteration Agreement.

We will prepare the regulatory permit applications and coordinate as needed for agency approvals. regulatory permit notifications/applications will include a brief description of the project, potential impacts, measures to minimize impacts,

and other pertinent project information, as required by the regulatory agencies. We will coordinate with the County to provide project design information needed to prepare the required application packages for USACE, RWQCB, and CDFW. All permit applications will be submitted via the format required by each respective agency.

Task 7.4.2 – Tree Survey (Optional)

If trees are removed from within CDFW's jurisdiction, a tree survey to confirm the diameter and species of each tree will be necessary. We will complete this survey by identifying each tree within the project area to species, obtaining its diameter measurements, and marking its location with a GPS unit. We will summarize the survey findings in a brief letter report. The report will include a narrative description of survey methods and results, a table of all pertinent tree data, and a map depicting the location, species, and size class of all surveyed trees. The scope and budget for this task assume the survey can be completed in one day.

Task 7.5 – Revegetation Plans and Specifications (Optional)

Revegetation Plan: We will prepare a revegetation plan for CDFW approval. The proposed plan will (1) quantify the anticipated impacts on trees in CDFW's jurisdiction; (2) identify the number, species, and approximate locations of replacement trees and shrubs to be planted; (3) outline the methods to be used; and (4) include a monitoring and maintenance plan to ensure acceptable survival of replacement plantings. The plan will include a planting layout exhibit overlaid on aerial imagery or another suitable base map.

Task 7 Deliverables:

- ✓ (Task 7.1.1) One electronic copy of the Draft and Final ARD
- ✓ (Task 7.1.2) One electronic copy of the Draft and Final BRE
- ✓ (Task 7.1.3) One electronic copy of the Draft and Final Construction Noise Technical Memorandum (Optional)
- ✓ (Task 7.1.4) One electronic copy of the Draft and Final Construction Air Quality Technical Memorandum (Optional)
- ✓ (Task 7.1.5) One electronic copy of the Draft and Final HPER (Optional)
- ✓ (Task 7.1.6) One electronic copy of the Draft and Final Archaeological and Paleontological Report (Optional)
- ✓ (Task 7.1.8) One electronic copy of the Draft and Final Biological Assessment (Optional)
- ✓ (Task 7.1.9) One electronic copy of the Draft and Final FEMA submittal (Optional)
- ✓ (Task 7.1.10) One electronic copy of the Draft and Final Notice of Exemption (Optional)
- ✓ (Tasks 7.2 & 7.3) One electronic copy of the Draft and Final Phase I ISA
- ✓ (Task 7.4.1) One electronic copy of the 404 and 401 notification/application packages, and one electronic copy of the 1602 notification/application package with submittal of the 1602 package through the CDFW EPIMS online database
- ✓ (Task 7.4.2) One electronic copy of the Draft and Final Tree Survey Report (Optional)
- ✓ (Task 7.5) One electronic copy of the Revegetation Plan (Optional)

TASK 8: FINAL DESIGN - PLANS, SPECIFICATIONS, & ESTIMATES (PS&E)

Task 8.1 – 65% PS&E Preparation

Upon approval of the 35% preliminary design and upon receiving CEQA environmental clearance, the Biggs Cardosa design team will advance the project to the 65% level. The 65% design will address the preliminary design review comments and resolve further design issues in the PS&E package. This submittal will include the 65% (unchecked) plans, technical specifications, detailed construction cost estimate, and the Design Exception Request. The focus of the design team is to finalize the reports and supplemental project information which form the basis of design for the project. All project sheets, which will be represented in the bid documents, will be identified and developed in varying degrees of detail during this phase.

Task 8.1.1 – Bridge Design

Layout sheets, elevations, and details will be provided for the bridge. The bridge will be designed in accordance with the Caltrans Standards using Load and Resistance Factor Design (LRFD) criteria and the Caltrans Seismic Design Criteria. Caltrans Standard Plans may be referenced from the bridge plans.

The 65% bridge plan set is anticipated to include the following drawings:

General Plan	1 Sheet
General Notes	1 Sheet
Deck Contours	1 Sheet
Foundation Plan	1 Sheet
Abutment Layouts and Details	4 Sheets
Typical Section	1 Sheet
Girder/Beam Details	2 Sheets
Rock Slope Protection	1 Sheet
➤ <u>Log of Test Borings</u>	<u>1 Sheet</u>
Subtotal Bridge Plans	13 Sheets

Task 8.1.2 – Approach Roadway Design

We will prepare the approach roadway design in general conformance with County Standards, AASHTO "A Policy on Geometric Design of Highways and Streets," AASHTO Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT<400), and the Caltrans Highway Design Manual, Caltrans Standard Specifications and Standard Plans. For the preferred alternative, we will complete one Design Exception Request. It is assumed that for the Design Exception will be to perpetuate any existing features that are not compliant with the CA HDM. Final grading will be developed as well as new/existing roadway conformance details, as required. The 65% roadway plan set is anticipated to include the following drawings:

Typical Sections	1 Sheet
Project Control	1 Sheet
Plan and Profile	1 Sheets
Roadway Construction Details	2 Sheets
Grading Plan	1 Sheet
Drainage	1 Sheet
Utility Plan	1 Sheet
Erosion Control Plan	1 Sheet
Traffic Handling (Detour) Plans	1 Sheet
<u>Sign Plan</u>	<u>1 Sheet</u>
Subtotal Roadway Plans	11 Sheets

Task 8.1.3 – Engineer's Estimate of Probable Construction Cost

Detailed project quantity estimates and cost estimates will be provided for review and approval. The cost estimate will identify construction work items, quantities, and unit costs, and summarize the estimated total project cost, including allowances for supplemental work, owner-furnished materials, expenses, mobilization, and contingencies. The unit costs shall be determined by reviewing similar recent project bid summaries, the County's cost data, the most current Caltrans Contract Cost Data book, the California highway Construction Cost Index information, and the Caltrans Engineering Service Center site.

Task 8.1.4 – Contract Specifications / Special Provisions

Draft technical specifications (Special Provisions) will be completed based on the 2023 Caltrans Standard Special Provisions and Standard Specifications, and County construction contract standards.

Task 8.1 Deliverables:

- ✓ 65% Plans (11x17 PDFs)
- ✓ Draft Technical Special Provisions (Annotated)

- ✓ [65% Engineer's Construction Cost Estimate \(PDF\)](#)
- ✓ [Draft \(Unchecked\) Structural and Quantity Calculations \(PDF\)](#)

Tasks 8.2 – 90% PS&E Preparation

This task includes the preparation of the 90% construction documents and will include addressing the 65% Submittal Review Comments, preparing the 90% PS&E, and submitting 90% PS&E.

Tasks 8.2.1 –Independent Check

Bridge Design: During the 90% submittal, we will perform an independent check (red, green, and yellow) of the structural plans, calculations, and quantity calculations. We will perform detailed take-offs of rebar quantities including an independent check (red, green, and yellow) of these quantities. We will also perform an independent check of the specifications.

Roadway Design: As part of the QA/QC process, we will have independent engineer reviews the 65% Roadway PS&E. Issues raised by the checker will be discussed with and resolved by the designer and checker. The final design will reflect agreement between the two engineers.

Task 8.2.2 – Response to County Comments

The Biggs Cardosa design team will respond to the County review comments on the 65% submittal and incorporate the necessary changes in the 90% PS&E submittal.

Task 8.2.3 – Update Bridge and Roadway PS&E

We will combine technical special provisions with County's "boilerplate" to create the final specification document.

In the 90% PS&E stage, we will address any remaining review comments and finalize any outstanding design issues in the PS&E package. We will prepare the final plans, technical specifications, and construction cost estimate. All design activities will be completed. The PS&E package will be prepared for a final County review.

Task 8.2 Deliverables:

- ✓ [90% Checked Plans \(11x17 PDFs\)](#)
- ✓ [90% Independently Checked Specifications \(Technical Special Provisions combined with the County's "boilerplate"\)](#)
- ✓ [90% Engineer's Construction Cost Estimate \(PDF\)](#)
- ✓ [Structural Calculations and Quantity Calculations \(PDF\)](#)
- ✓ [Comment Response Matrix \(PDF\)](#)
- ✓ [Final Foundation Report \(Task 5.5\) \(PDF\)](#)
- ✓ [Final Hydraulics Report \(Task 6.5\) \(PDF\)](#)

Task 8.3 – 100% PS&E Preparation

This task includes the preparation of the 100% construction documents and will include addressing the 90% Submittal Review Comments, preparing the 100% PS&E, and submitting 100% PS&E.

Task 8.3.1 – Response to County Comments

The Biggs Cardosa design team will respond to the County review comments on the 90% submittal and incorporate the necessary changes in the 100% PS&E submittal.

Task 8.3 Deliverables:

- ✓ [100% Checked Plans \(11x17 PDFs\)](#)
- ✓ [100% Specifications \(Technical Special Provisions combined with boilerplates\)](#)
- ✓ [100% Engineer's Construction Cost Estimate \(PDF\)](#)
- ✓ [100% Structural Calculations and Quantity Calculations \(PDF\)](#)
- ✓ [Updated Comment Response Matrix \(PDF\)](#)

Task 8.4 – Final PS&E

In the Final PS&E stage, we will prepare the Final PS&E with signed technical specifications, plans and the final engineers estimate. We have assumed that the County will not have comments on the 100% PS&E submittal. We will also prepare the 4-scale bridge plans.

The Biggs Cardosa design team will prepare a Resident Engineer's Pending File with all design information pertinent to assist the County's construction management personnel. The file will contain the project quantities, estimate, notes about any unique issues the Resident Engineer should be aware of, bridge joint setting calculations, staking notes, survey file including control diagrams to establish field control, location and description of existing control monuments, utility agreements, permits, right of way contracts, 4-scale for setting bridge deck grades, foundation report for the bridge, and typical cross-sections for the Project.

Task 8.4 Deliverables:

- ✓ One (1) electronic copy of final signed plans (in pdf format and AutoCAD format)
- ✓ One (1) electronic copy of the final specifications (in Word and pdf formats)
- ✓ One (1) electronic copy of the final Engineer's Construction Cost Estimate (in Excel and pdf formats)
- ✓ Final Structural Calculations and Quantity Calculations (PDF)
- ✓ RE Pending File (PDF)
- ✓ 4-Scale Bridge Deck Contour Plans

TASK 9: ASSISTANCE DURING BIDDING (Optional)

Task 9 – Bidding Support (Optional)

The Biggs Cardosa design team will provide support to the County during construction bidding. The County will administer and coordinate the bidding procedures for the project. The County will advertise the project for bidding and distribute the plans to prospective bidders. The County's project manager will be the designated person to receive contractor inquiries. We will assist the County as requested during the bidding. The work may include responding to contractor bid inquiries, providing consultation and interpretation of the construction documents, and assisting the County in the preparation of addenda to the PS&E during the advertisement period. Attending pre-bid meetings, or bid opening and analysis of bids will also be provided, as requested. We have budgeted the bidding support effort to respond to 4 inquiries and the preparation of 2 addenda.

TASK 10: ENVIRONMENTAL MONITORING AND DESIGN SUPPORT DURING CONSTRUCTION (Optional)

Task 10 – Environmental Monitoring and Construction Support (Optional)

We will assist the County during construction by providing environmental monitoring and construction support, as requested. It is assumed that the County will hire/provide a Resident Engineer/Construction Manager to provide construction inspection services, and to act as a liaison to the County regarding construction related matters. The Biggs Cardosa design team has included a fee for this task, however, the level of work effort will depend on the contractor and Resident Engineer for the project. Work performed beyond the budget for this task will be performed on a time and materials basis. A brief discussion of the anticipated scope of work is included below.

Construction Support: The construction support tasks include:

- Attend the preconstruction meeting and on construction progress meeting, as required.
- Review up to five (5) contractor RFI's (Request for Information) and provide written responses.
- Review falsework and/or shop drawings.
- Answer clarification questions pertaining to the plans and special provisions, if needed.
- Prepare Contract Change Orders, if needed.
- Prepare as-built record drawings once the construction is complete. As-built record drawings shall reflect change orders, accommodations, and adjustments to all improvements constructed. The basis of the revisions shown on the record plans will be a red mark construction set of plans provided by the project Resident Engineer.

Pre-Construction Biological Surveys: We will conduct preconstruction surveys for special-status species and other protected biological resources. Two days have been allotted for this effort. The surveys would employ methods tailored to the target species. During the survey, any target species or resources that are discovered will be marked with GPS and, if appropriate, flagged in the field. Following survey completion, we will prepare a letter report that summarizes the survey

methods and results. The report will include representative photos of the project area and one or more figures identifying the locations of target species and resources, if applicable.

Pre-Construction Plant Surveys: If the project area contains suitable habitat for special status plant species, we will conduct focused surveys for those plants in the spring prior to the start of construction. The survey will be completed once it has been confirmed that the target species is in bloom. The surveys will be conducted in accordance with Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFW 2018). The surveys will entail walking transects appropriately spaced throughout the project site to ensure full visual coverage of the site. The primary objectives will be to identify, map, and develop population estimates for any populations of special-status plants that may be present, as required by the survey protocol. We will prepare a brief letter report, summarizing the methods and results. The report will include representative photos of the site and a map of any special status plant species identified on site. The scope includes two surveys to cover two separate blooming periods, in the event that habitat for more than one special status plant species is present.

Personnel Environmental Education: We will develop an environmental awareness training program for construction personnel, designed to help workers recognize and protect special status species and sensitive habitats. The training will include a fact-sheet handout and sign-in sheet for attendees. We will conduct one training session on the job site or elsewhere in Tulare County. We will provide a copy of the training materials.

Environmentally Sensitive Area Establishment: The project's MMRP and/or natural resources permits are likely to require that any special status species populations or use areas, active bird nests, or other sensitive biological resources be protected during construction with the establishment of environmentally sensitive area(s) (ESA). We will identify and establish ESAs if needed. All ESA boundaries will be marked with brightly colored flagging and digitally mapped.

Construction Monitoring: If needed, we will be available to monitor various construction activities for the protection of sensitive biological resources, as may be required by the project's MMRP and/or natural resources permits. Such activities could include tree and vegetation trimming and removal, installation of ESA fencing, revegetation efforts, and general construction activities.

Permitting Agency Coordination and Post Construction Closeout: We will conduct notifications and submittals to the regulatory agencies prior to, during, and post-construction. Pre-construction submittals are anticipated to include a Commencement of Construction Report to the RWQCB at least seven days prior to the start of initial ground disturbance activities. Post-construction submittals are anticipated to include a USACE Notice of Completion Report, RWQCB Request for Notice of Completion Discharges Letter, and RWQCB Request for Notice of Project Complete Letter. We estimate up to five submittals may be required.

Task 10 Deliverables (Optional):

- ✓ RFI responses
- ✓ Contract Change Orders, if needed
- ✓ As-Built Record Drawings
- ✓ One electronic copy of the Draft and Final Pre-Construction Survey Report
- ✓ One electronic copy of the Draft and Final Pre-Construction Plant Survey Report
- ✓ One electronic copy and up to 25 hard copies of the fact sheet handout and sign in sheet
- ✓ One electronic copy of up to 11 Monitoring Reports
- ✓ One electronic copy of the Draft and Final Post-construction Closeout Reports

ASSUMPTIONS

The following assumptions were made in generating this scope of work:

1. All drafting will be done in AutoCAD. Periodic electronic submittals, if required, will be in AutoCAD and PDF format.
2. The County CAD Standards Manual will be provided at the inception of the project. In addition, the County will also provide CAD templates, CAD blocks, borders, and plot styles.
3. All reports will be submitted as draft and final. One round of reviews of the draft reports is assumed.
4. The Project Alternatives Memorandum will be reviewed and approved by the County. Caltrans will not review the memorandum.
5. The County will provide topographic information, right-of-way data, and planimetric files prior to the start of 35% design.
6. The County and any other commenting entity will provide full comments at each submittal. Caltrans will not perform technical reviews of the PS&E submittal packages.
7. Technical specifications will be developed per the latest Caltrans standards during the 65% PS&E phase. The scope excludes any updates to the technical specifications to meet new standards released by Caltrans during the life of the project.
8. We have excluded the cost of any fees or permits and have assumed that they will be paid by the County, with the exception of the well permit as noted in the geotechnical assumptions
9. We have assumed a total of twelve (12) monthly PDT virtual meetings and up to four (4) focus meetings during the anticipated 12 months design duration.
10. All FEMA coordination/approvals will be performed and/or obtained by the County.
11. Staged construction will not be required for the project. The County anticipates the continued operation/use of the temporary access along West Oakwood Drive.
12. We have assumed that no street/bridge lighting will be required for the project.
13. The County will perform all public outreach efforts and coordination with adjacent property owners.
14. It is assumed that meetings with the property owners will occur in one day, and additional discussions will not be necessary.
15. A Record of Survey is not included as part of this scope. If one is needed we will inform the client right away to prepare a scope and fee.
16. Monument preservation is excluded from this scope. We will inform the County right away to prepare a scope and fee if monument preservation is needed.
17. Survey to topo the potholes has been included. It is assumed that there is one mobilization for this effort.
18. If required, utility design and/or relocation will be performed by the utility companies.
19. The County will respond to all roadway/utilities RFIs (Request for Information) during construction.

Hydrology / Hydraulics

20. The County will provide updated photos and all previously prepared preliminary hydrology and hydraulics prepared for FEMA approval of the bridge replacement project.
21. Topographic information will be provided by the County and will include details of the creek bottom through the project reach.
22. Finish grade surfaces of the roadway approaches for all alignments will be provided by the County in either AutoCAD dwg or xml format.
23. Historical bridge cross sections are available in the bridge inspection reports for the bridge (and adjacent bridge) and are sufficient for the degradation analysis.
24. Degradation estimates will be straight-line extrapolation using best available data.
25. No numeric sediment transport models will be completed.

26. Bank protection will be rock riprap.
27. No insurable structures will be adversely impacted by the structure replacement.
28. It is assumed that the structure replacement will not cause a significant encroachment into the floodplain or a change in the water surface elevation. If a significant encroachment into the floodplain or change in water surface elevation is found, a separate task order will be necessary.
29. Survey information for adjacent buildings will be provided by the County to determine the potential impact of the bridge replacement on the adjacent insurable structures, if applicable.
30. The draft Preliminary Hydraulic Memo will be provided following the completion of the existing conditions modeling and proposed alternatives hydraulic modeling.
31. The Final Preliminary Hydraulic Memo will be provided once the preferred alternative has been chosen and will include the scour calculations for the preferred proposed alternative.
32. Location Hydraulic Study/Summary Floodplain Encroachment Report is not required for this project.
33. Central Valley Flood Protection Board (CVFPB) coordination/regulation is not required for this project.
34. Federal Emergency Management Agency (FEMA) coordination is not required for this project.
35. No Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR) or formal No-Rise certification is included in this scope of work.
36. Diversion strategies will rely on gravity flow and will not include pump systems.

Geotechnical

37. Geotechnical investigation is allowed between 7 AM and 7 PM on weekdays.
38. No investigation of hazardous materials. If hazardous materials are encountered during the geotechnical field investigation, we will terminate our work and notify the County.
39. The boring depths for the proposed replacement are based on the assumption that small diameter piles (24-inch or less) will be used at the abutments.
40. No permit fee was assumed for encroachment permits. \$500 was allocated for well permit fee.
41. No recommendations for retaining walls, sound walls, overhead signs, and soil infiltration rates.
42. No site-specific ground motion analyses.
43. No pavement rehabilitation recommendations.

Environmental (Required Tasks)

44. Necessary access will be provided to allow surveys to be conducted within the study area at the appropriate time of year at no cost.
45. The County will be responsible for providing all fees associated with regulatory permits and other regulatory agency obligatory compensatory mitigation.
46. Any meetings with regulatory agencies to support issuances of the regulatory permits are expected to be via teleconference and a site visit will not be necessary.
47. *Up to one round of comments from the County would be received for each report.*
48. *Up to one request for additional information would be received from each regulatory agency to obtain regulatory permits.*
49. The mitigation plan included in the regulatory permit application is limited to initial identification of proposed mitigation options. If additional coordination is needed, an additional scope of work and budget will be provided. Credit coordination beyond the initial identification of required credits is not included in this scope of work.
50. The project area is not within CVFPB jurisdiction, and no CVFPB permits would be required.

51. Focused/protocol wildlife surveys to determine presence/absence of federally or state threatened and endangered species are not included in this scope of work.
52. Geotechnical borings will be performed along the existing roadway and will not require access into the creek. Therefore, regulatory permitting will not be required to conduct the borings.
53. The project will not result in "take" of state-listed species, as defined by the CESA, and an incidental Take Permit from CDFW will not be required.

Environmental (Optional Tasks)

54. Field monitoring of meteorology and pollutant emissions is not anticipated to be required for this project.
55. Evaluation of long-term traffic noise impacts is not anticipated to be required for this project and is not included in this scope of work.
56. The preparation of air quality dispersion modeling and health risk assessments are not anticipated to be required.
57. Evaluation of long-term air quality impacts is not anticipated to be required for this project and is not included in this scope of work.
58. Based on preliminary research of the properties that may be subject to TCE or ROW acquisition, no more than two built environment resources in the APE would require evaluation.
59. The finding for the undertaking will be "no historic properties affected" or "no adverse effect" and an MOA will not be required.
60. The identification of cultural resources within the project boundaries is not anticipated. If resources are discovered additional tasks and costs, not included herein, will be necessary.
61. We will support the County and FEMA's efforts. However, the consultation required under AB-52 and NHPA is between Tribes and the government agencies. We will be available for limited consultation with the County/FEMA, if requested. However, if any meetings or extended consultation are necessary with Native Americans, we will advise the County and submit an additional scope of work.
62. The County will be responsible for providing all fees associated with CEQA document filing fees (e.g., Fish and Game and County Clerk filing fees), any Incidental Take Permit applications and any CDFW, USFWS, or other regulatory agency obligatory compensatory mitigation.
63. The revegetation plan will be sufficient to support the regulatory permitting, and a Habitat Mitigation and Monitoring Plan will not be required.
64. The Contractor will be responsible for installing any revegetation efforts, including grading, irrigation, and planting, and only oversight and monitoring will be required.
65. One day of surveys with one biologist will be sufficient to complete the tree survey.
66. The County will make all logistical arrangements related to the revegetation site(s), including obtaining landowner permissions as appropriate.
67. Landscape plans will not be required as part of the Revegetation Plan.
68. Construction is anticipated to last a maximum of six months and will require only one construction season year, with active construction in the creek limited to six months per year (April-October).
69. It is assumed that the County or its contractor will conduct any additional environmental training sessions that are needed.
70. Construction activities will be continuous, and preconstruction surveys will not need to be repeated due to delays in construction.
71. Up to two special status plant surveys with one biologist and two trips to the site would be sufficient for pre-construction surveys.
72. Up to five ESA areas will be established in one site visit with one biologist.

- 73. Any high visibility fencing required to delineate ESAs would be installed by the contractor with oversight by one biologist.
- 74. Up to 10 days of construction monitoring for eight hours per day will be conducted by one biologist.
- 75. Any water quality testing/monitoring and Water Quality Certification reporting will be completed by the County.
- 76. Bird and Bat exclusion plans are not included as part of this scope of work.
- 77. A fish relocation plan and fish relocation are not included in this scope of work.

Exhibit B
Contractor's Cost Proposal

Summary by Consultant
M43 (Manter Meadow Drive) over Capinero Creek

Consultant	Total Fee (Base Services)	% Fee (Base Services)	Optional Services Fee	Grand Total Fee (All Services)	% Fee (All Services)
Biggs Cardoso Associates, Inc. (DGS SB-PW)	\$280,220	48.92%	\$49,820	\$330,041	36.97%
Mark Thomas Co.	\$159,231	27.80%	\$120,333	\$279,564	31.31%
GPA Consulting (DBE, WBE, SBE)	\$64,291	11.22%	\$138,169	\$202,460	22.68%
Avila & Associates (WBE, SB-Micro)	\$28,807	5.03%	\$8,663	\$37,470	4.20%
Earth Mechanics, Inc. (DBE, SBE)	\$40,307	7.04%	\$2,913	\$43,220	4.84%
TOTAL	\$572,857		\$319,899	\$892,755	
TOTAL DBE %		18.3%			27.5%
TOTAL DBE+ (SBE-PW)+WBE		72.2%			68.7%



Bligh Cardosa Associates, Inc. (QCEC SEP 19th)										Mark Thomas Co.										
Task	W Weeks	Q Weeks	Q Weeks	Q Weeks	Q Weeks	Q Weeks	Q Weeks	Q Weeks	Q Weeks	Principal	5th Vice President	6th Vice President	7th Vice President	8th Vice President	9th Vice President	10th Vice President	11th Vice President	12th Vice President	13th Vice President	14th Vice President
Task 1.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.39	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.42	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.44	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.46	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.47	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.48	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.49	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.51	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Task 1.52	1	1	1	1	1	1	1	1	1	1	1	1	1							

Note: Mark-ups are Not Allowed

Consultant: Biggs Cardosa Associates



Prime Consultant



Subconsultant



2nd Tier Subconsultant

Project: Tulare Co. M43 (Manter Meadow Drive) over Capinero Creek Bridge Project

Contract No. _____

Participation Amount \$ _____

892,755

Date: 5/17/2024

For Combined Rate

Fringe Benefit 53.89% + General & Administrative 105.01%

=

Combined 158.90%

For Home Office Rate

Fringe Benefit ____% + General & Administrative ____%

=

Home Office ____%

For Field Office Rate

Fringe Benefit ____% + General & Administrative ____%

=

Field Office ____%

Fee

=

10%

BILLING INFORMATION

CALCULATION INFORMATION

Name/Classification	Loaded Hourly Billing Rates		Effective Date of Hourly Rate		% Escalation Increase	Actual Hourly Rate and/or Average Hourly Rate	Hourly Range for Class
	Straight	Overtime	From	To			
Principal	\$ 384.47	N/A	10/1/2023	9/30/2024		\$ 135.00	\$ 105.00 to \$ 135.00
	\$ 403.69	N/A	10/1/2024	9/30/2025	5.00%	\$ 141.75	\$ 110.25 - \$ 141.75
	\$ 423.87	N/A	10/1/2025	9/30/2026	5.00%	\$ 148.84	\$ 115.76 - \$ 148.84
	\$ 445.07	N/A	10/1/2026	9/30/2027	5.00%	\$ 156.28	\$ 121.55 - \$ 156.28
	\$ 467.32	N/A	10/1/2027	9/30/2028	5.00%	\$ 164.09	\$ 127.63 - \$ 164.09
Associate	\$ 284.79	N/A	10/1/2023	9/30/2024		\$ 100.00	\$ 89.00 to \$ 105.00
	\$ 299.03	N/A	10/1/2024	9/30/2025	5.00%	\$ 105.00	\$ 93.45 - \$ 110.25
	\$ 313.98	N/A	10/1/2025	9/30/2026	5.00%	\$ 110.25	\$ 98.12 - \$ 115.76
	\$ 329.68	N/A	10/1/2026	9/30/2027	5.00%	\$ 115.76	\$ 103.03 - \$ 121.55
	\$ 346.16	N/A	10/1/2027	9/30/2028	5.00%	\$ 121.55	\$ 108.18 - \$ 127.63
Engineering Manager	\$ 239.22	N/A	10/1/2023	9/30/2024		\$ 84.00	\$ 79.00 to \$ 89.00
	\$ 251.18	N/A	10/1/2024	9/30/2025	5.00%	\$ 88.20	\$ 82.95 - \$ 93.45
	\$ 263.74	N/A	10/1/2025	9/30/2026	5.00%	\$ 92.61	\$ 87.10 - \$ 98.12
	\$ 276.93	N/A	10/1/2026	9/30/2027	5.00%	\$ 97.24	\$ 91.45 - \$ 103.03
	\$ 290.78	N/A	10/1/2027	9/30/2028	5.00%	\$ 102.10	\$ 96.02 - \$ 108.18
Senior Engineer	\$ 213.59	N/A	10/1/2023	9/30/2024		\$ 75.00	\$ 72.00 to \$ 79.00
	\$ 224.27	N/A	10/1/2024	9/30/2025	5.00%	\$ 78.75	\$ 75.60 - \$ 82.95
	\$ 235.49	N/A	10/1/2025	9/30/2026	5.00%	\$ 82.69	\$ 79.38 - \$ 87.10
	\$ 247.26	N/A	10/1/2026	9/30/2027	5.00%	\$ 86.82	\$ 83.35 - \$ 91.45
	\$ 259.62	N/A	10/1/2027	9/30/2028	5.00%	\$ 91.16	\$ 87.52 - \$ 96.02
Project Engineer	\$ 187.96	N/A	10/1/2023	9/30/2024		\$ 66.00	\$ 61.00 to \$ 72.00
	\$ 197.36	N/A	10/1/2024	9/30/2025	5.00%	\$ 69.30	\$ 64.05 - \$ 75.60
	\$ 207.21	N/A	10/1/2025	9/30/2026	5.00%	\$ 72.77	\$ 67.25 - \$ 79.38
	\$ 217.59	N/A	10/1/2026	9/30/2027	5.00%	\$ 76.40	\$ 70.62 - \$ 83.35
	\$ 228.47	N/A	10/1/2027	9/30/2028	5.00%	\$ 80.22	\$ 74.15 - \$ 87.52
Staff Engineer	\$ 165.18	N/A	10/1/2023	9/30/2024		\$ 58.00	\$ 55.00 to \$ 61.00
	\$ 173.44	N/A	10/1/2024	9/30/2025	5.00%	\$ 60.90	\$ 57.75 - \$ 64.05
	\$ 182.11	N/A	10/1/2025	9/30/2026	5.00%	\$ 63.95	\$ 60.64 - \$ 67.25
	\$ 191.21	N/A	10/1/2026	9/30/2027	5.00%	\$ 67.14	\$ 63.67 - \$ 70.62
	\$ 200.78	N/A	10/1/2027	9/30/2028	5.00%	\$ 70.50	\$ 66.85 - \$ 74.15
Assistant Engineer	\$ 150.94	N/A	10/1/2023	9/30/2024		\$ 53.00	\$ 50.00 to \$ 55.00
	\$ 158.49	N/A	10/1/2024	9/30/2025	5.00%	\$ 55.65	\$ 52.50 - \$ 57.75
	\$ 166.41	N/A	10/1/2025	9/30/2026	5.00%	\$ 58.43	\$ 55.13 - \$ 60.64
	\$ 174.73	N/A	10/1/2026	9/30/2027	5.00%	\$ 61.35	\$ 57.88 - \$ 63.67
	\$ 183.47	N/A	10/1/2027	9/30/2028	5.00%	\$ 64.42	\$ 60.78 - \$ 66.85
Jr. Engineer	\$ 133.85	N/A	10/1/2023	9/30/2024		\$ 47.00	\$ 42.00 to \$ 50.00
	\$ 140.54	N/A	10/1/2024	9/30/2025	5.00%	\$ 49.35	\$ 44.10 - \$ 52.50
	\$ 147.57	N/A	10/1/2025	9/30/2026	5.00%	\$ 51.82	\$ 46.31 - \$ 55.13
	\$ 154.95	N/A	10/1/2026	9/30/2027	5.00%	\$ 54.41	\$ 48.62 - \$ 57.88
	\$ 162.70	N/A	10/1/2027	9/30/2028	5.00%	\$ 57.13	\$ 51.05 - \$ 60.78
Senior Computer Drafter	\$ 173.72	N/A	10/1/2023	9/30/2024		\$ 61.00	\$ 52.00 to \$ 65.00
	\$ 182.41	N/A	10/1/2024	9/30/2025	5.00%	\$ 64.05	\$ 54.60 - \$ 68.25
	\$ 191.53	N/A	10/1/2025	9/30/2026	5.00%	\$ 67.25	\$ 57.33 - \$ 71.66
	\$ 201.10	N/A	10/1/2026	9/30/2027	5.00%	\$ 70.62	\$ 60.20 - \$ 75.25
	\$ 211.16	N/A	10/1/2027	9/30/2028	5.00%	\$ 74.15	\$ 63.21 - \$ 79.01
Computer Drafter	\$ 142.40	N/A	10/1/2023	9/30/2024		\$ 50.00	\$ 48.00 to \$ 52.00
	\$ 149.51	N/A	10/1/2024	9/30/2025	5.00%	\$ 52.50	\$ 50.40 - \$ 54.60
	\$ 156.99	N/A	10/1/2025	9/30/2026	5.00%	\$ 55.13	\$ 52.92 - \$ 57.33
	\$ 164.84	N/A	10/1/2026	9/30/2027	5.00%	\$ 57.88	\$ 55.57 - \$ 60.20
	\$ 173.08	N/A	10/1/2027	9/30/2028	5.00%	\$ 60.78	\$ 58.34 - \$ 63.21
Bridge Architecture	\$ 210.74	N/A	10/1/2023	9/30/2024		\$ 74.00	\$ 70.00 to \$ 75.00
	\$ 221.28	N/A	10/1/2024	9/30/2025	5.00%	\$ 77.70	\$ 73.50 - \$ 78.75
	\$ 232.35	N/A	10/1/2025	9/30/2026	5.00%	\$ 81.59	\$ 77.18 - \$ 82.69
	\$ 243.96	N/A	10/1/2026	9/30/2027	5.00%	\$ 85.66	\$ 81.03 - \$ 86.82
	\$ 256.16	N/A	10/1/2027	9/30/2028	5.00%	\$ 89.95	\$ 85.09 - \$ 91.16
BIM/ Visualization Specialist	\$ 131.00	N/A	10/1/2023	9/30/2024		\$ 46.00	\$ 42.00 - \$ 55.00
	\$ 137.55	N/A	10/1/2024	9/30/2025	5.00%	\$ 48.30	\$ 44.10 - \$ 57.75
	\$ 144.43	N/A	10/1/2025	9/30/2026	5.00%	\$ 50.72	\$ 46.31 - \$ 60.64
	\$ 151.65	N/A	10/1/2026	9/30/2027	5.00%	\$ 53.25	\$ 48.62 - \$ 63.67
	\$ 159.24	N/A	10/1/2027	9/30/2028	5.00%	\$ 55.91	\$ 51.05 - \$ 66.85
Administration/ Coordinator	\$ 156.63	N/A	10/1/2023	9/30/2024		\$ 55.00	\$ 40.00 - \$ 75.00
	\$ 164.47	N/A	10/1/2024	9/30/2025	5.00%	\$ 57.75	\$ 42.00 - \$ 78.75
	\$ 172.69	N/A	10/1/2025	9/30/2026	5.00%	\$ 60.64	\$ 44.10 - \$ 82.69
	\$ 181.32	N/A	10/1/2026	9/30/2027	5.00%	\$ 63.67	\$ 46.31 - \$ 86.82
	\$ 190.39	N/A	10/1/2027	9/30/2028	5.00%	\$ 66.85	\$ 48.62 - \$ 91.16
Secretarial Services	\$ 131.00	N/A	10/1/2023	9/30/2024		\$ 46.00	\$ 30.00 - \$ 52.00
	\$ 137.55	N/A	10/1/2024	9/30/2025	5.00%	\$ 48.30	\$ 31.50 - \$ 54.60
	\$ 144.43	N/A	10/1/2025	9/30/2026	5.00%	\$ 50.72	\$ 33.08 - \$ 60.64
	\$ 151.65	N/A	10/1/2026	9/30/2027	5.00%	\$ 53.25	\$ 34.73 - \$ 63.67
	\$ 159.24	N/A	10/1/2027	9/30/2028	5.00%	\$ 55.91	\$ 36.47 - \$ 66.85

1. Names and classifications of consultant (key staff) team members must be listed. Provide separate sheets for prime and all subconsultant firms.

2. Billing rate = actual hourly rate * (1+ ICR) * (1+ Fee). Agreed upon billing rates are not adjustable for the term of contract.

3. For named employees enter the actual hourly rate. For classifications only, enter the average hourly rate for that classification.

Note:

• Denote all employees subject to prevailing wage with an asterisks (*)

• For "Other Direct Cost" listing, see page 2 of this Exhibit

Consultant: Biggs Cardosa Associates ☒ Prime Consultant ☐ Subconsultant ☐ 2nd Tier Subconsultant

Project: Tulare Co. M43 (Manter Meadow Drive) over
Capinero Creek Bridge Project Contract No. _____ Date: 5/17/2024

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)				
Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs	1000	EA	\$ 0.67	\$ 670.00
Reproductions (half sheet)		EA	\$	\$
Reproductions (whole sheet)		EA	\$	\$
Postage/Delivery/Overnight (Submittals)		EA	\$	\$
Postage/Delivery/Overnight		EA	\$	\$
Per Diem			At Cost	\$ -
Lodging			At Cost	\$ -
Subconsultant 1: Mark Thomas				\$ 279,564.00
Subconsultant 2: GPA Consulting				\$ 202,460.00
Subconsultant 3: Avila & Assoicates				\$ 37,470.00
Subconsultant 4: Earth Mechanics				\$ 43,220.00
Subconsultant 5:				\$ -

- NOTES:**
- 1. List direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentations.
 - 2. Proposed ODC items should be consistently billed regardless of client and contract type.
 - 3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
 - 4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice)
 - 5. Items listed above that would be considered "tools of the trade" are not reimburseable as other direct cost.
 - 6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.

EXHIBIT 10-H2 COST PROPOSAL


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.

Prime Consultant or Subconsultant Certifying:

Name: Mahvash Harms, SE Title *: Vice President/ Senior Principal
Signature :  Date of Certification (mm/dd/yyyy): 3/6/2024
Email: mharmus@biggscardosa.com Phone Number: 408-839-8878

* 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:

Structural Engineering, Project Management

Cost Proposal 2
Specific Rate of Compensation (On-Call or As-Needed Contracts)

Note: Mark-ups are Not Allowed

Consultant: Mark Thomas & Company, Inc.

☒ Prime Consultant ☐ Subconsultant ☐ 2nd Tier Subconsultant

Project No. _____ Contract No. _____ Participation Amount \$ 279,564 Date: 5/17/2024

For Combined Rate	Fringe Benefit 95.61% + General & Administrative 55.05%	=	Combined	150.66%
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For Home Office Rate	Fringe Benefit ____% + General & Administrative ____%	=	Home Office	____%
For Field Office Rate	Fringe Benefit ____% + General & Administrative ____%	=	Field Office	____%

Fee	=	10%
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BILLING INFORMATION

CALCULATION INFORMATION

Name/Classification	Loaded Hourly Billing Rates		Effective Date of Rate		% Escalation Increase	Actual Hourly Rate and/or Average Hourly Rate	Hourly Range for Class
	Straight	Overtime	From	To			
Principal *Ed Noriega	\$ 333.52	N/A	3/1/2024	3/31/2025		\$ 120.96	\$ 138.00 - \$ 165.00
	\$ 350.19	N/A	3/1/2025	3/31/2026	5.00%	\$ 127.01	\$ 144.90 - \$ 173.25
	\$ 367.70	N/A	3/1/2026	3/31/2027	5.00%	\$ 133.36	\$ 152.15 - \$ 181.91
	\$ 386.09	N/A	3/1/2027	3/31/2028	5.00%	\$ 140.03	\$ 159.75 - \$ 191.01
	\$ 405.39	N/A	3/1/2028	3/31/2029	5.00%	\$ 147.03	\$ 167.74 - \$ 200.56
Sr. Engineering Manager	\$ 380.01	N/A	3/1/2024	3/31/2025		\$ 137.82	\$ 112.00 - \$ 148.00
	\$ 399.01	N/A	3/1/2025	3/31/2026	5.00%	\$ 144.71	\$ 117.60 - \$ 155.40
	\$ 418.96	N/A	3/1/2026	3/31/2027	5.00%	\$ 151.95	\$ 123.48 - \$ 163.17
	\$ 439.90	N/A	3/1/2027	3/31/2028	5.00%	\$ 159.54	\$ 129.65 - \$ 171.33
	\$ 461.90	N/A	3/1/2028	3/31/2029	5.00%	\$ 167.52	\$ 136.14 - \$ 179.89
Engineering Manager	\$ 318.99	N/A	3/1/2024	3/31/2025		\$ 115.69	\$ 105.00 - \$ 126.00
	\$ 334.94	N/A	3/1/2025	3/31/2026	5.00%	\$ 121.47	\$ 110.25 - \$ 132.30
	\$ 351.68	N/A	3/1/2026	3/31/2027	5.00%	\$ 127.55	\$ 115.76 - \$ 138.92
	\$ 369.27	N/A	3/1/2027	3/31/2028	5.00%	\$ 133.93	\$ 121.55 - \$ 145.86
	\$ 387.73	N/A	3/1/2028	3/31/2029	5.00%	\$ 140.62	\$ 127.63 - \$ 153.15
Design Manager	\$ 318.99	N/A	3/1/2024	3/31/2025		\$ 115.69	\$ 101.00 - \$ 126.00
	\$ 334.94	N/A	3/1/2025	3/31/2026	5.00%	\$ 121.47	\$ 106.05 - \$ 132.30

Sr. Project Manager	\$	351.68	N/A	3/1/2026	3/31/2027	5.00%	\$	127.55	\$	111.35	-	\$	138.92
	\$	369.27	N/A	3/1/2027	3/31/2028	5.00%	\$	133.93	\$	116.92	-	\$	145.86
	\$	387.73	N/A	3/1/2028	3/31/2029	5.00%	\$	140.62	\$	122.77	-	\$	153.15
	\$	265.00	N/A	3/1/2024	3/31/2025		\$	96.11	\$	75.00	-	\$	107.00
Sr. Technical Lead	\$	278.25	N/A	3/1/2025	3/31/2026	5.00%	\$	100.92	\$	78.75	-	\$	112.35
	\$	292.16	N/A	3/1/2026	3/31/2027	5.00%	\$	105.96	\$	82.69	-	\$	117.97
	\$	306.77	N/A	3/1/2027	3/31/2028	5.00%	\$	111.26	\$	86.82	-	\$	123.87
	\$	322.11	N/A	3/1/2028	3/31/2029	5.00%	\$	116.82	\$	91.16	-	\$	130.06
Project Manager	\$	265.00	N/A	3/1/2024	3/31/2025		\$	96.11	\$	75.00	-	\$	107.00
	\$	278.25	N/A	3/1/2025	3/31/2026	5.00%	\$	100.92	\$	78.75	-	\$	112.35
	\$	292.16	N/A	3/1/2026	3/31/2027	5.00%	\$	105.96	\$	82.69	-	\$	117.97
	\$	306.77	N/A	3/1/2027	3/31/2028	5.00%	\$	111.26	\$	86.82	-	\$	123.87
Technical Lead	\$	322.11	N/A	3/1/2028	3/31/2029	5.00%	\$	116.82	\$	91.16	-	\$	130.06
	\$	213.99	N/A	3/1/2024	3/31/2025		\$	77.61	\$	62.00	-	\$	88.00
	\$	224.69	N/A	3/1/2025	3/31/2026	5.00%	\$	81.49	\$	65.10	-	\$	92.40
	\$	235.93	N/A	3/1/2026	3/31/2027	5.00%	\$	85.57	\$	68.36	-	\$	97.02
Sr. Project Engineer	\$	247.72	N/A	3/1/2027	3/31/2028	5.00%	\$	89.84	\$	71.77	-	\$	101.87
	\$	260.11	N/A	3/1/2028	3/31/2029	5.00%	\$	94.34	\$	75.36	-	\$	106.96
	\$	213.99	N/A	3/1/2024	3/31/2025		\$	77.61	\$	62.00	-	\$	88.00
	\$	224.69	N/A	3/1/2025	3/31/2026	5.00%	\$	81.49	\$	65.10	-	\$	92.40
Sr. Technical Engineer	\$	235.93	N/A	3/1/2026	3/31/2027	5.00%	\$	85.57	\$	68.36	-	\$	97.02
	\$	247.72	N/A	3/1/2027	3/31/2028	5.00%	\$	89.84	\$	71.77	-	\$	101.87
	\$	260.11	N/A	3/1/2028	3/31/2029	5.00%	\$	94.34	\$	75.36	-	\$	106.96
	\$	186.00	N/A	3/1/2024	3/31/2025		\$	67.46	\$	56.00	-	\$	78.00
Project Engineer	\$	195.30	N/A	3/1/2025	3/31/2026	5.00%	\$	70.83	\$	58.80	-	\$	81.90
	\$	205.07	N/A	3/1/2026	3/31/2027	5.00%	\$	74.37	\$	61.74	-	\$	86.00
	\$	215.32	N/A	3/1/2027	3/31/2028	5.00%	\$	78.09	\$	64.83	-	\$	90.29
	\$	226.09	N/A	3/1/2028	3/31/2029	5.00%	\$	82.00	\$	68.07	-	\$	94.81
Civil Engineering Designer	\$	186.00	N/A	3/1/2024	3/31/2025		\$	67.46	\$	56.00	-	\$	78.00
	\$	195.30	N/A	3/1/2025	3/31/2026	5.00%	\$	70.83	\$	58.80	-	\$	81.90
	\$	205.07	N/A	3/1/2026	3/31/2027	5.00%	\$	74.37	\$	61.74	-	\$	86.00
	\$	215.32	N/A	3/1/2027	3/31/2028	5.00%	\$	78.09	\$	64.83	-	\$	90.29
Sr. Project Engineer	\$	226.09	N/A	3/1/2028	3/31/2029	5.00%	\$	82.00	\$	68.07	-	\$	94.81
	\$	164.00	N/A	3/1/2024	3/31/2025		\$	59.48	\$	50.00	-	\$	70.00
	\$	172.20	N/A	3/1/2025	3/31/2026	5.00%	\$	62.45	\$	52.50	-	\$	73.50
	\$	180.81	N/A	3/1/2026	3/31/2027	5.00%	\$	65.58	\$	55.13	-	\$	77.18
Project Engineer	\$	189.85	N/A	3/1/2027	3/31/2028	5.00%	\$	68.86	\$	57.88	-	\$	81.03
	\$	199.35	N/A	3/1/2028	3/31/2029	5.00%	\$	72.30	\$	60.78	-	\$	85.09
	\$	157.00	N/A	3/1/2024	3/31/2025		\$	56.94	\$	40.00	-	\$	67.00
	\$	164.85	N/A	3/1/2025	3/31/2026	5.00%	\$	59.79	\$	42.00	-	\$	70.35
Civil Engineering Designer	\$	173.09	N/A	3/1/2026	3/31/2027	5.00%	\$	62.78	\$	44.10	-	\$	73.87
	\$	181.75	N/A	3/1/2027	3/31/2028	5.00%	\$	65.92	\$	46.31	-	\$	77.56

	\$	190.83	N/A	3/1/2028	3/31/2029	5.00%	\$	69.21	\$	48.62	-	\$	81.44
Design Engineer II	\$	142.00	N/A	3/1/2024	3/31/2025		\$	51.50	\$	38.00	-	\$	62.00
	\$	149.10	N/A	3/1/2025	3/31/2026	5.00%	\$	54.08	\$	39.90	-	\$	65.10
	\$	156.55	N/A	3/1/2026	3/31/2027	5.00%	\$	56.78	\$	41.90	-	\$	68.36
	\$	164.38	N/A	3/1/2027	3/31/2028	5.00%	\$	59.62	\$	43.99	-	\$	71.77
	\$	172.60	N/A	3/1/2028	3/31/2029	5.00%	\$	62.60	\$	46.19	-	\$	75.36
Design Engineer I	\$	115.01	N/A	3/1/2024	3/31/2025		\$	41.71	\$	30.00	-	\$	52.00
	\$	120.76	N/A	3/1/2025	3/31/2026	5.00%	\$	43.80	\$	31.50	-	\$	54.60
	\$	126.79	N/A	3/1/2026	3/31/2027	5.00%	\$	45.99	\$	33.08	-	\$	57.33
	\$	133.13	N/A	3/1/2027	3/31/2028	5.00%	\$	48.28	\$	34.73	-	\$	60.20
	\$	139.79	N/A	3/1/2028	3/31/2029	5.00%	\$	50.70	\$	36.47	-	\$	63.21
Sr. Planner	\$	142.00	N/A	3/1/2024	3/31/2025		\$	51.50	\$	38.00	-	\$	62.00
	\$	149.10	N/A	3/1/2025	3/31/2026	5.00%	\$	54.08	\$	39.90	-	\$	65.10
	\$	156.55	N/A	3/1/2026	3/31/2027	5.00%	\$	56.78	\$	41.90	-	\$	68.36
	\$	164.38	N/A	3/1/2027	3/31/2028	5.00%	\$	59.62	\$	43.99	-	\$	71.77
	\$	172.60	N/A	3/1/2028	3/31/2029	5.00%	\$	62.60	\$	46.19	-	\$	75.36
Planner II	\$	118.01	N/A	3/1/2024	3/31/2025		\$	42.80	\$	31.00	-	\$	53.00
	\$	123.91	N/A	3/1/2025	3/31/2026	5.00%	\$	44.94	\$	32.55	-	\$	55.65
	\$	130.11	N/A	3/1/2026	3/31/2027	5.00%	\$	47.19	\$	34.18	-	\$	58.43
	\$	136.61	N/A	3/1/2027	3/31/2028	5.00%	\$	49.55	\$	35.89	-	\$	61.35
	\$	143.44	N/A	3/1/2028	3/31/2029	5.00%	\$	52.02	\$	37.68	-	\$	64.42
Planner I	\$	93.99	N/A	3/1/2024	3/31/2025		\$	34.09	\$	28.00	-	\$	45.00
	\$	98.69	N/A	3/1/2025	3/31/2026	5.00%	\$	35.79	\$	29.40	-	\$	47.25
	\$	103.63	N/A	3/1/2026	3/31/2027	5.00%	\$	37.58	\$	30.87	-	\$	49.61
	\$	108.81	N/A	3/1/2027	3/31/2028	5.00%	\$	39.46	\$	32.41	-	\$	52.09
	\$	114.25	N/A	3/1/2028	3/31/2029	5.00%	\$	41.44	\$	34.03	-	\$	54.70
Sr. Technician	\$	145.00	N/A	3/1/2024	3/31/2025		\$	52.59	\$	40.00	-	\$	63.00
	\$	152.25	N/A	3/1/2025	3/31/2026	5.00%	\$	55.22	\$	42.00	-	\$	66.15
	\$	159.87	N/A	3/1/2026	3/31/2027	5.00%	\$	57.98	\$	44.10	-	\$	69.46
	\$	167.86	N/A	3/1/2027	3/31/2028	5.00%	\$	60.88	\$	46.31	-	\$	72.93
	\$	176.25	N/A	3/1/2028	3/31/2029	5.00%	\$	63.92	\$	48.62	-	\$	76.58
Technician	\$	97.00	N/A	3/1/2024	3/31/2025		\$	35.18	\$	23.00	-	\$	46.00
	\$	101.85	N/A	3/1/2025	3/31/2026	5.00%	\$	36.94	\$	24.15	-	\$	48.30
	\$	106.94	N/A	3/1/2026	3/31/2027	5.00%	\$	38.79	\$	25.36	-	\$	50.72
	\$	112.29	N/A	3/1/2027	3/31/2028	5.00%	\$	40.73	\$	26.63	-	\$	53.25
	\$	117.90	N/A	3/1/2028	3/31/2029	5.00%	\$	42.76	\$	27.96	-	\$	55.91
Intern	\$	66.01	N/A	3/1/2024	3/31/2025		\$	23.94	\$	17.00	-	\$	34.00
	\$	69.31	N/A	3/1/2025	3/31/2026	5.00%	\$	25.14	\$	17.85	-	\$	35.70
	\$	72.77	N/A	3/1/2026	3/31/2027	5.00%	\$	26.39	\$	18.74	-	\$	37.49
	\$	76.41	N/A	3/1/2027	3/31/2028	5.00%	\$	27.71	\$	19.68	-	\$	39.36
	\$	80.23	N/A	3/1/2028	3/31/2029	5.00%	\$	29.10	\$	20.66	-	\$	41.33
Survey Division Manager	\$	317.99	N/A	3/1/2024	3/31/2025		\$	115.33	\$	85.00	-	\$	126.00

	\$	333.89	N/A	3/1/2025	3/31/2026	5.00%	\$	121.10	\$	89.25	-	\$	132.30
	\$	350.59	N/A	3/1/2026	3/31/2027	5.00%	\$	127.15	\$	93.71	-	\$	138.92
	\$	368.12	N/A	3/1/2027	3/31/2028	5.00%	\$	133.51	\$	98.40	-	\$	145.86
	\$	386.52	N/A	3/1/2028	3/31/2029	5.00%	\$	140.18	\$	103.32	-	\$	153.15
Survey Manager II	\$	242.00	N/A	3/1/2024	3/31/2025		\$	87.77	\$	74.00	-	\$	96.00
	\$	254.10	N/A	3/1/2025	3/31/2026	5.00%	\$	92.16	\$	77.70	-	\$	100.80
	\$	266.81	N/A	3/1/2026	3/31/2027	5.00%	\$	96.77	\$	81.59	-	\$	105.84
	\$	280.15	N/A	3/1/2027	3/31/2028	5.00%	\$	101.60	\$	85.66	-	\$	111.13
Survey Manager I	\$	294.16	N/A	3/1/2028	3/31/2029	5.00%	\$	106.68	\$	89.95	-	\$	116.69
	\$	217.00	N/A	3/1/2024	3/31/2025		\$	78.70	\$	69.00	-	\$	89.00
	\$	227.85	N/A	3/1/2025	3/31/2026	5.00%	\$	82.64	\$	72.45	-	\$	93.45
	\$	239.24	N/A	3/1/2026	3/31/2027	5.00%	\$	86.77	\$	76.07	-	\$	98.12
Project Surveyor III	\$	251.20	N/A	3/1/2027	3/31/2028	5.00%	\$	91.11	\$	79.88	-	\$	103.03
	\$	263.76	N/A	3/1/2028	3/31/2029	5.00%	\$	95.66	\$	83.87	-	\$	108.18
	\$	221.99	N/A	3/1/2024	3/31/2025		\$	80.51	\$	65.00	-	\$	91.00
	\$	233.09	N/A	3/1/2025	3/31/2026	5.00%	\$	84.54	\$	68.25	-	\$	95.55
Project Surveyor II	\$	244.74	N/A	3/1/2026	3/31/2027	5.00%	\$	88.76	\$	71.66	-	\$	100.33
	\$	256.98	N/A	3/1/2027	3/31/2028	5.00%	\$	93.20	\$	75.25	-	\$	105.34
	\$	269.83	N/A	3/1/2028	3/31/2029	5.00%	\$	97.86	\$	79.01	-	\$	110.61
	\$	191.99	N/A	3/1/2024	3/31/2025		\$	69.63	\$	60.00	-	\$	80.00
Project Surveyor I	\$	201.59	N/A	3/1/2025	3/31/2026	5.00%	\$	73.11	\$	63.00	-	\$	84.00
	\$	211.67	N/A	3/1/2026	3/31/2027	5.00%	\$	76.77	\$	66.15	-	\$	88.20
	\$	222.25	N/A	3/1/2027	3/31/2028	5.00%	\$	80.61	\$	69.46	-	\$	92.61
	\$	233.36	N/A	3/1/2028	3/31/2029	5.00%	\$	84.64	\$	72.93	-	\$	97.24
Asst Surveyor III	\$	176.99	N/A	3/1/2024	3/31/2025		\$	64.19	\$	52.00	-	\$	75.00
	\$	185.84	N/A	3/1/2025	3/31/2026	5.00%	\$	67.40	\$	54.60	-	\$	78.75
	\$	195.13	N/A	3/1/2026	3/31/2027	5.00%	\$	70.77	\$	57.33	-	\$	82.69
	\$	204.89	N/A	3/1/2027	3/31/2028	5.00%	\$	74.31	\$	60.20	-	\$	86.82
Asst Surveyor II	\$	215.13	N/A	3/1/2028	3/31/2029	5.00%	\$	78.02	\$	63.21	-	\$	91.16
	\$	150.99	N/A	3/1/2024	3/31/2025		\$	54.76	\$	45.00	-	\$	65.00
	\$	158.54	N/A	3/1/2025	3/31/2026	5.00%	\$	57.50	\$	47.25	-	\$	68.25
	\$	166.46	N/A	3/1/2026	3/31/2027	5.00%	\$	60.37	\$	49.61	-	\$	71.66
Asst Surveyor I	\$	174.79	N/A	3/1/2027	3/31/2028	5.00%	\$	63.39	\$	52.09	-	\$	75.25
	\$	183.53	N/A	3/1/2028	3/31/2029	5.00%	\$	66.56	\$	54.70	-	\$	79.01
	\$	135.99	N/A	3/1/2024	3/31/2025		\$	49.32	\$	41.00	-	\$	60.00
	\$	142.79	N/A	3/1/2025	3/31/2026	5.00%	\$	51.79	\$	43.05	-	\$	63.00
Asst Surveyor II	\$	149.93	N/A	3/1/2026	3/31/2027	5.00%	\$	54.38	\$	45.20	-	\$	66.15
	\$	157.42	N/A	3/1/2027	3/31/2028	5.00%	\$	57.09	\$	47.46	-	\$	69.46
	\$	165.29	N/A	3/1/2028	3/31/2029	5.00%	\$	59.95	\$	49.84	-	\$	72.93
	\$	120.99	N/A	3/1/2024	3/31/2025		\$	43.88	\$	35.00	-	\$	54.00
Asst Surveyor I	\$	127.04	N/A	3/1/2025	3/31/2026	5.00%	\$	46.07	\$	36.75	-	\$	56.70
	\$	133.39	N/A	3/1/2026	3/31/2027	5.00%	\$	48.38	\$	38.59	-	\$	59.54

	\$	140.06	N/A	3/1/2027	3/31/2028	5.00%	\$	50.80	\$	40.52	-	\$	62.51	
	\$	147.06	N/A	3/1/2028	3/31/2029	5.00%	\$	53.34	\$	42.54	-	\$	65.64	
Survey Specialist III	\$	211.01	N/A	3/1/2024	3/31/2025		\$	76.53	\$	58.00	-	\$	87.00	
	\$	221.56	N/A	3/1/2025	3/31/2026	5.00%	\$	80.36	\$	60.90	-	\$	91.35	
	\$	232.64	N/A	3/1/2026	3/31/2027	5.00%	\$	84.37	\$	63.95	-	\$	95.92	
	\$	244.27	N/A	3/1/2027	3/31/2028	5.00%	\$	88.59	\$	67.14	-	\$	100.71	
Survey Specialist II	\$	256.49	N/A	3/1/2028	3/31/2029	5.00%	\$	93.02	\$	70.50	-	\$	105.75	
	\$	161.99	N/A	3/1/2024	3/31/2025		\$	58.75	\$	45.00	-	\$	69.00	
	\$	170.09	N/A	3/1/2025	3/31/2026	5.00%	\$	61.69	\$	47.25	-	\$	72.45	
	\$	178.59	N/A	3/1/2026	3/31/2027	5.00%	\$	64.77	\$	49.61	-	\$	76.07	
	\$	187.52	N/A	3/1/2027	3/31/2028	5.00%	\$	68.01	\$	52.09	-	\$	79.88	
	\$	196.90	N/A	3/1/2028	3/31/2029	5.00%	\$	71.41	\$	54.70	-	\$	83.87	
	\$	126.01	N/A	3/1/2024	3/31/2025		\$	45.70	\$	35.00	-	\$	56.00	
	\$	132.31	N/A	3/1/2025	3/31/2026	5.00%	\$	47.99	\$	36.75	-	\$	58.80	
Survey Specialist I	\$	138.92	N/A	3/1/2026	3/31/2027	5.00%	\$	50.38	\$	38.59	-	\$	61.74	
	\$	145.87	N/A	3/1/2027	3/31/2028	5.00%	\$	52.90	\$	40.52	-	\$	64.83	
	\$	153.16	N/A	3/1/2028	3/31/2029	5.00%	\$	55.55	\$	42.54	-	\$	68.07	
	\$	157.00	N/A	3/1/2024	3/31/2025		\$	56.94	\$	46.00	-	\$	67.00	
Lead Survey Technician	\$	164.85	N/A	3/1/2025	3/31/2026	5.00%	\$	59.79	\$	48.30	-	\$	70.35	
	\$	173.09	N/A	3/1/2026	3/31/2027	5.00%	\$	62.78	\$	50.72	-	\$	73.87	
	\$	181.75	N/A	3/1/2027	3/31/2028	5.00%	\$	65.92	\$	53.25	-	\$	77.56	
	\$	190.83	N/A	3/1/2028	3/31/2029	5.00%	\$	69.21	\$	55.91	-	\$	81.44	
Survey Technician III	\$	135.99	N/A	3/1/2024	3/31/2025		\$	49.32	\$	37.00	-	\$	60.00	
	\$	142.79	N/A	3/1/2025	3/31/2026	5.00%	\$	51.79	\$	38.85	-	\$	63.00	
	\$	149.93	N/A	3/1/2026	3/31/2027	5.00%	\$	54.38	\$	40.79	-	\$	66.15	
	\$	157.42	N/A	3/1/2027	3/31/2028	5.00%	\$	57.09	\$	42.83	-	\$	69.46	
Survey Technician II	\$	165.29	N/A	3/1/2028	3/31/2029	5.00%	\$	59.95	\$	44.97	-	\$	72.93	
	\$	126.01	N/A	3/1/2024	3/31/2025		\$	45.70	\$	34.00	-	\$	56.00	
	\$	132.31	N/A	3/1/2025	3/31/2026	5.00%	\$	47.99	\$	35.70	-	\$	58.80	
	\$	138.92	N/A	3/1/2026	3/31/2027	5.00%	\$	50.38	\$	37.49	-	\$	61.74	
	\$	145.87	N/A	3/1/2027	3/31/2028	5.00%	\$	52.90	\$	39.36	-	\$	64.83	
	\$	153.16	N/A	3/1/2028	3/31/2029	5.00%	\$	55.55	\$	41.33	-	\$	68.07	
	\$	111.01	N/A	3/1/2024	3/31/2025		\$	40.26	\$	19.00	-	\$	51.00	
	\$	116.56	N/A	3/1/2025	3/31/2026	5.00%	\$	42.27	\$	19.95	-	\$	53.55	
Survey Technician I	\$	122.39	N/A	3/1/2026	3/31/2027	5.00%	\$	44.39	\$	20.95	-	\$	56.23	
	\$	128.50	N/A	3/1/2027	3/31/2028	5.00%	\$	46.61	\$	21.99	-	\$	59.04	
	\$	134.93	N/A	3/1/2028	3/31/2029	5.00%	\$	48.94	\$	23.09	-	\$	61.99	
	\$	171.01	\$	256.51	3/1/2024	3/31/2025		\$	62.02	\$	55.00	-	\$	73.00
Chief of Party (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	179.56	\$	269.33	3/1/2025	3/31/2026		\$	65.12	\$	57.75	-	\$	76.65
	\$	188.53	\$	282.80	3/1/2026	3/31/2027		\$	68.38	\$	60.64	-	\$	80.48
	\$	197.96	\$	296.94	3/1/2027	3/31/2028		\$	71.80	\$	63.67	-	\$	84.51
	\$	207.86	\$	311.79	3/1/2028	3/31/2029		\$	75.39	\$	66.85	-	\$	88.73

Instrumentperson (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 156.01	\$ 234.01	3/1/2024	3/31/2025		\$	56.58	\$ 51.00 - \$ 67.00
	\$ 163.81	\$ 245.71	3/1/2025	3/31/2026	5.00%	\$	59.41	\$ 53.55 - \$ 70.35
	\$ 172.00	\$ 257.99	3/1/2026	3/31/2027	5.00%	\$	62.38	\$ 56.23 - \$ 73.87
	\$ 180.60	\$ 270.89	3/1/2027	3/31/2028	5.00%	\$	65.50	\$ 59.04 - \$ 77.56
	\$ 189.63	\$ 284.44	3/1/2028	3/31/2029	5.00%	\$	68.77	\$ 61.99 - \$ 81.44
Chainperson (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 150.99	\$ 226.48	3/1/2024	3/31/2025		\$	54.76	\$ 48.00 - \$ 65.00
	\$ 158.54	\$ 237.81	3/1/2025	3/31/2026	5.00%	\$	57.50	\$ 50.40 - \$ 68.25
	\$ 166.46	\$ 249.70	3/1/2026	3/31/2027	5.00%	\$	60.37	\$ 52.92 - \$ 71.66
	\$ 174.79	\$ 262.18	3/1/2027	3/31/2028	5.00%	\$	63.39	\$ 55.57 - \$ 75.25
	\$ 183.53	\$ 275.29	3/1/2028	3/31/2029	5.00%	\$	66.56	\$ 58.34 - \$ 79.01
Apprentice (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 108.99	\$ 163.49	3/1/2024	3/31/2025		\$	39.53	\$ 28.00 - \$ 50.00
	\$ 114.44	\$ 171.67	3/1/2025	3/31/2026	5.00%	\$	41.51	\$ 29.40 - \$ 52.50
	\$ 120.17	\$ 180.25	3/1/2026	3/31/2027	5.00%	\$	43.58	\$ 30.87 - \$ 55.13
	\$ 126.17	\$ 189.26	3/1/2027	3/31/2028	5.00%	\$	45.76	\$ 32.41 - \$ 57.88
	\$ 132.48	\$ 198.73	3/1/2028	3/31/2029	5.00%	\$	48.05	\$ 34.03 - \$ 60.78
2-Person Crew (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 328.00	\$ 492.01	3/1/2024	3/31/2025		\$	118.96	\$ 103.00 - \$ 129.00
	\$ 344.40	\$ 516.61	3/1/2025	3/31/2026	5.00%	\$	124.91	\$ 108.15 - \$ 135.45
	\$ 361.62	\$ 542.44	3/1/2026	3/31/2027	5.00%	\$	131.15	\$ 113.56 - \$ 142.22
	\$ 379.71	\$ 569.56	3/1/2027	3/31/2028	5.00%	\$	137.71	\$ 119.24 - \$ 149.33
	\$ 398.69	\$ 598.04	3/1/2028	3/31/2029	5.00%	\$	144.60	\$ 125.20 - \$ 156.80
3-Person Crew (OE3)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 437.99	\$ 656.99	3/1/2024	3/31/2025		\$	158.85	\$ 133.00 - \$ 169.00
	\$ 459.89	\$ 689.84	3/1/2025	3/31/2026	5.00%	\$	166.79	\$ 139.65 - \$ 177.45
	\$ 482.88	\$ 724.33	3/1/2026	3/31/2027	5.00%	\$	175.13	\$ 146.63 - \$ 186.32
	\$ 507.03	\$ 760.54	3/1/2027	3/31/2028	5.00%	\$	183.89	\$ 153.96 - \$ 195.64
	\$ 532.38	\$ 798.57	3/1/2028	3/31/2029	5.00%	\$	193.08	\$ 161.66 - \$ 205.42
Utility Locator (PW North)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 135.99	\$ 203.98	3/1/2024	3/31/2025		\$	49.32	\$ 44.00 - \$ 60.00
	\$ 142.79	\$ 214.18	3/1/2025	3/31/2026	5.00%	\$	51.79	\$ 46.20 - \$ 63.00
	\$ 149.93	\$ 224.89	3/1/2026	3/31/2027	5.00%	\$	54.38	\$ 48.51 - \$ 66.15
	\$ 157.42	\$ 236.13	3/1/2027	3/31/2028	5.00%	\$	57.09	\$ 50.94 - \$ 69.46
	\$ 165.29	\$ 247.94	3/1/2028	3/31/2029	5.00%	\$	59.95	\$ 53.48 - \$ 72.93
2-Person Utility Locate (PW North)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 268.01	\$ 402.01	3/1/2024	3/31/2025		\$	97.20	\$ 90.00 - \$ 108.00
	\$ 281.41	\$ 422.11	3/1/2025	3/31/2026	5.00%	\$	102.06	\$ 94.50 - \$ 113.40
	\$ 295.48	\$ 443.21	3/1/2026	3/31/2027	5.00%	\$	107.16	\$ 99.23 - \$ 119.07
	\$ 310.25	\$ 465.38	3/1/2027	3/31/2028	5.00%	\$	112.52	\$ 104.19 - \$ 125.02
	\$ 325.76	\$ 488.64	3/1/2028	3/31/2029	5.00%	\$	118.15	\$ 109.40 - \$ 131.27
Chief of Party (OE12)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$ 202.00	\$ 303.00	3/1/2024	3/31/2025		\$	73.26	\$ 64.00 - \$ 84.00
	\$ 212.10	\$ 318.15	3/1/2025	3/31/2026	5.00%	\$	76.92	\$ 67.20 - \$ 88.20
	\$ 222.70	\$ 334.05	3/1/2026	3/31/2027	5.00%	\$	80.77	\$ 70.56 - \$ 92.61
	\$ 233.84	\$ 350.75	3/1/2027	3/31/2028	5.00%	\$	84.81	\$ 74.09 - \$ 97.24
	\$ 245.53	\$ 368.29	3/1/2028	3/31/2029	5.00%	\$	89.05	\$ 77.79 - \$ 102.10
Instrumentperson (OE12)* (Prevailing wage is based on our union contract	\$ 182.01	\$ 273.01	3/1/2024	3/31/2025		\$	66.01	\$ 58.00 - \$ 77.00
	\$ 191.11	\$ 286.66	3/1/2025	3/31/2026	5.00%	\$	69.31	\$ 60.90 - \$ 80.85

which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	200.66	\$	300.99	3/1/2026	3/31/2027	5.00%	\$	72.78	\$	63.95	-	\$	84.89
	\$	210.70	\$	316.04	3/1/2027	3/31/2028	5.00%	\$	76.41	\$	67.14	-	\$	89.14
	\$	221.23	\$	331.85	3/1/2028	3/31/2029	5.00%	\$	80.24	\$	70.50	-	\$	93.59
	\$	176.99	\$	265.48	3/1/2024	3/31/2025		\$	64.19	\$	58.00	-	\$	75.00
Chainperson (OE12)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	185.84	\$	278.76	3/1/2025	3/31/2026	5.00%	\$	67.40	\$	60.90	-	\$	78.75
	\$	195.13	\$	292.69	3/1/2026	3/31/2027	5.00%	\$	70.77	\$	63.95	-	\$	82.69
	\$	204.89	\$	307.33	3/1/2027	3/31/2028	5.00%	\$	74.31	\$	67.14	-	\$	86.82
	\$	215.13	\$	322.70	3/1/2028	3/31/2029	5.00%	\$	78.02	\$	70.50	-	\$	91.16
Apprentice (OE12)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	108.99	\$	163.49	3/1/2024	3/31/2025		\$	39.53	\$	24.00	-	\$	50.00
	\$	114.44	\$	171.67	3/1/2025	3/31/2026	5.00%	\$	41.51	\$	25.20	-	\$	52.50
	\$	120.17	\$	180.25	3/1/2026	3/31/2027	5.00%	\$	43.58	\$	26.46	-	\$	55.13
	\$	126.17	\$	189.26	3/1/2027	3/31/2028	5.00%	\$	45.76	\$	27.78	-	\$	57.88
2-Person Crew (OE12)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	132.48	\$	198.73	3/1/2028	3/31/2029	5.00%	\$	48.05	\$	29.17	-	\$	60.78
	\$	379.01	\$	568.52	3/1/2024	3/31/2025		\$	137.46	\$	122.00	-	\$	148.00
	\$	397.96	\$	596.95	3/1/2025	3/31/2026	5.00%	\$	144.33	\$	128.10	-	\$	155.40
	\$	417.86	\$	626.79	3/1/2026	3/31/2027	5.00%	\$	151.55	\$	134.51	-	\$	163.17
3-Person Crew (OE12)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	438.75	\$	658.13	3/1/2027	3/31/2028	5.00%	\$	159.13	\$	141.23	-	\$	171.33
	\$	460.69	\$	691.04	3/1/2028	3/31/2029	5.00%	\$	167.08	\$	148.29	-	\$	179.89
	\$	484.01	\$	726.01	3/1/2024	3/31/2025		\$	175.54	\$	146.00	-	\$	186.00
	\$	508.21	\$	762.31	3/1/2025	3/31/2026	5.00%	\$	184.32	\$	153.30	-	\$	195.30
Utility Locator (PW South)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	533.62	\$	800.43	3/1/2026	3/31/2027	5.00%	\$	193.53	\$	160.97	-	\$	205.07
	\$	560.30	\$	840.45	3/1/2027	3/31/2028	5.00%	\$	203.21	\$	169.01	-	\$	215.32
	\$	588.32	\$	882.47	3/1/2028	3/31/2029	5.00%	\$	213.37	\$	177.46	-	\$	226.08
	\$	187.00	\$	280.50	3/1/2024	3/31/2025		\$	67.82	\$	62.00	-	\$	78.00
2-Person Utility Locate (PW South)* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	196.35	\$	294.52	3/1/2025	3/31/2026	5.00%	\$	71.21	\$	65.10	-	\$	81.90
	\$	206.16	\$	309.25	3/1/2026	3/31/2027	5.00%	\$	74.77	\$	68.36	-	\$	86.00
	\$	216.47	\$	324.71	3/1/2027	3/31/2028	5.00%	\$	78.51	\$	71.77	-	\$	90.29
	\$	227.30	\$	340.94	3/1/2028	3/31/2029	5.00%	\$	82.44	\$	75.36	-	\$	94.81
LAUD Division Manager	\$	379.01	\$	568.52	3/1/2024	3/31/2025		\$	137.46	\$	125.00	-	\$	148.00
	\$	397.96	\$	596.95	3/1/2025	3/31/2026	5.00%	\$	144.33	\$	131.25	-	\$	155.40
	\$	417.86	\$	626.79	3/1/2026	3/31/2027	5.00%	\$	151.55	\$	137.81	-	\$	163.17
	\$	438.75	\$	658.13	3/1/2027	3/31/2028	5.00%	\$	159.13	\$	144.70	-	\$	171.33
Sr. LAUD Project Manager	\$	460.69	\$	691.04	3/1/2028	3/31/2029	5.00%	\$	167.08	\$	151.94	-	\$	179.89
	\$	258.99	N/A	N/A	3/1/2024	3/31/2025		\$	93.93	\$	85.00	-	\$	104.00
	\$	271.94	N/A	N/A	3/1/2025	3/31/2026	5.00%	\$	98.63	\$	89.25	-	\$	109.20
	\$	285.54	N/A	N/A	3/1/2026	3/31/2027	5.00%	\$	103.56	\$	93.71	-	\$	114.66
Sr. LAUD Project Manager	\$	299.81	N/A	N/A	3/1/2027	3/31/2028	5.00%	\$	108.74	\$	98.40	-	\$	120.39
	\$	314.80	N/A	N/A	3/1/2028	3/31/2029	5.00%	\$	114.17	\$	103.32	-	\$	126.41
	\$	243.00	N/A	N/A	3/1/2024	3/31/2025		\$	88.13	\$	77.00	-	\$	99.00
	\$	255.15	N/A	N/A	3/1/2025	3/31/2026	5.00%	\$	92.54	\$	80.85	-	\$	103.95
Sr. LAUD Project Manager	\$	267.90	N/A	N/A	3/1/2026	3/31/2027	5.00%	\$	97.16	\$	84.89	-	\$	109.15
	\$	281.30	N/A	N/A	3/1/2027	3/31/2028	5.00%	\$	102.02	\$	89.14	-	\$	114.60

LAUD Project Manager	\$	295.36	N/A	3/1/2028	3/31/2029	5.00%	\$	107.12	\$	93.59	-	\$	120.34
	\$	211.01	N/A	3/1/2024	3/31/2025		\$	76.53	\$	65.00	-	\$	87.00
	\$	221.56	N/A	3/1/2025	3/31/2026	5.00%	\$	80.36	\$	68.25	-	\$	91.35
	\$	232.64	N/A	3/1/2026	3/31/2027	5.00%	\$	84.37	\$	71.66	-	\$	95.92
	\$	244.27	N/A	3/1/2027	3/31/2028	5.00%	\$	88.59	\$	75.25	-	\$	100.71
Sr. Landscape Architect	\$	256.49	N/A	3/1/2028	3/31/2029	5.00%	\$	93.02	\$	79.01	-	\$	105.75
	\$	163.01	N/A	3/1/2024	3/31/2025		\$	59.12	\$	41.00	-	\$	70.00
	\$	171.16	N/A	3/1/2025	3/31/2026	5.00%	\$	62.08	\$	43.05	-	\$	73.50
	\$	179.72	N/A	3/1/2026	3/31/2027	5.00%	\$	65.18	\$	45.20	-	\$	77.18
	\$	188.70	N/A	3/1/2027	3/31/2028	5.00%	\$	68.44	\$	47.46	-	\$	81.03
Landscape Architect	\$	198.14	N/A	3/1/2028	3/31/2029	5.00%	\$	71.86	\$	49.84	-	\$	85.09
	\$	148.01	N/A	3/1/2024	3/31/2025		\$	53.68	\$	38.00	-	\$	64.00
	\$	155.41	N/A	3/1/2025	3/31/2026	5.00%	\$	56.36	\$	39.90	-	\$	67.20
	\$	163.18	N/A	3/1/2026	3/31/2027	5.00%	\$	59.18	\$	41.90	-	\$	70.56
	\$	171.34	N/A	3/1/2027	3/31/2028	5.00%	\$	62.14	\$	43.99	-	\$	74.09
Landscape Designer II	\$	179.91	N/A	3/1/2028	3/31/2029	5.00%	\$	65.25	\$	46.19	-	\$	77.79
	\$	116.99	N/A	3/1/2024	3/31/2025		\$	42.43	\$	33.00	-	\$	53.00
	\$	122.84	N/A	3/1/2025	3/31/2026	5.00%	\$	44.55	\$	34.65	-	\$	55.65
	\$	128.98	N/A	3/1/2026	3/31/2027	5.00%	\$	46.78	\$	36.38	-	\$	58.43
	\$	135.43	N/A	3/1/2027	3/31/2028	5.00%	\$	49.12	\$	38.20	-	\$	61.35
Landscape Designer I	\$	142.20	N/A	3/1/2028	3/31/2029	5.00%	\$	51.57	\$	40.11	-	\$	64.42
	\$	93.99	N/A	3/1/2024	3/31/2025		\$	34.09	\$	27.00	-	\$	45.00
	\$	98.69	N/A	3/1/2025	3/31/2026	5.00%	\$	35.79	\$	28.35	-	\$	47.25
	\$	103.63	N/A	3/1/2026	3/31/2027	5.00%	\$	37.58	\$	29.77	-	\$	49.61
	\$	108.81	N/A	3/1/2027	3/31/2028	5.00%	\$	39.46	\$	31.26	-	\$	52.09
Landscape Intern	\$	114.25	N/A	3/1/2028	3/31/2029	5.00%	\$	41.44	\$	32.82	-	\$	54.70
	\$	66.01	N/A	3/1/2024	3/31/2025		\$	23.94	\$	17.00	-	\$	34.00
	\$	69.31	N/A	3/1/2025	3/31/2026	5.00%	\$	25.14	\$	17.85	-	\$	35.70
	\$	72.77	N/A	3/1/2026	3/31/2027	5.00%	\$	26.39	\$	18.74	-	\$	37.49
	\$	76.41	N/A	3/1/2027	3/31/2028	5.00%	\$	27.71	\$	19.68	-	\$	39.36
District Manager-Engineer	\$	80.23	N/A	3/1/2028	3/31/2029	5.00%	\$	29.10	\$	20.66	-	\$	41.33
	\$	336.99	N/A	3/1/2024	3/31/2025		\$	122.22	\$	110.00	-	\$	133.00
	\$	353.84	N/A	3/1/2025	3/31/2026	5.00%	\$	128.33	\$	115.50	-	\$	139.65
	\$	371.53	N/A	3/1/2026	3/31/2027	5.00%	\$	134.75	\$	121.28	-	\$	146.63
	\$	390.11	N/A	3/1/2027	3/31/2028	5.00%	\$	141.48	\$	127.34	-	\$	153.96
Deputy District Manager	\$	409.62	N/A	3/1/2028	3/31/2029	5.00%	\$	148.56	\$	133.71	-	\$	161.66
	\$	303.00	N/A	3/1/2024	3/31/2025		\$	109.89	\$	97.00	-	\$	120.00
	\$	318.15	N/A	3/1/2025	3/31/2026	5.00%	\$	115.38	\$	101.85	-	\$	126.00
	\$	334.05	N/A	3/1/2026	3/31/2027	5.00%	\$	121.15	\$	106.94	-	\$	132.30
	\$	350.75	N/A	3/1/2027	3/31/2028	5.00%	\$	127.21	\$	112.29	-	\$	138.92
Operations Manager	\$	368.29	N/A	3/1/2028	3/31/2029	5.00%	\$	133.57	\$	117.90	-	\$	145.86
	\$	262.99	N/A	3/1/2024	3/31/2025		\$	95.38	\$	78.00	-	\$	106.00

	\$	276.14	N/A	3/1/2025	3/31/2026	5.00%	\$	100.15	\$	81.90	-	\$	111.30
	\$	289.94	N/A	3/1/2026	3/31/2027	5.00%	\$	105.16	\$	86.00	-	\$	116.87
	\$	304.44	N/A	3/1/2027	3/31/2028	5.00%	\$	110.41	\$	90.29	-	\$	122.71
	\$	319.66	N/A	3/1/2028	3/31/2029	5.00%	\$	115.93	\$	94.81	-	\$	128.84
Sr. Sanitary Project Engineer	\$	234.01	N/A	3/1/2024	3/31/2025		\$	84.87	\$	68.00	-	\$	95.00
	\$	245.71	N/A	3/1/2025	3/31/2026	5.00%	\$	89.11	\$	71.40	-	\$	99.75
	\$	257.99	N/A	3/1/2026	3/31/2027	5.00%	\$	93.57	\$	74.97	-	\$	104.74
	\$	270.89	N/A	3/1/2027	3/31/2028	5.00%	\$	98.25	\$	78.72	-	\$	109.97
	\$	284.44	N/A	3/1/2028	3/31/2029	5.00%	\$	103.16	\$	82.65	-	\$	115.47
Sanitary Project Engineer	\$	205.99	N/A	3/1/2024	3/31/2025		\$	74.71	\$	57.00	-	\$	85.00
	\$	216.29	N/A	3/1/2025	3/31/2026	5.00%	\$	78.45	\$	59.85	-	\$	89.25
	\$	227.11	N/A	3/1/2026	3/31/2027	5.00%	\$	82.37	\$	62.84	-	\$	93.71
	\$	238.46	N/A	3/1/2027	3/31/2028	5.00%	\$	86.49	\$	65.98	-	\$	98.40
	\$	250.39	N/A	3/1/2028	3/31/2029	5.00%	\$	90.81	\$	69.28	-	\$	103.32
Associate Sanitary Engineer	\$	176.99	N/A	3/1/2024	3/31/2025		\$	64.19	\$	54.00	-	\$	75.00
	\$	185.84	N/A	3/1/2025	3/31/2026	5.00%	\$	67.40	\$	56.70	-	\$	78.75
	\$	195.13	N/A	3/1/2026	3/31/2027	5.00%	\$	70.77	\$	59.54	-	\$	82.69
	\$	204.89	N/A	3/1/2027	3/31/2028	5.00%	\$	74.31	\$	62.51	-	\$	86.82
	\$	215.13	N/A	3/1/2028	3/31/2029	5.00%	\$	78.02	\$	65.64	-	\$	91.16
Assistant Sanitary Engineer	\$	155.01	N/A	3/1/2024	3/31/2025		\$	56.22	\$	48.00	-	\$	67.00
	\$	162.76	N/A	3/1/2025	3/31/2026	5.00%	\$	59.03	\$	50.40	-	\$	70.35
	\$	170.90	N/A	3/1/2026	3/31/2027	5.00%	\$	61.98	\$	52.92	-	\$	73.87
	\$	179.45	N/A	3/1/2027	3/31/2028	5.00%	\$	65.08	\$	55.57	-	\$	77.56
	\$	188.42	N/A	3/1/2028	3/31/2029	5.00%	\$	68.34	\$	58.34	-	\$	81.44
Sr. Inspector* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	135.99	N/A	3/1/2024	3/31/2025		\$	49.32	\$	42.00	-	\$	60.00
	\$	142.79	N/A	3/1/2025	3/31/2026	5.00%	\$	51.79	\$	44.10	-	\$	63.00
	\$	149.93	N/A	3/1/2026	3/31/2027	5.00%	\$	54.38	\$	46.31	-	\$	66.15
	\$	157.42	N/A	3/1/2027	3/31/2028	5.00%	\$	57.09	\$	48.62	-	\$	69.46
	\$	165.29	N/A	3/1/2028	3/31/2029	5.00%	\$	59.95	\$	51.05	-	\$	72.93
Inspector* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	114.01	N/A	3/1/2024	3/31/2025		\$	41.35	\$	34.00	-	\$	52.00
	\$	119.71	N/A	3/1/2025	3/31/2026	5.00%	\$	43.42	\$	35.70	-	\$	54.60
	\$	125.70	N/A	3/1/2026	3/31/2027	5.00%	\$	45.59	\$	37.49	-	\$	57.33
	\$	131.98	N/A	3/1/2027	3/31/2028	5.00%	\$	47.87	\$	39.36	-	\$	60.20
	\$	138.58	N/A	3/1/2028	3/31/2029	5.00%	\$	50.26	\$	41.33	-	\$	63.21
Inspector - Apprentice* (Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	81.01	N/A	3/1/2024	3/31/2025		\$	28.28	\$	21.00	-	\$	40.00
	\$	85.06	N/A	3/1/2025	3/31/2026	5.00%	\$	29.69	\$	22.05	-	\$	42.00
	\$	89.31	N/A	3/1/2026	3/31/2027	5.00%	\$	31.18	\$	23.15	-	\$	44.10
	\$	93.78	N/A	3/1/2027	3/31/2028	5.00%	\$	32.74	\$	24.31	-	\$	46.31
	\$	98.47	N/A	3/1/2028	3/31/2029	5.00%	\$	34.37	\$	25.53	-	\$	48.62
Area Manager - CM	\$	370.00	N/A	3/1/2024	3/31/2025		\$	134.19	\$	105.00	-	\$	145.00
	\$	388.50	N/A	3/1/2025	3/31/2026	5.00%	\$	140.90	\$	110.25	-	\$	152.25
	\$	407.92	N/A	3/1/2026	3/31/2027	5.00%	\$	147.94	\$	115.76	-	\$	159.86

	\$	428.32	N/A	3/1/2027	3/31/2028	5.00%	\$	155.34	\$	121.55	-	\$	167.86
	\$	449.73	N/A	3/1/2028	3/31/2029	5.00%	\$	163.11	\$	127.63	-	\$	176.25
Division Manager - CM	\$	340.00	N/A	3/1/2024	3/31/2025		\$	123.31	\$	105.00	-	\$	134.00
	\$	357.00	N/A	3/1/2025	3/31/2026	5.00%	\$	129.48	\$	110.25	-	\$	140.70
	\$	374.85	N/A	3/1/2026	3/31/2027	5.00%	\$	135.95	\$	115.76	-	\$	147.74
	\$	393.59	N/A	3/1/2027	3/31/2028	5.00%	\$	142.75	\$	121.55	-	\$	155.12
	\$	413.27	N/A	3/1/2028	3/31/2029	5.00%	\$	149.88	\$	127.63	-	\$	162.88
Sr. Resident Engineer	\$	295.99	N/A	3/1/2024	3/31/2025		\$	107.35	\$	90.00	-	\$	118.00
	\$	310.79	N/A	3/1/2025	3/31/2026	5.00%	\$	112.72	\$	94.50	-	\$	123.90
	\$	326.33	N/A	3/1/2026	3/31/2027	5.00%	\$	118.35	\$	99.23	-	\$	130.10
	\$	342.65	N/A	3/1/2027	3/31/2028	5.00%	\$	124.27	\$	104.19	-	\$	136.60
	\$	359.78	N/A	3/1/2028	3/31/2029	5.00%	\$	130.48	\$	109.40	-	\$	143.43
Sr. Project Manager - CM	\$	280.99	N/A	3/1/2024	3/31/2025		\$	101.91	\$	80.00	-	\$	112.00
	\$	295.04	N/A	3/1/2025	3/31/2026	5.00%	\$	107.01	\$	84.00	-	\$	117.60
	\$	309.79	N/A	3/1/2026	3/31/2027	5.00%	\$	112.36	\$	88.20	-	\$	123.48
	\$	325.28	N/A	3/1/2027	3/31/2028	5.00%	\$	117.97	\$	92.61	-	\$	129.65
	\$	341.55	N/A	3/1/2028	3/31/2029	5.00%	\$	123.87	\$	97.24	-	\$	136.14
Project Manager - CM	\$	256.01	N/A	3/1/2024	3/31/2025		\$	92.85	\$	72.00	-	\$	103.00
	\$	268.81	N/A	3/1/2025	3/31/2026	5.00%	\$	97.49	\$	75.60	-	\$	108.15
	\$	282.25	N/A	3/1/2026	3/31/2027	5.00%	\$	102.37	\$	79.38	-	\$	113.56
	\$	296.37	N/A	3/1/2027	3/31/2028	5.00%	\$	107.49	\$	83.35	-	\$	119.24
	\$	311.18	N/A	3/1/2028	3/31/2029	5.00%	\$	112.86	\$	87.52	-	\$	125.20
Resident Engineer	\$	254.00	N/A	3/1/2024	3/31/2025		\$	92.12	\$	72.00	-	\$	103.00
	\$	266.70	N/A	3/1/2025	3/31/2026	5.00%	\$	96.73	\$	75.60	-	\$	108.15
	\$	280.03	N/A	3/1/2026	3/31/2027	5.00%	\$	101.56	\$	79.38	-	\$	113.56
	\$	294.04	N/A	3/1/2027	3/31/2028	5.00%	\$	106.64	\$	83.35	-	\$	119.24
	\$	308.74	N/A	3/1/2028	3/31/2029	5.00%	\$	111.97	\$	87.52	-	\$	125.20
Project Controls/Scheduler	\$	213.00	N/A	3/1/2024	3/31/2025		\$	77.25	\$	53.00	-	\$	88.00
	\$	223.65	N/A	3/1/2025	3/31/2026	5.00%	\$	81.11	\$	55.65	-	\$	92.40
	\$	234.83	N/A	3/1/2026	3/31/2027	5.00%	\$	85.17	\$	58.43	-	\$	97.02
	\$	246.57	N/A	3/1/2027	3/31/2028	5.00%	\$	89.43	\$	61.35	-	\$	101.87
	\$	258.90	N/A	3/1/2028	3/31/2029	5.00%	\$	93.90	\$	64.42	-	\$	106.96
Inspector - CM*	\$	213.99	N/A	3/1/2024	3/31/2025		\$	77.61	\$	43.00	-	\$	88.00
(Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	224.69	N/A	3/1/2025	3/31/2026	5.00%	\$	81.49	\$	45.15	-	\$	92.40
	\$	235.93	N/A	3/1/2026	3/31/2027	5.00%	\$	85.57	\$	47.41	-	\$	97.02
	\$	247.72	N/A	3/1/2027	3/31/2028	5.00%	\$	89.84	\$	49.78	-	\$	101.87
	\$	260.11	N/A	3/1/2028	3/31/2029	5.00%	\$	94.34	\$	52.27	-	\$	106.96
Asst. Resident Engineer*	\$	217.00	N/A	3/1/2024	3/31/2025		\$	78.70	\$	55.00	-	\$	89.00
(Prevailing wage is based on our union contract which sets the wage. For proposal purposes, we have estimated escalation date and rate)	\$	227.85	N/A	3/1/2025	3/31/2026	5.00%	\$	82.64	\$	57.75	-	\$	93.45
	\$	239.24	N/A	3/1/2026	3/31/2027	5.00%	\$	86.77	\$	60.64	-	\$	98.12
	\$	251.20	N/A	3/1/2027	3/31/2028	5.00%	\$	91.11	\$	63.67	-	\$	103.03
	\$	263.76	N/A	3/1/2028	3/31/2029	5.00%	\$	95.66	\$	66.85	-	\$	108.18

Office Engineer	\$	153.99	N/A	3/1/2024	3/31/2025		\$	55.85	\$	38.00	-	\$	66.00
	\$	161.69	N/A	3/1/2025	3/31/2026	5.00%	\$	58.64	\$	39.90	-	\$	69.30
	\$	169.78	N/A	3/1/2026	3/31/2027	5.00%	\$	61.57	\$	41.90	-	\$	72.77
	\$	178.27	N/A	3/1/2027	3/31/2028	5.00%	\$	64.65	\$	43.99	-	\$	76.40
	\$	187.18	N/A	3/1/2028	3/31/2029	5.00%	\$	67.89	\$	46.19	-	\$	80.22
	\$	81.01	N/A	3/1/2024	3/31/2025		\$	29.38	\$	22.00	-	\$	40.00
Office Technician	\$	85.06	N/A	3/1/2025	3/31/2026	5.00%	\$	30.85	\$	23.10	-	\$	42.00
	\$	89.31	N/A	3/1/2026	3/31/2027	5.00%	\$	32.39	\$	24.26	-	\$	44.10
	\$	93.78	N/A	3/1/2027	3/31/2028	5.00%	\$	34.01	\$	25.47	-	\$	46.31
	\$	98.47	N/A	3/1/2028	3/31/2029	5.00%	\$	35.71	\$	26.74	-	\$	48.62
	\$	493.99	N/A	3/1/2024	3/31/2025		\$	179.16	\$	170.00	-	\$	185.00
	\$	518.69	N/A	3/1/2025	3/31/2026	5.00%	\$	188.12	\$	178.50	-	\$	194.25
Expert Witness	\$	544.62	N/A	3/1/2026	3/31/2027	5.00%	\$	197.52	\$	187.43	-	\$	203.96
	\$	571.86	N/A	3/1/2027	3/31/2028	5.00%	\$	207.40	\$	196.80	-	\$	214.16
	\$	600.45	N/A	3/1/2028	3/31/2029	5.00%	\$	217.77	\$	206.64	-	\$	224.87
	\$	493.99	N/A	3/1/2024	3/31/2025		\$	179.16	\$	170.00	-	\$	185.00
	\$	518.69	N/A	3/1/2025	3/31/2026	5.00%	\$	188.12	\$	178.50	-	\$	194.25
	\$	544.62	N/A	3/1/2026	3/31/2027	5.00%	\$	197.52	\$	187.43	-	\$	203.96
Strategic Consulting	\$	571.86	N/A	3/1/2027	3/31/2028	5.00%	\$	207.40	\$	196.80	-	\$	214.16
	\$	600.45	N/A	3/1/2028	3/31/2029	5.00%	\$	217.77	\$	206.64	-	\$	224.87
	\$	493.99	N/A	3/1/2024	3/31/2025		\$	179.16	\$	170.00	-	\$	185.00
	\$	518.69	N/A	3/1/2025	3/31/2026	5.00%	\$	188.12	\$	178.50	-	\$	194.25
	\$	544.62	N/A	3/1/2026	3/31/2027	5.00%	\$	197.52	\$	187.43	-	\$	203.96
	\$	571.86	N/A	3/1/2027	3/31/2028	5.00%	\$	207.40	\$	196.80	-	\$	214.16
Funding Manager	\$	600.45	N/A	3/1/2028	3/31/2029	5.00%	\$	217.77	\$	206.64	-	\$	224.87
	\$	284.99	N/A	3/1/2024	3/31/2025		\$	103.36	\$	88.00	-	\$	114.00
	\$	299.24	N/A	3/1/2025	3/31/2026	5.00%	\$	108.53	\$	92.40	-	\$	119.70
	\$	314.20	N/A	3/1/2026	3/31/2027	5.00%	\$	113.95	\$	97.02	-	\$	125.69
	\$	329.91	N/A	3/1/2027	3/31/2028	5.00%	\$	119.65	\$	101.87	-	\$	131.97
	\$	346.41	N/A	3/1/2028	3/31/2029	5.00%	\$	125.63	\$	106.96	-	\$	138.57
Sr. Funding Specialist	\$	185.01	N/A	3/1/2024	3/31/2025		\$	67.10	\$	52.00	-	\$	78.00
	\$	194.26	N/A	3/1/2025	3/31/2026	5.00%	\$	70.46	\$	54.60	-	\$	81.90
	\$	203.98	N/A	3/1/2026	3/31/2027	5.00%	\$	73.98	\$	57.33	-	\$	86.00
	\$	214.17	N/A	3/1/2027	3/31/2028	5.00%	\$	77.68	\$	60.20	-	\$	90.29
	\$	224.88	N/A	3/1/2028	3/31/2029	5.00%	\$	81.56	\$	63.21	-	\$	94.81
	\$	157.00	N/A	3/1/2024	3/31/2025		\$	56.94	\$	38.00	-	\$	67.00
Funding Specialist	\$	164.85	N/A	3/1/2025	3/31/2026	5.00%	\$	59.79	\$	39.90	-	\$	70.35
	\$	173.09	N/A	3/1/2026	3/31/2027	5.00%	\$	62.78	\$	41.90	-	\$	73.87
	\$	181.75	N/A	3/1/2027	3/31/2028	5.00%	\$	65.92	\$	43.99	-	\$	77.56
	\$	190.83	N/A	3/1/2028	3/31/2029	5.00%	\$	69.21	\$	46.19	-	\$	81.44
	\$	185.01	N/A	3/1/2024	3/31/2025		\$	67.10	\$	55.00	-	\$	78.00
	\$	194.26	N/A	3/1/2025	3/31/2026	5.00%	\$	70.46	\$	57.75	-	\$	81.90
Project Accountant Manager	\$	203.98	N/A	3/1/2026	3/31/2027	5.00%	\$	73.98	\$	60.64	-	\$	86.00
	\$	214.17	N/A	3/1/2027	3/31/2028	5.00%	\$	77.68	\$	63.67	-	\$	90.29
	\$	224.88	N/A	3/1/2028	3/31/2029	5.00%	\$	81.56	\$	66.85	-	\$	94.81
	\$	146.00	N/A	3/1/2024	3/31/2025		\$	52.95	\$	41.00	-	\$	63.00
	\$	153.30	N/A	3/1/2025	3/31/2026	5.00%	\$	55.60	\$	43.05	-	\$	66.15
	\$						\$		\$		-	\$	

	\$	160.96	N/A	3/1/2026	3/31/2027	5.00%	\$	58.38	\$	45.20	-	\$	69.46
	\$	169.01	N/A	3/1/2027	3/31/2028	5.00%	\$	61.30	\$	47.46	-	\$	72.93
	\$	177.46	N/A	3/1/2028	3/31/2029	5.00%	\$	64.36	\$	49.84	-	\$	76.58
Project Accountant	\$	129.01	N/A	3/1/2024	3/31/2025		\$	46.79	\$	36.00	-	\$	57.00
	\$	135.46	N/A	3/1/2025	3/31/2026	5.00%	\$	49.13	\$	37.80	-	\$	59.85
	\$	142.24	N/A	3/1/2026	3/31/2027	5.00%	\$	51.59	\$	39.69	-	\$	62.84
	\$	149.35	N/A	3/1/2027	3/31/2028	5.00%	\$	54.17	\$	41.67	-	\$	65.98
	\$	156.82	N/A	3/1/2028	3/31/2029	5.00%	\$	56.87	\$	43.76	-	\$	69.28
Sr. Project Coordinator	\$	145.00	N/A	3/1/2024	3/31/2025		\$	52.59	\$	43.00	-	\$	63.00
	\$	152.25	N/A	3/1/2025	3/31/2026	5.00%	\$	55.22	\$	45.15	-	\$	66.15
	\$	159.87	N/A	3/1/2026	3/31/2027	5.00%	\$	57.98	\$	47.41	-	\$	69.46
	\$	167.86	N/A	3/1/2027	3/31/2028	5.00%	\$	60.88	\$	49.78	-	\$	72.93
	\$	176.25	N/A	3/1/2028	3/31/2029	5.00%	\$	63.92	\$	52.27	-	\$	76.58
Project Coordinator	\$	115.01	N/A	3/1/2024	3/31/2025		\$	41.71	\$	33.00	-	\$	52.00
	\$	120.76	N/A	3/1/2025	3/31/2026	5.00%	\$	43.80	\$	34.65	-	\$	54.60
	\$	126.79	N/A	3/1/2026	3/31/2027	5.00%	\$	45.99	\$	36.38	-	\$	57.33
	\$	133.13	N/A	3/1/2027	3/31/2028	5.00%	\$	48.28	\$	38.20	-	\$	60.20
	\$	139.79	N/A	3/1/2028	3/31/2029	5.00%	\$	50.70	\$	40.11	-	\$	63.21

Sr. Project Assistant	\$	114.01	N/A	3/1/2024	3/31/2025		\$	41.35	\$	34.00	-	\$	52.00
	\$	119.71	N/A	3/1/2025	3/31/2026	5.00%	\$	43.42	\$	35.70	-	\$	54.60
	\$	125.70	N/A	3/1/2026	3/31/2027	5.00%	\$	45.59	\$	37.49	-	\$	57.33
	\$	131.98	N/A	3/1/2027	3/31/2028	5.00%	\$	47.87	\$	39.36	-	\$	60.20
	\$	138.58	N/A	3/1/2028	3/31/2029	5.00%	\$	50.26	\$	41.33	-	\$	63.21
Project Assistant	\$	88.01	N/A	3/1/2024	3/31/2025		\$	31.92	\$	24.00	-	\$	42.00
	\$	92.41	N/A	3/1/2025	3/31/2026	5.00%	\$	33.52	\$	25.20	-	\$	44.10
	\$	97.03	N/A	3/1/2026	3/31/2027	5.00%	\$	35.19	\$	26.46	-	\$	46.31
	\$	101.88	N/A	3/1/2027	3/31/2028	5.00%	\$	36.95	\$	27.78	-	\$	48.62
	\$	106.98	N/A	3/1/2028	3/31/2029	5.00%	\$	38.80	\$	29.17	-	\$	51.05
Sr. Technical Writer	\$	135.00	N/A	3/1/2024	3/31/2025		\$	48.96	\$	35.00	-	\$	59.00
	\$	141.75	N/A	3/1/2025	3/31/2026	5.00%	\$	51.41	\$	36.75	-	\$	61.95
	\$	148.83	N/A	3/1/2026	3/31/2027	5.00%	\$	53.98	\$	38.59	-	\$	65.05
	\$	156.27	N/A	3/1/2027	3/31/2028	5.00%	\$	56.68	\$	40.52	-	\$	68.30
	\$	164.09	N/A	3/1/2028	3/31/2029	5.00%	\$	59.51	\$	42.54	-	\$	71.71
Technical Writer	\$	88.01	N/A	3/1/2024	3/31/2025		\$	31.92	\$	21.00	-	\$	42.00
	\$	92.41	N/A	3/1/2025	3/31/2026	5.00%	\$	33.52	\$	22.05	-	\$	44.10
	\$	97.03	N/A	3/1/2026	3/31/2027	5.00%	\$	35.19	\$	23.15	-	\$	46.31
	\$	101.88	N/A	3/1/2027	3/31/2028	5.00%	\$	36.95	\$	24.31	-	\$	48.62
	\$	106.98	N/A	3/1/2028	3/31/2029	5.00%	\$	38.80	\$	25.53	-	\$	51.05
Sr. Graphic Manager	\$	172.99	N/A	3/1/2024	3/31/2025		\$	62.74	\$	50.00	-	\$	73.00
	\$	181.64	N/A	3/1/2025	3/31/2026	5.00%	\$	65.88	\$	52.50	-	\$	76.65
	\$	190.72	N/A	3/1/2026	3/31/2027	5.00%	\$	69.17	\$	55.13	-	\$	80.48
	\$	200.26	N/A	3/1/2027	3/31/2028	5.00%	\$	72.63	\$	57.88	-	\$	84.51
	\$	210.27	N/A	3/1/2028	3/31/2029	5.00%	\$	76.26	\$	60.78	-	\$	88.73
Sr. Graphic Designer	\$	148.01	N/A	3/1/2024	3/31/2025		\$	53.68	\$	40.00	-	\$	64.00
	\$	155.41	N/A	3/1/2025	3/31/2026	5.00%	\$	56.36	\$	42.00	-	\$	67.20
	\$	163.18	N/A	3/1/2026	3/31/2027	5.00%	\$	59.18	\$	44.10	-	\$	70.56
	\$	171.34	N/A	3/1/2027	3/31/2028	5.00%	\$	62.14	\$	46.31	-	\$	74.09
	\$	179.91	N/A	3/1/2028	3/31/2029	5.00%	\$	65.25	\$	48.62	-	\$	77.79
Graphic Designer	\$	126.01	N/A	3/1/2024	3/31/2025		\$	45.70	\$	35.00	-	\$	56.00
	\$	132.31	N/A	3/1/2025	3/31/2026	5.00%	\$	47.99	\$	36.75	-	\$	58.80
	\$	138.92	N/A	3/1/2026	3/31/2027	5.00%	\$	50.38	\$	38.59	-	\$	61.74
	\$	145.87	N/A	3/1/2027	3/31/2028	5.00%	\$	52.90	\$	40.52	-	\$	64.83
	\$	153.16	N/A	3/1/2028	3/31/2029	5.00%	\$	55.55	\$	42.54	-	\$	68.07

1. Names and classifications of consultant (key staff) team members must be listed. Provide separate sheets for prime and all subconsultant firms.

2. Billing rate = actual hourly rate * (1+ ICR) * (1+ Fee). Agreed upon billing rates are not adjustable for the term of contract.

3. For named employees enter the actual hourly rate. For classifications only, enter the average hourly rate for that classification.

Note:

• Denote all employees subject to prevailing wage with an asterisks (*)

• For "Other Direct Cost" listing, see page 2 of this Exhibit

Consultant: Mark Thomas & Company, Inc.

☒ Prime Consultant

☐ Subconsultant

☐ 2nd Tier Subconsultant

Project No. _____

Contract No. _____

Date: 3/4/2024

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)					
Description of Item	Quantity	Unit	Unit Cost	Total	
Mileage Costs	800	EA	\$ 0.67	\$ 536.00	
Reproductions (half sheet)			At Cost	\$ -	
Reproductions (whole sheet)			At Cost	\$ -	
Postage/Delivery/Overnight			At Cost	\$ -	
Per Diem			\$		
Lodging			At Cost	\$ -	
Traffic Control			At Cost	\$ -	
Misc. Surveys (Maps, PTR's etc.)			\$		
Potholing			\$		
Subconsultant 1:					
Subconsultant 2:					
Subconsultant 3:					
Subconsultant 4:					
Subconsultant 5:					

NOTES:

1. List direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentations.
2. Proposed ODC items should be consistently billed regardless of client and contract type.
3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice)
5. Items listed above that would be considered "tools of the trade" are not reimbursable as other direct cost
6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.


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 Ccode 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:	Matt Brogan	Title *:	Principal + Vice President
Signature:		Date of Certification:	3/4/2024
Email:	mbrogan@markthomas.com	Phone number:	(916) 381-9100
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:

Specific Rate of Compensation (On-Call or As-Needed Contracts)

Note: Mark-ups are Not Allowed

Consultant: GPA Consulting

☐ Prime Consultant☒ Subconsultant☐ 2nd Tier SubconsultantProject: Manter Meadow Drive over Capinero

Contract No. _____

Participation Amount \$ 202,460Date 5/17/2024

For Combined Rate

Fringe Benefit XX.XX% + General & Administrative XX.XX%

=

Combined

177.39%

For Home Office Rate

Fringe Benefit ____% + General & Administrative ____%

=

Home Office ____%

For Field Office Rate

Fringe Benefit ____% + General & Administrative ____%

=

Field Office ____%

Fee

=

10%

BILLING INFORMATION

CALCULATION INFORMATION

Name/Classification	Loaded Hourly Billing Rates		Effective Date of Hourly Rate		% Escalation Increase	Actual Hourly Rate and/or Average Hourly Rate	Hourly Range for Class
	Straight	Overtime	From	To			
Marieka Schrader	\$ 227.38	\$ 341.07	7/1/2023	6/30/2024		\$ 74.52	\$ 60.00 - \$ 95.00
Senior Associate Environmental Planner/ Biologist	\$ 238.75	\$ 358.13	7/1/2024	6/30/2025	5.00%	\$ 78.25	\$ 63.00 - \$ 99.75
	\$ 250.69	\$ 376.03	7/1/2025	6/30/2026	5.00%	\$ 82.16	\$ 66.15 - \$ 104.74
	\$ 263.22	\$ 394.83	7/1/2026	6/30/2027	5.00%	\$ 86.27	\$ 69.46 - \$ 109.97
	\$ 276.38	\$ 414.58	7/1/2027	6/30/2028	5.00%	\$ 90.58	\$ 72.93 - \$ 115.47
Laura Comstock	\$ 199.80	\$ 299.70	7/1/2023	6/30/2024		\$ 65.48	\$ 45.00 - \$ 66.00
Senior Associate Environmental Planner	\$ 209.79	\$ 314.68	7/1/2024	6/30/2025	5.00%	\$ 68.75	\$ 47.25 - \$ 69.30
	\$ 220.28	\$ 330.42	7/1/2025	6/30/2026	5.00%	\$ 72.19	\$ 49.61 - \$ 72.77
	\$ 231.29	\$ 346.94	7/1/2026	6/30/2027	5.00%	\$ 75.80	\$ 52.09 - \$ 76.40
	\$ 242.86	\$ 364.28	7/1/2027	6/30/2028	5.00%	\$ 79.59	\$ 54.70 - \$ 80.22
Principal	\$ 305.13	\$ 457.69	7/1/2023	6/30/2024		\$ 100.00	\$ 79.00 - \$ 121.00
(Environmental Planner, Architectural Historian, Biologist)	\$ 320.39	\$ 480.58	7/1/2024	6/30/2025	5.00%	\$ 105.00	\$ 82.95 - \$ 127.05
	\$ 336.40	\$ 504.61	7/1/2025	6/30/2026	5.00%	\$ 110.25	\$ 87.10 - \$ 133.40
	\$ 353.22	\$ 529.84	7/1/2026	6/30/2027	5.00%	\$ 115.76	\$ 91.45 - \$ 140.07
	\$ 370.89	\$ 556.33	7/1/2027	6/30/2028	5.00%	\$ 121.55	\$ 96.02 - \$ 147.08
Senior Associate	\$ 236.47	\$ 354.71	7/1/2023	6/30/2024		\$ 77.50	\$ 60.00 - \$ 95.00
(Environmental Planner, Architectural Historian, Biologist)	\$ 248.30	\$ 372.45	7/1/2024	6/30/2025	5.00%	\$ 81.38	\$ 63.00 - \$ 99.75
	\$ 260.71	\$ 391.07	7/1/2025	6/30/2026	5.00%	\$ 85.44	\$ 66.15 - \$ 104.74
	\$ 273.75	\$ 410.62	7/1/2026	6/30/2027	5.00%	\$ 89.72	\$ 69.46 - \$ 109.97
	\$ 287.44	\$ 431.16	7/1/2027	6/30/2028	5.00%	\$ 94.20	\$ 72.93 - \$ 115.47
Senior	\$ 169.35	\$ 254.02	7/1/2023	6/30/2024		\$ 55.50	\$ 45.00 - \$ 66.00
(Environmental Planner, Architectural Historian, Biologist, GIS Analyst)	\$ 177.81	\$ 266.72	7/1/2024	6/30/2025	5.00%	\$ 58.28	\$ 47.25 - \$ 69.30
	\$ 186.70	\$ 280.06	7/1/2025	6/30/2026	5.00%	\$ 61.19	\$ 49.61 - \$ 72.77
	\$ 196.04	\$ 294.06	7/1/2026	6/30/2027	5.00%	\$ 64.25	\$ 52.09 - \$ 76.40
	\$ 205.84	\$ 308.76	7/1/2027	6/30/2028	5.00%	\$ 67.46	\$ 54.70 - \$ 80.22
Associate	\$ 117.47	\$ 176.21	7/1/2023	6/30/2024		\$ 38.50	\$ 31.00 - \$ 46.00
(Environmental Planner, Architectural Historian, Biologist, GIS Analyst/Biologist)	\$ 123.35	\$ 185.02	7/1/2024	6/30/2025	5.00%	\$ 40.43	\$ 32.55 - \$ 48.30
	\$ 129.52	\$ 194.27	7/1/2025	6/30/2026	5.00%	\$ 42.45	\$ 34.18 - \$ 50.72
	\$ 135.99	\$ 203.99	7/1/2026	6/30/2027	5.00%	\$ 44.57	\$ 35.89 - \$ 53.25
	\$ 142.79	\$ 214.19	7/1/2027	6/30/2028	5.00%	\$ 46.80	\$ 37.68 - \$ 55.91
Environmental Planner	\$ 93.06	\$ 139.60	7/1/2023	6/30/2024		\$ 30.50	\$ 26.00 - \$ 35.00
	\$ 97.72	\$ 146.58	7/1/2024	6/30/2025	5.00%	\$ 32.03	\$ 27.30 - \$ 36.75
	\$ 102.60	\$ 153.91	7/1/2025	6/30/2026	5.00%	\$ 33.63	\$ 28.67 - \$ 38.59
	\$ 107.73	\$ 161.60	7/1/2026	6/30/2027	5.00%	\$ 35.31	\$ 30.10 - \$ 40.52
	\$ 113.12	\$ 169.68	7/1/2027	6/30/2028	5.00%	\$ 37.07	\$ 31.60 - \$ 42.54
Biologist	\$ 93.06	\$ 139.60	7/1/2023	6/30/2024		\$ 30.50	\$ 26.00 - \$ 35.00
	\$ 97.72	\$ 146.58	7/1/2024	6/30/2025	5.00%	\$ 32.03	\$ 27.30 - \$ 36.75
	\$ 102.60	\$ 153.91	7/1/2025	6/30/2026	5.00%	\$ 33.63	\$ 28.67 - \$ 38.59
	\$ 107.73	\$ 161.60	7/1/2026	6/30/2027	5.00%	\$ 35.31	\$ 30.10 - \$ 40.52
	\$ 113.12	\$ 169.68	7/1/2027	6/30/2028	5.00%	\$ 37.07	\$ 31.60 - \$ 42.54

Project Coordinator	\$ 37.00	\$ 169.35	7/1/2023	6/30/2024		\$ 37.00	\$ 31.00	-	\$ 43.00
	\$ 38.85	\$ 177.81	7/1/2024	6/30/2025	5.00%	\$ 38.85	\$ 32.55	-	\$ 45.15
	\$ 40.79	\$ 186.70	7/1/2025	6/30/2026	5.00%	\$ 40.79	\$ 34.18	-	\$ 47.41
	\$ 42.83	\$ 196.04	7/1/2026	6/30/2027	5.00%	\$ 42.83	\$ 35.89	-	\$ 49.78
	\$ 44.97	\$ 205.84	7/1/2027	6/30/2028	5.00%	\$ 44.97	\$ 37.68	-	\$ 52.27
Architectural Historian II	\$ 93.06	\$ 139.60	7/1/2023	6/30/2024		\$ 30.50	\$ 26.00	-	\$ 35.00
	\$ 97.72	\$ 146.58	7/1/2024	6/30/2025	5.00%	\$ 32.03	\$ 27.30	-	\$ 36.75
	\$ 102.60	\$ 153.91	7/1/2025	6/30/2026	5.00%	\$ 33.63	\$ 28.67	-	\$ 38.59
	\$ 107.73	\$ 161.60	7/1/2026	6/30/2027	5.00%	\$ 35.31	\$ 30.10	-	\$ 40.52
	\$ 113.12	\$ 169.68	7/1/2027	6/30/2028	5.00%	\$ 37.07	\$ 31.60	-	\$ 42.54
Architectural Historian I	\$ 73.23	\$ 109.85	7/1/2023	6/30/2024		\$ 24.00	\$ 21.00	-	\$ 27.00
	\$ 76.89	\$ 115.34	7/1/2024	6/30/2025	5.00%	\$ 25.20	\$ 22.05	-	\$ 28.35
	\$ 80.74	\$ 121.11	7/1/2025	6/30/2026	5.00%	\$ 26.46	\$ 23.15	-	\$ 29.77
	\$ 84.77	\$ 127.16	7/1/2026	6/30/2027	5.00%	\$ 27.78	\$ 24.31	-	\$ 31.26
	\$ 89.01	\$ 133.52	7/1/2027	6/30/2028	5.00%	\$ 29.17	\$ 25.53	-	\$ 32.82

1. Names and classifications of consultant (key staff) team members must be listed. Provide separate sheets for prime and all subconsultant firms.

2. Billing rate = actual hourly rate * (1+ ICR) * (1+ Fee). Agreed upon billing rates are not adjustable for the term of contract.

3. For named employees enter the actual hourly rate. For classifications only, enter the average hourly rate for that classification.

Note:

• Denote all employees subject to prevailing wage with an asterisks (*)

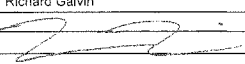
• For "Other Direct Cost" listing, see page 2 of this Exhibit

Consultant: GPA Consulting ☐ Prime Consultant ☒ Subconsultant ☐ 2nd Tier Subconsultant

Project No. Manter Meadow Drive over Capinero Contract No. _____ Date: _____

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)				
Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs			IRS Rate	
Reproduction, Plotting, Shipping, Mailing, Lodging, Meals			At Cost	
Traffic Control			At Cost	\$ -
Subconsultant 1: Live Oak Associates, Inc.				At Cost
Subconsultant 2: Crawford & Associates				At Cost
Subconsultant 3: Duke CRM				At Cost
Subconsultant 4: Ambient				At Cost

- NOTES:**
- 1. List direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentations.
 - 2. Proposed ODC items should be consistently billed regardless of client and contract type.
 - 3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
 - 4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice)
 - 5. Items listed above that would be considered "tools of the trade" are not reimburseable as other direct cost.
 - 6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.

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: Richard Galvin	Title *: Vice President	
Signature: 	Date of Certification: 3/6/2024	
Email: richard@gpaconsulting-us.com	Phone number: 310-792-2690 x102	
Address: 840 Apollo Street, Suite 312, El Segundo CA 90245		
* 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 Consulting Services		

Local Assistance Procedures Manual

Exhibit 10-H2

Cost Proposal

EXHIBIT 10-H2 COST PROPOSAL Page 1 of 3
SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Note: Mark-ups are Not Allowed

Consultant **Avila and Associates Consulting Engineers, Inc.** ☐ Prime Consultant ☒ Subconsultant ☐ 2nd Tier Subconsultant

Project No. **M43 (Manter Meadow Drive) over Capinero Creek** Contract No. _____ Participation Amount \$ **37,470** Date **5/17/2024**

For Combined Rate	Fringe Benefit % + General & Administrative% + Facilities Capital Cost of Money%	=	117.77%	Combined ICR %
OR				

For Home Office	Fringe Benefit % + General & Administrative% + Facilities Capital Cost of Money%	=		Home Office ICR %
For Home Office	Fringe Benefit % + General & Administrative% + Facilities Capital Cost of Money%	=		Field Office ICR %

FEE % = **10%**% Increase **5.00%****BILLING INFORMATION****CALCULATION INFORMATION**

Name/Job Title/Classification ¹	Hourly Billing Rates ²			Effective date of hourly rate		Actual or Avg. hourly rate ³	% or \$ increase	Hourly range - for classifications only		Billing Rate Range for classification
	Straight	OT(1.5x)	OT(2x)	From	To					
Cathy Avila, Project Manager Exempt	\$227.57	n/a	n/a	1/1/2024	12/31/2024	\$95.00	0.00%			
	\$238.95	n/a	n/a	1/1/2025	12/31/2025	\$99.75	5.00%	Not Applicable		Not Applicable
	\$250.90	n/a	n/a	1/1/2026	12/31/2026	\$104.74	5.00%	Not Applicable		Not Applicable
	\$263.44	n/a	n/a	1/1/2027	12/31/2027	\$109.97	5.00%	Not Applicable		Not Applicable
	\$276.61	n/a	n/a	1/1/2028	12/31/2028	\$115.47	5.00%	Not Applicable		Not Applicable
Todd Remington, Senior Engineer Hourly	\$290.44	n/a	n/a	1/1/2029	12/31/2029	\$121.25	5.00%	Not Applicable		Not Applicable
	\$168.88	\$204.13	\$239.38	1/1/2024	12/31/2024	\$70.50	0.00%			
	\$177.32	\$214.34	\$251.35	1/1/2025	12/31/2025	\$74.03	5.00%	Not Applicable		Not Applicable
	\$186.19	\$225.05	\$263.92	1/1/2026	12/31/2026	\$77.73	5.00%	Not Applicable		Not Applicable
	\$195.50	\$236.31	\$277.11	1/1/2027	12/31/2027	\$81.61	5.00%	Not Applicable		Not Applicable
Katherine Gwynn Assistant Engr. Exempt	\$205.28	\$248.12	\$290.97	1/1/2028	12/31/2028	\$85.69	5.00%	Not Applicable		Not Applicable
	\$215.54	\$260.53	\$305.52	1/1/2029	12/31/2029	\$89.98	5.00%	Not Applicable		Not Applicable
	\$108.99			1/1/2024	12/31/2024	\$45.50	0.00%			
	\$114.44			1/1/2025	12/31/2025	\$47.78	5.00%	Not Applicable		Not Applicable
	\$120.17			1/1/2026	12/31/2026	\$50.16	5.00%	Not Applicable		Not Applicable
Associate Engineer Hourly	\$126.17			1/1/2027	12/31/2027	\$52.67	5.00%	Not Applicable		Not Applicable
	\$132.48			1/1/2028	12/31/2028	\$55.31	5.00%	Not Applicable		Not Applicable
	\$139.11			1/1/2029	12/31/2029	\$58.07	5.00%	Not Applicable		Not Applicable
	\$134.75	\$162.87	\$191.00	1/1/2024	12/31/2024	\$56.25	0.00%			
	\$141.48	\$171.01	\$200.54	1/1/2025	12/31/2025	\$59.06	5.00%	Not Applicable		Not Applicable
Junior Civil Engineer	\$148.56	\$179.56	\$210.57	1/1/2026	12/31/2026	\$62.02	5.00%	Not Applicable		Not Applicable
	\$155.98	\$188.54	\$221.10	1/1/2027	12/31/2027	\$65.12	5.00%	Not Applicable		Not Applicable
	\$163.78	\$197.97	\$232.16	1/1/2028	12/31/2028	\$68.37	5.00%	Not Applicable		Not Applicable
	\$171.97	\$207.87	\$243.76	1/1/2029	12/31/2029	\$71.79	5.00%	Not Applicable		Not Applicable
Assistant Engineer	\$97.02	\$117.27	\$137.52	1/1/2024	12/31/2024	\$40.50	0.00%	\$36.00	\$45.00	\$86.24
	\$101.87	\$123.13	\$144.39	1/1/2025	12/31/2025	\$42.53	5.00%	\$37.80	\$47.25	\$90.55
	\$106.96	\$129.29	\$151.61	1/1/2026	12/31/2026	\$44.65	5.00%	\$39.69	\$49.61	\$95.08
	\$112.31	\$135.75	\$159.19	1/1/2027	12/31/2027	\$46.88	5.00%	\$41.67	\$52.09	\$99.83
	\$117.92	\$142.54	\$167.15	1/1/2028	12/31/2028	\$49.23	5.00%	\$43.76	\$54.70	\$104.82
Associate Engineer	\$123.82	\$149.67	\$175.51	1/1/2029	12/31/2029	\$51.69	5.00%	\$45.95	\$57.43	\$110.06
	\$116.78	\$141.15	\$165.53	1/1/2024	12/31/2024	\$48.75	0.00%	\$42.50	\$55.00	\$101.81
	\$122.62	\$148.21	\$173.81	1/1/2025	12/31/2025	\$51.19	5.00%	\$44.63	\$57.75	\$106.90
	\$128.75	\$155.62	\$182.50	1/1/2026	12/31/2026	\$53.75	5.00%	\$46.86	\$60.64	\$112.24
	\$135.19	\$163.40	\$191.62	1/1/2027	12/31/2027	\$56.43	5.00%	\$49.20	\$63.67	\$117.85
Senior Engineer	\$141.95	\$171.57	\$201.20	1/1/2028	12/31/2028	\$59.26	5.00%	\$51.66	\$66.85	\$123.75
	\$149.04	\$180.15	\$211.26	1/1/2029	12/31/2029	\$62.22	5.00%	\$54.24	\$70.20	\$129.94
	\$134.75	\$162.87	\$191.00	1/1/2024	12/31/2024	\$56.25	0.00%	\$50.00	\$62.50	\$119.77
	\$141.48	\$171.01	\$200.54	1/1/2025	12/31/2025	\$59.06	5.00%	\$52.50	\$65.63	\$125.76
	\$148.56	\$179.56	\$210.57	1/1/2026	12/31/2026	\$62.02	5.00%	\$55.13	\$68.91	\$132.05
Administration	\$155.98	\$188.54	\$221.10	1/1/2027	12/31/2027	\$65.12	5.00%	\$57.88	\$72.35	\$138.65
	\$163.78	\$197.97	\$232.16	1/1/2028	12/31/2028	\$68.37	5.00%	\$60.78	\$75.97	\$145.59
	\$171.97	\$207.87	\$243.76	1/1/2029	12/31/2029	\$71.79	5.00%	\$63.81	\$79.77	\$152.86
	\$164.69	\$199.06	\$233.44	1/1/2024	12/31/2024	\$68.75	0.00%	\$62.50	\$75.00	\$149.72
	\$172.92	\$209.02	\$245.11	1/1/2025	12/31/2025	\$72.19	5.00%	\$65.63	\$78.75	\$157.20
Administration	\$179.57	\$219.47	\$257.37	1/1/2026	12/31/2026	\$75.80	5.00%	\$68.91	\$82.69	\$165.06
	\$190.65	\$230.44	\$270.23	1/1/2027	12/31/2027	\$79.59	5.00%	\$72.35	\$86.82	\$173.32
	\$200.18	\$241.96	\$283.75	1/1/2028	12/31/2028	\$83.57	5.00%	\$75.97	\$91.16	\$181.98
	\$210.19	\$254.06	\$297.93	1/1/2029	12/31/2029	\$87.74	5.00%	\$79.77	\$95.72	\$191.08
	\$95.82	\$115.82	\$135.82	1/1/2024	12/31/2024	\$40.00	0.00%	\$30.00	\$50.00	\$71.87
Administration	\$100.61	\$121.61	\$142.61	1/1/2025	12/31/2025	\$42.00	5.00%	\$31.50	\$52.50	\$75.46
	\$105.64	\$127.69	\$149.74	1/1/2026	12/31/2026	\$44.10	5.00%	\$33.08	\$55.13	\$79.24
	\$110.92	\$134.07	\$157.23	1/1/2027	12/31/2027	\$46.31	5.00%	\$34.73	\$57.88	\$83.20
	\$180.59	\$218.28	\$255.98	1/1/2028	12/31/2028	\$75.39	5.00%	\$90.00	\$60.78	\$215.60
	\$189.62	\$229.20	\$268.78	1/1/2029	12/31/2029	\$79.16	5.00%	\$94.50	\$63.81	\$226.38

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.
- Billing rate = actual hourly rate * (1+ICR) * (1+Fee). Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognized agency or accepted by Caltrans. All costs must comply with the Federal cost principles for reimbursement.
- For named employees and key personnel enter the actual hourly rate. For classifications only, enter the Average Hourly Rate for that classification.

EXHIBIT 10-H2 COST PROPOSAL PAGE 2 OF 3**SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)**

(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Consultant **Avila and Associates Consulting E** ☐ Prime Consultant ☒ SubconsultantProject No. 0 Contract No. Date 3/2/2024

SCHEDULE OF OTHER DIRECT COST ITEMS				
SUBCONSULTANT				
DESCRIPTION OF ITEMS	Quantity	Unit	Unit Cost	Total
Mileage (at IRS rates)	tbd	1	\$0.670	#VALUE!
Printing (at cost)	tbd	0	\$0.00	#VALUE!
Shipping (at cost)	tbd	0	\$0.00	#VALUE!
		0	\$0.00	\$0.00
		0	\$0.00	\$0.00
		0	\$0.00	\$0.00
		0	\$0.00	\$0.00
		0	\$0.00	\$0.00
Subconsultant 2: River Focus				\$0.00
Subconsultant 3:				
Subconsultant 4:				
Subconsultant 5:				

Note: Add Additional pages if necessary.

IMPORTANT NOTES:

1. List direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate
2. Proposed ODC items should be consistently billed regardless of client and contract type.
3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice).
5. Items listed above that would be considered "tools of the trade" are not reimbursable as other direct cost.
6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.
7. If mileage is claimed, the rate should be properly supported by the consultant's calculation of their actual costs for company vehicles. In addition, the miles claimed should be supported by mileage logs.
8. If a consultant proposes rental costs for a vehicle, the company must demonstrate that this is their standard procedure for all of their contracts and that they do not own any vehicles that could be used for the same purpose.
9. The cost proposal format shall not be amended. All costs must comply with the Federal cost principles.

EXHIBIT 10-H2 COST PROPOSAL Page 3 of 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 approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Catherine M.C. Avila Title*: President

Signature:  Date of Certification (mm/dd/yyyy): 3/2/2024

Email: cavila@avilaassociates.com Phone Number: 925-673-0549

Address: 712 Bancroft Road #333 Walnut Creek, 94598

*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:

Hydrology, Hydraulic and Scour Analysis Consulting Services

Cost Proposal 2

COST PROPOSAL
SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
 (CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Note: Mark-ups are Not Allowed

Consultant

Earth Mechanics, Inc.

Prime Consultant:

Subconsultant: X

2nd Tier Subconsultant:

Project No. _____

Contract No. _____

Contract Amount 43,220Date: 5/17/2024

For Combined Rate	58.42%	+	112.26%	=	170.68%
Fringe Benefit		+	General Administration		Combined ICR
For Home Office Rate	58.42%	+	112.26%	=	170.68%
Fringe Benefit		+	General Administration		Home Office ICR
For Field Rate	58.42%	+	112.26%	=	170.68%
Fringe Benefit		+	General Administration		Field Office ICR
FEE % =					10.00%

BILLING INFORMATION**CALCULATION INFORMATION**

Name/Job Title/Classification ¹	Hourly Billing Rates ²			Effective date of hourly rate		Actual or Avg. hourly rate ³	% or \$ increase	Hourly range - for classifications only
	Straight	OT(1.5x)	OT(2x)	From	To			
Alahesh Thuraiajah*	\$302.51	\$302.51	\$605.02	6/1/2024	2/1/2025	\$101.60		Not Applicable
Project Manager	\$317.64	\$476.46	\$635.28	2/1/2025	2/1/2026	\$106.68	5.00%	
Principal	\$333.52	\$500.28	\$667.04	2/1/2026	2/1/2027	\$112.01	5.00%	
	\$350.20	\$525.29	\$700.39	2/1/2027	2/1/2028	\$117.61	5.00%	
	\$367.71	\$551.56	\$735.41	2/1/2028	2/1/2029	\$123.50	5.00%	
Principal	\$310.10	\$465.16	\$620.21	6/1/2024	2/1/2025	\$104.15		\$101.60 - \$106.70
	\$325.61	\$488.41	\$651.22	2/1/2025	2/1/2026	\$109.36	5.00%	\$104.65 - \$109.90
	\$341.89	\$512.84	\$683.78	2/1/2026	2/1/2027	\$114.83	5.00%	\$107.79 - \$113.20
	\$358.98	\$538.48	\$717.97	2/1/2027	2/1/2028	\$120.57	5.00%	\$111.02 - \$116.59
	\$376.93	\$565.40	\$753.87	2/1/2028	2/1/2029	\$126.59	5.00%	\$114.35 - \$120.09
Principal Engineer / Geologist	\$267.08	\$400.62	\$534.16	6/1/2024	2/1/2025	\$89.70		\$77.90 - \$101.50
	\$280.43	\$420.65	\$560.87	2/1/2025	2/1/2026	\$94.19	5.00%	\$80.24 - \$104.55
	\$294.46	\$441.68	\$588.91	2/1/2026	2/1/2027	\$98.89	5.00%	\$82.64 - \$107.68
	\$309.18	\$463.77	\$618.36	2/1/2027	2/1/2028	\$103.84	5.00%	\$85.12 - \$110.91
	\$324.64	\$486.96	\$649.27	2/1/2028	2/1/2029	\$109.03	5.00%	\$87.68 - \$114.24
Senior Engineer / Geologist	\$206.93	\$310.40	\$413.87	6/1/2024	2/1/2025	\$69.50		\$63.70 - \$75.30
	\$217.28	\$325.92	\$434.56	2/1/2025	2/1/2026	\$72.98	5.00%	\$65.61 - \$77.56
	\$228.15	\$342.22	\$456.29	2/1/2026	2/1/2027	\$76.62	5.00%	\$67.58 - \$79.89
	\$239.55	\$359.33	\$479.11	2/1/2027	2/1/2028	\$80.45	5.00%	\$69.61 - \$82.28
	\$251.53	\$377.30	\$503.06	2/1/2028	2/1/2029	\$84.48	5.00%	\$71.69 - \$84.75
Sr. Project Engineer / Geologist	\$183.56	\$275.34	\$367.12	6/1/2024	2/1/2025	\$61.65		\$54.70 - \$68.60
	\$192.74	\$289.11	\$385.48	2/1/2025	2/1/2026	\$64.73	5.00%	\$56.34 - \$70.66
	\$202.38	\$303.57	\$404.75	2/1/2026	2/1/2027	\$67.97	5.00%	\$58.03 - \$72.78
	\$212.50	\$318.74	\$424.99	2/1/2027	2/1/2028	\$71.37	5.00%	\$59.77 - \$74.96
	\$223.12	\$334.68	\$446.24	2/1/2028	2/1/2029	\$74.94	5.00%	\$61.57 - \$77.21
Project Engineer / Geologist	\$161.68	\$242.52	\$323.35	6/1/2024	2/1/2025	\$54.30		\$50.30 - \$58.30
	\$169.76	\$254.64	\$339.52	2/1/2025	2/1/2026	\$57.02	5.00%	\$51.81 - \$60.05
	\$178.25	\$267.37	\$356.50	2/1/2026	2/1/2027	\$59.87	5.00%	\$53.36 - \$61.85
	\$187.16	\$280.74	\$374.32	2/1/2027	2/1/2028	\$62.86	5.00%	\$54.96 - \$63.71
	\$196.52	\$294.78	\$393.04	2/1/2028	2/1/2029	\$66.00	5.00%	\$56.61 - \$65.62
Sr. Staff Engineer / Geologist	\$156.62	\$234.92	\$313.23	6/1/2024	2/1/2025	\$52.60		\$51.30 - \$53.90
	\$164.45	\$246.67	\$328.89	2/1/2025	2/1/2026	\$55.23	5.00%	\$52.84 - \$55.52
	\$172.67	\$259.00	\$345.34	2/1/2026	2/1/2027	\$57.99	5.00%	\$54.42 - \$57.18
	\$181.30	\$271.95	\$362.60	2/1/2027	2/1/2028	\$60.89	5.00%	\$56.06 - \$58.90
	\$190.37	\$285.55	\$380.73	2/1/2028	2/1/2029	\$63.94	5.00%	\$57.74 - \$60.66
Staff Engineer / Geologist	\$116.27	\$174.41	\$232.54	6/1/2024	2/1/2025	\$39.05		\$33.00 - \$45.10
	\$122.08	\$183.13	\$244.17	2/1/2025	2/1/2026	\$41.00	5.00%	\$33.99 - \$46.45
	\$128.19	\$192.28	\$256.38	2/1/2026	2/1/2027	\$43.05	5.00%	\$35.01 - \$47.85
	\$134.60	\$201.90	\$269.20	2/1/2027	2/1/2028	\$45.21	5.00%	\$36.06 - \$49.28
	\$141.33	\$211.99	\$282.66	2/1/2028	2/1/2029	\$47.47	5.00%	\$37.14 - \$50.76
Senior Technician	\$152.00	\$228.00	\$304.00	6/1/2024	2/1/2025	\$51.05		\$49.60 - \$52.50
	\$159.60	\$239.40	\$319.20	2/1/2025	2/1/2026	\$53.60	5.00%	\$51.09 - \$54.08
	\$167.58	\$251.37	\$335.16	2/1/2026	2/1/2027	\$56.28	5.00%	\$52.62 - \$55.70
	\$175.96	\$263.94	\$351.92	2/1/2027	2/1/2028	\$59.10	5.00%	\$54.20 - \$57.37
	\$184.76	\$277.14	\$369.51	2/1/2028	2/1/2029	\$62.05	5.00%	\$55.83 - \$59.09
Technician	\$71.01	\$106.52	\$142.03	6/1/2024	2/1/2025	\$23.85		\$20.50 - \$27.20
	\$74.56	\$111.85	\$149.13	2/1/2025	2/1/2026	\$25.04	5.00%	\$21.12 - \$28.02
	\$78.29	\$117.44	\$156.58	2/1/2026	2/1/2027	\$26.29	5.00%	\$21.75 - \$28.86
	\$82.21	\$123.31	\$164.41	2/1/2027	2/1/2028	\$27.61	5.00%	\$22.40 - \$29.72
	\$86.32	\$129.47	\$172.63	2/1/2028	2/1/2029	\$28.99	5.00%	\$23.07 - \$30.61

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.
- Billing rate = actual hourly rate * (1 + ICR) * (1 + Fee). 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. All costs must comply with the Federal cost principles for reimbursement.
- For named employees and key personnel enter the actual hourly rate. For classifications only, enter the Average Hourly Rate for that classification.

COST PROPOSAL**SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)**
(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Note: Mark-ups are Not Allowed

Consultant

Earth Mechanics, Inc.

Prime Consultant:

Subconsultant: X

2nd Tier Subconsultant:

Project No. _____ Contract No. _____

Date: _____

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)				
Description of Item	Quantity	Unit	Unit Cost	Total
Drill Rig Rental	1	Day	\$ 7,367.00	\$ 7,367.00
Traffic Control	1	Day	\$ 1,800.00	\$ 1,800.00
Soil Cutting Contaminants Testing	2	Tests	\$ 315.00	\$ 630.00
Soil Cuttings (drums) Disposal	4	Drum	\$ 165.00	\$ 660.00
Water Meter	1	Meter	\$ 500.00	\$ 500.00
Well Permit	2	Permits	\$ 250.00	\$ 500.00
Mileage	1075	Mile	\$ 0.67	\$ 720.25
EMI Per Diem	2	Day	\$ 200.00	\$ 400.00
Subconsultant 1:				\$ -
Subconsultant 2:				\$ -
Subconsultant 3:				\$ -
Subconsultant 4:				\$ -
Subconsultant 5:				\$ -

NOTES:

1. List direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentations.
2. Proposed ODC items should be consistently billed regardless of client and contract type.
3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice)
5. Items listed above that would be considered "tools of the trade" are not reimbursable as other direct cost.
6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.
7. If mileage is claimed, the rate should be properly supported by the consultant's calculation of their actual costs for company vehicles. In addition, the miles claimed should be supported by mileage logs.
8. If a consultant proposed rental costs for a vehicle, the company must demonstrate that this is its standard procedure for all of their contracts and that they do not own any vehicle that could be used for the same purpose.
9. The cost proposal format shall not be amended. All costs must comply with the Federal cost principles.
10. Add additional pages, if necessary.
11. Subconsultants must provide their own cost proposals.


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.

Prime Consultant or Subconsultant Certifying:

Name:	<u>Alaheswaran Thurairajah</u>	Title *:	<u>President</u>
Signature:	<u></u>	Date of Certification:	<u>3/6/2024</u>
Email:	<u>A.Thurairajah@earthmech.com</u>	Phone number:	<u>714-751-3826</u>
Address:	<u>17800 Newhope Street, Suite B, Fountain Valley, CA 92708</u>		

* 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:

541330 - Geotechnical Engineering
541380 - Laboratory Testing

Exhibit C
Insurance Requirements

PROFESSIONAL SERVICES CONTRACTS

INSURANCE REQUIREMENTS

CONTRACTOR shall provide and maintain insurance for the duration of this Agreement against claims for injuries to persons and damage to property which may arise from, or in connection with, performance under the Agreement by the CONTRACTOR, his agents, representatives, employees and subcontractors, if applicable.

A. Minimum Scope & Limits of Insurance

1. Coverage at least as broad as Commercial General Liability, insurance Services Office Commercial General Liability coverage occurrence form GC 00 01, with limits no less than \$2,000,000 per occurrence including products and completed operations, property damage, bodily injury and personal & advertising injury. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. Insurance Services Office Form Number CA 00 01 covering Automobile Liability of \$1,000,000 per occurrence including any auto or, if the CONTRACTOR has no owned autos, hired and non-owned auto coverage. If an annual aggregate applies it must be no less than \$2,000,000.
3. Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
4. Professional Liability (Errors and Omissions) insurance appropriate to the CONTRACTOR's profession, with limit no less than \$2,000,000 per occurrence or claim, \$3,000,000 aggregate.

B. Specific Provisions of the Certificate

1. If the required insurance is written on a claims made form, the retroactive date must be before the date of the contract or the beginning of the contract work and must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract work.
2. CONTRACTOR must submit endorsements to the General Liability reflecting the following provisions:
 - a. *The COUNTY, its officers, agents, officials, employees and volunteers are to be covered as additional insureds as respects; liability arising out of work or operations performed by or on behalf of the CONTRACTOR including material, parts, or equipment furnished in connection with such work or operations.*
 - b. *For any claims related to this project, the CONTRACTOR's insurance coverage shall be primary insurance as respects the COUNTY, its officers, agents, officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officers, agents, officials, employees or volunteers shall be excess of the CONTRACTOR's insurance and shall not contribute with it.*
 - c. *CONTRACTOR hereby grants to COUNTY a waiver of any right to subrogation which any insurer of CONTRACTOR may acquire against the county by virtue of the payment of any loss under such insurance. CONTRACTOR agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the COUNTY has received a waiver of subrogation endorsement from the insurer.*

d. Each insurance policy required by this agreement shall be endorsed to state that coverage shall not be canceled by either party, except after written notice has been provided to the County.

3. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the COUNTY for all work performed by the CONTRACTOR, its employees, agents and subcontractors. CONTRACTOR waives all rights against the COUNTY and its officers, agents, officials, employees and volunteers for recovery of damages to the extent these damages are covered by the workers compensation and employers liability.

C. Deductibles and Self-Insured Retentions

Deductibles and Self-insured retentions must be declared and any deductible or self-insured retention that exceeds \$100,000 will be reviewed by the COUNTY Risk Manager for approval.

D. Acceptability of Insurance

Insurance must be placed with insurers with a current rating given by A.M. Best and Company of no less than A-:VII and a Standard & Poor's Rating (if rated) of at least BBB and from a company approved by the Department of Insurance to conduct business in California. Any waiver of these standards is subject to approval by the County Risk Manager.

E. Verification of Coverage

Prior to approval of this Agreement by the COUNTY, the CONTRACTOR shall file with the submitting department, certificates of insurance with original endorsements effecting coverage in a form acceptable to the COUNTY. Endorsements must be signed by persons authorized to bind coverage on behalf of the insurer. The COUNTY reserves the right to require certified copies of all required insurance policies at any time.

Exhibit D
Additional Terms & Conditions for
Federally Funded Contracts

COUNTY OF TULARE
ADDITIONAL TERMS & CONDITIONS FOR FEDERALLY FUNDED CONTRACTS
For Awards Issued on or After November 12, 2020.
(Form revision approved September 2022)

FEDERALLY-FUNDED AGREEMENTS. COUNTY will be paying for the goods or services to be provided under this Agreement, in whole, or in part, with Federal grant funds, so the following additional terms and conditions will apply to this Agreement, if applicable as noted:

(1) Equal Employment Opportunity (FOR CONSTRUCTION WORK) Except as otherwise provided under 41 CFR Part 60, if this Agreement meets the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3, then during the performance of this Agreement, the CONTRACTOR agrees as follows: (1) The CONTRACTOR will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The CONTRACTOR will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause. (2) The CONTRACTOR will, in all solicitations or advertisements for employees placed by or on behalf of the CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin. (3) The CONTRACTOR will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the CONTRACTOR'S legal duty to furnish information. (4) The CONTRACTOR will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers'

representatives of the CONTRACTOR'S commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. (5) The CONTRACTOR will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor. (6) The CONTRACTOR will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders. (7) In the event of the CONTRACTOR'S noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this Agreement may be canceled, terminated, or suspended in whole or in part and the CONTRACTOR may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, order of the Secretary of Labor, or as otherwise provided by law. (8) The CONTRACTOR will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The CONTRACTOR will take such action with respect to any subcontract or purchase order as the COUNTY may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided*, however, that in the event CONTRACTOR becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the COUNTY, then the CONTRACTOR may request the United States to enter into such litigation to protect the interests of the United States. The COUNTY further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work.

The COUNTY agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will

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furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance. The COUNTY further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the COUNTY agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the COUNTY under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from the COUNTY; and refer the case to the Department of Justice for appropriate legal proceedings.

The CONTRACTOR and each of its subcontractors shall include the equal opportunity clause in each of its subcontracts.

(2) Davis-Bacon Act, as amended (40 U.S.C. 3141–3148). (FOR CONSTRUCTION WORK). If this Agreement involves payment for construction services in excess of \$2,000, then the CONTRACTOR must comply with the Davis-Bacon Act (40 U.S.C. 3141–3144, and 3146–3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the Davis-Bacon Act, the CONTRACTOR is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the U.S. Secretary of Labor. In addition, the CONTRACTOR is required to pay wages not less than once a week. The COUNTY must provide CONTRACTOR with a copy of the current prevailing wage determination issued by the U.S. Department of Labor with respect to the services to be provided under the subject Agreement. The CONTRACTOR'S execution of the subject Agreement constitutes the CONTRACTOR'S acceptance of the wage determination. The COUNTY must report all suspected or reported violations to the Federal awarding agency.

(3) Copeland "Anti- Kickback" Act (40 U.S.C. 3145). (FOR CONSTRUCTION WORK GREATER THAN \$2000). CONTRACTOR must comply with the Copeland "Anti- Kick- back" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). Under the Copeland "Anti- Kickback" Act, the CONTRACTOR and all subcontractors are prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The COUNTY must report all suspected or reported violations to the Federal awarding agency.

(4) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701–3708). (FOR AGREEMENTS >\$100,000 THAT USE MECHANICS OR LABORERS). If this Agreement involves payments for services in excess of \$100,000 that include the employment of mechanics or laborers, then the CONTRACTOR must comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, the CONTRACTOR is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(5) Rights to Inventions Made Under a Contract or Agreement (FOR FUNDING AGREEMENTS FOR EXPERIMENTAL, DEVELOPMENTAL OR RESEARCH WORK). If the Federal award supporting payments for services under this Agreement meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the Agreement is with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," then the COUNTY and the CONTRACTOR recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by

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the awarding agency.

(6) Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387), as amended (FOR AGREEMENTS >\$150,000). If this Agreement involves payments for services in excess of \$150,000, then the CONTRACTOR must comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(7) Debarment and Suspension (Executive Orders 12549 and 12689) (FOR ALL AGREEMENTS >\$25,000). By execution of this Agreement, CONTRACTOR certifies to the COUNTY that it is not a party listed on the government-wide exclusions list in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR part 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension,” and is not debarred, suspended, or otherwise excluded from the award of a federally-supported contract under statutory or regulatory authority other than Executive Order 12549.

(8) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) (FOR ALL AGREEMENTS >\$100,000). If this Agreement involves payments for services in excess of \$100,000, then by execution of this Agreement, the CONTRACTOR certifies to the COUNTY that it will not and has not used Federally-appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C.1352. The CONTRACTOR must also disclose to the COUNTY in writing any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award.

(9) Procurement of recovered materials (FOR AGREEMENTS >\$10,000 FOR CONTRACTORS WHO MUST COMPLY WITH SECTION 6002 OF THE SOLID WASTE DISPOSAL ACT). Pursuant to 2 CFR § 200.323, the COUNTY and the CONTRACTOR must comply with section 6002 of the Federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the

highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(10) Records Retention and Access (ALL AGREEMENTS). Pursuant to 2 CFR §§ 200.333 through 200.337, the following provisions regarding Records Retention and Access will apply to this Agreement:

(A) Retention requirements for records. CONTRACTOR must retain all financial records, supporting documents, statistical records, and all other of its records pertinent to this Agreement for a period of three years from the date of submission of the final expenditure report or, for Federal awards that are renewed quarterly or annually, from the date of the submission of the quarterly or annual financial report, respectively, as reported to the Federal awarding agency or COUNTY. The only exceptions to the 3 year limit are the following:

(a) If any litigation, claim, or audit is started before the expiration of the 3-year period, then the records must be retained until all litigation, claims, or audit findings involving the records have been resolved and final action taken.

(b) When the CONTRACTOR is notified in writing by the COUNTY or Federal awarding agency, cognizant agency for audit, oversight agency for audit, or cognizant agency for indirect costs to extend the retention period.

(c) Records for real property and equipment acquired with Federal funds must be retained for 3 years after final disposition.

(d) When records are transferred to or maintained by the COUNTY, or Federal awarding agency, the 3-year retention requirement is not applicable to the CONTRACTOR.

(e) Records for program income transactions after the period of performance. In some cases recipients must report program income after the period of

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performance. Where there is such a requirement, the retention period for the records pertaining to the earning of the program income starts from the end of the CON- TRACTOR'S fiscal year in which the program income is earned.

(f) Indirect cost rate proposals and cost allocations plans. This paragraph applies to the following types of documents and their supporting records: indirect cost rate computations or proposals, cost allocation plans, and any similar accounting computations of the rate at which a particular group of costs is chargeable (such as computer usage chargeback rates or composite fringe benefit rates).

(1) *If submitted for negotiation.* If the proposal, plan, or other computation is required to be submitted to the COUNTY or the Federal Government to form the basis for negotiation of the rate, then the 3-year retention period for its supporting records starts from the date of such submission.

(2) *If not submitted for negotiation.* If the proposal, plan, or other computation is not required to be submitted to the COUNTY or Federal Government for negotiation purposes, then the 3-year retention period for the proposal, plan, or computation and its supporting records starts from the end of the fiscal year (or other accounting period) covered by the proposal, plan, or other computation.

(B) Methods for collection, transmission, and storage of information. In accordance with the May 2013 Executive Order on Making Open and Machine Readable the New Default for Government Information, the Federal awarding agency and the CONTRACTOR should, whenever practicable, collect, transmit, and store Federal award-related information in open and machine readable formats rather than in closed formats or on paper. The Federal awarding agency or COUNTY must always provide or accept paper versions of Federal award-related information to and from the CONTRACTOR upon request. If paper copies are submitted, the Federal awarding agency or COUNTY must not require more than an original and two copies. When original records are electronic and cannot be altered, there is no need to create and retain paper copies. When original records are paper, electronic versions may be substituted through the

use of duplication or other forms of electronic media provided that they are subject to periodic quality control reviews, provide reasonable safeguards against alteration, and remain readable.

(C) Access to records.

(a) Records of CONTRACTOR. The Federal awarding agency, Inspectors General, the Comptroller General of the United States, and the COUNTY, or any of their authorized representatives, must have the right of access to any documents, papers, or other records of the CONTRACTOR which are pertinent to the Federal award, in order to make audits, examinations, excerpts, and transcripts. The right also includes timely and reasonable access to the CONTRACTOR'S personnel for the purpose of interview and discussion related to such documents.

(b) Only under extraordinary and rare circumstances would such access include review of the true name of victims of a crime. Routine monitoring cannot be considered extraordinary and rare circumstances that would necessitate access to this information. When access to the true name of victims of a crime is necessary, appropriate steps to protect this sensitive information must be taken by both the CONTRACTOR and the Federal awarding agency or COUNTY. Any such access, other than under a court order or subpoena pursuant to a bona fide confidential investigation, must be approved by the head of the Federal awarding agency or delegate.

(c) Expiration of right of access. The rights of access in this section are not limited to the required retention period but last as long as the records are retained. Federal awarding agencies and COUNTY must not impose any other access requirements upon CONTRACTOR.

(11) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment (ALL AGREEMENTS WITH FUNDS AWARDED ON OR AFTER NOVEMBER 12, 2020) CONTRACTOR must comply with 2 CFR § 200.216, the prohibition of obligating or expending loan or grant funds to procure or obtain, enter into a contract to procure or obtain certain equipment, services or systems that uses "covered telecommunications equipment" as defined in 2

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CFR §200.216 (3), or services as a substantial or essential component of any system.

(12) Domestic Preferences For Procurement (ALL AGREEMENTS WITH FUNDS AWARDED ON OR AFTER NOVEMBER 12, 2020) Pursuant to 2 CFR § 200.322, CONTRACTOR shall, as appropriate and to the extent consistent with law, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products).

(13) Use Of DHS Seal, Logo, And Flags. (ALL AGREEMENTS) The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval. The contractor shall include this provision in any subcontracts.

(14) Compliance With Federal Law, Regulations and Executive Orders (ALL AGREEMENTS). This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable federal law, regulations, executive orders, FEMA policies, procedures, and directives

(15) No Obligation by Federal Government. (ALL AGREEMENTS). The federal government is not a party to this contract and is not subject to any obligations or liabilities to the non-federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

(16) Program Fraud and False or Fraudulent Statements or Related Acts. (ALL AGREEMENTS). The contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor's actions pertaining to this contract.

(17) Affirmative Socioeconomic Steps. (ALL AGREEMENTS) If subcontracts are to be let, the prime contractor is required to take all necessary steps identified in 2 C.F.R. § 200.321(b)(1)-(5) to ensure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(18) License and Delivery of Works Subject to Copyright and Data Rights (ALL AGREEMENTS INVOLVING CREATION OF COPYRIGHTABLE MATERIAL) The Contractor grants to the COUNTY OF TULARE, a paid-up, royalty-free, nonexclusive,

irrevocable, worldwide license in data first produced in the performance of this contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, the Contractor will identify such data and grant to the COUNTY OF TULARE or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, the Contractor will deliver to the COUNTY OF TULARE data first produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by the COUNTY OF TULARE.