AMENDMENT THREE TO AGREEMENT FOR ENGINEERING SERVICES
FOR REHABILITATION OF
BARTLETT CREEK AT BARTLETT SPRINGS ROAD BRIDGE (14C-0106)
IN LAKE COUNTY, CALIFORNIA

THIS AMENDMENT TO AGREEMENT is made this _____day of _____, 2025, by and between the County of Lake, hereinafter referred to as "COUNTY", and Consor Engineers, LLC, hereinafter referred to as "CONSULTANT".

WITNESSETH

WHEREAS, COUNTY and CONSULTANT have entered into an AGREEMENT dated January 8, 2019, Amendment One dated December 20, 2022, and Amendment Two dated December 20, 2023, to provide preliminary and final design, environmental services, right of way, bidding and construction assistance services in order to rehabilitate the Bartlett Creek Bridge at Bartlett Springs Road (14C-0106); and

WHEREAS, CONSULTANT desires to amend their budget for work on various tasks; and

WHEREAS, Article XV, Section A, "MODIFICATION", of said Agreement allows modification by written amendment executed by both parties; and

WHEREAS, COUNTY AND CONSULTANT now desire to amend said Agreement to complete the necessary work.

NOW, THEREFORE, the parties hereto agree as follows:

1. **ARTICLE I, "SCOPE OF SERVICES", Section A**, is hereby amended to read as follows:

   "CONSULTANT shall perform the services described in Exhibit "A" and hereby modified by Exhibit "C", attached hereto and incorporated herein by this reference hereinafter called Scope of Work. In the event of a conflict between this Agreement and Exhibits "A", and "C", the provisions of this Agreement shall control."

2. **ARTICLE VI, "COMPENSATION AND TERMS OF PAYMENT", Section C**, is hereby amended to read as follows:

   Compensation: The method of payment for this contract will be based on Actual Cost-Plus-Fixed Fee. COUNTY will reimburse CONSULTANT for actual costs (including labor costs, employee benefits, travel, equipment rental costs, overhead and other direct costs) incurred by CONSULTANT in performance of the work set forth in Exhibit "A" as hereby modified by Exhibit "C". Direct Costs for Sub-consultants will be billed as actual costs. No payment will be

made prior to approval of any work, nor for any work performed prior to approval of this Agreement.

CONSULTANT will not be reimbursed for actual costs that exceed the estimated wage rates, employee benefits, travel, equipment rental, overhead, and other estimated costs set forth in the approved CONSULTANT'S Cost Proposal, unless additional reimbursement is provided for by contract amendment. In no event will CONSULTANT be reimbursed for overhead costs at a rate that exceeds COUNTY's approved overhead rate set forth in the Cost Proposal. In the event that COUNTY determines that a change to the work from that specified in the Cost Proposal and contract is required, the contract time or actual costs reimbursable by COUNTY shall be adjusted by contract amendment to accommodate the changed work.

For all services CONSULTANT shall be paid in accordance with the budget set forth in Exhibit "B" as hereby modified by Exhibit "C", provided however that the total payments to CONSULTANT shall not exceed $963,200.00 without prior written authorization by COUNTY and formal Amendment to this Agreement.

In addition to the allowable incurred costs, COUNTY will pay CONSULTANT a fixed fee of $48,909.88. The fixed fee is nonadjustable for the term of the contract, except in the event of a significant change in the scope of work and such adjustment is made by contract amendment.

Reimbursement for transportation and subsistence costs shall not exceed the rates specified in the approved Cost Proposal.

3. **ARTICLE VII, "TERM",** is hereby amended to read as follows:

   This Agreement shall commence on the date herein above entered into and shall continue in full force and effect until December 31, 2028. This term may be extended an appropriate period of time in case of unavoidable delays and for consideration of corresponding warranted adjustment in payment by modification of this Agreement as hereafter provided.

4. **Exhibit "C",** attached hereto, is hereby added to the Agreement.

Except as specifically modified herein, all other terms and conditions of the AGREEMENT dated January 8, 2019, Amendment One dated December 20, 2022, and Amendment Two dated December 20, 2023, shall remain in full force and effect.

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COUNTY and CONSULTANT have executed this Amendment to Agreement on the day and year first written above.

COUNTY OF LAKE:

_____
Chair, Board of Supervisors

ATTEST:

SUSAN PARKER
Clerk of the Board of Supervisors

By:_____

Consor Engineers, LLC:

_____
Jason Jurrens, District Manager
California Transportation

APPROVED AS TO FORM:

LLOYD GUINTIVANO
County Counsel

By:_____

EXHIBIT "C"

TO

AGREEMENT FOR ENGINEERING SERVICES

FOR

REHABILITATION OF BARTLETT CREEK AT BARTLETT SPRINGS ROAD BRIDGE (14C-0106)

IN LAKE COUNTY, CALIFORNIA

Amendment 3 - 14C0106 Bartlett Creek (Bartlett Springs Road) Replacement

SCOPE OF WORK

Consor's original contract scope and budget were developed based on the processes, procedures of the Highway Bridge Program (HBP), the recommendations in the HBP applications and the PSRE included in the RFP. As noted in our scope of work, should preliminary engineering result in a significantly different project or scope of work, a contract amendment may be required prior to final design.

At the County's request, we are submitting an amendment that will cover all required tasks through construction support. There remain risks for additional work that may be required due to changes outside our control. To the extent practical, we have included scope and budget to cover these risks, however for additional effort that arises that was excluded, or is a change from current project development procedures, additional budget may be required to complete the project.

In addition to the change in scope, we are requesting approval to add a subconsultant, **Far Western**, to our team who will be performing the cultural resource studies and preparing reports. Our original contract Identified Gallaway as performing cultural resource studies and reports. Since execution of the contract in 2019, Caltrans is recommending performing an Extended Phase 1 (XP1) study for cultural resources. Gallaway does not have the qualified staff to perform this scope of work. **Far Western** is performing similar work on other Lake County HBP projects.

We also request that the expiration date for the contract be revised to 12/31/2028.

TASK 2 – PROJECT MANAGEMENT

Task 2.1 – Project Management
Additional effort is required to manage subconsultants and deliverables and coordinate with the County and project stakeholders through the anticipated completion of the project. Additional budget is required for this effort.

Budget has been added to provide QA/QC reviews of all milestone submittals.. QC review comments and resolution will be documented and submitted to the County with the milestone submittal. Milestone submittals include 65% Plans and Estimate, 90% PS&E and Final/100% PS&E.

Task 2.2 – Progress Meetings
Additional Budget for bi-weekly progress meetings has been included. Bi-Weekly meetings are anticipated through the Final PS&E Submittal at a minimum.

TASK 3 - PRELIMINARY ENGINEERING

Task 3.2 – Geotechnical Investigations (Crawford and Associates, Inc)
Crawford & Associates, Inc (CAInc) will provide geotechnical services. CAInc's professional services will include Preliminary, Draft, and Final Foundation Reports. The Foundation Report will also include geotechnical design recommendations and criteria for the approach roadway sections.

Additional efforts requiring budget to complete geotechnical engineering work include:

• Evaluation and analysis associated with revised updated scour and foundation loading.

• Additional time and effort associated with responses and revisions arising from multiple Caltrans reviews.

• Additional time and effort to incorporate recent changes to Caltrans technical standards with respect to site seismic conditions, foundation design and report format preparation.

• Additional project design team meetings required to address foundation constructability requirements.

• Publish revised Foundation Reports for bridge type selection and final design to meet current Caltrans bridge foundation report guidelines.

Preliminary Foundation Report
CAInc will prepare a Preliminary Foundation Report (PFR) consistent with current Caltrans guidelines for Bridge Foundation Reports. To prepare the PFR, CAInc will review record documents, published geologic data and aerial photographs.

The PFR is expected to include: Project Location and Vicinity Map; Summary of Site Geology and Subsurface Conditions (based on review of available record documents, published geologic data, site review and boring data); Seismic Data and Evaluation using current Caltrans seismic design criteria (including preliminary ARS curve using Caltrans ARS Online tool); Liquefaction Considerations; Roadway/Subgrade Considerations; Preliminary Foundation Alternatives (e.g., spread footings, cast-in-drilled-hole piling, etc.); Preliminary Foundation Recommendations with conditions and constraints on likely foundation types; Preliminary Construction Considerations; Location of Field Tests; and boring logs.

Draft and Final Foundation Reports
CAInc will prepare one Draft Foundation Report for bridge design consistent with current Caltrans guidelines from Bridge Foundation Reports. The report will provide a site/project description, summarize site geology, subsurface exploration and field and laboratory soil/rock tests, discuss scour considerations (based on Hydraulics Report prepared by others), and include a "Log of Test Borings" (LOTB) drawing. Earth materials and foundation conditions will be discussed including seismic criteria and the design ARS curve. The report will discuss structure foundation conditions/constraints, recommended type, level and loading of bridge foundation elements, and include construction considerations. Design pavement structural section(s) and earthwork recommendations for associated roadway improvements will also be provided as needed. CAInc will complete a Final Foundation Report incorporating the review comments.

Deliverables: *Revised Final and Draft Bridge Foundation Reports and LOTBs (PDF)*

Task 3.3 – Hydrologic/Hydraulic Studies (WRECO)
WRECO will perform a Location Hydraulic Study and a Preliminary Bridge Design Hydraulic Study. WRECO will provide the Project Team's structural engineers with necessary hydraulic data for their structure and foundation design. The Final Bridge Design Hydraulic Study is included in Task 5.1.

Project Management
HDR will continue to prepare and submit monthly progress reports and invoices.

HDR will attend the Type Selection Meeting. Following the Type Selection Meeting, HDR will respond to comments provided by the California Department of Transportation (Caltrans) on the Bridge Design

Hydraulic Study (BDHS) report.

The hydrologic analysis for the Project utilized United States Geological Survey (USGS) gage station data from an active stream gage. Since the Project inception in 2019, 4 additional years of data (through 2023) have been recorded at the gage. HDR will perform statistical analysis using the updated gage data through 2023 to estimate the 100-year and 50-year peak design flows at the Project site. HDR will update the hydraulic analysis using HEC-RAS version 6.5. HDR will update the scour analysis for the proposed bridge replacement. HDR will review available BIRs (through 2024) for additional stream measurements and update the long-term bed degradation analysis.

The April 2022 BDHS report will be updated to address comments from Caltrans and include the revised hydrologic, hydraulic, scour, and RSP calculations that will be updated as part of this task. The incorporation of the addressed comments from Caltrans and the revised analyses in the BDHS report will be the final BDHS.

Deliverables: *Final Bridge Design Hydraulic Study (PDF)*

Task Assumptions:

- The Type Selection Meeting is assumed to be held virtually. The meeting duration is assumed to be up to 2 hours long with up to 2 staff attending the meeting.
- The hydrologic analysis will utilize annual peak flow data from USGS gage data and will follow methodologies outlined in Guidelines for Determining Flood Flow Frequency Bulletin 17C (USGS, 2019).
- The existing condition hydraulic model geometry will not be updated for this amendment.
- The proposed bridge rehabilitation will no longer be evaluated.
- The proposed bridge replacement will be based on the November 2023 bridge general plan.
- The hydraulic models will be updated using the United States Army Corps of Engineers Hydrologic Engineering Center's River Analysis System (HEC-RAS) Version 6.5.
- The 100-year flood will be used for the scour analysis for the proposed bridge replacement following Caltrans Memo to Designers 16-1 and FHWA HEC-18 Fifth Edition (2012).
- The rock slope protection (RSP) analysis will be calculated for the proposed bridge replacement using the Caltrans HDM (Chapter 870, 2022) and FHWA HEC-23 Third Edition (2009).
- HDR's deliverables will be provided in PDF format. Other members of the Project Team will be responsible for hard copy reproductions if requested by the County.

HDR will update the Floodplain Evaluation Report/Location Hydraulic Study (FER LHS) to include the revised hydrologic and hydraulic analyses that will be updated as part of Task 3.3.

Deliverables: *Final Floodplain Evaluation Report/Location Hydraulic Study (PDF)*

Temporary Diversion Analyses

HDR will determine the magnitude of the dry weather flow volume and work with Consor to develop the design concept for the dry weather flow bypass system during construction. HDR will provide recommendations for temporary culvert/structure size, which will be incorporated into the temporary creek diversion design PS&E by Consor.

Task Assumptions:

• The calculation for the temporary creek diversion system will be conducted for one range of construction dates, which will be provided by Consor.

• Consor will provide the number of seasons the temporary creek diversion will be needed.

• The construction season flow analysis will be performed using the current/historical flow observations from the USGS gage downstream of the Project site.

• The sizing of the temporary creek diversion system will be analyzed using the Federal Highway Administration Hydraulic Design Series (HDS) 5 or comparable software. Pipe sizing will assume gravity flow.

2D Hydraulics

Our expectation is that Caltrans will require a 2D hydraulic model for final acceptance/approval of the BDHS and Bridge Type Selection. HDR will simulate the hydraulics at the proposed bridge site with a HEC-RAS two-dimensional (2-D) steady-state model. HDR will coordinate with Consor to request additional survey and LiDAR data to develop the 2-D hydraulic model. HDR will route hypothetical hydrographs for Bartlett Creek through the 2-D hydraulic model. The hypothetical hydrographs will be developed for the 100-year and 50-year design flows and will have a constant flow value, which will match the calculated design flows updated as part of Task 3.3. The hydraulic model will be developed for the existing bridge and proposed replacement bridge. HDR will perform the scour analysis for the proposed bridge replacement using the results of the 2-D hydraulic model. The BDHS report will be updated to include the hydrologic, hydraulic, scour, and RSP calculations that will be updated as part of this task, which will be the final BDHS.

Consor will perform additional ground topographic surveys, and merge the data into an existing ground digital terrain model (DTM).

Task Assumptions:

• Consor will provide an OG surface for development of the existing condition 2-D model.

• Consor will provide the FG surface and CAD file for the proposed bridge replacement.

• The proposed bridge replacement will be based on the November 2023 bridge general plan.

The hydraulic models will be updated using the United States Army Corps of Engineers Hydrologic Engineering Center's River Analysis System (HEC-RAS) Version 6.5.

- The 100-year flood will be used for the scour analysis for the proposed bridge replacement following Caltrans Memo to Designers 16-1 and FHWA HEC-18 Fifth Edition (2012).

- The rock slope protection (RSP) analysis will be calculated for the proposed bridge replacement using the Caltrans HDM (Chapter 870, 2022) and FHWA HEC-23 Third Edition (2009).

- HDR's deliverables will be provided in PDF format. Other members of the Project Team will be responsible for hard copy reproductions if requested by the County.

Task 3.4 – Feasibility Study Report and Structure Type Selection

The original scope of work and level of effort were based on past experience in Lake County with similar bridges (Bartlett Creek Bridge 99 was previously accepted as a replacement). The coordination with HBP in getting to a Type Selection ultimately took 3 years to obtain 1) Caltrans concurrence on the proposed

bridge width, 2) Caltrans concurrence on replacing the bridge, and reprogramming as a replacement, and 3) updating the Type Selection Report in accordance with Caltrans latest policies and procedures (dated 6/1/2022), which require significantly more effort than previously accepted Type Selection Reports. The additional effort includes revisions to the Type Selection Report, Hydraulics Report and Foundation Report: Scour calculations/depths, Rock Slope Protection recommendations, summarizing Foundation types and seismic considerations, detailed estimate for approach road work for each alternative considered, additional plans, exhibits and impacts for each alternative.

Consor prepared a draft Feasibility study/Type Selection Report in accordance with the original scope of work and submitted it in April 2022. Upon review of the draft report, additional coordination and time were needed for the County and Caltrans to provide clear direction and HBP concurrence for a replacement structure (ultimately changing the proposed alternatives). Consor's additional effort resulted from several rounds of comments from the County and Caltrans, significantly more effort to justify and reprogram the project as a replacement, and new Caltrans guidance and higher level of detail for the Type Selection Report and approval. Additional efforts and budget is required to backfill remaining engineering tasks.

TASK 4 - ENVIRONMENTAL STUDIES

Since the original contract was executed, Caltrans issued a Preliminary Environment Studies form (PES – Local Assistance Procedures Manual Exhibit 6-A) to identify the specific environmental studies required for NEPA clearance. The scope of work for Task 4 is revised to align with the required studies per the November 2023 PES.

Task 4.2 – Preliminary Environment Study, Project Description, and Area of Potential Effects (APE)
The PES was revised by Caltrans in November 2023. The project description has been a "living document" as we progressed through the evaluation of alternatives and ultimate determination of the preferred alternative – to replace the existing bridge with a new bridge upstream. Consor will revise the project description based on the recommendations in the July 2024 Type Selection Report, which is based on evaluating a replacement bridge on a new alignment (no other alternatives will be studied for environmental studies and reporting.

Task 4.6 – Section 106 Studies (Archeological Survey Report (ASR), and Historic Properties Survey Report (HPSR))

The Preliminary Environmental Study prepared for the project indicates there is a heightened sensitivity for historic-period resources within the project Area of Potential Effect (APE). Additionally, preliminary review of Far Western's in-house proprietary sensitivity modeling data of the project APE indicates there is a moderate sensitivity for buried and high sensitivity of surface precontact resources. Given this sensitivity, Caltrans has proposed the preparation of a combined phase I/extended phase I effort to expedite and consolidate project field tasks.

Far Western, therefore, proposes the following eight tasks to support the County's CEQA review of the proposed Bartlett Springs Road at Bartlett Creek Bridge Replacement and meet Caltrans' regulatory responsibilities under Section 106 of the NHPA and the 2014 Amended PA. Tasks will include: literature and documentary and historic-era research; Native American consultation; assessment of the potential for buried archaeological resources; pedestrian survey of the project area; subsurface presence/absence testing; and preparation of a combined Archaeological Survey Report/Extended Phase I (ASR/XPI) Proposal; XPI Report, and Historic Properties Survey Report (HPSR). Far Western assumes there are no

recorded historic-era archaeological resources or built environment resources that necessitate a separate APE and Historic Resources Evaluation Report.

Prior to project initiation, Consor Engineers, LLC will provide Far Western with digital data of the project APE and copy of the approved (i.e., Caltrans signed) APE map. The archaeological APE map should include all vertical and horizontal areas subject to ground disturbance, including buried utility lines, access roads, or staging locations that are being constructed or improved for the project. It will also include the full boundaries of any identified archaeological resources. Far Western's archaeological study will proceed only after receipt of the final APE to avoid the need for additional time and funds should the APE change after the study has begun (or been completed).

The Far Western project manager will oversee quality control, scheduling, adherence to regulatory guidelines, costs, project administration, staff coordination, and billing.

Task 4.6.1: Records Search and Literature Review

Far Western will request a records search including a review of site records, survey reports, National Register and California Register of Historical Resources listings, as well as other relevant documents from the Northwest Information Center of the California Historical Resources Information System, Sonoma State University, Rohnert Park. The area of study will be the APE plus a one-quarter mile buffer. The review will provide information on whether any portions of the project area have been recently surveyed, and whether any previously recorded resources exist within the study area.

Far Western will also conduct desktop archival research, including a review of historic-era maps and photographs, to assess the potential for historic-era archaeological resources and further describe the historical land development within the APE.

Task 4.6.2: Native American and Historical Society Coordination

Far Western will coordinate consultation efforts with the Native American Heritage Commission and all Native American groups/interested parties identified by the Commission and interested parties that have identified themselves to Lake County under California Public Resources Code 13 PRC § 21080.3.1 formerly California Assembly Bill 52), and under Section 106 of the NHPA, including letters and maps describing the project, and follow-up calls. Far Western will prepare a single letter for County and Caltrans approval. Should multiple letters be required, Far Western will require additional budget to support this effort.

Far Western will also send outreach letters to local historical societies and organizations requesting any historical information relevant to the APE.

Task 4.6.3: Assessment of the Potential for Buried Archaeological Resources

Pedestrian survey methods are often ineffective for identifying the location of buried archaeological resources, i.e., sites buried by naturally deposited sediments or deposits of artificial fill. As it is the responsibility of archaeologists to account for the entire archaeological record, it is important to assess both the large- and small-scale effects of landscape evolution to help ensure the potential for buried sites is considered. As such, Far Western will review geologic maps of the area to study landform changes and determine potential sensitivity for buried resources within the project area. The client will provide Far Western with a detailed description of proposed project impact depths to ensure the accuracy of this assessment.

Task 4.6.4: Pedestrian Survey
Far Western will conduct an archaeological pedestrian survey to understand the existing setting of the project area and in an effort to identify archaeological resources and sensitivity to inform the XPI proposal. A pedestrian survey will be conducted by a crew of two archaeologists who will inventory, in transects no greater than 15 meters apart, all safely accessible portions of the APE. The crew will also examine any exposed soils for evidence of cultural materials. For the purposes of this scope, Far Western assumes no surface sites will be identified.

Task 4.6.5: Combined Archaeological Survey Report and Extended Phase I Proposal
Far Western will prepare a combined ASR/XPI Proposal per Caltrans Standard Environmental Reference, (SER) Volume 2 for Cultural Resources, Exhibits 5.1/5.2. The report will develop environmental and cultural contexts for the project region; document records search findings and consultation efforts with the Heritage Commission and local Native American groups/individuals and local historical societies; and describe field methods and results. The proposal will discuss the proposed scope of work, context/reasoning for subsurface testing, decision thresholds, field methods, and supporting documentation (e.g., field maps; proposed trench locations). Far Western anticipates up to two rounds of consolidated review (i.e., "comments matrix") from the County/Caltrans (preparation of Draft, Draft Final, and Final ASR/XPI Proposal).

Task 4.6.6: Extended Phase I Fieldwork (Backhoe Trenching)
After approval of the ASR/XPI Proposal, Far Western will submit an Underground Service Alert ticket and initiate XPI fieldwork. Fieldwork will include backhoe trenching to ascertain the presence/absence of buried archaeological materials. For this estimate, Far Western assumes no previously recorded archaeological resources are located in the APE.

Backhoe trenching is generally recognized as the most efficient and effective method for identifying buried sites in most settings. Backhoe trenching will be conducted by a crew of two archaeologists and a backhoe operator over four days. Backhoe trenching will consist of excavating one to two trenches at each bridge footing (extant and new structure) and along the new roadway alignment. Exploratory trenches will generally be three feet by 15 feet in area and up to five feet deep (i.e., the maximum proposed depth of project impacts). Should this approach not be logistically feasible, Far Western will alternatively use direct continuous coring rig. This approach would require that the cores be taken back to Far Western's geoarchaeological lab to be opened and analyzed after the field effort.

The deposits exposed in the backhoe trenches will be described and documented in the field. The presence or absence of archaeological materials will be determined by examining the trench walls, and by rapidly hand-raking the deposits as they are removed from the trench. Selected deposits may also be spot-screened (dry) through 1/4-inch mesh to search for archaeological materials. Far Western assumes no resources will be identified or, if a buried site is located, no materials will be collected; therefore, no laboratory time has been included in this scope and budget.

Far Western has included costs to subcontract a Native American representative to participate in the field efforts.

Task 4.6.7: Extended Phase I Report
Far Western will prepare an XPI Report to Caltrans standards (SER Exhibit 5.2). The report will discuss the environmental and cultural contexts for the project region and describe field methods and results. Far Western anticipates up to two rounds of consolidated review (comments matrix) from the County/Caltrans (preparation of Draft, Draft Final, and Final XPI Report).

Task 4.6.8: Historic Property Survey Report (HPSR)
After approval of the final XPI Report, Far Western will prepare an HPSR (SER Exhibit 2.6) that summarizes study findings. Far Western anticipates up to two rounds of consolidated review (comments matrix) from the County/Caltrans (preparation of Draft, Draft Final, and Final HPSR).

Far Western's scope of work and budget for Task 4.6 are based on the following assumptions:

- A cost-of-living increase of up to 4.0% will be applied for tasks completed after September 30, 2024.
- Changes to the APE after the start of the inventory will result in additional costs.
- Far Western assumes no archaeological sites will be identified. If sites are encountered, an amendment will be required.
- Exclusion of the recordation or evaluation of built environment resources.
- The draft reports will undergo two rounds of consolidated edits with the County and Caltrans.
- Three copies each of the Final Report will be produced; an additional copy of the Final Report will be submitted to the Information Center.
- Draft and Final deliverables will be transmitted electronically via secure file transfer.
- Writing sections for any environmental document other than the ASR/XPI Proposal, XPI Report, and HPSR is not included.
- Two project meetings are included.
- No additional identification efforts, evaluation or mitigation proposals, resource evaluation, or data recovery investigations are included in the attached cost estimate.
- The County will provide all necessary permits and coordinate for access to the project area.

Task 4.12: Environmental Commitment Record (ECR) and Public Meetings
The hours for this task have been adjusted to better reflect current levels of effort required for both Consor and Gallaway.

Task 4.13: CEQA Compliance Documentation
Gallaway Enterprises will support the County with CEQA compliance including preparation and filing of a CEQA environmental document. This effort includes:

Development of Draft Initial Study Mitigated Negative Declaration
Gallaway Enterprises will prepare an administrative draft IS/MND, utilizing a county CEQA template or template as provided by the county. Conducting the environmental review of the project will result in the identification of any potentially significant environmental issues and, if necessary, include development of mitigation measures designed to reduce any potential impacts to a less-than-significant level. Though highly unlikely, the identification of substantial evidence of potentially significant unavoidable impacts will be brought to the client's immediate attention for review and discussion. Rescoping of the project may be required if new information is presented that results in additional analysis for the preparation of the document. Assistance with content for the AB52 Tribal consultation process is included in this task and it is assumed that Lake County will send the letters to the Tribes that are on their AB52 compliant list on Lake County letterhead. After peer review of the administrative draft

document by the project team, Gallaway Enterprises will incorporate comments and develop a draft document for public review.

CEQA Submittal Assistance

Gallaway Enterprises, will assist the client in complying with CEQA submittal and noticing responsibilities, including preparation of CEQA public notices required to be filed with Butte County Clerk Recorder's Office and California State Clearinghouse (i.e. NOC, NOD, etc.) and published in newspaper(s) in local general circulation. Payment of all fees (CEQA filing fees, County Clerk fees, CDFW fees and advertisement fees) are the responsibility of the client.

Response to Comments, Errata, MMRP and final document

Gallaway Enterprises will prepare written responses to public inquiries/input received during the IS/MND 30-day public comment period or as a result of the public hearing. This task assumes a maximum review of up to five (5) general public or public agencies' CEQA comments, and preparation of corresponding written responses, as well as attendance at one (1) meeting or public hearing related to the project. After the development of responses to comments we will create an errata and mitigation monitoring program (MMRP) and final document. Filing a Notice of Completion is also a component of this task.

TASK 5 – FINAL DESIGN ENGINEERING

Additional budget is required to complete necessary scope items for Final Design Engineering. Consor anticipates performing a portion of final design during the length NEPA process in order to support the permitting and right-of-way processes.

Task 5.1 – Design

Bridge Design

Bridge design will be performed in accordance with "AASHTO LRFD Bridge Design Specifications" with the latest Caltrans Amendments and other Caltrans design manuals. Design will be based on the "Load and Resistance Factor Design" method, with HL-93 (including alternative) and permit truck design live loads. Seismic design will be performed in accordance with the latest version of the Caltrans "Seismic Design Criteria " (SDC), and the latest information available from Caltrans Earthquake Research. Computer analysis and design programs used are "state-of-the-art" for bridge design.

The scope and budget have been developed based on designing a replacement bridge preferred alternative of a new bridge construction on existing alignment with a single span precast prestressed concrete girder bridge or steel stringer bridge with a cast-in-place or precast concrete deck, supported by reinforced concrete abutments founded on spread footings.

Approach Roadway Design

The final approach roadway design will be performed in accordance with County Standards, AASHTO "Greenbook" and current Caltrans Standard Specifications. Final grading and drainage details will be developed as well as new/existing roadway conformance details, as required. The roadway design scope and level of effort are based on replacing the bridge on the existing horizontal alignment. The vertical alignment will be adjusted to meet the hydraulic requirements, but is not anticipated to have significant increases (retaining walls are not anticipated). The road is not paved, and paving for the roadway approaches is not anticipated.

A temporary low water crossing consisting of clean fill and culverts to accommodate summer flows will

be designed and constructed to carry traffic during bridge construction. If a temporary low water crossing is not feasible, a temporary bridge may be planned for crossing the channel during construction. Quincy will prepare a horizontal and vertical alignment for the low water crossing or temporary bridge. If a temporary bridge is selected, it is assumed that the contractor will be required to provide a structure design (including foundations) for the bridge.

This project is outside the Lake County MS4 permit areas. Using the State Water Resources Control Board's post construction water balance calculator and preliminary calculations, no post construction water quality treatment design is anticipated.

All required environmental mitigation plans, specifications, and estimates will be completed by the Team for inclusion with the roadway and bridge PS&E package.

Dry Weather Flow and Bypass

In coordination with HCR/WRECO, Consor will support engineering and detailing activities for designing and drawing the conceptual dry weather bypass system to be implemented during construction.

Final Bridge Design Hydraulic Study

WRECO will address the review comments from Caltrans and the County on the Preliminary Bridge Design Hydraulic Study Memorandum. WRECO will update the hydraulic model and scour analysis to reflect the preferred design bridge alternative. WRECO will prepare the Bridge Design Hydraulic Study Report to document the design basis, hydrologic and hydraulic analyses, scour analysis, and the recommendations on the bridge scour countermeasures.

Task 5.2 – Prepare Design Exception Fact Sheets

Consor has identified two project features that warrant documentation due to not meeting AASHTO Greenbook standards: Superelevation and Minimum horizontal curve radius (Lake County Standard). These exceptions are noted the July 2024 Type Selection Report. Consor will prepare a memo to file documenting the reasons for not achieving the minimum standard.

Task 5.3 – Prepare Plans, Specifications, and Estimate

It is expected that a portion of the final design and 95% plan set will be developed during final NEPA clearance in order to support permits and Right of Way. Additional submittal, including QC review, prior to expedite to incorporate permits/right of way. The scope below is consistent with the current contract, but is presented for informational purposes.

Plan sheets will be prepared in English using Quincy drafting standards. All plans will be signed by the civil engineer (registered in the state of California) in responsible charge of the design, in accordance with the Local Programs Manual. Typically, the plans, specifications, and estimate (PS&E) will contain the following plan sheets (the number of sheets will vary depending on the site and the final structure type):

- Title Sheet
- Typical Cross Section
- Layout/Profile Sheets
- Quantities Sheet
- General Plan
- Deck Contours
- Foundation Plan
- Abutment Layout

- Construction Signs & Traffic Handling/Detour Plan Sheet
- Contour Grading
- Erosion Control Plan
- Utility Plan
- Construction Details
- Drainage Plans and Details
- Abutment Details
- Typical Section
- Girder Layout
- Log of Test Borings Sheets

Submittal of 65% Plans (Unchecked Details)

Consor proposes that a PDT meeting be held upon completion of the unchecked bridge details to discuss both the bridge and the roadway plans. This should save considerable time in the County's review of the Draft PS&E because most of the major issues will have been previously discussed and addressed.

Preliminary quantities will be prepared along with an estimate of probable construction costs for programming purposes. Quantities will be calculated in accordance with Caltrans' practice and segregated into pay items. The estimate will show quantities and costs as well as a project cost summary.

Independent Design Check

After the 65% plans have been revised to incorporate County comments, an independent check of the design will be performed. This involves a completely independent analysis of the project using the unchecked bridge detailed plans and 65% roadway plans by an engineer that has not been intimately involved in the design. This is an important part of the Team's QA/QC Plan and is identical to the Caltrans/Local Agency process. Based upon the independent check and agreement to revisions by the checker and designer, the plans will be revised. Independent Check comments are summarized and resolutions are documented.

Final Construction Quantities & Estimate

The 65% quantities will be updated to final construction quantities, and the Team's estimate of construction costs (Q and E) will be updated.

Technical Specifications

Project specifications will be developed based on Caltrans' current Standard Specifications and Standard Plans. Quincy will produce the technical special provisions based on Caltrans "Standard Special Provisions" (SSP) templates. The County will provide its boilerplate specifications for Quincy to combine with the technical special provisions. A construction (working days) schedule will also be developed to determine the number of working days for the construction contract.

The project specifications will be initially submitted with the 90% draft PS&E for County review and comment. The County comments will be summarized by Quincy in a comment resolution table with every comment reviewed and addressed with a written response. Based upon agreement of the responses between the County and Quincy, the specifications will be revised.

Quality Control & Constructability Review

As an integral part of the Quincy QA/QC Program, a senior level engineer will review the entire draft PS&E (90% PS&E) package for uniformity, compatibility, and constructability as well as conformance with the federal HBP program requirements.

The review will include comparing bridge plans with the roadway plans for conflicts or inconsistencies, and to ensure that the final design is in accordance with all environmental documents, permit requirements, hydraulics reports, and foundation recommendations. The specifications and estimate will be reviewed for consistency with the plans, and to ensure that each construction item has been covered.

Submittal of 90% PS&E

The plans, specifications, and estimate, along with bridge design, check, and final quantity calculations, will be submitted to the County at the 90% completion stage.

Submittal of Final (100%) PS&E

Upon receiving review comments from the County and other agencies, each comment will be reviewed, discussed, and addressed in writing. All apparent conflicts will be resolved in person or via telephone as necessary. Appropriate modifications will be made to the plans, specifications, and estimate.

Quincy will furnish the final PS&E package: full and half-sized plans in hard copy and PDF electronic files, MS Word format and PDF "camera ready" special provisions, and excel and PDF copies of the engineer's estimate. Quincy will furnish roadway design cross sections (at 25' intervals) as well as Notice to Bidders, Special Provisions and the Bid Book. It is assumed that the County will compile and duplicate the actual bid documents for distribution to bidders.

Quincy will prepare a Resident Engineer file including bridge "4-scale" drawings, quantity calculations, staking information, and other necessary information for coordination of right of way and utilities.

TASK 6 - PERMITS

Task 6.1 – Environmental Permits (Gallaway)

Increased environmental requirements have resulted in additional effort to provide more project details, footprints, impacts, and potential mitigation for review and acceptance by resource agencies. The hours for these tasks have been revised to better reflect current levels of effort required for Gallaway and Consor.

TASK 7 – RIGHT-OF-WAY SERVICES

Based on current project footprints and alignments, additional effort is required for BRI to perform right-of-way services including, appraisals, acquisitions, easements, and escrow conveyances.

TASK 9 – CONSTRUCTION SUPPORT (FUTURE AMENDMENT)

Construction support will be included under a future amendment closer to the time of project advertisement. Once the project has completed final design, the scope of construction support will be better understood to allow accurate budgeting

Cost Proposal

Project Number: L01-832 Project Name: Bartlett Creek Bridge (106)

Task No.	TASKS	Principal Engineer	Principal Engineer	Senior Engineer	Professional Engineer	Professional Engineer	Engineering Designer	Engineering Designer	Principal Engineer	Engineering Designer	Professional Engineer	Professional Engineer	Student Intern	Engineering Designer	Senior Survey Project Manager	Survey Project Manager	CAD Technician	Senior CAD Designer	Consor Total Hours	Consor Total Labor Dollars	Consor Labor	Consor Profit	Consor NLF Budget	NLF + Escalation	Task Cost	Task Hours	Far Western	Gallaway	BRI	Crawford	HDR	Subconsultant Subtotal	NLF + Escalation + Sub	Task Cost (With Sub)
		JPJ	MK	JCC	KCB	AMH	MRD	BK	DBM	NJC	PJI	BCH	GD	HGA	SHI	ADD	PSK	BRM		Direct Labor	Labor+OH Multiplier	Fee Multiplier	Actual Labor Multiplier											
No.	Initial Hourly Rate	$114.45	$94.38	$80.98	$55.22	$58.68	$42.86	$42.19	$91.55	$37.25	$55.22	$66.86	$22.00	$45.55	$89.75	$57.30	$46.29	$64.32																
	Key Personnel	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No																
	Prevailing Wage	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No																
																					2.5980	10%	2.9678											
2.0	Project Management																		0	$0	$0	$0.00	$0	$0	$ 63,151	234						$0	$0	$63,151
2.1.1	Additional Project Management and Schedule	6	72	30															108	$9,911	$26,741	$2,674.11	$29,415	$30,151								$0	$30,151	
2.1.2	QA/QC								40										40	$3,662	$9,880	$988.01	$10,868	$11,140								$0	$11,140	
2.2.1	Additional Progress Meetings	6	40	20	20														86	$7,186	$19,388	$1,938.76	$21,326	$21,860								$0	$21,860	
3.0	Preliinary Engineering																		0	$0	$0	$0.00	$0	$0	$ 72,785	378						$0	$0	$180,022
3.2	Geotechnical Investigations		2	8															10	$837	$2,257	$225.71	$2,483	$2,545						$17,127		$17,127	$19,672	
3.3	Hydrologic/Hyrdraulic Studies		8	8	8	30									8	24			86	$5,698	$15,374	$1,537.39	$16,911	$17,334							$90,110	$90,110	$107,444	
3.4.1	Draft Type Selection Report		12	32	20	58	14	32											168	$10,182	$27,471	$2,747.07	$30,218	$30,974								$0	$30,974	
3.4.3	Final Type Selection Report		4	10	2	20			4										40	$2,838	$7,656	$765.57	$8,421	$8,632								$0	$8,632	
3.4.4	Type Selection Meeting		2	16	16	24				16									74	$4,372	$11,796	$1,179.64	$12,976	$13,301								$0	$13,301	
4.0	Environmental Studies		8	8	24	24	16												80	$4,822	$13,010	$1,301.04	$14,311	$14,669	$ 14,669	80	$69,164	$67,170				$136,334	$151,003	$151,003
5.0	Prepare PS&E																		0	$0	$0	$0.00	$0	$0	$ 71,291	394						$0	$0	$71,291
5.1	Road and Bridge Design			12	12					16									40	$2,230	$6,018	$601.76	$6,619	$6,785								$0	$6,785	
5.3.1	65% Plans			12		12			4										28	$2,042	$5,510	$550.96	$6,061	$6,212								$0	$6,212	
5.3.2	Independent Check			4		4					40								48	$2,767	$7,467	$746.66	$8,213	$8,419								$0	$8,419	
5.3.3	Quantities and Estimate		4	4	20	40	40	48											156	$7,893	$21,294	$2,129.41	$23,424	$24,009								$0	$24,009	
5.3.4	Specifictions		4	16		40													60	$4,020	$10,847	$1,084.70	$11,932	$12,230								$0	$12,230	
5.3.5	QA/QC			4		4			16										24	$2,023	$5,459	$545.92	$6,005	$6,155								$0	$6,155	
5.3.7	100% PS&E	2	8	4		12				12									38	$2,459	$6,634	$663.44	$7,298	$7,480								$0	$7,480	
6.0	Permits		4	16	16														36	$2,557	$6,898	$689.80	$7,588	$7,778	$ 7,778	36						$0	$7,778	$7,778
7.0	Right of Way		12		16					12									40	$2,463	$6,645	$664.54	$7,310	$7,493	$ 7,493	40			$13,971			$13,971	$21,464	$21,464
9.0	Bidding Assistance			4		16													20	$1,263	$3,407	$340.70	$3,748	$3,841	$ 3,841	20						$0	$3,841	$3,841
10.0	Construction Support (Future Phase)																		0	$0	$0	$0.00	$0	$0	$ -	0						$0	$0	$0
																			0	$0	$0	$0.00	$0	$0								$0	$0	
	Subtotal - Hours	**14**	**180**	**208**	**154**	**284**	**70**	**80**	**64**	**56**	**40**	**0**	**0**	**0**	**8**	**24**	**0**	**0**	**1182**	**$79,226.14**	**$213,752.13**	**$21,375.21**	**$235,127.34**	**$241,008**	**$ 241,008**	**1182**						**0**		
	Anticipated Salary Increases																			**$1,981.51**	**$5,346.11**	**$534.61**	**$5,880.73**								**0**		
	Other Direct Costs																						**$49.58**											50
	Total Cost	$1,602	$16,988	$16,844	$8,504	$16,665	$3,000	$3,375	$5,859	$2,086	$2,209	$0	$0	$0	$718	$1,375	$0	$0	**$79,226**	**$81,208**	**$219,098**	**$21,910**	**$241,058**				$69,164	$67,170	$13,971	$17,127	$90,110	$257,542		$498,600

Exhibit 10-H1 Cost Proposal Page 1 of 3

Cost-Plus-Fixed Fee or lump sum or Firm Fixed Price contracts
(Design, Engineering and Environmental Studies)

Note: Mark-ups are Not Allowed ☑ Prime Consultant ☐ Subconsultant ☐ 2nd Tier Subconsultant

Project: Bartlett Creek Bridge (106)

Consultant Consor North America, Inc.

Project No. L01-832 Contract No. 15-011 Date 4/13/2025

DIRECT LABOR

Classification/Title		Name	Initials	Hours	Actual Hourly Rate	Range	Total
Principal Engineer	*	Jurrens, Jason	JPJ	14	$ 114.45	$80 - $135	$ 1,602.30
Principal Engineer	*	Katt, Maxwell	MK	180	$ 94.38	$80 - $135	$ 16,988.40
Senior Engineer	*	Cruz, Juan	JCC	208	$ 80.98	$55 - $125	$ 16,843.84
Professional Engineer		Beltran, Kevin	KCB	154	$ 55.22	$45 - $100	$ 8,503.88
Professional Engineer		Hanson, Ashley	AMH	284	$ 58.68	$45 - $100	$ 16,665.12
Engineering Designer		Dambacher, Mason	MRD	70	$ 42.86	$35 - $95	$ 3,000.20
Engineering Designer		Kotsyubuk, Boris	BK	80	$ 42.19	$35 - $95	$ 3,375.20
Principal Engineer		Morgan, Dace	DBM	64	$ 91.55	$80 - $135	$ 5,859.20
Engineering Designer		Carlson, Neil	NJC	56	$ 37.25	$35 - $95	$ 2,086.00
Professional Engineer		Iten, Peter	PJI	40	$ 55.22	$45 - $100	$ 2,208.80
Professional Engineer		Harrison, Brent	BCH	0	$ 66.86	$45 - $100	$ -
Student Intern		Duval, Gabe	GD	0	$ 22.00	$18 - $31	$ -
Engineering Designer		Gutierrez Angel, Hernan	HGA	0	$ 45.55	$35 - $95	$ -
Senior Survey Project Manager		Irish, Seth	SHI	8	$ 89.75	$65 - $95	$ 718.00
Survey Project Manager	**	Dabu, Alfonso	ADD	24	$ 57.30	$45 - $75	$ 1,375.20
CAD Technician		Kenny, Patrick	PSK	0	$ 46.29	$30 - $65	$ -
Senior CAD Designer		Maechler, Bob	BRM	0	$ 64.32	$39 - $75	$ -
			Subtotal:	1182			$ 79,226.14

LABOR COSTS

a) Subtotal Direct Labor Costs $ 79,226.14

b) Anticipated Salary Increases (see page 2 for calculation) $ 1,981.51

c) **Total Direct Labor Costs** [(a) + (b)] $ 81,207.65

INDIRECT COSTS

d) Fringe Benefits (Rate: 46.78%): e) Total Fringe Benefits [(c) x (d)] $ 37,988.94

f) Overhead (Rate: 123.02%): g) Overhead [(c) x (f)] $ 99,901.65

h) General and Administrative (Rate: 0.00%): i) Gen & Admin [(c) x (h)] $ -

j) **Total Indirect Costs** [(e) + (g) + (i)] $ 137,890.59

FIXED FEE k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10.00% $ 21,909.82

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

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs		Miles	$ 0.670	$ -
Per Diem/Hotel		Day	$ -	$ -
Equipment Rental and Supplies		EA	$ -	$ -
Permit Fees		EA	$ -	$ -
Vendor Reproduction				$ -
Vellum		EA		$ -
81/2 X 11 Reproduction		EA		$ -
11 X 17 Reproduction		EA		$ -
Mounting Boards for Presentations		EA		$ -
Newsletters (Translation and printing)		EA		$ -
Title Report		EA		$ -
Miscellaneous	1		$ 49.58	$ 49.58

l) **TOTAL OTHER DIRECT COSTS** $ 49.58

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

Far Western	$ 69,164.41
Gallaway	$ 67,169.56
BRI	$ 13,971.33
Crawford	$ 17,127.00
HDR	$ 90,110.06
m) **TOTAL SUBCONSULTANTS' COSTS**	$ 257,542.36
n) **Total Other Direct Costs INCLUDING SUBCONSULTANTS** [(l)+(m)]	$ 257,591.94
TOTAL COST [(c) + (j) + (k) + (n)]	$ 498,600.00

NOTES:

1. Key personnel **must** be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals
2. The cost proposal format shall not be amended. Indirect cost rates shall remain fixed for the life of the contract.
3. Anticipated salary increases calculation (page 2) must accompany.

Exhibit 10-H1 Cost Proposal

Cost-Plus-Fixed Fee or Lump Sum or Firm Fixed Price Contracts
(Calculations for Anticipated Salary Increases)

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

Direct Labor Subtotal per Cost Proposal		Total Hours per Cost Proposal		Avg Hourly Rate	**5 Year Contract Duration**
$	79,226.14	1182	=	$67.03	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation			
Year 1	$67.03	+	5%	=	$70.38	Year 2 Avg Hourly Rate
Year 2	$70.38	+	5%	=	$73.90	Year 3 Avg Hourly Rate
Year 3	$73.90	+	5%	=	$77.60	Year 4 Avg Hourly Rate
Year 4	$77.60	+	5%	=	$81.48	Year 5 Avg Hourly Rate

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

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	50.00%	*	1182	=	591	Estimated Hours Year 1
Year 2	50.00%	*	1182	=	591	Estimated Hours Year 2
Year 3	0.00%	*	1182	=	0	Estimated Hours Year 3
Year 4	0.00%	*	1182	=	0	Estimated Hours Year 4
Year 5	0.00%	*	1182	=	0	Estimated Hours Year 5
	Total		Total	=	1182	

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

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	$67.03	*	591	=	$39,613.07	Estimated Hours Year 1
Year 2	$70.38	*	591	=	$41,594.58	Estimated Hours Year 2
Year 3	$73.90	*	0	=	$0.00	Estimated Hours Year 3
Year 4	$77.60	*	0	=	$0.00	Estimated Hours Year 4
Year 5	$81.48	*	0	=	$0.00	Estimated Hours Year 5
			Total Direct Labor Cost with Escalation	=	$81,207.65	
			Direct Labor Subtotal before Escalation	=	$ 79,226.14	
			Estimated total of Direct Labor Salary Increase	=	**$1,981.51**	Transfer to Page 1

NOTES:

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

Exhibit 10-H1 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:

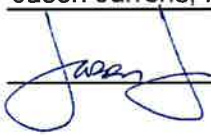
1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, 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.

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

Prime Consultant or Subconsultant Certifying:

Name: Jason Jurrens, P.E. Title *: Regional Manager

Signature :  Date of Certification (mm/dd/yyyy): 5/28/2025

Email: jason.jurrens@consoreng.com Phone Number: 916.368.9181

Address: 11017 Cobblerock Drive Suite 100 Rancho Cordova, CA 95670

*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:

Contract Amendment for Engineering Services

Bartlett Creek Bridge (106)

Date: 5/28/2025

Consor North America, Inc.

	Direct Labor:	$79,226.14
	Estimated Salary Increases for Multi-Year Project	$1,981.51
	Subtotal	$81,207.65
	Overhead (1.698):	$137,890.59
A.	**Labor Subtotal**	**$219,098.24**

Subconsultant Costs:

	Far Western	$69,164.41
	Gallaway	$67,169.56
	BRI	$13,971.33
	Crawford	$17,127.00
	HDR	$90,110.06
	0	$0.00
	0	$0.00
	0	$0.00
	0	$0.00
B.	**Subconsultant Subtotal**	**$257,542.36**

	Other Direct Costs:					
	Travel *(@ active IRS mileage rate)*	0	miles @		$0.670	$0.00
	Pier Diem/ Hotel	0	days @		$0.000	$0.00
	Equipment Rental and Supplies				$0.000	$0.00
	Permit Fees	0	@		$0.000	$0.00
	Vendor Reproduction					
	Vellum	0	@	$	-	$0.00
	81/2 X 11 Reproduction	0	@	$	-	$0.00
	11 X 17 Reproduction	0	@	$	-	$0.00
	Mounting Boards for Presentations	0	@	$	-	$0.00
	Newsletters (Translation and printing)	0	@	$	-	$0.00
	Subtotal Vendor Reproduction					$0.00
	Title Report	0	@	$	-	$0.00
	Miscellaneous	1		$	49.58	$49.58
C.	**Other Direct Cost Subtotal:**					**$49.58**

Labor Subtotal A. =	$219,098.24
Fixed Fee (10.0%):	$21,909.82
Subconsultant Subtotal B. =	$257,542.36
Fixed Fee (0.0%):	$0.00
Other Direct Cost Subtotal: C. =	$49.58
Fixed Fee (0.0%):	$0.00
TOTAL =	**$498,600.00**

Note: Invoices will be based upon actual Consor hourly rates plus overhead at 169.8% plus prorated portion of fixed fee. Subconsultant and Direct Costs will be billed at actual cost. The overhead rate (ICR) shall remain fixed for the contract duration or until both parties to modify the rate in writing.

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING, AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☐ Subconsultant ☑ 2nd Tier Subconsultant

Subconsultant Far Western Anthropological Research Group, Inc.
Project No. Bartlett Creek Bridge Replacement Contract No. TBD Date 7/16/2024

DIRECT LABOR

Regular Employees

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal Investigator	DeBaker, Cassidy	74	$66.00	$ 4,884.00
Geoarchaeologist	Kaijankoski, Phil	44	$66.00	$ 2,904.00
GIS Supervisor	DeArmond, Shannon	4	$66.00	$ 264.00
GIS Senior Analyst	Karthauser, Chelsea	4	$36.72	$ 146.88
GIS Senior Analyst	Nagy, Andras	26	$36.72	$ 954.72
GIS Analyst	Bradeen, Jill	4	$33.66	$ 134.64
GIS Analyst	Rice, Darla	2	$33.66	$ 67.32
GIS Analyst	Schreckengost, Emery	4	$29.00	$ 116.00
GIS Technician	Bancroft, Michael	4	$26.52	$ 106.08
GIS Technician	Fomina, Larysa	2	$25.50	$ 51.00
GIS Technician	Harris-Martinez, Eric	2	$25.50	$ 51.00
GIS Technician	Meredith, Chelsea	4	$25.50	$ 102.00
Production Director	Pardee, Michael	16	$40.70	$ 651.20
Asst. Production Director	Sterling, Elizabeth	2	$35.19	$ 70.38
Production/Design Specialist	Cary, Nora	8	$33.66	$ 269.28
Production/Graphics Specialist	Louie, Aileen	1	$24.00	$ 24.00
Production Specialist	Kramm, Jacqueline	24	$32.73	$ 785.52
Production Specialist	Montgomery, Kathleen	8	$31.06	$ 248.48
Data Analyst	Gonzalez Aguilera, Ariadna	2	$26.78	$ 53.56
Data Analyst	Gonzalez Aguilera, Carolina	2	$26.78	$ 53.56
Senior Archaeologist	Furlong, Julia	88	$49.20	$ 4,329.60
Senior Archaeologist	Darcangelo, Mike	1	$41.82	$ 41.82
Senior Archaeologist	Osterlye, Montserrat	18	$40.00	$ 720.00
Senior Archaeologist	Martin, Thomas	1	$38.00	$ 38.00
Senior Archaeologist	Colligan, Kaely	6	$36.72	$ 220.32
Senior Archaeologist	Davis, Kathy	2	$36.72	$ 73.44
Senior Archaeologist	Bales, Emily	74	$34.17	$ 2,528.58
Staff Archaeologist	Breuer, Maggie	46	$31.62	$ 1,454.52
Staff Archaeologist	Bingham, Alexander	1	$29.00	$ 29.00
Asst. Project Manager	Harder, Brooke	20	$35.73	$ 714.60
Project and Proposal Director	Johnson, Melissa	1	$45.90	$ 45.90
Operations Supervisor	Tanner, Ashley	2	$34.27	$ 68.54
Safety Coordinator	St.Clair, Ozlem	2	$37.49	$ 74.98

LABOR COSTS (REGULAR EMPLOYEES)

a) Subtotal Direct Labor Costs $ 22,276.92
b) Anticipated Salary Increases (see page 2 for sample) $ 356.43
c) TOTAL DIRECT LABOR COSTS [(a) + (b)] $ 22,633.35

FRINGE BENEFITS (REGULAR EMPLOYEES)

d) Fringe Benefits Rate: 58.90%

e) TOTAL FRINGE BENEFITS [(c) x (d)] $ 13,331.04

INDIRECT COSTS (REGULAR EMPLOYEES)

f) Overhead Rate: 31.99%
h) General and Administrative Rate: 34.65%

g) Overhead [(c) x (f)] $ 7,240.41
i) Gen & Admin [(c) x (h)] $ 7,842.46
j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] $ 28,413.91

FIXED FEE

k) TOTAL FIXED PROFIT [(c) + (j) x fixed fee 10.00%] $ 5,104.73
Facilities Capital Cost of Money 0.15% $ 84.23

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING, AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed ☐ Prime Consultant ☐ Subconsultant ☑ 2nd Tier Subconsultant

Subconsultant Far Western Anthropological Research Group, Inc.
Project No. Bartlett Creek Bridge Replacement Contract No. TBD Date 7/16/2024

DIRECT LABOR

Temporary Employees

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Arch Field Technician A	Kennedy, Timothy	1	$32.00	$ 32.00
Arch Field Technician A	McWaters, Joshua	1	$30.00	$ 30.00

LABOR COSTS (TEMPORARY EMPLOYEES)

a) Subtotal Direct Labor Costs	$ 62.00	
b) Anticipated Salary Increases (see page 2 for sample)	$ 0.99	
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]		$ 62.99

FRINGE BENEFITS (TEMPORARY EMPLOYEES)

d) Fringe Benefits Rate: 18.70%

e) TOTAL FRINGE BENEFITS [(c) x (d)] $ 11.78

INDIRECT COSTS (TEMPORARY EMPLOYEES)

f) Overhead Rate: 6.94%
h) General and Administrative Rate: 7.63%

g) Overhead [(c) x (f)] $ 4.37

i) Gen & Admin [(c) x (h)] $ 4.81

j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] $ 20.96

FIXED FEE

k) TOTAL FIXED PROFIT [(c) + (j) x fixed fee 10.00%] $ 8.39

Facilities Capital Cost of Money 0.01% $ 0.01

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

Description of Item	Quantity	Unit	Unit Cost	Total
Per Diem (Motel)	8	Night	$121.98	$ 975.84
Meals/Incidentals	8	Day	$59.00	$ 472.00
Vehicle Rental (Day)	5	Day	$121.00	$ 605.00
Gasoline	--	At Cost	At Cost	$ 170.00
Backhoe (Two+ Field Days)	4	Day	$1,500.00	$ 6,000.00
Communication	--	At Cost	At Cost	$ 450.00
Record Search	--	At Cost	At Cost	$ 850.00
Reproduction	--	At Cost	At Cost	$ 325.00
			l) TOTAL OTHER DIRECT COSTS	$ 9,847.84

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

	Total
Subconsultant: Native American	$ 2,988.00
m) TOTAL SUBCONSULTANT'S COSTS	$ 2,988.00

n) TOTAL OTHER DIRECT COSTS [(l) + (m)] $ 12,835.84

TOTAL COST [(c) + (j) + (k) + (n)] $ 69,164.41

NOTES:

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

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 1 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(DESIGN, ENGINEERING, AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed

☐ Prime Consultant ☐ Subconsultant ☑ 2nd Tier Subconsultant

Subconsultant Far Western Anthropological Research Group, Inc.

Project No. Bartlett Creek Bridge Replacement Contract No. TBD Date 7/16/2024

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 2 of 3

ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS

(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Subconsultant Far Western Anthropological Research Group, Inc. Contract No. TBD Date July 16, 2024

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

Direct Labor Subtotal per Cost		Total Hours per Cost Proposal		Avg. Hourly Rate	5 Year Contract Duration
$22,338.92		501	=	$44.59	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation			
Year 1	$44.59	+	0%	=	$44.59	Year 1 Avg Hourly Rate
Year 2	$44.59	+	4%	=	$46.37	Year 2 Avg Hourly Rate
Year 3	$46.37	+	4%	=	$48.23	Year 3 Avg Hourly Rate
Year 4	$48.23	+	4%	=	$50.16	Year 4 Avg Hourly Rate
Year 5	$50.16	+	4%	=	$52.16	Year 5 Avg Hourly Rate

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

	Estimated % Completed Each		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	60%	*	501	=	300.6	Estimated Hours Year 1
Year 2	40%	*	501	=	200.4	Estimated Hours Year 2
Year 3	0%	*	501	=	0.0	Estimated Hours Year 3
Year 4	0%	*	501	=	0.0	Estimated Hours Year 4
Year 5	0%	*	501	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	501.0	

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

	Avg Hourly Rate (calculated above)		Estimated Hours (calculated above)		Cost per Year	
Year 1	$44.59	*	301	=	$13,403.35	Estimated Hours Year 1
Year 2	$46.37	*	200	=	$9,292.99	Estimated Hours Year 2
Year 3	$48.23	*	0	=	$0.00	Estimated Hours Year 3
Year 4	$50.16	*	0	=	$0.00	Estimated Hours Year 4
Year 5	$52.16	*	0	=	$0.00	Estimated Hours Year 5
			Total Direct Labor Cost with Escalation	=	$22,696.34	
			Direct Labor Subtotal before Escalation	=	$22,338.92	
			Estimated Total of Direct Labor Salary Increase	=	**$357.42**	Transfer to Page 1

Notes:

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

Form 10-H1
SUBCONSULTANT COST PROPOSAL

COST PROPOSAL

Consultant: Gallaway Enterprises, Inc.
Project No.: Bartlett Creek BHLO-5914(091) Contract No.: Change Order Date: 23-May-25

DIRECT LABOR

Classification	Name	Hours		Actual Hourly Rate	Total
Assoc. Biologist/Planner	Jessica Sellers/ Anthony McLaughlin	397.0	@	$ 42.00	$ 16,674.00
Sr. Planner/Project Manager*	Kevin Sevier	120.0	@	$ 46.00	$ 5,520.00
		30.0	@	$ 37.00	$ 1,110.00
GIS Analyst 1	Staff	0.0	@	$ 0.00	$ -
Administrator / Clerical	Ganna Kleppe	9.0	@	$ 28.00	$ 252.00

LABOR COSTS

a) Subtotal Direct Labor Costs	$ 23,556.00	
b) Anticipated Salary Increases	$ 306.23	
Total Direct Labor Costs		$ 23,862.23

INDIRECT COSTS

	Rate	Total	
Fringe Benefits	26.82%	$ 6,399.85	
Overhead/General and Administrative	128.15%	$ 30,579.45	
Total Indirect Costs			$ 36,979.29

FIXED FEE @ 10% $ 6,084.16

CONSULTANTS DIRECT COST

Description	Quantity	Unit	Unit Cost	Total	
Hardcopy report		1	$ 10.00	$ 0	
Mileage ($0.67 per mile)	364.00	1	$ 0.670	$ $ 243.88	
Total Direct Costs					$ 243.88

SUBCONSULTANTS COSTS

	$ $0.00	
	$	
Total Subconsultants Costs		$ -
Total other Direct Costs Including Subconsultants		$ 243.88
TOTAL COSTS		**$ 67,169.56**

1. Key personal must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.

2) The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultants's annual accounting period and estbalished by a cognizant agency or accepted by Caltrans.

3) Anticipated salary increases calculation (page 2) must accompany.

10-H1 Cost Proposal: Anticipated Salary Increases (page 2 of 3)

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

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal	Avg Hourly Rate	4 Year Contract Duration
$ 23,556.00	556	$ 42.37	

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

	Avg Hourly Rate	Proposed Escalation		
Year 1	$ 42.37	2%	$ 43.21	Year 2 Avg Hourly Rate
Year 2	$ 43.21	2%	$ 44.08	Year 3 Avg Hourly Rate
Year 3	$ 44.08	2%	$ 44.96	Year 4 Avg Hourly Rate

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

	Estimated % Completed Each Year		Total Hours per Cost Proposal	Total Hours Per Year	
Year 1	35	x	556	194.6	Est. Hours Year 1
Year 2	65	x	556	361.4	Est. Hours Year 2
Year 3		x	556	0	Est. Hours Year 3
Year 4		x	556	0	Est. Hours Year 4
Total	100%		Total	556	

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

	Avg Hourly Rate		Estimated Hours	Cost per Year	
Year 1	$ 42.37	x	194.6	$ 8,244.60	Est. Hours Year 1
Year 2	$ 43.21	x	361.4	$ 15,617.63	Est. Hours Year 2
Year 3	$ 44.08	x	0	$ -	Est. Hours Year 3
Year 4	$ 44.96	x	0	$ -	Est. Hours Year 4
	Total Direct Labor Cost with Escalation			$ 23,862.23	
	Direct Labor Subtotal before Escalation			$ 23,556.00	
	Estimated Total of Direct Labor Salary Increase			$ 306.23	Transfer to page 1

EXHIBIT 10-H COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS
(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-Ups are Not Allowed ☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant: BENDER ROSENTHAL, INC.

Project No. 14C-0106 Contract No. L01-832 Date July 11, 2024

Project Name BARTLETT CREEK AT BARTLETT SPRINGS ROAD BRIDGE

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hr Rate	Total
Project Manager	Rebekah Green	$62.00 - $75.00	10	$ 70.00	$ 700.00
Senior Administrative Support	Staff - TBD	$35.00 - $65.00	4	$ 40.00	$ 160.00
Administrative Support	Staff - TBD	$20.00 - $40.00	2	$ 25.00	$ 50.00
Researcher	Staff - TBD	$20.00 - $40.00	4	$ 32.00	$ 128.00
			20		

LABOR COSTS

a) Subtotal Direct Labor Costs	$ 1,038.00	
b) Anticipated Salary Increases	$24.91	
c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)]		**$ 1,062.91**

INDIRECT COSTS

d) Fringe Benefits (Rate: 39.83%)	c) Total Fringe Benefits [(c) x (d)]	$ 423.36	
f) Overhead (Rate: 28.46%)	g) Overhead [(c) x (f)]	$ 302.50	
h) General and Admin (Rate: 54.42%)	i) Gen & Admin [(c) x (h)]	$ 578.44	
	j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)]		**$ 1,304.30**

FIXED FEE k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%] **$ 236.72**

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

Description of Item	Quantity	Unit	Unit Cost	Total
Appraisal Report	1	Report	$ 4,500.00	$ 4,500.00
Permanent Acquisition	1	Each	$ 3,500.00	$ 3,500.00
Preliminary Title Reports	1	Report	$ 850.00	$ 850.00
Mileage/Travel	220	Miles	$ 0.67	$ 147.40
Shipping	2	Package	$ 35.00	$ 70.00
Caltrans Right of Way Certification	1	Certification	$ 1,000.00	$ 1,000.00
i) **TOTAL OTHER DIRECT COSTS**				**$ 10,067.40**

m) **SUBCONSULTANTS' COSTS** (Add additional pages if necessary) Independent Appraisal Review (1 @ $1,300 Each) $ 1,300.00

m) **TOTAL SUBCONSULTANTS' COSTS** **$ 1,300.00**

n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)] **$ 11,367.40**

TOTAL COST [(c) + (j) + (k) + (n)] **$ 13,971.33**

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

EXHIBIT 10-H COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

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

Direct Labor Subtotal per Cost Proposal		Total Hours per Cost Proposal		Avg Hourly Rate	**5 Year Contract Duration**
$1,038.00		20	=	$51.90	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation			
Year 1	$51.90	+	3.0%	=	$53.46	Year 2 Avg Hourly Rate
Year 2	$53.46	+	3.0%	=	$55.06	Year 3 Avg Hourly Rate
Year 3	$55.06	+	3.0%	=	$56.71	Year 4 Avg Hourly Rate
Year 4	$56.71	+	3.0%	=	$58.41	Year 5 Avg Hourly Rate

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

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	20.0%	*	20	=	4	Estimated Hours Year 1
Year 2	80.0%	*	20	=	16	Estimated Hours Year 2
Year 3	0.0%	*	20	=	0	Estimated Hours Year 3
Year 4	0.0%	*	20	=	0	Estimated Hours Year 4
Year 5	0.0%	*	20	=	0	Estimated Hours Year 5
Total	100.0%		Total	=	20	

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

	Avg Hourly Rate (Calculated above)		Estimated hours (Calculated Above)		Cost Per Year	
Year 1	$51.90	*	4	=	$207.60	Estimated Hours Year 1
Year 2	$53.46	*	16	=	$855.31	Estimated Hours Year 2
Year 3	$55.06	*	0	=	$0.00	Estimated Hours Year 3
Year 4	$56.71	*	0	=	$0.00	Estimated Hours Year 4
Year 5	$58.41	*	0	=	$0.00	Estimated Hours Year 5
		Total Direct Labor Cost with Escalation		=	$1,062.91	
		Direct Labor Subtotal before Escalation		=	$1,038.00	
		Estimated total of Direct Labor Salary Increase		=	$24.91	Transfer to Page 1

NOTES:
1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.

2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. $250,000 x 2% x 5 yrs = $25,000 is not an acceptable methodology)

3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.

4. Calculations for anticipated salary escalation must be provided.

EXHIBIT 10-H 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. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name**:	Renee Baur	Title**:	Chief Executive Officer
Signature:		Date of Certification (mm/dd/yyyy):	7/11/2024
Email**:	r.baur@benderrosenthal.com	Phone Number:	(916) 978-4900
Address:	2825 Watt Ave. Suite 200, Sacramento CA 95821		

**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:

Project Management, Appraisal, Appraisal Review, Acquisition & Right of Way Certification

COST PROPOSAL 1

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

Note: Mark-ups are Not Allowed

☐ Prime Consultant ☑ Subconsultant ☐ 2nd Tier Subconsultant

Consultant **Crawford & Associates, Inc.**

Project No. _____ Contract No. _____ Date **7/29/2024**

Project Name **Bartlett Creek at Bartlett Springs Road Bridge (14C-0106) - Additional Geotechnical Services**

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal *	Benjamin Crawford	0.0	$79.00	$ -
Principal *	Eric Nichols	22.0	$67.59	$ 1,486.98
Principal *	Shawn Leyva	0.0	$62.00	$ -
Senior Project Manager	Chris Trumbull	0.0	$74.67	$ -
Project Manager II	TBD	0.0	$56.44	$ -
Project Manager I	TBD	0.0	$50.00	$ -
Senior Engineer / Geologist	TBD	42.0	$45.38	$ 1,905.96
Project Engineer II / Geologist	TBD	0.0	$41.49	$ -
Project Engineer I / Geologist	TBD	24.0	$37.63	$ 903.12
Staff Engineer / Geologist	TBD	6.0	$34.25	$ 205.50
Drafter	TBD	8.0	$32.00	$ 256.00
Senior Project Coordinator	TBD	0.0	$36.75	$ -
Project Coordinator	TBD	0.0	$29.00	$ -
Administrative Assistant	TBD	12.0	$29.75	$ 357.00
Special Inspector	TBD	0.0	$44.50	$ -
Senior Technician	TBD	0.0	$38.50	$ -
Staff Technician	TBD	0.0	$33.48	$ -
Special Inspector I (Masonry) **	TBD	0.0	$52.48	$ -
Special Inspector II (Welding) **	TBD	0.0	$51.05	$ -
Laborer Technician **	TBD	0.0	$37.63	$ -
Soils/Asphalt Technician **	TBD	0.0	$48.25	$ -
Concrete Technician **	TBD	0.0	$45.58	$ -
		114		

LABOR COSTS

a) Subtotal Direct Labor Costs $ 5,114.56

b) Anticipated Salary Increases (see page 2 for calculation) $127.86

c) **TOTAL DIRECT LABOR COSTS** [(a) + (b)] $ 5,242.42

INDIRECT COSTS

d) Fringe Benefits Rate: 42.00% e) Total Fringe Benefits [(c) x (d)] $ 2,201.82

f) Overhead Rate: 135.00% g) Overhead [(c) x (f)] $ 7,077.27

h) General & Administrative Rate: 20.00% i) Gen & Admin [(c) x (h)] $ 1,048.48

Combined ICR %: 197.00%

j) **TOTAL INDIRECT COSTS** [(e) + (g) + (i)] $ 10,327.58

FIXED FEE k) **TOTAL FIXED FEE** [(c) + (j)] x fixed fee 10%] $ 1,557.00

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

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage (Current IRS Rate)	0	Mile	$ 0.67	$ -
Vehicle Charge	0	Day	$ 25.00	$ -
Per Diem (Lodging)	0	Day	$ -	$ -
Per Diem (Meals)	0	Day	$ -	$ -
				$ -

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

Subconsultant 1: $ -

Subconsultant 2: $ -

m) TOTAL SUBCONSULTANT'S COSTS $ -

n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS** [(l) + (m)] $ -

** Indicates prevailing wage work

TOTAL COST [(c) + (j) + (k) + (n)] $ 17,127.00

CALCULATIONS FOR ANTICIPATED SALARY INCREASE

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

Direct Labor Subtotal per Cost Proposal		Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
$5,114.56		114	=	**44.86**	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation			
Year 1	$44.86	+	5.0%	=	$47.11	Year 2 Avg Hourly Rate
Year 2	$47.11	+	5.0%	=	$49.46	Year 3 Avg Hourly Rate
Year 3	$49.46	+	5.0%	=	$51.94	Year 4 Avg Hourly Rate
Year 4	$51.94	+	5.0%	=	$54.53	Year 5 Avg Hourly Rate

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

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	50%	*	114	=	57.00	Est Hours Year 1
Year 2	50%	*	114	=	57.00	Est Hours Year 2
Year 3	0%	*	114	=	0.00	Est Hours Year 3
Year 4	0%	*	114	=	0.00	Est Hours Year 4
Year 5	0%	*	114	=	0.00	Est Hours Year 5
Total	**100%**		Total	=	114.00	

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

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	$44.86	*	57	=	$2,557.28	Est Hours Year 1
Year 2	$47.11	*	57	=	$2,685.14	Est Hours Year 2
Year 3	$49.46	*	0	=	$0.00	Est Hours Year 3
Year 4	$51.94	*	0	=	$0.00	Est Hours Year 4
Year 5	$54.53	*	0	=	$0.00	Est Hours Year 5
			Total Direct Labor Cost with Escalation	=	$5,242.42	
			Direct Labor Subtotal before Escalation	=	$5,114.56	
			Estimated Total of Direct Labor Salary Increase	=	**$127.86**	*(Transfers to Page 1)*

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

CERTIFICATION OF DIRECT COSTS

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

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (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 In direct Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Benjamin D. Crawford Title *: President

Signature :  Date of Certification: 7/29/2024

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

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

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

List services the consultant is providing under the proposed contract:

Geotechnical Engineering Services

Lake County
Bartlett Springs Road Bridge over Bartlett Creek Project (14C0106)

Hour and Fee Estimate for HDR Tasks
Prepared by HDR

August 2, 2024

TASK	DESCRIPTION	Principal Engineer	Project Coordinator	Project Accountant	Technical Editor	Supervising Engineer	Senior Civil Designer	Civil Coordinator	Civil Engineer	Senior Civil Engineer	TOTALS BY TASK					
											Hours	Labor Cost	Escalation 5.0%	OH Rate 157.94%	Fee 10%	Total
	Billing Raw Rate	133.71	40.89	36.34	40.97	103.00	74.04	57.05	51.20	79.33						
Basic Tasks																
Labor																
1	**Project Management**	4	12	12		4	24				56	$ 3,650.56	$ 211.73	$ 6,100.10	$ 996.24	$ 10,958.63
2	**Bridge Design Hydraulic Study**	10	0	0	8	16	14	48	4	8	108	$ 7,927.26	$ 459.78	$ 13,246.49	$ 2,163.35	$ 23,796.88
	Type Selection Meeting	2				4					6					
	Respond to Comments	2			2	2	2				8					
	Update Hydrologic Analysis					2	4	4			10					
	Update Hydraulic Model					2		4			6					
	Update Scour Analysis	2				2		8	4		16					
	Update RSP Analysis	2				2		8		4	16					
	Final BDHS	2			6	2	8	24		4	46					
3	**Floodplain Evaluation Report/Location Hydraulic Study**	2	0	0	6	2	6	16	0	4	36	$ 2,393.60	$ 138.83	$ 3,999.72	$ 653.22	$ 7,185.37
	Final FER/LHS	2			6	2	6	16		4	36					
	Subtotal Labor	16	12	12	14	22	44	64	4	12	200	$ 13,971.42	$ 810.34	$ 23,346.31	$ 3,812.81	$ 41,940.88
Expense																
	Travel & Per Diem															$ -
	Office Misc. & Reproductions															$ -
	Subtotal Expense															$ -
															Total Project Tasks	$ 41,940.88
Optional Tasks																
Labor																
O.1	**Temporary Diversion**	4	2	2	10	6	14	40	32	0	110	$ 6,673.96	$ 387.09	$ 11,152.22	$ 1,821.33	$ 20,034.60
	Construction Season Flow Hydrologic Assessment	2				2	2	8	8		22					
	Temporary Diversion Hydraulic Assessment					1	2	8			11					
	Memorandum - Draft	2			6	2	6	16	16		48					
	Memorandum - Final		2	2	4	1	4	8	8		29					
O.2	**2D Hydraulics**	6	2	2	0	9	16	86	18	6	145	$ 9,372.24	$ 543.59	$ 15,661.06	$ 2,557.69	$ 28,134.58
	Hydrologic Analysis					1		2		2	5					
	Hydraulic Model					2		36	18	4	60					
	Scour Analysis	2				2	4	12			20					
	RSP Analysis	2				2	4	12			20					
	Final BDHS	2	2	2		2	8	24			40					
	Subtotal Labor	10	4	4	10	15	30	126	50	6	255	$ 16,046.20	$ 930.68	$ 26,813.28	$ 4,379.02	$ 48,169.18
Expense																
	Travel & Per Diem															$ -
	Office Misc. & Reproductions															$ -
	Subtotal Expense															$ -
															Total Optional Tasks	$ 48,169.18
															Total Amendment Cost	$ 90,110.06