

ACCOUNTING	_____
AUDITOR	_____
FILE	☒

AMENDMENT ONE TO AGREEMENT FOR ENGINEERING SERVICES
FOR
REPLACEMENT OF CLOVER CREEK BRIDGE AT FIRST STREET (14C-0015)
IN LAKE COUNTY, CALIFORNIA

THIS AMENDMENT ONE TO AGREEMENT is made this 18th day of September, 2018, by and between the County of Lake, hereinafter referred to as "COUNTY", and Quincy Engineering, Inc., hereinafter referred to as "CONSULTANT".

WITNESSETH

WHEREAS, COUNTY and CONSULTANT have entered into an AGREEMENT dated February 28, 2017 to provide preliminary and final design, environmental services, right of way, bidding and construction assistance services in order to replace the Clover Creek Bridge at First Street (14C-0015); 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 a 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 modified to read as follows:

- A. 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 Exhibit "A", the provisions of this Agreement shall control.

2. "Compensation" under ARTICLE VI, "COMPENSATION AND TERMS OF PAYMENT" is modified to read as follows:

- C. **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 "B" 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 \$420,907.51 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 \$29,234.19. 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.

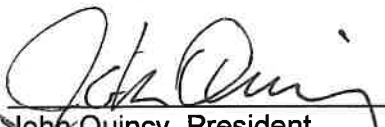
Except as specifically modified herein, all other terms and conditions of the AGREEMENT dated February 28, 2017 shall remain in full force and effect.

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

COUNTY OF LAKE:

Quincy Engineering, Inc.


Chair, Board of Supervisors


John Quincy, President

ATTEST:

CAROL J. HUCHINGSON
Clerk of the Board of Supervisors



APPROVED AS TO FORM:

ANITA L. GRANT
County Counsel

By: 


By: 

The within instrument is a correct
copy of the document on file in
this office.

ATTEST: 9-18-18
CAROL J. HUCHINGSON
Clerk of the Board of Supervisors of
the State of California in and for the
County of Lake

EXHIBIT "C"

**AMENDMENT ONE TO AGREEMENT FOR ENGINEERING SERVICES
FOR
REPLACEMENT OF CLOVER CREEK BRIDGE AT FIRST STREET (14C-0015)
IN LAKE COUNTY, CALIFORNIA**

SCOPE OF WORK

Clover Creek Bridge at First Street (14C0015)

BRLO-5914(079)

This *Detailed Scope of Work* is an amendment to the original contract scope of work approved on February 28, 2017.

This amendment is based on the following changes and discovery that have occurred requiring the scope of work to be modified:

- APE boundary changed based on design information developed under Task 3.5 of the original contract scope of work. The contract scope of work and contract budget excluded revisions to the APE map and Project Description.
- After consulting with Caltrans, it was determined that the new APE limits would require a supplemental ASR and HPSR. A minor revision to the draft Delineation of Waters of the US will also be necessary. Additionally, Caltrans is now requiring an HRER be prepared for the two properties on the north side of First Street. The County has a separate consultant contract to prepare the HRER. It is anticipated that Quincy will review the report and provide comments
- The original scope of work was based on the County provided Design Criteria of 20' traveled way with 5' shoulders. Preliminary design (35% plans) were developed based on that criteria. The County requested that Quincy develop an alternative 35% design that would accommodate parking in the shoulder areas beyond the bridge. The bridge would have 5' shoulders as planned. Additional information was also discovered after a project site meeting with two property owners.
- Additional topographic survey data may be needed to determine specific impacts to private property, outside the original project APE limits. Design and construction will need to extend further on to the parcels than was anticipated to mitigate impacts. This information came as a result of the 35% design performed to date as well as the potential wider shoulder widths the County is considering.
- The Central Valley Flood Protection Board (CVFPB) has determined that this project falls under their jurisdiction for regulating the channel. Coordination with CVFPB was not included in the original contract scope of work, and information on the jurisdictional claim by CVFPB was not available at the time the scope of work was developed. Based on a pre-application coordination meeting with the CVFPB, and based on preliminary hydraulics and proposed bridge configuration, a permit will be required, and will likely require approval from the CVFPB for a variance to their design criteria because the proposed project will not accommodate the required design flow plus freeboard.
- The project will need to comply with the Phase II Small Municipal Separate Storm Sewer System (MS4) Program (Water Quality Order No. 2013-0001-DWQ). The Central Valley Regional Water Quality Control Board 401 Water Quality Certification also has a relatively new Low Impact Development (LID) design requirement to address post construction water quality and hydromodification. Post construction storm water treatment (permanent/design BMP's) were specifically excluded from the original contract scope and budget (Task 5).

TASK 2 – PROJECT MANAGEMENT

Task 2.1 - Project Management

Additional project management budget is anticipated due to subconsultant coordination and to update the various project management tracking tools such as the tracking document for submittals, accounting database, and project schedule.

Task 2.2 - Progress Meetings

The original scope of work included an in person meeting at the completion of the 35% which included the assumption that it would be combined with a meeting on another Lake County project to save on travel costs. A meeting was held on January 24, 2018 with the property owners. This meeting is considered as included in the original contract scope of work. The next in-person meeting would be to review the design at the 65% complete stage. If additional meetings are required, an amendment for this task may be requested.

TASK 3 - PRELIMINARY ENGINEERING

Task 3.1 - Surveys and Mapping

This task will be performed as required and with specific authorization from the County. Additional topographic detail may be required to evaluate impacts to private property, and to provide more detailed information to the property owners (limits of driveway reconstruction to maintain driveway access at the Gerard property, tree and vegetation impacts for both the Gerard and Williams properties). It is anticipated that supplemental topo points can be obtained during the right of way staking that will occur as part of Task 7.1. However, if additional topographic survey data is needed prior to that task being authorized, an additional survey mobilization may be needed. If needed, Quincy will request specific authorization from the County to proceed with this optional scope.

Task 3.1 Deliverables

- ✓ Supplemental topographic surveys

Task 3.5 - Preliminary Plans/Design

Preliminary Roadway Plans (35% Plans)

Quincy will prepare a two additional alternatives to show the limits of construction providing 8' shoulders. The shoulder will transition from 5' at the bridge to 8' over a distance of 10'-12'. The alternatives will include a fill slope option and a retaining wall option including right of way impacts for both.

Task 3.4 & 3.5 Deliverables

- ✓ Revised Design Criteria Memo
- ✓ Revised 35% Plans for Two Alternatives

This submittal will include Typical Cross Sections, Layout and Profile (Geometric Approval) Plan sheets for one preferred alignment alternative. The Layout will include toe of fill (catch points) with a range of approximate fill slope heights along the north side of First Street. Additional design effort will be made to refine the extent of the driveway limits, and the proposed driveway grades/profiles.

TASK 4 - ENVIRONMENTAL STUDIES

Task 4.1 – Project Description and APE Map

The contract scope of work and contract budget excluded revisions to the APE map and Project Description. After preliminary design information was developed, it was determined that the previously approved APE did not capture the full area of direct impacts. Additional right of way, temporary construction easements and ground disturbance may occur outside the approved APE. This amendment includes one revision to the APE map to include the additional areas of impact. The revised APE map will be prepared by Quincy.

Quincy will prepare additional language for the project description as needed to include the extent of the impacts for the shoulder width alternatives being considered.

Task 4.1 Deliverables

- ✓ Revised APE Map
- ✓ Revised Project Description

Task 4.2 – NEPA/CEQA Technical Studies (Gallaway)

The original contract scope of work was based on technical studies (HSPR/ASR, NES, and BA) being complete. Gallaway was included on our team as part of the consultant selection process to address any changes that may require updates or revisions to these technical studies.

To address the changes to the APE map, supplements to the ASR and HPSR are required. Quincy will supply the new Caltrans approved Area of Potential (APE) Impact map. In-house staff at Gallaway Enterprises will conduct a field study of the expanded APE, and will draft a supplemental report to the Caltrans approved ASR/HSPR. Native American consultations are excluded from this scope of work. One review of the supplemental ASR and HPSR by the County and Caltrans is included.

The delineation of Waters of the US (WOTUS) project boundary must be the same as the project boundary in the ASR/HSPR, therefore Gallaway will revise the delineation report and graphics to be consistent with the new APE boundary.

Quincy will review and provide comments on the HRER report being prepared by the County's consultant.

Gallaway's estimated cost for this additional scope is approximately \$3,700. At this time, additional budget will not be requested for Gallaway's effort. We anticipate that Gallaway's original contract budget for Task 4.2 will not be fully expended, and that the unexpended portion will cover the additional Gallaway scope for this amendment. However if future effort for the remaining scope exceeds what is currently anticipated, a budget amendment may be requested.

Task 4.2 Deliverables

- ✓ ASR and HPSR Supplements (Draft and Final)
- ✓ Revised Final Draft Delineation of WOTUS

TASK 5 - FINAL DESIGN ENGINEERING

Task 5.1 Road and Bridge Design

Quincy will prepare the PS&E for the Post Construction Water Quality Treatment Design performed by WRECO (Task 6.3). We anticipate one plan sheet will be required for the BMP design details.

TASK 6 - PERMITS

Task 6.2 Central Valley Flood Protection Board (CVFPB) Encroachment Permit

Quincy and WRECO will attend a pre-application meeting in Sacramento with the CVFPB staff to discuss the proposed project, challenges with the project, and permit requirements. This meeting will be held prior to Final Design Engineering Tasks. A meeting summary will be prepared and provided to all attendees.

Once the 65% plans are completed, Quincy will complete an application for an CVFPB Encroachment Permit. It is expected that a variance from the design criteria established by CVFPB will be needed. Based on preliminary hydraulic information, the project will not meet the requirement of passing the O&M flow plus freeboard. We expect to prepare documentation to justify the variance, which will include the construction and right of way costs that would be needed to meet the full standard. This documentation will include a cost estimate showing the additional cost to meet the standard, and a conceptual exhibit showing additional right of way and environmental impacts. Design level plans showing an alternative that would meet the CVFPB standard are not included in this scope of work. We have included 86 hours to prepare the application including attachments, attend an in-person meeting (after the application is submitted) in Sacramento with the CVFPB, and to make one round of comments and revisions from the CVFPB before the application is approved. It is expected that the Caltrans NEPA document and supporting technical studies will be sufficient. Gallaway has not included any effort under this scope of work to provide additional environmental analysis or documentation for this permit nor for a design alternative that would meet the CVFPB standards.

Task 6.2 Deliverables

- ✓ CVFPB Encroachment Permit Application (Draft and Final)
- ✓ Pre and Post Application meetings with CVFPB

Task 6.3 Post Construction Water Quality Treatment Design

WRECO will prepare the Stormwater Control Plan documenting the water quality setting, regulatory requirements, and design calculations for the proposed stormwater treatment and hydromodification measures.

Task 6.3.1 Project Management

WRECO will provide monthly invoices and progress reports. WRECO and Quincy participate in up to four (4) conference calls with the County and Project Team staff, one of which may include the Central Valley Regional Water Quality Control Board.

Task 6.3.2 Data Review

WRECO will review available data, including previous and current plans and studies, provided by the County and the Project Team.

Task 6.3.3 Field Reconnaissance

WRECO will conduct a field reconnaissance to assess the existing conditions in the vicinity of the Project site and will review the Project site to determine feasible locations for placement of stormwater treatment and hydromodification management measures.

Task 6.3.4 Stormwater Control Plan

WRECO will prepare a Stormwater Control Plan summarizing the Project impacts to water quality including documenting stormwater treatment and hydromodification management measures. The study will only address the impacts from the roadway and bridge improvements. WRECO will evaluate the proposed impervious surface improvements and determine the required post-construction

management requirements. The management measures will meet the criteria set by the Phase II Small MS4 Permit administered by Central Valley Regional Water Quality Control Board. The Stormwater Control Plan will describe the proposed work, summarize the impervious surface improvements, and present the management measures used to meet the stormwater requirements and design calculations associated with these measures.

WRECO will provide initial sketches, markups and draft details and specifications for incorporation into the PS&E. Quincy Engineering will develop the stormwater treatment PS&E, including watershed maps and drainage design calculations for WRECO's use. WRECO will review the draft (65%) and final (100%) PS&E to verify the design of the stormwater treatment and hydromodification management measures.

Assumptions:

It is assumed that the treatment BMP will be constructed within the previously approved APE. This scope of work does not include additional environmental revalidation or updates to reports to incorporate the Water Quality BMP design or construction.

Deliverables:

- Draft Stormwater Control Plan (PDF and 3 hard copies)
- Final Stormwater Control Plan (PDF and 5 hard copies)

Exhibit 10-H1 Cost Proposal
Actual Cost-Plus-Fixed Fee Contracts☒ Prime Consultant ☐ SubconsultantConsultant Quincy Engineering, Inc.Project Name First Street at Clover CreekProject No. BRLO 5714(079)Contract No. L01-822Date 7/31/2018

DIRECT LABOR

Classification/Title	Name	Initials	Range	Hours	Initial Hourly Rate	Total
Principal Eng. *	Mark Reno	MR	\$64-\$87	36	\$ 87.00	\$ 3,132.00
Senior PM *	Carolyn Davis	CD	\$55-\$95	44	\$ 78.00	\$ 3,432.00
Senior Eng. *	Scott McCauley	SMc	\$48-\$78	43	\$ 66.90	\$ 2,876.70
Assist Eng. I	Chris Brazil	CB	\$27-\$46	58	\$ 32.40	\$ 1,879.20
Survey Mgr	Jim Thornton	JT	\$39-\$62	2	\$ 62.00	\$ 124.00
Survey Tech **	Alfonso Dabu	AD	\$29-\$42	20	\$ 42.00	\$ 840.00
Assoc Eng. **	Ryan Kotey	RK	\$34-\$63	12	\$ 48.50	\$ 582.00
Assoc Eng.	Andrew Mitchell	AM	\$34-\$63	8	\$ 52.10	\$ 416.80
CAD Manager	Bob Maechler	BM	\$34-\$56	0	\$ 47.10	\$ -
CAD Tech	Patrick Kenney	PK	\$22-\$37	0	\$ 27.40	\$ -
Assist Eng. I	Salim Bouzid	Sbo	\$27-\$46	0	\$ 29.20	\$ -
Intern	Steffen Berr	Sbe	\$16-\$25	8	\$ 17.00	\$ 136.00
Apprentice **	Apprentice	App	\$32-\$52	0	\$ 32.00	\$ -
	blank			0	\$ -	\$ -
	blank			0	\$ -	\$ -
Admin Asst	Phyllis Jordan	PJ	\$12-\$40	3	\$ 38.50	\$ 115.50

234 \$ 13,534.20

LABOR COSTS

- a) Subtotal Direct Labor Costs \$13,534.20
- b) Estimated Salary Increases for Multi-Year Project \$168.66 (see calculation page attached)
- c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$13,702.86

INDIRECT COSTS

- d) Fringe Benefits (Rate: 37.9%): e) Total Fringe Benefits [(c) x (d)] \$5,193.38
- f) Overhead (Rate: 116.9%): g) Overhead [(c) x (f)] \$16,018.64
- h) General Administration (Rate: 0.0%): i) Gen & Admin [(c) x (h)] \$0.00
- j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$21,212.03

FIXED FEE

- k) Fixed Fee (10.0%): l) TOTAL FIXED FEE [(c) + (j)] x (k) \$3,491.49

CONSULTANT'S OTHER DIRECT COSTS (ODC)

Travel (@ active IRS mileage rate)	300 miles @	\$0.545	\$163.50
Pier Diem/ Hotel	2 days @	\$180.00	\$360.00
Delivery	0 @	\$20.00	\$0.00
Vendor Reproduction			
	Veilum @	\$0.00	\$0.00
	8 1/2 X 11 Reproduction @	\$0.00	\$0.00
	11 X 17 Reproduction @	\$0.00	\$0.00
	Mounting Boards for Presentations @	\$0.00	\$0.00
	Newsletters (Translation and printing) @	\$0.00	\$0.00
	Subtotal Vendor Reproduction		\$0.00
Title Report	0 @	\$0.00	\$0.00
Miscellaneous			\$0.00
m) TOTAL OTHER DIRECT COSTS		\$523.50	\$523.50

n) SUBCONSULTANT COSTS (attach detailed cost proposal for each subconsultant)

Gallaway	\$0.00
WRECO	\$20,048.53
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
	<u>\$20,048.53</u>
	<u>\$20,048.53</u>

o) TOTAL COST [(c) + (j) + (l) + (m) + (n)] \$58,978.41

NOTES:

- Key personnel marked with an asterisk (*).
- Employees subject to prevailing wage marked with two asterisks (**).
- Anticipated salary increases N/A for this amendment, all amendment work complete by 2/2019
- Note: Invoices will be based upon actual QEI hourly rates plus overhead at 154.8% 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 agree to modify the rate in writing.

EXHIBIT 10-H1 COST PROPOSAL

PAGE 2 OF 2

ACTUAL COST-PLUS-FIXED FEE CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)Consultant Quincy Engineering, Inc.Contract No. L01-822Date 7/31/2018First Street at Clover Creek**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
\$ 13,534.20	234	=	\$57.84	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 =	5.0%		
Year 1	\$57.84	+	2.5%	=	\$59.28 Year 1 Avg Hourly Rate
Year 2	\$59.28	+	5.0%	=	\$62.24 Year 2 Avg Hourly Rate
Year 3	\$62.24	+	5.0%	=	\$65.35 Year 3 Avg Hourly Rate
Year 4	\$65.35	+	5.0%	=	\$68.62 Year 4 Avg Hourly Rate
Year 5	\$68.62	+	5.0%	=	\$72.05 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%	*	234.0	=	117.0	Estimated Hours Year 1
Year 2	50.00%	*	234.0	=	117.0	Estimated Hours Year 2
Year 3	0.00%	*	234.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	234.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	234.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	234.0	

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

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$57.84	*	117	=	\$6,767.10	Estimated Hours Year 1
Year 2	\$59.28	*	117	=	\$6,935.76	Estimated Hours Year 2
Year 3	\$62.24	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$65.35	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$68.62	*	0	=	\$0.00	Estimated Hours Year 5
	Total Direct Labor Cost with Escalation			=	\$13,702.86	
	Direct Labor Subtotal before Escalation			=	\$13,534.20	
	Estimated total of Direct Labor Salary Increase			=	\$168.66	Transfer to Page 1

NOTES:

- This assumes that an average of one half year will be worked at the rate on the cost proposal.

EXHIBIT 10-H1 COST PROPOSAL Page 3 of 3

Certification of Direct Costs:

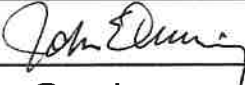
I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

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: John S. Quincy Title *: President
Signature :  Date of Certification (mm/dd/yyyy): 08/24/18
Email: johnq@quincyeng.com Phone Number: 916-368-9181
Address: 11017 Cobblerock Drive, 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:

Project management, plans, specifications and estimate development

[illegible]

Cost Proposal

First Street at Clover Creek

Amendment 1

Date: 7/31/2018

Quincy Engineering, Inc.

Direct Labor:	\$13,534.20
Estimated Salary Increases for Multi-Year Project	\$168.66
Subtotal	\$13,702.86
Overhead (1.548):	\$21,212.03
A. Labor Subtotal	\$34,914.89

Subconsultant Costs:

Gallaway	\$0.00
WRECO	\$20,048.53
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
0	\$0.00
B. Subconsultant Subtotal	\$20,048.53

Other Direct Costs:

Travel (@ active IRS mileage rate)	300 miles @	\$0.545	\$163.50
Pier Diem/ Hotel	2 days @	\$180.00	\$360.00
Delivery	0 @	\$20.00	\$0.00
Vendor Reproduction			
	Vellum @	\$0.00	
	8 1/2 X 11 Reproduction @	\$0.00	
	11 X 17 Reproduction @	\$0.00	
	Mounting Boards for Presentations @	\$0.00	
	Newsletters (Translation and printing) @	\$0.00	
	Subtotal Vendor Reproduction		\$0.00
Title Report	@		\$0.00
Miscellaneous			
C. Other Direct Cost Subtotal:			\$523.50

Labor Subtotal A. =	\$34,914.89
Fixed Fee (10.0%):	\$3,491.49
Subconsultant Subtotal B. =	\$20,048.53
Fixed Fee (0.0%):	\$0.00
Other Direct Cost Subtotal: C. =	\$523.50
Fixed Fee (0.0%):	\$0.00

TOTAL = **\$58,978.41**

Note: Invoices will be based upon actual QEI hourly rates plus overhead at 154.8% 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 agree to modify the rate in writing.

EXHIBIT 10-H1 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 SubconsultantConsultant: WRECO Contract No.: _____ Date: 8/22/2018

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal Engineer	Han-Bin Liang	4	\$ 95.38	\$ 381.52
Supervising Engineer II	Analette Ochoa	10	\$ 78.86	\$ 788.60
Senior Engineer	Joyce Cheng/Andrew Chin	32	\$ 56.40	\$ 1,804.80
Associate Engineer	Haimet Kassaye	48	\$ 39.23	\$ 1,883.04
Staff Engineer	Denny Zhu	48	\$ 28.62	\$ 1,373.76
Senior Technician	Mei Du/Ashley Chan	40	\$ 30.30	\$ 1,212.00
Clerical/Tech Editor	Phillip Petermann/Emmy Tsang	2	\$ 26.07	\$ 52.14

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ 7,495.86
b) Anticipated Salary Increases (see page 2)	\$ -
c) TOTAL DIRECT LABOR COSTS	\$ 7,495.86

INDIRECT COSTS

d) Fringe Benefits Rate:	71.95%	e) Total Fringe Benefits	\$ 5,393.27
f) Overhead Rate:	40.10%	g) Overhead	\$ 3,005.84
h) General and Administrative Rate:	28.10%	i) Gen & Admin	\$ 2,106.34
		j) TOTAL INDIRECT COSTS	\$ 10,505.45

FIXED FEE

Rate:	10.00%	k) TOTAL FIXED FEE	\$ 1,800.14
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I) CONSULTANT'S OTHER DIRECT COSTS (ODC) – ITEMIZE

Description	Quantity	Unit(s)	Unit Cost	Total
Travel/Mileage/Vehicle (supported by consultant actual costs)	270	Miles	\$ 0.545	\$ 147.08
Reproductions	2	EA	\$ 50.00	\$ 100.00
Overnight Delivery/Shipment		EA	\$ 25.00	\$ -
Laboratory Testing - Non-DBE		LS	\$ -	\$ -
Drilling and Field Sampling - Non-DBE		LS	\$ -	\$ -
Traffic Control Non-DBE		LS	\$ -	\$ -
Potholing & Roadway Patching		LS	\$ -	\$ -

I) TOTAL OTHER DIRECT COSTS \$ 247.08

m) SUBCONSULTANTS' COSTS

Subconsultant 1:	\$ -
m) TOTAL SUBCONSULTANTS' COSTS	\$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS \$ 247.08

TOTAL COST \$ 20,048.53

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-H1 COST PROPOSAL

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

(SAMPLE CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Consultant: WRECO Contract No.: _____ Date: 6/4/2018

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 Year 1 Avg Hourly Rate
\$7,494.76	162.0	=	46.26	

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	\$46.26	+	3%	=	\$47.65	Year 2 Avg Hourly Rate
Year 2	\$47.65	+	3%	=	\$49.08	Year 3 Avg Hourly Rate
Year 3	\$49.08	+	3%	=	\$50.55	Year 4 Avg Hourly Rate
Year 4	\$50.55	+	3%	=	\$52.07	Year 5 Avg Hourly Rate

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

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	100.0%	*	162.00	=	162.00	Estimated Hours Year 1
Year 2	0.0%	*	162.00	=	0.00	Estimated Hours Year 2
Year 3	0.0%	*	162.00	=	0.00	Estimated Hours Year 3
Year 4	0.0%	*	162.00	=	0.00	Estimated Hours Year 4
Year 5	0.0%	*	162.00	=	0.00	Estimated Hours Year 5
Total	100%		Total	=	162.0	

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

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$46.26	*	162.00	=	\$7,494.76	Estimated Hours Year 1
Year 2	\$47.65	*	0.00	=	\$0.00	Estimated Hours Year 2
Year 3	\$49.08	*	0.00	=	\$0.00	Estimated Hours Year 3
Year 4	\$50.55	*	0.00	=	\$0.00	Estimated Hours Year 4
Year 5	\$52.07	*	0.00	=	\$0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$7,494.76	
Direct Labor Subtotal before Escalation				=	\$7,494.76	
Estimated total of Direct Labor Salary Increase				=	\$0.00	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

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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: Han-Bin Liang, Ph.D., P.E.Title: PresidentSignature: Date of Certification (mm/dd/yyyy): 6/4/2018Email: hanbin_liang@wreco.comPhone Number: (925) 941-0017Address: 1243 Alpine Road, Suite 108, Walnut Creek, CA 94596

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

List services the consultant is providing under the proposed contract:

Field reconnaissance and stormwater control plan.

