

**THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS  
BOARD ACTION SUMMARY**

DEPT: Public Works

BOARD AGENDA: 4.C.1  
AGENDA DATE: January 29, 2019

**SUBJECT:**

Approval of Amendment No. 4 to the Quincy Engineering, Inc. Professional Design Services Agreement for the Milton Road over Rock Creek Tributary Bridge Replacement Project

**BOARD ACTION AS FOLLOWS:**

**RESOLUTION NO. 2019-0049**

On motion of Supervisor DeMartini Seconded by Supervisor Chiesa  
and approved by the following vote,

Ayes: Supervisors: Olsen, Chiesa, Berryhill, DeMartini, and Chairman Withrow

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) X Approved as recommended

2)        Denied

3)        Approved as amended

4)        Other:

**MOTION:**

ATTEST: Elizabeth A. King  
ELIZABETH A. KING, Clerk of the Board of Supervisors

File No.

**THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS**  
**AGENDA ITEM**

DEPT: Public Works

BOARD AGENDA:4.C.1  
AGENDA DATE: January 29, 2019

CONSENT: ☒

CEO CONCURRENCE:

4/5 Vote Required: No

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**SUBJECT:**

Approval of Amendment No. 4 to the Quincy Engineering, Inc. Professional Design Services Agreement for the Milton Road over Rock Creek Tributary Bridge Replacement Project

**STAFF RECOMMENDATION:**

1. Approve Amendment No. 4 to the Quincy Engineering, Inc. professional design services agreement for additional and modified environmental studies for the Milton Road over Rock Creek Tributary Bridge Replacement Project, in the amount of \$150,979.
2. Authorize the Director of Public Works to execute the amendment with Quincy Engineering, Inc. in the amount of \$150,979 and to sign necessary documents.

**DISCUSSION:**

The Milton Road over Rock Creek Tributary Bridge, constructed in 1918, was originally a seven-span structure approximately 143 feet long and 17 feet wide consisting of reinforced concrete "T" beams. In 1968, the bridge was widened on both sides with reinforced concrete slabs for a total width of 32.8 feet and the foundations consist of spread footings at all piers and abutments. In 1990, supplemental concrete columns were constructed at three of the bridge piers. The bridge has metal beam guardrails on steel posts, but no approach guardrails.

Milton Road is a rural county road in the northern part of Stanislaus County that travels in the north/south direction. The bridge is located approximately 3.4 miles north of State Route 4 and serves as a major rural collector into Stanislaus County.

The purpose of the project is to improve traffic safety conditions and to comply with current County and American Association of State Highway and Transportation Officials (AASHTO) guidelines by replacing a structurally deficient bridge with a new structure that meets current standards, raising the elevation of the new bridge to accommodate flood flows, and adjusting the road geometry approaching the new bridge to match the new bridge alignment.

The County is proposing to replace the bridge with a four-span, cast-in-place, reinforced concrete slab bridge. The new bridge/road centerline would be offset to the west of the existing bridge by approximately 34 feet. Approximately 1,480 feet of the roadway would be modified to match the new bridge location and elevation. The new bridge and roadway approaches would meet AASHTO's policy on Geometric Design of Highways

and Streets. The roadway approaches would be 32 feet wide, which include 28 feet of paved section and 4 feet of unpaved/graded shoulder (two 11-foot-wide paved lanes and two 5-foot-wide shoulders consisting of 3 feet paved and 2 feet unpaved). With railing, the bridge would be approximately 31 feet wide (clear width of 28 feet) and 150 feet long.

On May 6, 2014, the Board awarded a Professional Design Services Agreement to Quincy Engineering, Inc. for \$466,366. The agreement was amended on December 11, 2015 to extend the expiration date to August 1, 2017, again on July 28, 2017 to extend the agreement expiration date to December 31, 2018, and again on December 31, 2018 to extend the agreement expiration date to March 31, 2021. Amendments one through three were time based only.

As a result of input from Caltrans and U.S. Fish and Wildlife Services, as well as the identification of recorded cultural resource sites within the project area of potential effects, additional and modified environmental studies are needed to obtain regulatory approval. The purpose of Amendment No. 4 is to provide additional and modified environmental studies that were not envisioned with the original scope of the Professional Design Services Agreement.

**POLICY ISSUE:**

Public Contract Code section 20137 requires Board of Supervisors' approval to amend a contract exceeding 10% of the original agreement.

**FISCAL IMPACT:**

The requested Amendment No. 4 for \$150,979 is funded with \$133,662 of Highway Bridge Program (HBP) funds and \$17,317 of Public Works Road funds as the Local Match. Funding is included in the Fiscal Year 2018-2019 Adopted Final Public Works Road Projects Budget.

**BOARD OF SUPERVISORS' PRIORITY:**

The recommended actions are consistent with the Board's priority of *Delivering Efficient Public Services and Community Infrastructure* by replacing a structurally deficient bridge that is declared a critical link within Stanislaus County.

**STAFFING IMPACT:**

Existing Public Works staff is overseeing this project.

**CONTACT PERSON:**

David Leamon, Public Works Director

Telephone: (209) 525-4151

**ATTACHMENT(S):**

1. Amendment No. 4 - Professional Design Services - Quincy Engineering

**STANISLAUS COUNTY**  
**Fourth Amendment to Professional Design Services Agreement**  
**between County of Stanislaus and Quincy Engineering**

**Milton Road over Rock Creek Tributary Bridge Replacement Project**

This Fourth Amendment is made and entered into this 29<sup>th</sup> day of January 2019, in the City of Modesto, State of California, by and between the County of Stanislaus ("County") and Quincy Engineering, ("Consultant"), for and in consideration of the promises, and the mutual promises, covenants, terms, and conditions, hereinafter contained.

WHEREAS, on May 6, 2014, the Stanislaus County Board of Supervisors awarded a Professional Design Services Agreement ("Agreement") to Consultant for the Milton Road over Rock Creek Tributary Bridge Replacement Project for \$466,366;

WHEREAS, on May 6, 2014, the Stanislaus County Board of Supervisors authorized the Director of Public Works to execute the agreement with the Consultant and to sign necessary documents; including any amendments not to exceed 10%;

WHEREAS, Section 7.20 of the Agreement states that this Agreement may only be amended in writing by the parties hereto or their respective successor and assigns;

WHEREAS, Section 13-A of the Agreement allows for extension of the Agreement by amendment;

WHEREAS, on December 11, 2015, the Director of Public Works approved Amendment No. 1 to extend the expiration date of the Agreement to August 1, 2017;

WHEREAS, on July 28, 2017, the Director of Public Works approved Amendment No. 2 to extend the expiration date of the Agreement to December 31, 2018;

WHEREAS, on December 31, 2018, the Director of Public Works approved Amendment No. 3 to extend the expiration date of the Agreement to March 31, 2021;

WHEREAS, there is need for additional services in the amount of \$150,979, as shown in "Exhibit 1-A", attached hereto and made a part of the Amendment;

WHEREAS, Consultant is requesting that the Agreement's expiration date be extended to December 31, 2021 for reasons stated in "Exhibit 1-A", attached hereto and made a part of this Amendment.

WHEREAS, the Director of Public Works has determined that additional services and additional time are necessary for Consultant to complete the project;

WHEREAS, this amendment exceeds 10% of the contract and requires Board of Supervisor approval;

\$466,366	Agreement
\$0.00	First Amendment – Extension of agreement
\$0.00	Second Amendment – Extension of agreement
\$0.00	Third Amendment – Extension of agreement
<u>\$150,979</u>	Fourth Amendment – Extension of agreement
\$617,345	Total

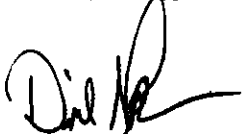
WHEREAS, Consultant has continued to diligently perform the services requested to support this project in good faith, and,

NOW THEREFORE, the parties agree as follows:

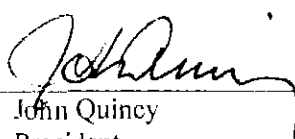
1. Section 1.1 Scope of Services is amended to include additional services as shown in "Exhibit 1-A" attached hereto and made a part of this Amendment.
2. Section 2.1 Compensation is amended to include additional fees of One Hundred Fifty Thousand Nine Hundred Seventy-Nine Dollars (\$150,979) as shown in "Exhibit 1-A" attached hereto and made a part of this Amendment. Consultant's compensation shall in no case exceed Six Hundred Seventeen Thousand Three Hundred Forty-Five Dollars (\$617,345).
3. Section 13 Performance Period is amended to read as follows:  
This agreement shall go into effect on May 6, 2014, contingent upon approval by the County, and the Consultant shall commence work after notification to proceed by the County. The agreement shall end on December 31, 2021, unless extended by agreement amendment.
4. All other terms and conditions of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Fourth Amendment effective on the date written above.


COUNTY OF STANISLAUS

By:   
David A. Leamon, Director  
Department of Public Works

QUINCY ENGINEERING

By:   
John Quincy  
President

APPROVED AS TO FORM  
John P. Doering, County Counsel

By:   
Amanda DeHart  
Deputy County Counsel  
TODD JAMES



December 13, 2018  
Nathan Tumminello  
Stanislaus County Department of Public Works  
1716 Morgan Road  
Modesto, CA 95358

**EXHIBIT 1-A**

**Re: Milton Road Bridge over Rock Creek – Amendment 4 Request**

Dear Mr. Tumminello,

Quincy Engineering Inc. (Quincy) is requesting a contract amendment, since additional investigation is required for the aforementioned project. This is due to the identification of a recorded cultural resource sites within the project area of potential effects (APE). The additional work will be in the form of an Extended Phase I or a Phase II investigation (depending on the findings of the Extended Phase I).

**Extended Phase I Investigation:**

An XPI investigation of the APE will follow methods provided in the approved work plan. This field investigation will entail manual excavation of 12 shovel probes (SPs) that measure 0.5 x 0.5 m excavated in 20 cm increments to depths of 80 cm. The placement of the units has already been approved by Caltrans. SPs will be excavated with hand excavation equipment (shovels, trowels, picks). If thresholds are not met to warrant a Phase II investigation, fieldwork will end with the shovel probes. No laboratory processing or artifact analysis will be necessary.

**Phase II Investigation:**

If potentially intact archaeological deposits are discovered within the APE during the XPI fieldwork, the County and Caltrans may decide to move directly into a Phase II investigation. If so the Phase II investigation will entail excavation of 1.0 x 1.0 m control units (CUs) in 10 cm increments. A total of 5.0 cubic meters is proposed for excavation. Archaeological materials recovered from the CUs will be collected and bagged according to provenience.

Also, due to Caltrans concern over biological resources which may be present in the project area, a more robust analysis of potential project impacts on those resources has been requested to be placed in the Natural Environment Study (NES) report. In addition, given the potential for adverse effects to listed species, Caltrans is also requiring that a Biological Assessment (BA) be prepared to support Section 7 Endangered Species Act Consultation with the U.S. Fish and Wildlife Service.

For our environmental subconsultant (Stantec, formerly North State Resources) to perform this work along with Quincy management and oversight, we are requesting **\$150,979**. This



would change our not to exceed contract from \$466,366 to **\$617,345**. If a Phase II investigated is not required, then the requested amount will be reduced to **\$80,046**.

We have included as attachments a spreadsheet showing both our hourly breakdown as well as Stantec's scope and hourly breakdown.

Currently our contract expires on December 31, 2018. We recommend extending the contract to December 31, 2021 at this time as well.

Please contact me at (916) 368-9181 if you have questions or comments regarding this amendment request.

Sincerely,

**Quincy Engineering, Inc.**

A handwritten signature in blue ink that reads "Lance A. Schrey".

**Lance Schrey, P.E.**

**Project Manager**

**Attachments:**

Quincy hourly breakdown

Quincy 10-H

Stantec scope

Stantec 10-H (XPI)

Stantec 10-H (Phase II)

Stanislaus County - Rock Cr. Br. Replacement (Br. No. 38C0231) on Milton Rd. - Amnd. 3																		
TASKS		Principal in Charge	Project Manager - PM	Senior Engineer	Senior Engineer - PE	Associate Engineer - DE	Senior Engineer	Senior Engineer - PE	Assistant Engineer - DE	Assistant Engineer - DE	Resident Engineer - Const. Review	Principal Engineer (QC/QA)	Admin	Senior Proj. Man.	Quincy Total Hours	Quincy Cost (w/ overhead and fee)	Stanlec	Total Fee
No.	Initial Hourly Rate	JQ	LS	SMc	MS	KP	MK	BM	road	bridge	KT	JQ	Staff	CD				
		\$80.00	\$82.90	\$60.80	\$65.00	\$55.10	\$62.50	\$47.10	\$35.00	\$35.00	\$70.90	\$66.00	\$34.50	\$75.40				
PHASE I - PROJECT KICK-OFF PRELIMINARY ENGINEERING																		
1	Project Management																	
2	Topographic Survey																	
3	Hydraulics																	
4	Geotechnical																	
5	Strategy Report/Type Selection/30% Plans																	
6	HBP Applications and Funding Assistance																	
PHASE II - ENVIRONMENTAL CLEARANCE & FINAL DESIGN																		
7	Environmental Document, Tech. Studies and Permits	2	24		4							2	4	8	44	\$10,608	\$140,165	\$150,773
8	Public Outreach																	
9	PS&E																	
10	Right of Way Services																	
11	Bidding and Post Award																	
TASK 10 TOTAL																		
Subtotal- Hours		2	24		4							2	4	8	44			
Other Direct Costs																208		
Total Cost		\$172	\$1,990		\$260							\$172	\$138	\$603	\$3,335		\$140,165	\$150,979



# Cost Proposal

**Stanislaus County - Rock Cr. Br. Replacement (Br. No. 38C0231) on Milton Rd. - Amnd. 3**

Date: 12/13/2018

**Quincy Engineering, Inc.**

Direct Labor:	\$3,334.80
Escalation for Multi-Year Project (3.5%):	\$116.72
1,794	\$6,192.02
<b>A. Labor Subtotal</b>	<b>\$9,643.54</b>

**Subconsultant Costs:**

Stantec	\$140,165.32
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
<b>B. Subconsultant Subtotal</b>	<b>\$140,165.32</b>

**Other Direct Costs:**

Plotter/Computer	hours @	\$10.00	\$0.00
Travel	150 miles @	\$0.545	\$81.75
Pier Diem/ Hotel	0 days @	\$150.00	\$0.00
Phone/Fax			\$0.00
Delivery	4 @	\$25.00	\$100.00
Survey Prevailing Wage Differential			\$0.00
Vellum / Mylars	0 sheets @	\$25.00	\$0.00
Title Reports	0 @	\$500.00	\$0.00
11 X 17 Reproduction	40 @	\$0.10	\$4.00
Copies	400 @	\$0.05	\$20.00
Newsletters (Translation and printing)			
Mailings (6x)			

**C. Other Direct Cost Subtotal:** **\$205.75**

Labor Subtotal A. =	\$9,643.54
Fee (10.0%):	\$964.35
Subconsultant Subtotal B. =	\$140,165.32
Fee (0.0%):	\$0.00
Other Direct Cost Subtotal: C. =	\$205.75
Fee (0.0%):	\$0.00

**TOTAL =** **\$150,978.97**

Note: Invoices will be based upon actual Quincy hourly rates plus overhead at 179.4% plus prorated portion of fixed fee. Subconsultant and Other Direct Costs will be billed at actual cost.

Total not to Exceed= **\$150,979**

County of Stanislaus  
Rock Creek on Milton Road  
Bridge Number 38C0231

**Quincy Engineering Inc.**

**CONSULTANT COST PROPOSAL**

**CONSULTANT:** Quincy Engineering

AMENDMENT 3

**DIRECT LABOR**

Name	Classification	Range	Hours	Initial Hourly Rate	Total
John Quincy	Principal in Charge	\$70 - \$105	2 @	\$86.00	\$172.00
Lance Schrey	Project Manager - PM	\$60 - \$87	24 @	\$82.90	\$1,989.60
Scott McCauley	Senior Engineer	\$49 - \$79	0 @	\$60.80	\$0.00
Mike Sanchez	Senior Engineer - PE	\$49 - \$79	4 @	\$65.00	\$260.00
Krassimir Panayotov	Associate Engineer - DE	\$32 - \$63	0 @	\$55.10	\$0.00
Max Katt	Senior Engineer	\$49 - \$79	0 @	\$62.50	\$0.00
Bob Maechler	CAD Manager	\$34 - \$56	0 @	\$47.10	\$0.00
Road Engineer	Assistant Engineer - DE	\$25 - \$40	0 @	\$35.00	\$0.00
Bridge Engineer	Assistant Engineer - DE	\$25 - \$40	0 @	\$35.00	\$0.00
Kerry Theron	Resident Engineer - Const.	\$49 - \$79	0 @	\$70.90	\$0.00
John Quincy	Principal Engineer (QC/QA)	\$70 - \$105	2 @	\$86.00	\$172.00
Erin Ritz	Admin	\$25 - \$46	4 @	\$34.50	\$138.00
Carolyn Davis	Senior Proj. Man.	\$55 - \$90	8 @	\$75.40	\$603.20

44

**Subtotal Direct Labor Costs** \$3,334.80

4% **Anticipated Salary Increase** \$116.72

TQTAL - Direct Labor \$3,451.52

**INDIRECT COSTS**

	Rate	Total
Overhead	179.40%	\$6,192.02
Fringe Benefit (Included in OH)	0.00%	
General & Administrative (Included in OH)	0.00%	
	179.40%	

TQTAL - Indirect Costs \$6,192.02

**FEE** ( 10.00% )

**TOTAL - Fee** \$964.35

**OTHER DIRECT COSTS**

			Total
Travel Costs	150 @	\$0.545	\$ 81.75
Per Diem / Hotel	0 @	\$150.00	\$ -
11 x 17 copies	400 @	\$0.05	\$ 20.00
Overnight Service	4 @	\$25.00	\$ 100.00
Title Reports	0 @	\$500.00	\$ -
11 x 17 copies	40 @	\$0.10	\$ 4.00

\$205.75

**TOTAL COST** \$10,813.64

Subcontractor Costs

**\$ 140,165.32**

**Total Contract**

**\$ 150,978.97**

Total Cost not to Exceed = **\$150,979**

**STANTEC CONSULTING SERVICES INC.**

**AMENDMENT #1**

**SCOPE OF SERVICES and COST ESTIMATE**

**MILTON ROAD over ROCK CREEK TRIBUTARY BRIDGE REPLACEMENT PROJECT**

**STANISLAUS COUNTY, CALIFORNIA**

*July 11, 2018*

**RATIONALE FOR AMENDMENT**

Stantec Consulting Services Inc. (Stantec) is requesting this proposed amendment to the existing subconsultant agreement with Quincy Engineering, Inc. (Quincy), S30-500, which was executed on May 13, 2014 (and reassigned from North State Resources, Inc. to Stantec on June 12, 2018), for the following reasons:

1. Additional project management time associated with cultural resources findings and increased complexity of new technical studies to support Section 106 compliance.
2. Because of additional input from the California Department of Transportation (Caltrans), additional or modified information and studies are needed to obtain regulatory approvals for the project. Due to Caltrans concern over biological resources, which may be present in the project area, a more robust analysis of potential project impacts on those resources has been requested by Caltrans in the Natural Environment Study (NES) report. In addition, given the potential for adverse effects to listed species, Caltrans is also requiring that a Biological Assessment (BA) be prepared to support Section 7 Endangered Species Act Consultation with the U.S. Fish and Wildlife Service.
3. Identification of recorded cultural resources sites within the project area of potential effects (APE) has resulted in the need for additional investigation (i.e., Extended Phase I or Extended Phase I/Phase II investigation) to complete the Section 106 compliance process.
4. Additional Native American outreach now required as part of Assembly Bill 52 (passed in September 2014).
5. Additions to the California Environmental Quality Act (CEQA) Initial Study/Mitigated Negative Declaration checklist since 2014 that will now need to be addressed.

## **AMENDED SCOPE OF SERVICES**

The current, approved scope of services will be modified to include the following task and associated subtasks.

### **Task 7.1 – Project Management (Modified Scope)**

Stantec's Project Manager will continue to participate in conference calls with Quincy, the County, and to discuss the project and prepare additional monthly invoices. One additional project team meeting in Stanislaus County is also included.

### **Task 7.4.1 – Natural Environment Study Report (Modified Scope)**

Stantec will update the Natural Environment Study (NES) report to address Caltrans' comments and to conform to the current Caltrans NES template which was updated on May 3, 2018. A follow-up site visit is included in this task to verify current habitat conditions at the project site.

### **Task 7.4.2 – Wetland Delineation Report (Modified Scope)**

Stantec will update the wetland delineation report to reflect the latest preferred project and to conform to the current U.S. Army Corps of Engineers delineation requirements. As part of the field work identified in the modified scope for the NES task, Stantec will verify the delineation field work previously conducted for the project in 2014 and update data forms and wetlands mapping to complete the wetland delineation report.

### **Task 7.4.3 – Archaeological Survey Report/Historic Property Survey Report (Modified Scope)**

Stantec will subcontract with Pacific Legacy to finalize the archaeological survey report (ASR)/historic property survey report (HPSR).

### **Task 7.4.6 – Prepare Biological Assessment (New Task)**

The initial biological field surveys performed for the Natural Environmental Study (NES) identified suitable habitat in the project area for California tiger salamander (*Ambystoma californiense*; CTS) and federally listed vernal pool branchiopod species. Based on comments from Caltrans it is anticipated that the project is likely to adversely affect these species and Caltrans will require a Biological Assessment (BA) to support formal ESA Section 7 consultation with the USFWS.

Stantec will assist the County in preparing a BA for Caltrans consultation with the USFWS pursuant to section 7 of the ESA. The BA will address the potential effects of the proposed project on both CTS and the federally listed vernal pool branchiopod species and will follow the latest Caltrans template for BAs (current version is May 3, 2018). Stantec will incorporate information on the species from the NES into the BA and obtain an updated species list from the USFWS. Stantec anticipates that additional details on the project may need to be obtained to refine the project description (i.e., the proposed action) for purposes of meeting required levels of detail for analyses in the BA. We assume Quincy will provide any requested additional project details, to the extent they are available; these details will be incorporated to the revised description.

A follow-up field visit may also be conducted to ensure conditions in the study area have not significantly changed with respect to potential suitability of habitats for the species mentioned above. However, protocol-level field surveys are excluded from this scope of work.

Stantec will submit an internal draft BA to Quincy and the County for an initial review and prepare a draft BA for Caltrans' review. Comments from Caltrans will be addressed to produce a final BA for Caltrans' submittal to the USFWS. Once the BA is finalized, Stantec assumes Caltrans will complete the consultation process with the USFWS; however, Stantec upon request can also be available to assist/coordinate with the USFW during the consultation process, as described below under Optional Task 7.7A.

**(OPTIONAL) Task 7.4.7 – Biological Assessment, Project Management and Agency Coordination (New Task)**

Under this task, Stantec proposes to participate in coordination events and attend a technical assistance meeting/teleconference with Quincy, the County, Caltrans, and USFW (if requested by County and Caltrans). Stantec during the early stage of preparation of the BA anticipates discussion/coordination with Caltrans on the likely project effects determination(s) to be made in the BA, and accordingly, obtain agreement on an acceptable and sufficient analytical approach, methods, and level of detail to be used in the BA to support these determinations.

Stantec will provide up to 16 hours of project management and 40 hours technical staff time to be used for meetings and coordination events for the project and will respond to requests including, but not limited to: (1) project team communications and coordination events; (2) responding to agency information or revision requests; and (3) a site meeting. If requested, Stantec will also coordinate with the USFWS, as necessary and authorized from Caltrans and the County, to assist with the required ESA consultation process through completion.

**Task 7.4.8 – Cultural Resources Extended Phase I/Phase II Investigation (New Task)**

Pacific Legacy, as a subcontractor to Stantec, will conduct a phased XPI/Phase II investigation of the Area of Potential Effects (APE) that will involve Native American coordination, manual excavation, and documentation of the XPI/Phase II results. Two archaeological resources P-50-001802, recorded by Shelly Davis-King in 2000, and site P-50-000183 described by Davis in 1951 are within the APE. Site P-50-001802 is described as a prehistoric lithic scatter of primarily Farmington chert tools with some basalt that encompasses the entire APE. Artifacts at P-50-001802 may be from borrowed materials taken from an unknown archaeological site and deposited as fill at this location. Site P-50-000183 is recorded as an "old rock shelter site, habitation" site with dark midden soils. The site was updated in 2017 and combined with P-50-000184 a lithic scatter.

The purpose of the XPI/Phase II investigation is to determine whether the previously described flaked stone identified during past cultural resource surveys at P-50-001802 and P-50-000183 represent *in situ* cultural constituents associated with archaeological sites. It is possible that the greenstone debitage previously identified at P-50-001802 may represent redeposited materials or non-cultural broken rock. The goal of the study is:

- to identify the presence of archaeological materials in the APE;
- to determine the need for Phase II archaeological evaluation, and
- if a Phase II archaeological investigation is warranted, conduct Phase II fieldwork and provide an archaeological evaluation of the resource(s).
- All Phases of the investigation will be conducted in accordance with Section 106 of the National Historic Preservation Act (Section 106) standards and guidance, and California Environmental Quality Act (CEQA) (California Public Resources Code Section 21000 et seq.). As a local assistance project, all reporting documentation will follow the Caltrans' Standard Environmental Reference (Volume 2) format found at <http://www.dot.co.gov/ser/vol2/vol2.htm>.

The following sub-tasks are included for Task 7.4.8:

***Sub-task 7.4.8A – Project Implementation and Management***

The Milton Road project will involve multiple agencies and stake holders (Stonislaus County, Coltrans, Native American tribes, and private landowners). Coordination with these stake holders to ensure that all interests are considered will take time and attention. Labor hours for these tasks will involve telephone communications and conferences. In addition, it is assumed that a Native American monitor will be required for the project. The County/Caltrans will identify the participating tribe(s). One individual will be hired as an employee of Pacific Legacy to monitor XPI/Phase investigations. The monitor, as a representative of the Tribe, will provide firsthand information to the Tribe to facilitate consultation regarding any cultural or religious significance the Tribe may ascribe to sites in the project area. Copies of any written correspondence between Pacific Legacy and Native Americans will be submitted to the County.

***Sub-task 7.4.8B – Archaeological Evaluation Proposal (New Task)***

This will include the development of an Archaeological Evaluation Proposal (AEP) following Caltrans' Standard Environmental Reference (Volume 2) format. This document will explain the reason for the investigation, the phased approach to fieldwork, site context, reference the Archaeological Survey Report (ASR) background sections, research topics that might be addressed by archaeological fieldwork (research design), the methods of excavation, the types of laboratory and special studies that are likely to be conducted, and provides decision thresholds used to assess when the goals of the study have been met, curation plan, and Native American coordination.

A draft work plan will be submitted to Stantec and review by County and Caltrans' Professional Qualified Staff (PQS) assigned to the project. Pacific Legacy will ensure that review comments are responsively addressed to produce a final and acceptable AEP.

***Sub-task 7.4.8C – Extended Phase I Investigation (New Task)***

Pacific Legacy will conduct an XPI investigation of the APE following methods provided in the approved work plan. The fieldwork will be guided by an experienced and

professionally-qualified archaeological Field Director who meets the Secretary of Interiors standards set forth at 36 CFR Part 61. The field investigation will entail manual excavation of 12 shovel probes (SPs) that measure 0.5 x 0.5 m excavated in 20 cm increments to depths of 80 cm, if archaeological materials are discovered to such depths. The placement of the units has already been approved by the County prior to this scope. SP placement will ultimately depend on field conditions (vegetation and topography) but will be placed as near as possible to the proposed locations. SPs will be excavated with hand excavation equipment (shovels, trowels, picks) and excavated sediments will be passed through ¼ inch mesh screens.

Archaeological materials recovered from the SPs will be counted, described, and reburied at the end of the SP excavation. Excavation observations, soil and stratigraphic information will be documented on SP recording forms and supplemented with digital photography. Diagnostic artifacts will be photographed and similarly reburied at the end of each SP excavation. Archaeological material encountered during the XPI fieldwork will be treated respectfully and as carefully as possible within the constraints of excavation methods.

Upon completion of excavation, SPs will be backfilled, and the topography of the ground surface restored to near original condition. Artifacts found during SP excavation will be reburied during the backfilling of the SPs. GPS mapping of each SP will allow re-excavation and relocation of such artifacts if Caltrans and Native American monitors determine that the artifacts have value worthy of recovery. If thresholds are not met to warrant a Phase II investigation, fieldwork will end with the shovel probes. No laboratory processing or artifact analysis will be necessary.

#### ***(OPTIONAL) Sub-task 7.4.8D – Phase II investigation (New Task)***

If potentially intact archaeological deposits are discovered within the APE during the XPI fieldwork, the County and Caltrans may decide to move directly into a Phase II investigation. Should such a decision be made, fieldwork will continue in the same rotation. Phase II investigation will entail excavation of 1.0 x 1.0 m control units (CUs) in 10 cm increments. A total of 5.0 cubic meters is proposed for excavation. All soils will be processed through ¼ inch mesh. A 4-gallon sample from each level will be screened through ⅛ inch mesh to recover microdebitage. Soil samples may be taken from features or units as warranted to recover potential macrobotanical remains. Archaeological materials recovered from the CUs will be collected and bagged according to provenience. Upon completion of excavation, the control units will be backfilled, and the topography of the ground surface restored to near original condition.

#### ***Sub-task 7.4.8E – Laboratory Processing and Analysis (New Task)***

Upon completion of fieldwork, recovered materials will be taken to the El Dorado Hills Pacific Legacy office for processing and cataloging. Materials will be processed in accordance with standard procedures for the specific material type. After processing and cataloging, selected materials will be submitted for specialized analyses. Based on extant information, assume that the collection will consist largely of flaked stone debitage and tools. Analyses will be drawn as necessary from the following: flaked stone debitage; morphological analysis of formed tools; groundstone; faunal remains;

floral (paleobotanical) remains; obsidian hydration and geochemical sourcing; and radiocarbon assays. These and other potential analyses will be selected in consultation with the County/Caltrans. Sample sizes will be limited to amounts considered necessary to establish whether there is a potential for addressing important research questions. Special studies consultants are listed below:

- Obsidian Hydration – Tom Origer, Origer & Associates
- Obsidian Sourcing – Richard Hughes, PhD, Geochemical Research Laboratory
- Paleobotany – Seetha Reddy, PhD, Reddy Anthropological Consulting
- Radiocarbon and AMS dating – Beta Analytic

#### ***Sub-task 7.4.8F – Report Production (New Task)***

Following the XPI/Phase II fieldwork, the results will be documented in a report appropriate for the type(s) of resources encountered. The XPI Survey Report or XPI/Phase II Archeological Evaluation Report (AER) will contain a project description, project location, site context, scope of work, study result, and summary and conclusions. The AER will additionally address the resource significance according to National Register of Historic Places (NRHP) criteria found at 36 CFR 60.4 to determine whether archaeological sites within the APE are historic properties (i.e., properties eligible for inclusion in the NRHP).

Site record updates for P-50-000183 and -001802 will be prepared on Department of Parks and Recreation forms to document the XPI/Phase II results at each of the sites. The forms used will depend on the level of investigation, but of minimum would contain a Primary Record and a Location Map. Upon completion of the draft report, electronic versions (PDF and Word) will be submitted to Stantec. Agency review comments will be addressed in first and second draft reports. Electronic files (PDF and Word) of the final report will submitted to Stantec.

#### ***Task 7.5 – CEQA/NEPA Documentation (Modified Scope)***

Given the changes made to the CEQA guidelines checklist since 2014, the complexity of the CEQA Initial Study/Mitigated Negative Declaration (IS/MND) has increased from what was originally anticipated in the initial scope of work and cost estimate, particularly the greenhouse gas emissions and tribal cultural properties (AB 52) sections. Stantec will complete the remainder of this task as previously outlined in our original proposal and consistent with the current CEQA guidelines.

#### ***PROPOSED AMENDED COST ESTIMATE***

The current, approved budget is on a time and materials basis, for an amount not-to-exceed cost of \$81,033.15 (Agreement S30-500, executed on May 13, 2014 between Quincy and NSR). Our proposed amended cost to complete the amended tasks and additional services (Tasks 7.4.6, 7.4.7, and 7.4.8): assuming only an Extended Phase I Investigation is required, is \$84,179.36; and assuming a full Phase II Investigation is required, is \$155,112.46. Assuming this amendment is approved, the overall, amended budget to complete the amended scope of work will be for an amount not-to-exceed \$165,212.51 (only Extended Phase I is required) or \$236,145.61 (Phase II Investigation



required). These cost estimates are based on the attached Caltrans Exhibit 10-H1 cost proposal spreadsheets.

**IN WITNESS WHEREOF**, the parties hereto have hereunto executed this amendment to the original agreement.

**For Quincy Engineering, Inc., (PRIME)**

dated this \_\_\_\_\_ day of \_\_\_\_\_, 2018,

By: \_\_\_\_\_

**For Stantec Consulting Services Inc. (CONSULTANT),**

dated this \_\_\_\_\_ day of \_\_\_\_\_, 2018,

By: \_\_\_\_\_

Note: Mark-ups are Not Allowed

☐ Prime Consultant☒ Subconsultant☐ 2nd Tier SubconsultantConsultant: **Stantec Consulting Services Inc.**Project No. **BRLS 5838 (201)**Contract No. **9594**Date **rev 12/12/18****DIRECT LABOR**

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal, Level 15	W. Lanning	58.00	\$ 67.31	\$ 3,903.98
Principal, Level 14	M. Wuestehube	8.00	\$ 59.76	\$ 478.08
Biologist/Analyst/Level 11	N. Eide	90.00	\$ 40.24	\$ 3,621.60
Env. Analyst, Level 10	C. MacGregor	24.00	\$ 36.37	\$ 872.88
Env. Analyst, Level 7	B. Cohen	0.00	\$ 25.52	\$ -
Biologist, Level 7	T. Hanson	48.00	\$ 25.43	\$ 1,220.64
Biologist, Level 7	C. Femino	0.00	\$ 24.11	\$ -
Biologist, Level 6	L. Morris	0.00	\$ 23.47	\$ -
Biologist, Level 4	K. Henry	0.00	\$ 18.45	\$ -
Tech. Editor, Level 12	K. McDonald	0.00	\$ 41.67	\$ -
Admin. Manager, Level 11	B. Wiechman	14.00	\$ 37.79	\$ 529.06
Admin. Asst., Level 9	S. Langford	16.00	\$ 31.50	\$ 504.00
Admin. Asst., Level 8	R. Barnard	26.00	\$ 26.93	\$ 700.18
GIS Analyst, Level 9	T. Mooney	20.00	\$ 31.31	\$ 626.20
			\$ -	\$ -
			\$ -	\$ -

**LABOR COSTS**

a) Subtotal Direct Labor Costs

\$ 12,456.62

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

\$ 188.85

**c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$ 12,643.47****INDIRECT COSTS**

d) Fringe Benefits (Rate: 20.00% )

e) Total Fringe Benefits [(c) x (d)] 2528.69

f) Overhead &amp; G&amp;A (Rate: 97.00% )

g) Overhead [(c) x (f)] 12264.17

h) General &amp; Admin (Rate: 36.00% )

i) Gen &amp; Admin [(c) x (h)] 4551.65

(retained original NSR ICR from 2014)

**j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$ 19,344.51****FIXED FEE**

10.00%

**k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: \$ 3,198.80****l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Cost	900.00	Miles	\$ 0.545	\$ 490.50
Submeter GPS	1.00	Days	\$ 100.00	\$ 100.00
GIS Workstation	0.00	Hours	\$ 12.85	\$ -
Conference Call/Mailing	21.00	Cost	\$ 10.00	\$ 210.00
B&W Copies	1000.00	Page	\$ 0.06	\$ 60.00
Color Copies	250.00	Page	\$ 0.75	\$ 187.50
Lodging/Per Diem	0.00	Days	\$ 150.00	\$ -
			\$ -	\$ -
			\$ -	\$ -

**l) TOTAL OTHER DIRECT COSTS \$ 1,048.00****m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)**

Subconsultant 1: Pacific Legacy \$ 32,997.44

Subconsultant 2: \$ -

Subconsultant 3: \$ -

Subconsultant 4: \$ -

**m) TOTAL SUBCONSULTANTS' COSTS \$ 32,997.44****n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 34,045.44****TOTAL COST [(c) + (j) + (k) + (n)] \$ 89,232.22****NOTES:**

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

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

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

Page 1 of 3

## CALCUATIONS FOR ANTICIPATED SALARY INCREASES

Consultant Stantec Consulting Services Inc.

Project No. BRLS 5938 (201) Contract No. 9594 Date rev 12/12/18

### 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
\$ 12,456.62	304	=	\$ 40.98	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	\$ 40.98	+	3%	=	\$ 42.20	Year 2 Avg Hourly Rate
Year 2	\$ 42.20	+	3%	=	\$ 43.47	Year 3 Avg Hourly Rate
Year 3	\$ 43.47	+	3%	=	\$ 44.78	Year 4 Avg Hourly Rate
Year 4	\$ 44.78	+	3%	=	\$ 46.12	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%	*	304.0	=	152.0	Estimated Hours Year 1
Year 2	50.00%	*	304.0	=	152.0	Estimated Hours Year 2
Year 3	0.00%	*	304.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	304.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	304.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	304.0	

### 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	\$ 40.98	*	152	=	\$ 6,228.31	Estimated Hours Year 1
Year 2	\$ 42.20	*	152	=	\$ 6,415.16	Estimated Hours Year 2
Year 3	\$ 43.47	*	0	=	\$ 0.00	Estimated Hours Year 3
Year 4	\$ 44.78	*	0	=	\$ 0.00	Estimated Hours Year 4
Year 5	\$ 46.12	*	0	=	\$ 0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$ 12,643.47	
Direct Labor Subtotal before Escalation				=	\$ 12,456.62	
Estimated total of Direct Labor Salary Increase				=	\$ 186.85	Transfer to Page 1

#### NOTES:

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

**Certification of Direct Costs:**

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

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

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

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

**Prime Consultant or Subconsultant Certifying:**

Name: \_\_\_\_\_ Title \*: \_\_\_\_\_

Signature: \_\_\_\_\_ Date of Certification: \_\_\_\_\_

Email: \_\_\_\_\_ Phone number: \_\_\_\_\_

Address: \_\_\_\_\_

\* 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:

<p>CEQA/NEPA compliance documentation, supporting technical studies, and regulatory permitting support</p>
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Note: Mark-ups are Not Allowed

☐ Prime Consultant☒ Subconsultant☐ 2nd Tier SubconsultantConsultant: **Stantec Consulting Services Inc.**Project No. **BRLS 5935 (201)**Contract No. **9594**Date **rev 12/12/18****DIRECT LABOR**

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal, Level 15	W. Lanning	58.00	\$ 67.31	\$ 3,903.98
Principal, Level 14	M. Wuestehube	8.00	\$ 59.76	\$ 478.08
Biologist/Analyst/Level 11	N. Eide	90.00	\$ 40.24	\$ 3,621.60
Env. Analyst, Level 10	C. MacGregor	24.00	\$ 36.37	\$ 872.88
Env. Analyst, Level 7	B. Cohen	0.00	\$ 25.52	\$ -
Biologist, Level 7	T. Hanson	48.00	\$ 25.43	\$ 1,220.64
Biologist, Level 7	C. Ferrino	0.00	\$ 24.11	\$ -
Biologist, Level 6	L. Morris	0.00	\$ 23.47	\$ -
Biologist, Level 4	K. Henry	0.00	\$ 18.45	\$ -
Tech. Editor, Level 12	K. McDonald	0.00	\$ 41.67	\$ -
Admin. Manager, Level 11	B. Wiechman	14.00	\$ 37.79	\$ 529.06
Admin. Asst., Level 9	S. Langford	16.00	\$ 31.50	\$ 504.00
Admin. Asst., Level 8	R. Barnard	26.00	\$ 26.93	\$ 700.18
GIS Analyst, Level 9	T. Mooney	20.00	\$ 31.31	\$ 626.20
			\$ -	\$ -
			\$ -	\$ -

**LABOR COSTS**

a) Subtotal Direct Labor Costs	\$ 12,456.62
b) Anticipated Salary Increases (see page 2 for calculation)	\$ 186.85
<b>c) TOTAL DIRECT LABOR COSTS [(a) + (b)]</b>	<b>\$ 12,643.47</b>

**INDIRECT COSTS**

d) Fringe Benefits (Rate: 20.00% )	e) Total Fringe Benefits [(c) x (d)]	2528.69
f) Overhead & G&A (Rate: 97.00% )	g) Overhead [(c) x (f)]	12284.17
h) General & Admin (Rate: 36.00% )	i) Gen & Admin [(c) x (h)]	4551.65
<i>(retained original NSR ICR from 2014)</i>		
<b>j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]</b>	<b>\$</b>	<b>19,344.51</b>

<b>FIXED FEE</b> 10.00%	<b>k) TOTAL FIXED FEE [(c) + (j)] x fixed fee:</b>	<b>\$ 3,198.80</b>
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**l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Cost	900.00	Miles	\$ 0.545	\$ 490.50
Submeter GPS	1.00	Days	\$ 100.00	\$ 100.00
GIS Workstation	0.00	Hours	\$ 12.85	\$ -
Conference Call/Mailing	21.00	Cost	\$ 10.00	\$ 210.00
B&W Copies	1000.00	Page	\$ 0.06	\$ 60.00
Color Copies	250.00	Page	\$ 0.75	\$ 187.50
Lodging/Per Diem	0.00	Days	\$ 150.00	\$ -
			\$ -	\$ -
			\$ -	\$ -

**l) TOTAL OTHER DIRECT COSTS \$ 1,048.00****m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)**

Subconsultant 1: Pacific Legacy	\$ 103,930.54
Subconsultant 2:	\$ -
Subconsultant 3:	\$ -
Subconsultant 4:	\$ -

**m) TOTAL SUBCONSULTANTS' COSTS \$ 103,930.54****n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)] \$ 104,978.54****TOTAL COST [(c) + (j) + (k) + (n)] \$ 140,165.32****NOTES:**

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

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

Page 1 of 3

## CALCUATIONS FOR ANTICIPATED SALARY INCREASES

Consultant Stantec Consulting Services Inc.

Project No. BRLS 5938 (201) Contract No. 9594 Date rev 12/12/18

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Year 3	\$ 43.47	+	3%	=	\$ 44.78	Year 4 Avg Hourly Rate
Year 4	\$ 44.78	+	3%	=	\$ 46.12	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	
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Year 3	0.00%	*	304.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	304.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	304.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	304.0	

### 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	
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Year 4	\$ 44.78	*	0	=	\$ 0.00	Estimated Hours Year 4
Year 5	\$ 46.12	*	0	=	\$ 0.00	Estimated Hours Year 5
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Direct Labor Subtotal before Escalation				=	\$ 12,456.62	
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**Prime Consultant or Subconsultant Certifying:**

Name: \_\_\_\_\_ Title \*: \_\_\_\_\_

Signature: \_\_\_\_\_ Date of Certification: \_\_\_\_\_

Email: \_\_\_\_\_ Phone number: \_\_\_\_\_

Address: \_\_\_\_\_

\* 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:

<p>CEQA/NEPA compliance documentation, supporting technical studies, and regulatory permitting support</p>
------------------------------------------------------------------------------------------------------------