

Dewberry Engineers Inc (CONSULTANT) is requesting an amendment to provide post design support services as discussed with Sonoma County (COUNTY). As part of the amendment request, CONSULTANT is requesting to use our 2022 indirect cost rate for work performed as part of this amendment request.

Assumptions:

1. Project construction will be completed by 12/31/2026.
2. Redesign of truss members is not required due to unforeseen conditions.
3. Attend one (1) kick-off meeting
4. Attend up to ten (10) field meetings as requested by the COUNTY.
5. Attend up to one (1) isolation bearing test at UC San Diego and one (1) visit to bearing manufacturer to observe bearing fabrication.
6. Falsework, Temporary Support, Shoring, and Concrete Mix Design Reviews are not included.
7. Review and provide responses for up to forty (40) requests for information.
8. Up to ten (10) Contract Change Orders are assumed for budget purposes.
9. Up to ten (10) miscellaneous submittal reviews and sixteen (16) miscellaneous material reviews are assumed for budget purposes. Assume up to one (1) resubmittal for each submittal reviewed.

CONSULTANT is requesting an amendment in the amount of \$396,267.73 to provide post design support services outlined in this amendment request.

DETAILED SCOPE OF SERVICES

Task 3.1 — Bid Assistance

During bidding, CONSULTANT will be available to interpret the plans and specifications, prepare addenda if needed, and provide general consultation to the COUNTY. CONSULTANT will also attend the pre-bid meeting. CONSULTANT will assemble a Resident Engineer File including special instructions or information for construction of the project, quantity calculations, and other pertinent information in the COUNTY's format.

CONSULTANT will assist the COUNTY during the bidding process. Services that will be provided by the CONSULTANT under this task include:

- Assisting the COUNTY with responding to inquiries from bidders relating to the plans, special provisions, and quantity estimates during the advertising process.
- Preparing any required addenda to clarify the plans, special provisions, and quantity estimates of the project for review and approval by the COUNTY and distribution to the bidders.

Deliverables:

- Bidder Inquiry Responses.
- Addendum preparation (Plans, Specifications, and Estimate)

- Resident Engineer File

Task 3.2 — Services During Construction

CONSULTANT will provide design support during construction. Services will include reviewing and responding to requests for information; reviewing, commenting and approving contractor submitted shop drawings; and preparing contract change orders if necessary.

Crawford and Associates (Crawford) will provide the following construction observation services:

- review the Contractor's Pile Installation Plan;
- attend project kick-off meeting;
- respond to Contractor's Request for Information (RFI) submittals (estimate four RFIs);
- provide on-call periodic observations during initial pile installation and consultation with the design team (up to 5 site visits at 8 hours on-site plus travel per site visit);
- prepare daily field reports with our pile construction observations;
- review pile integrity test results (e.g., cross-hole sonic logging / gamma-gamma logging) completed by others to evaluate the affect anomalies (if present) may have on the geotechnical capacity of the CIDH piles; and
- provide geotechnical consulting services as needed during pile construction.

Task 3.3 — As-built Drawings

CONSULTANT will also prepare record drawings based on the Resident Engineer's notes and markups.

Deliverables:

- One set of full size (22"x34") final record drawings in hard copy format on Bond paper.
- One set of full size (22"x34") final record drawings in pdf format.

WOHLER ROAD BRIDGE OVER THE RUSSIAN RIVER EQ RETROFIT PROJECT

HOURS BREAKDOWN

Scope of Work Task		Staff							Budgets
		Kevin Ross PM EN9	Kyle Lundblom PE EN3	Francis Casimero ENGINEER EN1	Keith Dresbach CADD DS4	Todd Pretzer CAD Tech CD2	Austin Childers CAD Tech CD1	Rosina Avila Admin OP1	Total Hours
Phase 3	3.1 Bid Assistance	29	104	0	32	0	4	0	169
	3.1 Bid Assistance	29	104	0	32	0	4	0	169
	3.2 Services During Construction	539	246	65	232	0	0	80	1,162
	3.2 Construction Support	539	246	65	232	0	0	80	1,162
	3.3 As-Built Drawings	39	0	0	70	47	0	0	156
	3.3 As-Built Drawings	39	0	0	70	47	0	0	156
	Totals:	607	350	65	334	47	4	80	1,487

**EXHIBIT 10-H COST PROPOSAL
SPECIFIED RATES OF COMPENSATION
POST DESIGN SERVICES**

CONSULTANT: DEWBERRY ENGINEERS INC

CONTRACT #: C01136

DATE: 9/10/2023

LOADED DIRECT LABOR

Classification/Title	Name	Hours	Loaded Rate	Total
EN9 PM	Kevin Ross	607	\$325.66	\$197,675.62
EN3 PE	Kyle Lundblom	350	\$160.41	\$56,143.50
EN1 ENGINEER	Francis Casimero	65	\$121.61	\$7,904.65
DS4 CADD	Keith Dresbach	334	\$197.16	\$65,851.44
CD2 CAD Tech	Todd Pretzer	47	\$102.78	\$4,830.66
CD1 CAD Tech	Austin Childers	4	\$72.22	\$288.88
OP1 Admin	Rosina Avila	80	\$99.11	\$7,928.80

Totals: 1,487 \$340,623.55

LOADED LABOR COSTS

Subtotal Loaded Labor Costs	\$340,623.55
Anticipated Salary Increases	\$13,704.86

TOTAL DIRECT LABOR COSTS \$354,328.41

OTHER DIRECT COSTS (ODC)

Description	Units	Rate	Total
Mileage (6 Roundtrips)	3,120	\$0.655	\$2,043.60
Hotels (Per Night)	0	\$250.00	\$0.00
Per Diem (1/2 Day)	5	\$75.00	\$375.00
Per Diem (Full Day)	0	\$150.00	\$0.00
Prints (8.5 x 11)	0	\$0.50	\$0.00
Prints (11 x 17)	0	\$2.50	\$0.00
Prints (22 x 34)	77	\$4.00	\$308.00
Renderings	0	\$5,000.00	\$0.00
Flight	2	\$600.00	\$1,200.00

TOTAL ODCs \$3,926.60

SUBCONSULTANTS

Crawford and Associates	\$38,012.72
Subconsultant 2	\$0.00
Subconsultant 3	\$0.00

TOTAL SUBCONSULTANTS \$38,012.72

TOTAL COST \$396,267.73

EXHIBIT 10-H COST PROPOSAL
SPECIFIED RATES OF COMPENSATION
 CALCULATIONS FOR ANTICIPATED SALARY ESCALATIONS

CONSULTANT: DEWBERRY ENGINEERS INC

CONTRACT #: C01136

DATE: 9/10/2023

1. Calculate Average Hourly Rate for 1st year of the Contract

<u>Direct Labor Subtotal per Cost Proposal</u>	<u>Total Hours per Cost Proposal</u>	=	<u>Avg Hourly Rate</u>	
\$340,623.55	1,487	=	\$229.07	Year 1 Avg Hourly Rate

2. Calculate Hourly Rate for Future Years

<u>Year</u>	<u>Avg Hourly Rate</u>		<u>Proposed Escalation</u>	=		
Year 2	\$229.07	+	5%	=	\$240.53	Year 2 Avg Hourly Rate
Year 3	\$240.53	+	5%	=	\$252.56	Year 3 Avg Hourly Rate
Year 4	\$252.56	+	5%	=	\$265.19	Year 4 Avg Hourly Rate
Year 5	\$265.19	+	5%	=	\$278.45	Year 5 Avg Hourly Rate

3. Calculate Estimated Hours per Year for All Years

	<u>Estimated % Completed Each Year</u>		<u>Total Hours per Cost Proposal</u>	=	<u>Total Hours per Year</u>	
Year 1	40.00%	*	1,487	=	594.8	Estimated Hours Year 1
Year 2	40.00%	*	1,487	=	594.8	Estimated Hours Year 2
Year 3	20.00%	*	1,487	=	297	Estimated Hours Year 3
Year 4	0.00%	*	1,487	=	0	Estimated Hours Year 4
Year 5	0.00%	*	1,487	=	0	Estimated Hours Year 5
Total:	100%		Total:	=	1,487	

4. Calculate Total Costs Including Escalation

	<u>Avg Hourly Rate from Above</u>		<u>Estimated Hours from Above</u>	=	<u>Cost per Year</u>	
Year 1	\$229.07	*	595	=	\$136,250.84	Estimated Cost Year 1
Year 2	\$240.53	*	595	=	\$143,067.25	Estimated Cost Year 2
Year 3	\$252.56	*	297	=	\$75,010.32	Estimated Cost Year 3
Year 4	\$265.19	*	0	=	\$0.00	Estimated Cost Year 4
Year 5	\$278.45	*	0	=	\$0.00	Estimated Cost Year 5
Total Direct Labor Cost with Escalation:				=	\$354,328.41	
Direct Labor Subtotal before Escalation:				=	\$340,623.55	
Estimated Total of Direct Labor Salary Increase:				=	\$13,704.86	

Wohler Road Bridge Retrofit - Construction Observation Services

Crawford & Associates, Inc.

10/11/2023



		Principal *	Principal *	Principal *	Senior Project Manager	Senior Engineer / Geologist	Project Engineer II / Geologist	Project Coordinator	Administrative Assistant	Anticipated Salary Increase	LABOR COST PER TASK	OTHER DIRECT COSTS	TOTAL COST
Crawford & Associates Staff (*Key)		B. Crawford	E. Nichols	S. Leyva	TBD	TBD	TBD	TBD	TBD				
	Initial Hourly Rate	\$ 70.30	\$ 59.09	\$ 52.88	\$ 61.61	\$ 45.38	\$ 41.49	\$ 35.00	\$ 29.75	\$249.28			
Fringe Benefits	93.29%	\$ 65.58	\$ 55.13	\$ 49.33	\$ 57.48	\$ 42.34	\$ 38.71	\$ 32.65	\$ 27.75	\$232.55			
Overhead	116.79%	\$ 82.10	\$ 69.01	\$ 61.76	\$ 71.95	\$ 53.00	\$ 48.46	\$ 40.88	\$ 34.75	\$291.13			
General & Administrative	20.00%	\$ 14.06	\$ 11.82	\$ 10.58	\$ 12.32	\$ 9.08	\$ 8.30	\$ 7.00	\$ 5.95	\$49.86			
Fixed Fee	10%	\$ 23.20	\$ 19.50	\$ 17.45	\$ 20.34	\$ 14.98	\$ 13.70	\$ 11.55	\$ 9.82	\$82.28			
	Hourly Rate	\$ 255.25	\$ 214.55	\$ 192.00	\$ 223.70	\$ 164.77	\$ 150.65	\$ 127.08	\$ 108.02	\$905.09			
TASK NO. 1.1	<i>Kick-off Meeting, Pile Instalation Plan Review and Consultation</i>												
		2.0	10.0		4.0	20.0		4.0	2.0		\$7,570.53		\$ 7,570.53
TASK NO. 1.2	<i>CIDH Pile Observation</i>												
			10.0		6.0	12.0	70.0	6.0	6.0		\$17,420.67		\$ 17,420.67
TASK NO. 1.3	<i>DFRs and Review</i>												
			6.0				8.0		8.0		\$3,356.60		\$ 3,356.60
TASK NO. 1.4	<i>Pile Integrity Review and Professional Consultation</i>												
			12.0		4.0	24.0			4.0		\$7,855.92		\$ 7,855.92
Subtotal- Hours/Tasks		2.0	38.0	0.0	14.0	56.0	78.0	10.0	20.0				
OTHER DIRECT COSTS													
Mileage (Current IRS Rate)												\$ 903.90	\$ 903.90
											\$ 36,203.72	\$ 903.90	
											ANTICIPATED SALARY INCREASE:		\$905.09
											TOTAL ESTIMATED FEE:		\$38,012.72

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. 22-868.2 Contract No. _____ Date 10/11/2023

Project Name Wohler Road Bridge Retrofit - Construction Observation Services

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal *	Benjamin Crawford	2.0	\$70.30	\$ 140.60
Principal *	Eric Nichols	38.0	\$59.09	\$ 2,245.42
Principal *	Shawn Leyva	0.0	\$52.88	\$ -
Senior Project Manager	TBD	14.0	\$61.61	\$ 862.54
Project Manager II	TBD	0.0	\$56.44	\$ -
Project Manager I	TBD	0.0	\$50.00	\$ -
Senior Engineer / Geologist	TBD	56.0	\$45.38	\$ 2,541.28
Project Engineer II / Geologist	TBD	78.0	\$41.49	\$ 3,236.22
Project Engineer I / Geologist	TBD	0.0	\$37.63	\$ -
Staff Engineer / Geologist	TBD	0.0	\$34.25	\$ -
Project Coordinator	TBD	10.0	\$35.00	\$ 350.00
Administrative Assistant	TBD	20.0	\$29.75	\$ 595.00
Senior Technician (Non-PW)	TBD	0.0	\$38.50	\$ -
Staff Technician (Non-PW)	TBD	0.0	\$33.48	\$ -
Masonry Technician ** (PW)	TBD	0.0	\$52.48	\$ -
Welding Technician ** (PW)	TBD	0.0	\$51.05	\$ -
Laborer Technician ** (PW)	TBD	0.0	\$37.63	\$ -
Soils/Asphalt Technician ** (PW)	TBD	0.0	\$48.25	\$ -
Concrete Technician ** (PW)	TBD	0.0	\$45.58	\$ -

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LABOR COSTS

a) Subtotal Direct Labor Costs \$ 9,971.06
 b) Anticipated Salary Increases (see page 2 for calculation) \$249.28
c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$ 10,220.34

Geotechnical Engineering Services - Construction Observation

d) Fringe Benefits Rate: 93.29% e) Total Fringe Benefits [(c) x (d)] \$ 9,534.55
 f) Overhead Rate: 116.79% g) Overhead [(c) x (f)] \$ 11,936.33
 h) General & Administrative Rate: 20.00% i) Gen & Admin [(c) x (h)] \$ 2,044.07
Combined ICR %: 230.08%

j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$ 23,514.95

FIXED FEE k) TOTAL FIXED FEE [(c) + (j)] x fixed fee 10%] \$ 3,373.53

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

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage (Current IRS Rate)	1380	Mile	\$ 0.655	\$ 903.90
Per Diem		Day	\$ -	\$ -
Permit Fees		At Cost	\$ -	\$ -
Traffic Control (Major)		At Cost	\$ -	\$ -
Traffic Control (Minor)		Day	\$ 700.00	\$ -
Traffic Control Equipment		Day	\$ 150.00	\$ -
Drilling Rig & Crew		At Cost	\$ -	\$ -
Steel Liners (MCAL)		Each	\$ 10.00	\$ -
Hand Auger		Day	\$ 200.00	\$ -
Wildcat DCP Equipment		Day	\$ 750.00	\$ -
Wildcat DCP Tips		Each	\$ 15.00	\$ -
Core Machine with Generator		Day	\$ 2,600.00	\$ -
Core Machine Bit		Inch	\$ 3.00	\$ -
Core Boxes		Each	\$ 17.25	\$ -
Backfill		Bag	\$ 8.00	\$ -
Laboratory Testing (Crawford 2023 Rates, Attached)		Lump Sum	\$ -	\$ -

\$ 903.90

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)] \$ 903.90

TOTAL COST [(c) + (j) + (k) + (n)] \$ 38,012.72

CALCULATIONS FOR ANTICIPATED SALARY INCREASE

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

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
<u>\$9,971.06</u>	<u>218</u>	=	<u>45.74</u>	Year 1 Avg Hourly Rate

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

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$45.74	+	5.0%	=	\$48.03	Year 2 Avg Hourly Rate
Year 2	\$48.03	+	5.0%	=	\$50.43	Year 3 Avg Hourly Rate
Year 3	\$50.43	+	5.0%	=	\$52.95	Year 4 Avg Hourly Rate
Year 4	\$52.95	+	5.0%	=	\$55.60	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%	*	218	=	109.00	Est Hours Year 1
Year 2	50%	*	218	=	109.00	Est Hours Year 2
Year 3	0%	*	218	=	0.00	Est Hours Year 3
Year 4	0%	*	218	=	0.00	Est Hours Year 4
Year 5	0%	*	218	=	0.00	Est Hours Year 5
Total	100%		Total	=	218.00	

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	\$45.74	*	109	=	\$4,985.53	Est Hours Year 1
Year 2	\$48.03	*	109	=	\$5,234.81	Est Hours Year 2
Year 3	\$50.43	*	0	=	\$0.00	Est Hours Year 3
Year 4	\$52.95	*	0	=	\$0.00	Est Hours Year 4
Year 5	\$55.60	*	0	=	\$0.00	Est Hours Year 5
Total Direct Labor Cost with Escalation				=	\$10,220.34	
Direct Labor Subtotal Before Escalation				=	\$9,971.06	
Estimated Total of Direct Labor Salary Increase				=	<u>\$249.28</u>	<i>(Transfers to Page 1)</i>

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: 10/11/2023

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 - Construction Observation