



DOKKEN ENGINEERING

Transportation Solutions from Concept to Construction

May 16, 2018

Nevada County Department of Public Works
Attn: Joshua Pack, PE
950 Maidu Avenue
Nevada City, CA 95959

Subject: Amendment No. 1 to Shady Creek at Purdon Road Bridge Replacement Professional Engineering Contract dated 12/2/2014

Dear Mr. Pack,

Dokken Engineering is pleased the Shady Creek Bridge has been advertised for construction and that construction will occur in 2018. Our current contract with the County does not include scope for us to provide Design and Environmental Support During Construction. The purpose of this letter is to request our existing contract be amended so that Dokken can provide support to the County and Resident Engineer throughout the construction phase of the project.

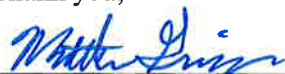
We have completed the Preliminary Engineering phase of the project with over \$18,671 left in our remaining contract. We propose to credit those funds to the County to be utilized for design and environmental support during construction. Unfortunately, we do not expect the \$18,671 left in our agreement to cover the full cost of the work to be performed by us during construction.

We have estimated the necessary tasks and hours on the attached Exhibit A, "Amendment 1 Scope of Services, Purdon Road Bridge" and Exhibit B, "Cost Proposal by Hours and Tasks". We are requesting a total of \$40,446 to provide response to inquiries, review of shop drawings, preparation of as-built plans, environmental support, and a record of survey to document the alignment and right of way changes. With the credit from unspent PE funds, the following table summarizes the current and proposed contract amount.

Contract History	Contract Price
Original Contract Price	\$323,340.51
Design and Environmental Support During Const.	\$36,188.01
17.5 Record of Survey (Optional)	4,258.33
Less Credit for Unspent PE Funds	(\$18,671.00)
Amendment No. 1 Request on 5/16/2018	\$21,775.34
Total Amended Contract Price	\$345,115.85

If you approve this Amendment No. 1, please sign below or provide a separate Amendment authorization. Thank you for your continued trust in Dokken Engineering and we are pleased to see this project going to construction in 2018.

Thank you,


Matthew Griggs, PE
Project Manager
Dokken Engineering

Joshua Pack, PE
Principal Civil Engineer
Nevada County



EXHIBIT A – AMENDMENT 1 SCOPE OF SERVICES, PURDON ROAD BRIDGE

Revised May 16, 2018

The following scope of work is intended to provide the County with Design and Environmental Support during construction of the bridge project. The existing contract covered environmental, design, right of way, permitting and bidding.

TASKS 1-16 CREDIT FROM PRELIMINARY ENGINEERING PHASE

Dokken Engineering (Dokken) completed the environmental, design and right of way portion of the project with unexpended contract budget that is hereby credited to the County to applied to additional new scope of work to provide design support to the County and Resident Engineer during the construction phase.

TASKS 17 DESIGN AND ENVIRONMENTAL SUPPORT DURING CONSTRUCTION

Task 17.1 Responding to Requests for Information

Dokken will provide on-going interpretation of contract documents, including environmental documents and permit requirements, review and comment on change orders, prepare plan revisions necessary for change orders, and respond to requests for information or clarification from the Resident Engineer or from the County, as they arise during construction. Occasional site visits are anticipated as necessary.

Dokken will prepare a monthly progress report of the work completed and any items planned for the next month.

Task 17.2 Review of Shop Drawings for Bridge

Shop drawings and material submittals will be reviewed and approved or returned for corrections. These are anticipated to include bridge removal plan, protective covers over creek, post-tensioning details, aesthetic concrete form liners, and bridge railings. Review of shop drawings will be performed by a registered Civil Engineer and a request for correction or approval provided in the time allowed per Caltrans Standard Specification.

These construction support tasks do not include falsework reviews.

Task 17.3 Drafting and Review of As-Built Revisions

Dokken will prepare final as-built drawings for the County from red-line marked plans provided by the Construction Resident Engineer. The as-builts will be prepared electronically or hand traced on original drawings at the preference of the County.

Task 17.4 Environmental Commitment Support

Dokken will provide preconstruction surveys, worker awareness training, and permit support during the course of construction. Periodic site visits to ensure continued compliance with the environmental commitments are expected every 4 to 6 weeks or at key times. It is assumed the Resident Engineer and Contractor will provide the QSP and QSD.

A qualified Dokken biologist will perform preconstruction surveys prior to construction, including the necessary survey to ensure no California Red Legged Frog species are within the construction zone. The biologist will also review the proposed placement of ESA fencing and riparian fencing.



A worker awareness training will be provided, as well as a recorded version available for reply to new hires or additional staff added later by the Contractor.

After project completion, Dokken will prepare and submit the 1602 CDFW Close-out notification.

Task 17.5 Record of Survey (Optional)

As an optional service, Nevada City Engineering could prepare a Record of Survey (ROS) to place and document permanent monumentation added for right of way acquisition and construction control. The ROS is recommended because of the alignment modifications and permanent right of way acquisition. If reconciliation of the new control monumentation with existing corners, maps and control is extensive, additional effort beyond the scope of this limited task may be required.

Deliverables – Task 17

- Environmental Support
- Shop Drawing Review and Approval
- Record of Survey
- Response to RFIs
- As-Built Drawings

END OF SCOPE OF WORK



EXHIBIT B: COST PROPOSAL BY HOURS AND TASKS
Nevada County
Amendment No. 1 Purdon Road Bridge

Revised May 16, 2018

TASK	DOKKEN ENGINEERING										TOTALS		
	Matthew Griggs, PE Project Manager	Rosa Griggs, PE Project Engineer	Eric Espinosa, PE Roadway PE	Martin Maechler, PE Senior Engineer	Fortunato Enriquez, PE Associate Engineer	Assistant Engineer	Senior Environmental Planner	Associate Environmental Planner	Environmental Planner	Senior CADD	GRAND TOTAL - HOURS	GRAND TOTAL - DIRECT COSTS	GRAND TOTAL - TOTAL COSTS
	\$223.78	\$177.28	\$130.78	\$200.53	\$133.69	\$93.00	\$165.65	\$98.81	\$93.00	\$154.03			
TASK 17 - DESIGN & ENVIRONMENTAL SUPPORT DURING CONSTRUCTION	14	27	28	6	60	12	16	32	64	20	279	\$3,680.00	\$40,446.34
17.1 Responding to Requests for Information	10	20	24	4	40	4				8	110		\$16,675.78
17.2 Review of Shop Drawings for Bridge	1	3		2	16	8					30		\$4,039.62
17.3 Drafting and Review of As-Built Revisions		2	4		4					12	22		\$3,260.76
17.4 Environmental Commitment Support	2						16	32	64		114		\$12,211.85
17.5 Record of Survey (Optional)	1	2									3	\$3,680.00	\$4,258.33
TASKS 1-16 CREDIT FROM PE PHASE											-	-\$18,671.00	-\$18,671.00
Credit for Unspent Preliminary Engineering											-	-\$18,671.00	-\$18,671.00
TOTAL HOURS	14	27	28	6	60	12	16	32	64	20	279.0		
TOTAL COST	\$3,132.88	\$4,786.51	\$3,661.81	\$1,203.17	\$8,021.11	\$1,115.98	\$2,650.45	\$3,161.95	\$5,951.90	\$3,080.57		-\$14,991.00	\$21,775.34