

CITY OF SNOQUALMIE
AGREEMENT FOR CONSULTANT SERVICES
Contract No. 22-076, Amendment No. 1 With Otak

WHEREAS, the City of Snoqualmie (City) entered into an agreement with Otak (Consultant) on September 29, 2022 to design and prepare bridge repair documents for the Kimball Creek Bridges; and

WHEREAS, the City has requested Otak to prepare hydrologic and hydraulic models, including associated surveying, that were not available from others as assumed in the original scope work;

NOW, THEREFORE, the parties herein do mutually agree as follows:

Section 2 shall be replace deleted and replaced with the following:

- A. The total additional compensation to be paid to Consultant, including all services and expenses, shall not exceed Thirteen Thousand Nine Hundred Thirty Dollars (\$13,930.00), which shall be full compensation for the Work, bringing the total contract amount to \$220,384.00. The Consultant shall notify the City when its requests for payment reach eighty-five percent of the total compensation.
- B. Scope of work
- C. Time changes

CITY OF SNOQUALMIE,
WASHINGTON

By: Katherine Ross
Its: Mayor

Date: 7/6/2023

CONSULTANT – Otak, Inc.

By: Nico Vanderhorst
Typed/Printed Name: Nico VANDERHORST

Its: Principal

Date: 6/28/2023

ATTEST:

Deana Dean

Deana Dean, City Clerk
Date:

APPROVED AS TO FORM:

David Linehan, City Attorney
Date: David Linehan



Exhibit A

June 26, 2023

Michael Chambless, Public Works Director
City of Snoqualmie
PO Box 987
Snoqualmie, WA 98065

Re: *Kimball Creek Bridges Restoration Project – Amendment 1*
Otak Project No. 20964

Dear Mr. Chambless:

The City requested services to prepare bridge restoration documents for two bridges carrying Meadowbrook Way SE: South Fork Kimball Creek Bridge No. 1413B and East Fork Kimball Creek Bridge No. 1413C.

Hydrologic and hydraulic models were not available from others as assumed in the original scope work. This amendment adds services for hydrologic and hydraulic modeling and associated site surveying needed to perform the modeling. The following scope of work details these efforts.

SCOPE OF WORK

Task 1 – Project Management

This task is supplemented to provide general project management, direct work, and coordinate preparation of deliverables for the additional work.

Task 2 — Utility Coordination

No change to this task.

Task 3 – Cultural and Historical Analysis (CRC)

No change to this task.

Task 4 — Environmental Documentation and Permitting

No change to this task.

Task 5 – Hydraulic Design

5.1 Data Collection

No change to this subtask.

5.2 Site Investigation and Channel Stability Assessment

No change to this subtask.

5.3 Hydrologic Analysis

Hydrologic models were not available from others as previously assumed in this subtask. Hydrology is needed to generate flow inputs for the hydraulic analysis in subtask 5.4. This subtask is supplemented to include planning level hydrologic modeling as follows:

- Delineate two drainage basin areas, one each for the two bridge locations using the USGS StreamStats web application.
- Set up a planning level WWHM model using the basin areas generated from StreamStats.
- Compare flows from WWHM and StreamStats models, and use the more conservative flows for scour analysis.

5.4 Hydraulic Analysis

Hydraulic models were not available from others as previously assumed in this subtask. This subtask is supplemented to include hydraulic modeling as follows:

- Develop two 1D-HEC RAS models to simulate existing conditions, one for each site, with six cross sections each. Flows generated in subtask 5.3 will be routed through the hydraulic model to extract parameters for scour calculations.

5.5 Scour Analysis

No changes to this subtask.

5.6 Design of Scour Countermeasures

No changes to this subtask.

5.7 Temporary Water Management

No changes to this subtask.

5.8 Hydraulics Report

This subtask is supplemented to include the documentation for the modeling added under subtasks 5.3 and 5.4 above.

Assumptions:

- Routing is not included in the WWHM modeling in subtask 5.3.
- Impacts of flooding and/or backwater due to the Snoqualmie River will not be modeled. A conservative tailwater boundary will be set for each model. Both models will be steady-state. Flows will be entered at the upstream end of the model and no flow additions or subtractions are in the reach being modeled.
- A 2D hydraulic model is not needed.

Task 6 – Civil Design

No changes to this task.

Task 7 – Structural Design

No changes to this task.

Task 8 – Construction Documents

No changes to this task.

Task 9 – Construction Phase Services

No changes to this task.

Task 10 – Surveying

This task is added to provide the following surveying services:

10.1 Stream Cross Sections

Survey six cross sections at each site which are needed to perform the hydrologic and hydraulic modeling added in Task 5.

Deliverable:

- 2022 Civil 3D drawing

FEE ESTIMATE

The following summarizes the fee breakdown for this amendment:

Task	Total
Task 1 – Project Management	\$ 868
Task 2 – Utility Coordination	\$ 0
Task 3 – Cultural and Historical Analysis (CRC)	\$ 0
Task 4 – Environmental Documentation and Permitting	\$ 0
Task 5 – Hydraulic Design	\$ 8,431
Task 6 – Civil Design	\$ 0
Task 7 – Structural Design	\$ 0
Task 8 – Construction Documents	\$ 0
Task 9 – Construction Phase Services	\$ 0
Task 10 – Surveying	\$ 4,631
Direct Expenses	\$ 0
Total	\$ 13,930

We estimate that we can complete the above scope of work on a time and materials basis for a budget not to exceed the total above. If unexpected situations arise for which additional work is required, Otak will notify the City immediately and discuss any impacts to the scope of work and budget.

Exhibit B

Kimball Creek Bridges Restoration Project - Amendment 1

Fee Estimate

Otak, Inc.

Otak Project #20964

Date: 6/26/2023

		Structural	Hydraulics			Surveying					
Task	Description	Civil Engineer X	Civil Engineer X	Civil Engineer IX	Civil Engineer IV	PLS V	Survey Crew Chief III	Survey Office Tech III	Survey Field Tech III	Total Hours	Total Budget by Task
1	Project Management	4								4	\$868
	General Project Management	4								4	\$868
	Monthly Invoices and Progress Reports										
2	Utility Coordination										
3	Cultural and Historical Analysis	Subconsultant: Cultural Resources Consultants (CRC) - See Below									
4	Environmental Documentation and Permitting										
5	Hydraulic Design		2	11	40					53	\$8,431
5.1	Data Collection										
5.2	Site Investigation and Channel Stability Assessment										
5.3	Hydrologic Analysis			1	4					5	\$779
5.4	Hydraulic Analysis		2	6	24					32	\$5,108
5.5	Scour Analysis										
5.6	Design of Scour Countermeasures										
5.7	Temporary Water Management										
5.8	Hydraulics Report			4	12					16	\$2,544
6	Civil Design										
7	Structural Design										
8	Construction Documents										
9	Construction Phase Services										
10	Surveying					1	18	3	18	40	\$4,631
10.1	Sream Cross Sections					1	18	3	18	40	\$4,631
	Total Hours	4	2	11	40	1	18	3	18	97	
	Billing Rate	\$217.00	\$217.00	\$207.00	\$143.00	\$218.00	\$136.00	\$133.00	\$87.00		
	Total Labor Cost	\$868	\$434	\$2,277	\$5,720	\$218	\$2,448	\$399	\$1,566		\$13,930
	Direct Expenses										
	Subconsultant Administration										
	Otak Total										\$13,930
Subconsultants											
	Cultural Resources Consultants (CRC)	\$ -									
	Subconsultants Total										
	Total										\$13,930