



This proposed Scope of Work (SOW) amendment describes Stream Designing to be performed by Confluence Environmental Company (the “CONSULTANT”) and Sub Consultant, Parametrix (the “SUBCONSULTANT”) in assisting Snohomish County (the “AGENCY”) Department of Public Works (DPW) with the existing Goodman Creek Services Agreement (CCF01-22). This amended adds the preparation of design and specifications to 90% and final stream design, specifications and construction support to Parametrix’s SOW.

Only Task 2 and Task 5 are being revised and included in this amendment. All other tasks remain the same.

#### **SCOPE OF WORK**

This Scope of Work (SOW) provides a summary of the services and support Parametrix will provide Snohomish County related to the Goodman Creek culvert replacement project.

#### **TASK 2: STREAM DESIGN COORDINATION**

This task includes the efforts required for the SUBCONSULTANT to prepare 60% technical specifications to accompany the 60% drawings completed under Amendment 1. This task also includes the preparation of 90% and final design details. The stream design materials will include the design drawings, technical specifications, materials cost information, design calculations and stream design detail stability calculations for large woody material.

SUBCONSULTANT will prepare:

- Materials cost information for inclusion in Sargent Engineers construction cost estimate.
- Stream design detail stability calculations for large woody material (LWM).
- The following drawings and expected number of full size (24 inch x 36 inch) drawings for 90% and Final Design:
  - Stream design layout in plan view – 1 sheet
  - Stream design layout in profile view – 1 sheet
  - Stream design cross sections, up to 4 total – 1 sheet
  - LWM design details, up to 4 total – up to 8 sheets
  - Stream flow construction bypass layout in plan view – 1 sheet
- The following Technical Specifications for 60%, 90% and Final Design milestones:
  - Earthwork/Stream Grading
  - Earthwork/Floodplain Grading
  - Revetment/Countermeasures
  - Streambed
  - Stream Boulders
  - LWM
  - Streambank and Floodplain Preparation and Planting
  - Control of Water/Dewatering
  - In-Water Work, Site Isolation

#### **Assumptions:**

- All files to be provided in AutoCAD format.
- Drawing standards to be provided by Sargent Engineers.

- Drawing prepared by the SUBCONSULTANT will be based on design developed by others.
- Schedule:
  - The SUBCONSULTANT will advance the stream design to the 90% and final design.
  - The deliverable schedule will align with the Sargent Engineers schedule shown below.

Goodman Creek Milestones						
Calendar		Milestone Type	Description	Participants	Notes	
Date	Day					
90%	9/29/23	Fri	Deliverable	90% PS&E Submittal	Sargent, WSE	before beginning 20% design to avoid having to backtrack.
	10/27/23	Fri	Meeting	90% PS&E Review Comments Due	WSE, Sargent, Snohomish County	
	12/1/23	Fri	Deliverable	Final PS&E	Sargent, WSE	
100%	12/29/23	Fri	Meeting	Final PS&E Discussion (if necessary)	WSE, Sargent, Snohomish County	

**Deliverables:**

- Design Drawings for 90% and Final Design to be prepared in AutoCAD format.
- Technical Specifications for 60%, 90% and Final Design milestones to be prepared in Microsoft Word format.
- Final stream design drawing sheets will be stamped and signed by a professional engineer licensed in the State of Washington.

**BUDGET**

The proposed budget for this task will augment the remaining original budget to develop and submit the deliverables described in this task amendment. The proposed Task 2 budget amendment is for \$36,613. The details are provided in the subconsultant budget in Exhibit E.

**TASK 5: CONSTRUCTION SUPPORT**

This task includes site visits for the SUBCONSULTANT to provide construction support to implement the stream design elements as needed. The SUBCONSULTANT will assist with adapting the design to the variable site conditions.

- The SUBCONSULTANT will participate in up to 8 (10 hour) site visits.

**Assumptions:**

- Mileage to the site is 190 miles roundtrip.
- Construction support will occur over 2 construction seasons and associated in-water work windows.
- Any field fit recommendations are to allow construction to proceed while providing the intended function and performance of the stream design features.
- Field adjustments will be based on the original design calculations and engineering professional judgement.
- Recommendations are not to be interpreted as construction change orders. Recommendations that a Contractor deems suitable for consideration as change orders shall be discussed with and approved by the Contract Administrator prior to the Contractor proceeding with recommendations.

**Deliverables:**

- Daily construction logs and photos for target activities of large woody material and stream construction.

**BUDGET**

The proposed budget for this task includes time and mileage. The proposed Task 5 budget amendment is for \$16,428.

The total budget amendment for Task 2 and Task 5 is \$53,041. The details are provided in the subconsultant budget in Exhibit E.

# Exhibit E

## Sub-consultant Cost Computations

**Parametrix**

Prepared by & date 5/10/2023  
 Project number                     

Snohomish County  
**Goodman Cr Culvert Replacement**

Project Name Staff/Item	Task 1 PM		Task 2 Stream Design Coordination		Task 3 Permit Assistance		Task 4 NEPA Support		Task 5A Fish Removal		Task 5B General Site Monitoring		Task 5C Inadvertent Discovery Plan -		Total		
	Rate	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost		
<b>Parametrix staff:</b>																	
Designer IV	\$ 140.00		\$0	88.00	\$12,320		\$0	\$0	\$0	\$0	\$0	\$0	\$0	88	\$12,320.00		
Sr. Graphic Designer	\$ 127.49		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Sr. Engineer	\$ 189.41		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Hydrogeologist IV	\$ 146.28		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Project Controls Specialist	\$ 118.99		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Project Accountant	\$ 97.68		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Sr. Consultant	\$ 205.00		\$0	56.00	\$11,480		\$0	\$0	\$0	50	\$10,250		\$0	106	\$21,730.00		
Sr. Contract Administrator	\$ 118.99		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
Engineer III	\$ 147.90		\$0	80.00	\$11,832		\$0	\$0	\$0	30	\$4,437		\$0	110	\$16,269.00		
<b>Total Parametrix staff</b>		0	\$0	224.00	\$36,632	0	\$0	0	\$0	0	\$0	80	\$14,687	0	\$0	304	\$50,319
Parametrix Escalation					\$981								\$745				\$1,726
<b>Other Direct Expenses</b>																	
<b>Reimbursable Direct Expenses</b>																	
Mileage	\$0.655		\$0		\$0		\$0	\$0	\$0	1,520	\$996		\$0	1,520	\$995.60		
Reimburse for travel meals (at cost)	\$10		\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	\$0.00		
<b>Total Reimbursable Direct Expense</b>		\$0	\$0	0.00	\$0	0	\$0	\$0	\$0	0	\$0	1,520	\$996	\$0	\$0	1,520	\$995.60
<b>Parametrix TOTAL</b>			\$0		\$36,613		\$0	\$0	\$0	\$0	\$0		\$16,428	\$0	\$0		\$53,041
<b>Grand totals</b>			\$0		\$36,613		\$0	\$0	\$0	\$0	\$0		\$16,428	\$0	\$0		\$53,041

Agreement Number: CCF01-22