

Snohomish County Standard Consultant Agreement Supplement		Consultant/Address/Telephone Otak, Inc. 10230 NE Points Drive, Suite 400 - 11241 WILLOWS RD Kirkland, WA 98033 NE, SUITE 200 REDMOND, WA 98052	
Supplement Number Supplement No.1	Contact Name / E-Mail Address Nico Vanderhorst / nico.vanderhorst@otak.com		
Agreement Number CCF08-13	Telephone 425-739-4212	Fax 425-827-9577	
Project Title North Creek Trail Design Services	Execution Date February 25, 2014	Completion Date June 30, 2016	
New Maximum Amount Payable Remains Unchanged at \$1,129,511.00			
Description of Work <i>Provide Design Services for a section of the North Creek Regional Trail (2.8 miles) between SR 524 and North Creek Park at 183rd Street SE.</i>			

WHEREAS, Snohomish County desires to supplement the Agreement entered into with **Otak, Inc.** and executed on the 25th day of February, 2014, and identified as Agreement No. **CCF08-13**, and

WHEREAS, Snohomish County desires to authorize the release of \$49,945.00 in Management Reserve Funds to compensate for the additional services defined in this supplement. All provision of the basic agreement remain in effect except as expressly modified by this supplement.

The changes to this Agreement are described as follows:

1. The "Completion Date" on the Agreement title page is amended as follows:

Completion Date (~~December 31, 2015~~) June 30, 2016

2. The "Total Amount Authorized" on the Agreement title page is amended as follows:

Total Amount Authorized (~~(\$1,029,511.00)~~) \$1,079,456.00

3. The "Management Reserve Fund" on the Agreement title page is amended as follows:

Management Reserve Fund (~~(\$100,000.00)~~) \$50,055.00

4. Maximum Amount Payable, on the Agreement title page, shall remain unchanged as payment for the supplemental work will be drawn from the management reserve fund.

5. The first and second paragraphs of section **IV Sub-Contracting**, are hereby amended to read:

The COUNTY permits sub-contracts for those items of work as shown in Exhibit "G" comprised of Exhibit G and Exhibit Ga, attached hereto, and by reference made a part of this AGREEMENT.

Compensation for this sub-consultant work shall be based on the cost factors shown on Exhibit "G-1", Exhibit "G-1a" and Exhibit "G-2".

6. **EXHIBIT Ga Supplemental Subcontracted Work**, attached hereto and by this reference made part of the original Agreement.
7. **EXHIBIT G-1a Supplemental Subconsultant Fee Determination – Budget**, attached hereto and by this reference made part of the original Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Supplement No.1 on this 5 day of AUGUST, 2015.

SNOHOMISH COUNTY



Director of Public Works

OTAK, INC.



Signature

Principal / Senior VP

Title

EXHIBIT Ga

Supplemental Subcontracted Work

PROJECT BACKGROUND

The SUBCONSULTANT is under contract to provide geotechnical services to support final design of the project. The SUBCONSULTANT's original scope of services includes advancing a series of shallow hand auger borings throughout the North Creek wetland. Hand auger borings were initially proposed along this portion of the trail alignment because when the original scope and budget for the project was prepared, it was envisioned that the portion of the proposed trail alignment that crosses the North Creek wetland would be supported by a boardwalk. The design of the project has progressed since the original scope and budget for this project prepared, and it is now understood that an approximately 1,400 ft. long bridge, with 15 support piers, will be used to cross North Creek and the adjacent North Creek wetland. The use of hand auger borings to collect subsurface information that is needed to develop geotechnical design recommendations for use in designing the bridge foundation is not considered to be appropriate. Instead, advancing a series of deeper explorations using a drill rig is recommended.

SUPPLEMENTAL SCOPE OF SERVICES

The following sections define the SUBCONSULTANT's tasks for supplemental geotechnical engineering services to support final design of the proposed trail project.

Supplemental Field Investigation Planning: The SUBCONSULTANT will meet with CONSULTANT and the COUNTY to discuss and plan the supplemental field investigation, including preparing cost estimates for a variety of exploration approaches. This task also includes time for the SUBCONSULTANT to meet with CONSULTANT, the COUNTY, and the drilling, excavation, and geophysical subcontractors in the field to discuss the alternative exploration approaches, as well as discuss the permit requirements as they relate to the supplemental field investigation. Under this task the SUBCONSULTANT will also provide information and respond to questions from the COUNTY related to preparation of the Joint Aquatic Resource Permit Application (JARPA) for the supplemental explorations.

Supplemental Field Investigation and Laboratory Testing Program: The COUNTY will utilize the Washington State Department of Transportation (WSDOT) to advance exploratory borings at the proposed locations of Piers 1 through 10, 13, and 15 to characterize soil and groundwater conditions in the vicinity of these pier locations (Piers 11, 12, and 14 were previously drilled as part of the original scope of work). The SUBCONSULTANT will provide an engineering geologist or geotechnical engineer on a full-time basis to observe the explorations, obtain soil samples from the borings, and prepare field logs of conditions encountered in the explorations. Each boring will be advanced up to a depth of 40 ft, or deeper if warranted by the subsurface conditions encountered. The supplemental exploratory borings will be completed using either the hollow stem auger or mud rotary drilling technique and either a skid rig or a track-mounted drill rig.

Soil samples will be obtained from the exploratory borings on a 2½- or 5-ft depth interval using the Standard Penetration Test (SPT) procedure, and will be delivered to the SUBCONSULTANT's laboratory for further examination and classification. Soil samples obtained from the explorations will be held in the SUBCONSULTANT's laboratory for 30 days after submittal of the final report, unless arrangements are made to retain them. The SUBCONSULTANT does not plan to install piezometers to monitor groundwater levels; however, the groundwater level (if observed) will be noted at the time of drilling. Upon completion of sampling and logging, WSDOT will decommission the boreholes in accordance with the requirements of WAC 173-160. Excess soil cuttings from the exploratory borings will be disposed of on site. If the mud rotary drilling technique is used to advance the borings, WSDOT will properly dispose drilling fluids offsite.

The SUBCONSULTANT will complete a geotechnical laboratory testing program consisting of natural moisture content and grain size and/or Atterberg Limits determinations on selected soil samples to aid in classifying site soils.

Engineering Analyses and Reporting: Information from the supplemental field investigation will be analyzed by a geotechnical engineer from the SUBCONSULTANT to develop geotechnical engineering conclusions and recommendations to support design of the proposed trail project. The results of the field explorations, laboratory

testing, engineering analyses, and the geotechnical engineering conclusions and recommendations will be summarized in the geotechnical report that is included in original scope of work.

ASSUMPTIONS

This scope of work and estimate are based on the following assumptions:

- The COUNTY will retain WSDOT to complete the supplemental exploratory borings using either the hollow stem auger or mud rotary drilling technique and either a skid rig or a track-mounted drill rig.
- WSDOT will be responsible for arranging for underground utility location ("call before you dig") prior to performing field activities.
- WSDOT will be responsible to clear vegetation so the drill rig(s) can access the proposed drill sites located on the west side of North Creek. The SUBCONSULTANT will be responsible to clear vegetation on the east side of North Creek.
- WSDOT will be responsible for complying with all Corps permit requirements that apply to drilling within the North Creek wetland.
- After the drilling program is completed, WSDOT will be responsible for restoring the North Creek wetland as outlined the project's Corps permit.
- WSDOT will complete the supplemental drilling within 18 days. A budget amendment will be needed if the field exploration program cannot be completed in 18 days.

EXHIBIT G-1a
Supplemental Subconsultant Fee Determination – Budget

Project: North Creek Trail - Final Design (Supplemental Geotechnical Services)

Subconsultant: Landau Associates

Direct Salary Cost (DSC):

a

<u>Classification (a)</u>	<u>Hours</u>	=	<u>Max Rate (b)</u>	=	<u>Cost</u>
Principal	44	X	\$213.10		\$9,376.40
Senior Associate		X	\$174.98		\$0.00
Associate		X	\$146.01		\$0.00
Senior	22	X	\$122.49		\$2,694.78
Senior Project	179	X	\$117.72		\$21,071.88
Project		X	\$96.70		\$0.00
Senior Staff		X	\$90.44		\$0.00
Senior CAD		X	\$104.98		\$0.00
Staff/Senior Technician II	87	X	\$102.19		\$8,890.53
Project Coordinator	4	X	\$93.69		\$374.76
CAD/GIS Technician	10	X	\$82.72		\$827.20
Technician		X	\$57.19		\$0.00
Support Staff		X	\$68.97		\$0.00
Total Labor Cost				=	\$43,235.55

Reimbursables:

Travel Expenses (est. 432 miles @ \$0.575/mile)	\$248.40
Reproduction Expenses	\$100.05
Field Equipment/Supplies	\$949.00
Laboratory Testing	\$2,712.00
Clearing Subcontractor	\$2,700.00

Subconsultant Total = \$49,945.00

Prepared By: S. Wright Date: 7/13/2015

(a) Classifications shown are general, the actual invoice will show our employee's specific discipline (e.g., Senior Engineer, Senior Geologist, Senior Planner, etc.)

(b) Each category may have multiple employees assigned to that billing category and each employee may have a different hourly rate of pay.