

EVERETT CITY COUNCIL AGENDA ITEM COVER SHEET

PROJECT TITLE:

Amendment No. 2 to Professional Services Agreement with Reid Middleton for Puget Sound Outfall No. 6 Reroute Project Construction Phase Services

_____ Briefing
 _____ Proposed Action
 _____ Consent
 x Action
 _____ First Reading
 _____ Second Reading
 _____ Third Reading
 _____ Public Hearing
 _____ Budget Advisory

COUNCIL BILL # _____
 Originating Department Public Works
 Contact Person Amie Roshak, PE
 Phone Number 425-257-7249
 FOR AGENDA OF June 22, 2016

Initialed by:
 Department Head _____
 CAA db
 Council President dm

<u>Location</u>	<u>Preceding Action</u>	<u>Attachments</u>	<u>Department(s) Approval</u>
Port of Everett property, west of Bond Street	Professional Services Agreement, October 13, 2015 Amendment 1, March 14, 2016	Location Map Amendment 2	Public Works, Legal

Amount Budgeted	\$900,000	
Expenditure Required	\$64,017	Account Number(s): UP 3583
Budget Remaining	\$640,904	
Additional Required	\$0	

DETAILED SUMMARY STATEMENT:

The Puget Sound Outfall No. 6 (PSO6) project will reroute the existing combined sewer outfall, which was found to have concrete blocking three-quarters of the pipeline. The project is needed to restore capacity to the outfall pipe.

Reid Middleton is providing structural, geotechnical and civil engineering services for the PSO6 Reroute project, authorized by Council on October 13, 2015. The Amendment will provide for construction phase services, including review of submittals, responding to contractor requests for information, observation of construction activities and testing, environmental screening, report preparation and attending on-site construction meetings.

Previously authorized expenditures for the project include \$195,079 for survey, geotechnical, structural and civil engineering services. Expenditures requested to date, including this request for additional services in the amount of \$64,017, now total \$259,096.

The Port of Everett is the landowner and has agreed to equally split the cost of the consultant design fee and construction.

RECOMMENDATION (Exact action requested of Council):

Authorize the Mayor to sign Amendment No. 2 to Professional Services Agreement with Reid Middleton for Puget Sound Outfall No. 6 Reroute Project Construction Phase Services in the amount of \$64,017.

AMENDMENT NO. 2
TO
AGREEMENT FOR ENGINEERING SERVICES
PSO6 Reroute Project

WHEREAS:

Reid Middleton, Inc. entered into an Agreement on October 13, 2015 to perform engineering design and construction services for the PSO6 Reroute Project for the City of Everett ("City");

The City desires to amend this Agreement by adding to the scope of services in order to perform the final engineering design and construction services and Reid Middleton, Inc. is willing to amend the agreement.

NOW, THEREFORE, Reid Middleton, Inc. and the City do hereby agree:

The Agreement and the terms and conditions therein shall remain unchanged other than those conditions and exhibits listed below;

Section 4: Modify Paragraph D, which describes the maximum total compensation, by increasing the total maximum compensation by \$64,017. Delete the existing sentence and replacing with the following sentence:

"Total compensation, including all services and expenses, shall not exceed a maximum of Two hundred fifty nine thousand and ninety six dollars (\$259,096)."

Amend the previous Exhibit A; Scope of Services, and Exhibit B; Project Hours, Expenses and Fee Estimate, by adding the following items:

Exhibit A2; Scope of Services, and
Exhibit B2; Project hours, Expenses and Fee Estimate

Exhibit A-2
Scope of Work
PSO6 Reroute Project

Task 12-13 Construction Phase Services

Objective

1. To assist the City with construction phase services.

Reid Middleton: Structural Construction Phase Services

1. Conduct (6) site visits during the construction phase of the project to observe the construction of structural aspects of the project. The anticipated site visits are expected to occur during the installation of tiebacks, installation of piles, installation of concrete pile cap, installation of steel waler system and two visits at a yet to be determined time.
2. Provide structural review of shop drawings and deferred submittals relating to the structural design of the project.
3. Review contractor request for information pertaining to the structural design of the project.
4. Attend (6) on site construction meetings.
5. Attend pre-construction meeting.
6. Coordination with the City and the Port, internal project management.

Reid Middleton: Civil Construction Phase Services

1. Attend pre-construction meeting.
2. Review civil submittals, products, and shop drawings requested in the technical specifications.
3. Answer contractor questions (e.g. RFIs, Field Questions) concerning civil design.
4. Attend (2) on site construction meetings.
5. Conduct up to (6) site visits during construction to observe aspects related to the civil design of the project, as requested by the City.
6. Provide internal project management and administration.
7. Perform a substantial completion walk-through and review a punch list for elements of civil design prepared by the City.

Shannon and Wilson Construction Phase Services

1. Contractor Submittal Review
 - a. Pipe Pile Submittal
 - b. Tieback Submittal
 - c. Dewatering Submittal

2. Geotechnical/Environmental Construction Observation
 - a. Preconstruction Meeting
 - b. Observation of Mass Excavation, Subgrade Observation, and Environmental Screening (assumed 1 week of excavation observation@10 hours per day including travel time and report preparation)
 - c. Tieback Installation (assumed 1 week@10 hours per day including travel time and report preparation)
 - d. Tieback Testing (assumed 1 hour per proof test, 2 hours per performance test, and 1 hour for test interpretation and report preparation)
 - e. Pipe Pile Driving Criteria (WEAP Analysis)
 - f. Pipe Pile Installation (assumed 1 day@10 hours including travel time and report preparation)
 - g. Placement and Compaction of Backfill (assumed 1 week @10 hours per day including travel time and report preparation)

3. Office Review, Supervision and Consulting Services
 - a. Field Activity Report Review
 - b. Environmental Testing / Analytical Results Review
 - c. Groundwater Monitoring Review
 - d. Additional Project Meetings (assumed conference calls)
 - e. Site Visits – Review of Unanticipated Conditions



ALASKA
CALIFORNIA
COLORADO
FLORIDA
MISSOURI
OREGON
WASHINGTON
WASHINGTON DC METRO
WISCONSIN

June 1, 2016

Mr. Corbin Hammer, PE, SE
Reid Middleton, Inc.
728 134th Street SW, Suite 200
Everett, WA 98204

**RE: PROPOSAL FOR GEOTECHNICAL/ENVIRONMENTAL CONSTRUCTION
OBSERVATION SERVICES, PORT OF EVERETT PSO 6 REROUTE,
EVERETT, WASHINGTON**

Dear Mr. Hammer:

We are pleased with the opportunity to submit this proposal for geotechnical/environmental construction observation services at the Port of Everett property corresponding to the PSO 6 Re-route in Everett, Washington. This proposal is based on the 95 percent design plans submitted to us by Reid Middleton, Inc. (RMI) and our experience with similar projects in the area.

SCOPE OF SERVICES

Submittal Review

Prior to observing the construction activities for this project, we will provide review of Contractor submittals corresponding to the following:

- Tiebacks,
- Pipe Piles, and
- Dewatering.

Construction Observation

For this project, we will assign experienced field staff to observe that the following geotechnical/environmental construction activities are accomplished in accordance with the project plans and specifications:

Mr. Corbin Hammer, PE, SE
Reid Middleton, Inc.
June 1, 2016
Page 2 of 5

- Preconstruction meetings with design team;
- Observation of mass excavation;
- Screen material for reuse as backfill;
- Environmental screening, as required;
- Installation and testing of tiebacks;
- Observation and evaluation of manhole and pipe subgrades;
- Installation of 12-inch-diameter pipe piles; and
- Placement and compaction of backfill.

Our services will be provided on a full-time, part-time, or on-call basis depending on the activities underway and the schedule of the Contractor. We will rely on the Contractor to inform us of the times that we are needed at the project site. At least 24 hours' advance notice is requested for our services during an on-call basis. During mass excavation, installation and testing of the tiebacks, and installation of the pile foundation elements, we will have a representative on site, full-time. Our services for the remaining tasks will be either part-time or on-call, as required by the construction schedule.

After each site visit, our field representative will prepare daily field activity reports of observed construction activities and tests. Copies of our reports will be sent electronically to the City of Everett, The General Contractor, and RMI. Please let us know if additional circulation copies are required.

While at the project site, our field representative will advise the City and Contractor of our observations and opinions. Recommendations that may affect the contract costs will be made to the owner. Our field representative will not instruct or direct the Contractor, as his direction should be received from the owner or others responsible for contract administration. We will contact you directly if immediate action needs to be taken. Our duties do not include a review of or responsibility for the adequacy of safety measures at or near the project site.

Environmental Screening

Based on the laboratory analytical results and field observations of the soil samples collected at the site along the proposed utility corridor, the majority of the soil appears to not be contaminated. However, soil represented by one of the composite samples, GP-1-7.5C, is impacted by heavy oil-range hydrocarbons. At a minimum, we recommend that environmental screening of the excavated material occur near the location of boring GP-1. We assume that our

Mr. Corbin Hammer, PE, SE
Reid Middleton, Inc.
June 1, 2016
Page 3 of 5

geotechnical staff will be on-site during the mass excavation and we will coordinate with them if contaminated soils are encountered. Environmental screening will consist of visual and olfactory observations and the use of a photoionization detector. In the event soil samples are collected, they will be analyzed for contaminants of concern already identified through previous explorations. Even if contaminated soil is not identified during the environmental screening, additional analytical testing may be required based on the disposal facilities permit requirements. For estimating costs, we have assumed that up to three additional environmental samples may be collected and that they would be analyzed for the following:

- Northwest Total Petroleum Hydrocarbons (NWTPH) Hydrocarbon Identification,
- Polychlorinated Biphenyls,
- Semi-Volatile Organic Compounds, and
- Resource Conservation and Recovery Act 8 Metals plus copper, nickel, and zinc.

Follow on analyses may also be required and could consist of the following:

- NWTPH Diesel and Heavy Oil-Range Hydrocarbons,
- NWTPH Gasoline-Range Hydrocarbons, and
- Toxicity Characteristic Leaching Procedure.

In order to not create delays in the project, we have assumed that analytical laboratory testing would be completed on a 24-hour turnaround time.

Office Review, Supervision, and Consulting Services

In addition to geotechnical/environmental construction observation and dewatering system observation, office review, supervision, and consulting services will be required. Martin Page will continue as principal-in-charge and geotechnical project manager. David Randall will manage environmental portions of the work under the oversight of Scott Gaulke. They will provide consulting services, as required, such as:

- Visiting the site to review unusual or unanticipated conditions;
- Conducting engineering evaluations and providing recommendations as conditions dictate;
- Attending additional project or site meetings outside of preconstruction meetings;

Mr. Corbin Hammer, PE, SE
Reid Middleton, Inc.
April 28, 2016
Page 4 of 5

- Supervising our field personnel and reviewing daily field activity reports;
- Reviewing and interpreting, groundwater monitoring, and environmental laboratory data; and
- Providing other services as requested.

In addition to our engineering and hydrogeologic services, we can also provide soil laboratory services, as required. Laboratory tests could include gradation analyses to assess the quality of fill materials, and Modified Proctor compaction curves to evaluate the results of field density tests.

ESTIMATED COSTS

Our services for these tasks will be on a time-and-expense basis. Our fee and the terms under which our services are offered will be in accordance with the enclosed Standard General Terms and Conditions. Based on the construction durations discussed in the enclosed fee estimate, we estimate that our fees will be approximately \$30,768.

As mentioned, this estimate is based on the 95 percent design plans submittal and our general experience with similar projects in the area. The effort required by us to observe the work is not directly under our control. It is related to the Contractor's and subcontractor's rate of progress, weather, unforeseen difficulties, soil and groundwater conditions exposed, and other factors. Our actual cost will be based on specific personnel time and expense needed to properly monitor the construction.

CLOSURE

If the scope of services presented in this proposal is acceptable, please sign on the space provided and return one signed copy of this proposal, which will then serve as our agreement. We have prepared the enclosure, "Important Information About Your Geotechnical/Environmental Proposal," to assist you and others in understanding the use and limitations of our proposal.

SHANNON & WILSON, INC.

Mr. Corbin Hammer, PE, SE
Reid Middleton, Inc.
April 28, 2016
Page 5 of 5

We appreciate your continued confidence in Shannon & Wilson, Inc. and look forward to working with you in successfully completing this project. If you have any questions, or need additional information, please contact me at (206) 695-6875.

Sincerely,

SHANNON & WILSON, INC.



Martin W. Page, PE, LEG
Vice President
Geotechnical Engineer, LEED AP, DBIA™

KJW:MWP/kjw

Enc: Table 1 – Fee Estimate (2 pages)
Standard General Terms and Conditions, SEA-GH-2016 (1/2016)
Important Information About Your Geotechnical Proposal

I accept the above conditions and authorize the above work to proceed.

By _____
(print)

Signature _____

Organization

Date _____

**TABLE 1
FEE ESTIMATE**

Classification	Hours	Rate	Cost
Vice President	21.5	\$245.00	\$5,268
Senior Engineer II	14	\$130.00	\$1,820
Engineer II	191	\$90.00	\$17,190
Total Hours	226.5		\$24,278
Reimbursables	Quantity	Rate	Cost
Geotechnical Laboratory Testing (as needed)			
Grain Size Analysis	3	\$135/Test	\$405
Modified Proctor Compaction Test	2	\$300/Test	\$600
Photoionization Detector	5	\$75/Day	\$375
Analytical Laboratory Testing (<i>Cost based on a 24-hour turnaround time.</i>)			
Hydrocarbon Identification (HCID)	3	\$110/Sample	\$330
Polychlorinated Biphenyls (PCBs)	3	\$150/Sample	\$450
Semi-Volatile Organic Compounds (SVOCs)	3	\$580/Sample	\$1,740
RCRA 8 Metals plus Copper, Nickel, and Zinc	3	\$312/Sample	\$936
Additional Follow On Analytical Laboratory Testing (<i>Cost based on a 24-hour turnaround time</i>)			
Diesel and Heavy Oil-Range Hydrocarbons	3	\$120/Sample	\$360
Gasoline Range Organics	3	\$110/Sample	\$330
Toxicity Characteristic Leaching Procedure	3	\$140/Sample	\$420
Mileage	1,008	\$0.54/Mile	\$544
Total Reimbursable Costs:			\$6,490
Total Shannon & Wilson, Inc. Estimated Fee			\$30,768

See page 2 for labor estimate.

**TABLE 1
FEE ESTIMATE**

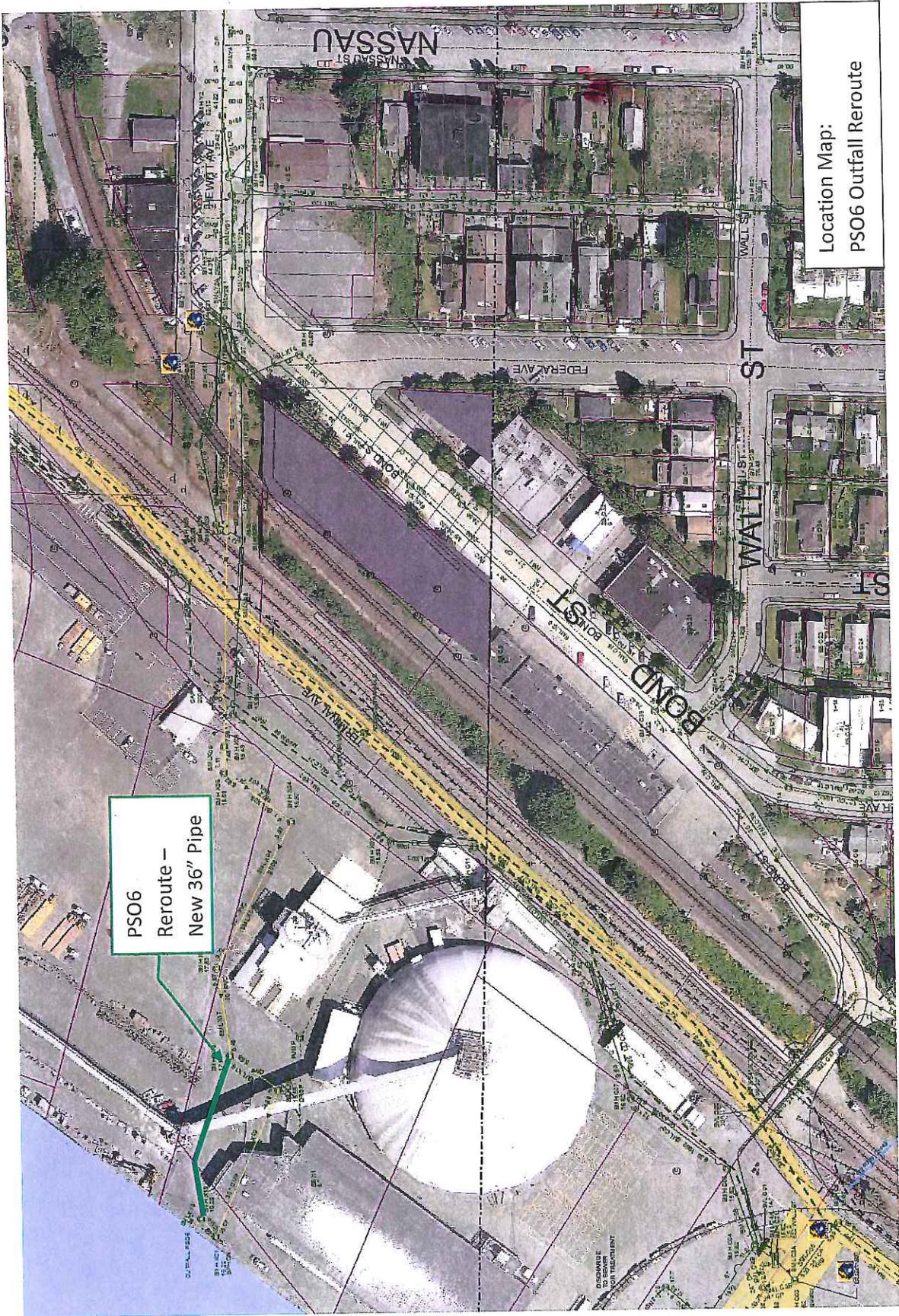
Labor Estimate (Hours)

	Task	Vice President	Senior Engineer II	Engineer II	TOTAL
1.0	<i>Contractor Submittal Review</i>				
	Pipe Pile Submittal	0.5		3	3.5
	Tieback Submittal	0.5		3	3.5
	Dewatering Submittal		4		4
2.0	<i>Geotechnical/Environmental Construction Observation</i>				
	Preconstruction Meeting	2		2	4
	Observation of Mass Excavation, Subgrade Observation, and Environmental Screening (<i>assumed 1 week of excavation observation @ 10 hours per day including travel time and report preparation</i>)			50	50
	Tieback Installation (<i>assumed 1 week @ 10 hours per day including travel time</i>) and report preparation			50	50
	Tieback Testing (<i>assumed 1 hour per proof test, 2 hours per performance test, and 1 hour for test interpretation and report preparation</i>)			19	19
	Pipe Pile Driving Criteria (<i>WEAP Analysis</i>)	1		4	5
	Pipe Pile Installation (<i>assumed 1 day @ 10 hours including travel time and report preparation</i>)			10	10
	Placement and Compaction of Backfill (<i>assumed 1 week @ 10 hours per day including travel time and report preparation</i>)			50	50
2.0	<i>Office Review, Supervision, and Consulting Services</i>				
	Field Activity Report Review	8			8
	Environmental Testing / Analytical Results Review	4	10		14
	Groundwater Monitoring Review	1.5			1.5
	Additional Project Meetings (<i>assumed conference calls</i>)	2			2
	Site Visits - Review of Unanticipated Conditions	2			2
	Column Totals (hours)	21.5	14	191	226.5

Notes: Actual construction observation charges will be based on the actual time spent to provide the required services. In the above estimate, we assumed that only one field representative at a time would be required to observe the construction tasks.

RCRA = Resource Conservation and Recovery Act

WEAP = Wave Equation Analysis Pile



PS06
Reroute -
New 36" Pipe

Location Map:
PS06 Outfall Reroute

