# **AM NO. 11-095 (C.8)**

MEMO TO: City Council

FROM: John Marchione, Mayor

DATE: May 3, 2011

SUBJECT: APPROVAL OF AWARD OF BID FOR VALLEY ESTATES BANK

STABILIZATION AND CULVERT REPLACEMENT AND APPROVE SUPPLEMENTAL CONSULTANT AGREEMENT NO. 3 FOR

**CONSTRUCTION SERVICES, PROJECT NO. 100392** 

### I. RECOMMENDED ACTION:

Approve the award of bid for the Valley Estates Bank Stabilization and Culvert Replacement, Project No. 100392, to Road Construction Northwest, Inc., of Renton, Washington, for the total bid amount of \$1,350,869.75, and authorize the Mayor to sign the construction contract.

Approve Supplemental Consultant Agreement No. 3 with Otak for construction services for the Valley Estates Bank Stabilization and Culvert Replacement, Project No. 100392, in an amount not to exceed \$87,772 including contingencies, and authorize the Mayor to sign the agreement.

### II. DEPARTMENT CONTACT PERSONS:

Bill Campbell, Director of Public Works	425-556-2733
Ron Grant, Assistant Public Works Director/City Engineer	425-556-2742
Michael Haley, Project Manager	425-556-2843

### III. DESCRIPTION:

The project area extends from the Sammamish River to just upstream of Redmond-Woodinville Road (see Attachment A). This includes a culvert crossing under the Sammamish River Trail and approximately 2,000 feet of stream channel up to the culvert under Redmond-Woodinville Road (expected to remain in its current configuration). This Class 2 stream through the Valley Estates and Redmond 74 / Mondavio / Verona plats is eroded, limiting in-stream habitat and contributing sediment to the Sammamish River. Erosion in the upstream reaches has created cut banks and an incised channel, resulting in sediment deposition in the valley floor. The stream enters the Sammamish

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River through a steeply sloped culvert with an outlet at least four feet above the low flow water surface of the river, isolating the stream from salmon and trout.

The project construction includes:

- Installing a high-flow bypass pipe to control peak flows through the stream channel and reduce erosion.
- Replacing the outfall culvert with a larger fish-passable box culvert under the Sammamish River Trail, replacing an existing crossing with a fish passable culvert, and removing a weir that blocks fish movement.
- Re-grading the lower channel near the outfall to step up using weirs, restoring the channel mouth and providing fish passage to the stream.
- Providing stabilization and in-stream habitat complexity for fish and aquatic life using small logs, boulders, bioengineering (stabilizing with live plants), and buffer vegetation. These techniques will be implemented to direct erosive flows away from steep banks; diversify in-stream habitat by creating pools; and restore native trees and other vegetation in the adjacent open space.
- Stabilizing the area around the pipe outfall under Redmond-Woodinville Road.

This construction will allow all flow to remain in the channel during low flow conditions, while peak flows will be diverted into the high flow bypass pipe during storm events. Reducing peak flows through the channel is expected to limit erosion, improve water quality, and contribute to restoring the in-stream habitat. Successful design approaches from similar completed projects on nearby streams has been used as templates for instream elements on this project.

Construction activities will start in June of this year and extend through fall 2011. This is due to the fact that permits restrict the contractor from working below the normal high water mark of the river until July. Awarding the contract in May of this year will provide the contractor with additional time to obtain equipment and materials for the bypass construction to ensure that the project will be complete this fall.

### Supplemental Consultant Agreement No. 3

Supplemental consultant agreement No. 3 will allow Otak to provide construction engineering services associated with the Valley Estates Bank Stabilization and Culvert Replacement project.

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The attached supplemental consultant agreement is the City's standard agreement form. The City Attorney and Risk Manager will review and approve the agreement prior to signature by the Mayor.

### **Bid Results**

Advertisements for bids were placed in the *Daily Journal of Commerce* on March 30 and April 6, 2011. The City Clerk received bids until 2:00 p.m., April 14, 2011, and there were six (6) bidders. The total bids are summarized below:

Bidder	<b>Business Location</b>	Amount
Road Construction Northwest, Inc.	Renton, WA	\$1,350,869.75
Tri-State Construction, Inc.	Bellevue, WA	\$1,357,438.65
A-1 Landscaping and Construction	Snohomish, WA	\$1,385,650.23
New West Development, Inc.	Mukilteo, WA	\$1,386,224.01
Santana Trucking & Excavating, Inc	. Redmond, WA	\$1,445,659.73
Westwater Construction Company	Auburn, WA	\$1,745,916.18

All bidders' prices, extensions, and additions have been checked for accuracy and for unbalanced bid items.

The low bidder was Road Construction Northwest, Inc. Staff recommends award to Road Construction Northwest, Inc., the lowest responsible bidder. The contractor's references were checked and found to be acceptable.

### IV. IMPACT:

A. <u>Service/Delivery:</u> This project will reduce erosion, enhance habitat for salmon and other wildlife, provide fish passage into the stream system and improve aesthetics for users of the Sammamish River Trail and homeowners adjacent to the stream.

### B. Fiscal:

**Estimated Project Costs:** 

<u>Design</u> Prelimi

Preliminary Engineering - Otak	\$484,743
Supplemental Agreement No. 2 – Final Design	101,258
Supplemental Agreement No. 3 – Construction Services	87,772
City Administration	100,000
Total Design	\$773,773

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Construction	
Road Construction Northwest, Inc.	\$1,350,870
Contingencies	100,000
City Administration	80,000
Total Construction	\$1,530,870
Total Estimated Cost	\$2,304,643
Project Funding	
Stormwater CIP	\$2,077,585
King County Regional Flood District	133,320
King Conservation District	93,738
Total	\$2,304,643

# V. ALTERNATIVES:

City Council could choose not to approve the construction contract with Road Construction Northwest, Inc., as submitted. This would mean that the project would be delayed by at least one year and a new bid process would need to be initiated.

# VI. TIME CONSTRAINTS:

Award of bid must occur within 45 days of the bid opening or the contractors may withdraw their bids.

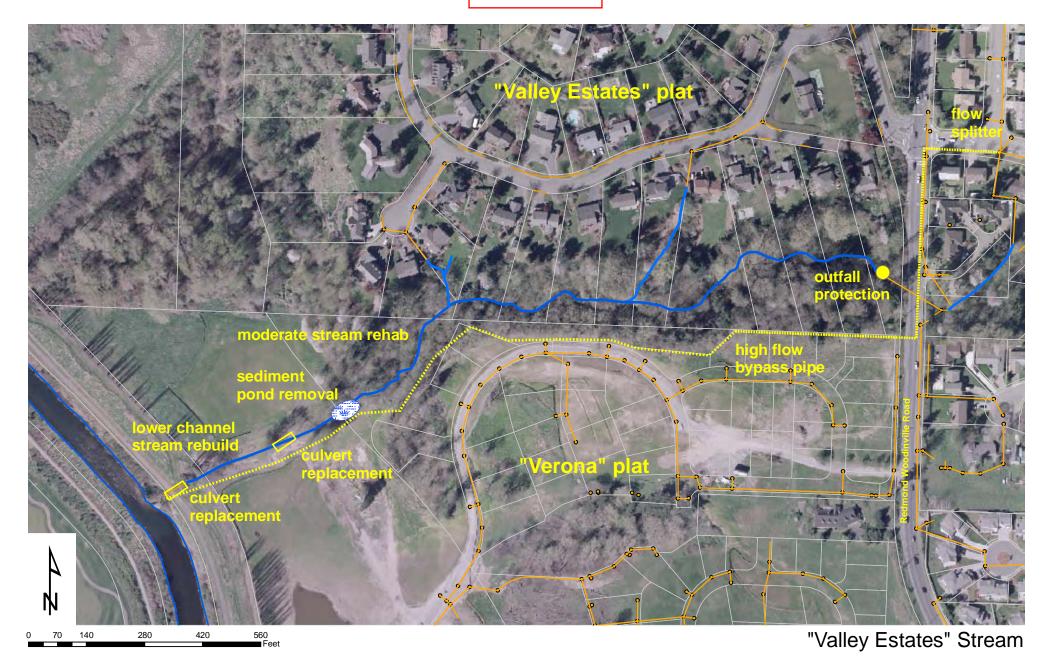
Construction Contract Award May 3, 2011
Construction Period June 2011 to Fall 2011

### VII. LIST OF ATTACHMENTS:

- A. Vicinity Map
- B. Proposed Supplemental Agreement

/s/		4/22/2011
William J. Campbell, Director of	Date	
Approved for Council Agenda	/s/	4/26/2011
	John Marchione, Mayor	Date

# ATTACHMENT A



### ATTACHMENT B

# Valley Estates Bank Stabilization and Culvert Replacement Project No. 100392 (03-NR-46)

### SUPPLEMENTAL AGREEMENT NO. 3

This SUPPLEMENTAL AGREEMENT, made and entered into this	day of	, 2011,
between the City of Redmond, Washington, hereinafter called the CITY	, and Otak,	hereinafter called the
CONSULTANT, amends an earlier Agreement (AGREEMENT) dated	July 5, 2008	3.

WHEREAS the CITY desires to supplement the original AGREEMENT;

NOW THEREFORE, it is mutually agreed that the terms, stipulations, and conditions of the original AGREEMENT shall be binding upon the parties hereto except insofar as amended by this SUPPLEMENTAL AGREEMENT as follows:

Ι

Section II, SCOPE OF WORK, is amended by the additional tasks summarized in Exhibit A-3 attached hereto.

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the completion date for all work to read December 31, 2011.

III

Section V, PAYMENT, shall be amended to compensate the CONSULTANT for the work described in Exhibit A-3.

A breakdown of the CONSULTANT'S cost proposal is attached hereto as Exhibit B-3. By this reference the exhibit is made a part of this SUPPLEMENTAL AGREEMENT.

Summarized below are the costs as listed in the original AGREEMENT and as modified by this SUPPLEMENTAL AGREEMENT.

		Summary			
Description	Original	Supplement	Supplement	Supplement	Total
	Agreement	No. 1	No. 2	No. 3	
Labor Cost	\$202,037	\$221,806	\$87,758	\$74,772	\$586,373
Reimbursables	8,900	8,000	4,500	\$3,000	\$24,400
Subtotal	210,937	229,806	92,258	\$77,772	\$610,773
Contingency	21,000	23,000	9,000	\$10,000	\$63,000
<b>Grand Total</b>	\$231,937	\$252,806	\$101,258	\$87,772	\$673,773

# **EXECUTION**

IN WITNESS WHEREOF, the parties have executed this SUPPLEMENTAL AGREEMENT by having their representatives affix their signatures below.

OTAK	CITY OF REDMOND
Ву	By John Marchione, Mayor
(Title)	
	Attested:
	ByCity Clerk
	Approved as to Form:
	By

# **EXHIBIT A-3**

# Valley Estates Bank Stabilization and Culvert Replacement City of Redmond Project No. 100392 (03-NR-46)

# Addendum 3-Scope of Work for Bid Support and Construction Services

Otak Project 31292 April 11, 2011

The following scope is for additional services requested by the City of Redmond to provide support services during the contractor bidding and award phase of the project, during construction of the Valley Estates Bank Stabilization and Culvert Replacement Project.

# 30.0 Design Support during Bid Phase

The City shall distribute and track contract document distribution, collect document fees, distribute addenda and pay related distribution costs, attend and facilitate bid opening, and distribute bid tabulation. Otak will assist the City in responding to contractor questions and interpretation of contract documents during bidding. Otak will assist the City, as requested, in preparing addenda during the bidding process. Budget for this task is based on preparing two separate addenda. Otak will review all bids received to verify that they are in conformance with bid requirements and prepare a tabulation of bids received. Otak will review the qualifications of low bidder(s) and prepare a recommendation to award.

# 31.0 Construction Support Services

The City will be responsible for leading the construction administration and construction observation effort. Services for these activities are based on providing services for a consecutive nine (9) month period. Otak will assist the City with the following tasks:

### 31.1 SWPPP

Otak will prepare a construction Stormwater Pollution Prevention Plan (SWPPP) per Volume II of the Department of Ecology (DOE) Stormwater Management Manual and using Department of Ecology templates. This will include the 12 elements of a SWPPP with a narrative. The TESC plan sheet(s) from the construction documents will be part of the SWPPP. Otak will file the SWPPP and the Notice of Intent (NOI) application form and pay the associated permit fee to the Department of Ecology.

### 31.2 Construction Submittals

Otak will review construction submittals for document compliance and assist City staff with clarifications. This includes shop drawings and calculation review from supplier of precast culverts and wingwalls; rebar shop drawings and concrete mix designs; manholes and flow control vault. With special submittal reviews of log anchors, drain system under shotcrete and shear gate in the flow control vault.

# 31.3 RFIs and Change Orders

Otak will review/respond to submitted contractor requests for information (RFIs). When requested by the City, Otak will prepare construction change orders. The actual number of construction RFIs and/or change orders is unknown and budget for this activity is based on an arbitrary indicated level of effort (shown in the fee schedule) for the anticipated staff involved.

# 31.4 Construction Meetings

When requested by the City, Otak will attend meetings during construction, including preconstruction conference and final project walk-through. The City shall be responsible for providing and scheduling meeting facilities and leading the meetings. Budget for this task is based on Otak staff attending a maximum of ten (10) two-hour meetings.

### 31.5 Field Observation

Otak will perform observations at key stages of production, construction and installation related to wing walls, precast large culverts, wetland/stream channels, and mitigation area plantings.

Field observation relative to the precast culverts and wing walls and shotcrete slope protection will occur to observe/assess the following key stages in completion:

- Culvert and wingwall fabrication and rebar placement inspection.
- Prior to and during the placement of precast culvert and wing wall footings to ensure location and connection details are per the plans.
- Prior to and during the application of the shotcrete slope protection to examine surface
  preparation, reinforcement, soil anchor installation, drainage features installation, and to ensure
  the shotcrete is applied to the limits shown in the plans.

Field observation visits relative to the wetland and stream channels will occur to observe/assess the following key stages in completion:

- Fish removal and documentation by certified fish biologist. Up to 6 field visits; 1-time visit for the entire length of the channel and five follow up visits at 1/4 of the length of the channel.
- Assess the staked layout of relocated stream channel and wetland floodplain alignments to verify and field adapt any minor adjustments for conformance to actual site conditions.

- Observe the rough graded site to verify grades and field direct grading refinements prior to installation of stream-bed gravel, drainage structures, and log-jam features.
- Examine the pre-installation of logs to verify type/size and field select logs in assembling structures.
- Inspect placement, anchoring, and assembly of channel/bank-protection log features and associated field-directed fine grading.
- Assess completed relocated stream and culvert crossing structure prior to and during existing stream channel diversion.

Field observation, when requested by the City, relative to planting area will occur to observe/assess the following key stages in completion:

- Observe complete grading and assess incorporation of soil amendments before plant installation.
- Observe the species and conditions of the plants, pre-installation layout of the various plant communities, plant installation, and mulch application.
- Observe completed planting areas and prepare punch-list items relative to completed mitigation site plantings.
- Assess the post-construction condition of the existing buffers outside of the planting areas and, if required, prepare plant schedule punch-list for replanting of any damaged buffer areas.
- Inspect plant establishment during the 12 months following initial acceptance, per specifications, to observe dead, dying or diseased plants; inadequate mulch coverage and depth; weed control; and soil moisture/temporary irrigation coverage.
- Inspect excavation near trees to remain for root pruning determination.

# 31.6 Construction Survey Assistance

When requested by the City, Otak will assist with construction surveying relative to location/elevation checks or other requested surveying needs. Budget for this task is based on three (3) three-hour site visits by a two-person crew with support of an office survey technician.

# 31.7 Prepare As-Constructed Drawings

Otak will prepare and submit As-constructed drawings of the completed project. The City shall be responsible for contractor coordination and monitoring/documenting all significant field changes made during construction. City shall provide Otak with one full-size set of construction plans with "red-line mark-ups" of field changes for Otak's use in preparing as-constructed drawings, in accordance with the City's Record Drawing Requirements (version 10-2005).

# Assumptions

- Construction services scope based on providing services for a consecutive nine (9) month construction period.
- The City shall provide and schedule facilities for weekly construction meetings and be responsible for leading all meetings.

# Scope of Services Continued

- The actual number of construction RFIs and/or change orders is unknown and budget for this activity is based on an estimated 20 RFI's
- City shall be responsible for construction quantity verification and contractor pay estimate review and processing.
- City shall provide Otak with one full-size set of construction plans with "red-line mark-ups" of field changes for Otak's use in preparing record drawings
- Otak's scope of construction services do not included on-going annual monitoring/reporting, beyond the construction-specified 12-month plant establishment period.
- This scope assumes review of up to 60 submittals
- This scope assumes preparation of up to 5 change orders.

# Exhibit B-3

# **Consultant Fee Determination**

Project Name: Valley Estates Bank Stabilization & Culvert Replacement Project Number: 31292 Addendum #3

Consultant: Otak Inc.

# **NEGOTIATED HOURLY RATES**

Classification	Houro	Poto		Cost
	Hours	Rate	Φ	Cost
Sr PIC/Sr PM	41		\$	
Civil Engineer VIII	10	\$134	\$	1,340
Civil Engineer V	116	\$119	\$	13,804
Civil Engineer III (Structural)	48	\$100	\$	4,800
Civil Engineer III	214	\$100	\$	21,400
Engineering Techician IV	84	\$85	\$	7,140
Scientist IV	68	\$121	\$	8,228
Landscape Arch V	16	\$114	\$	1,824
PLS Sr Manager	11	\$128	\$	1,408
Sr PLS	 15	\$100	\$	1,500
Survey Technician	 15	\$84	\$	1,260
Sr. Field Survey Tech II	32	\$65	\$	2,080
Project Admin Asst	24	\$71	\$	1,704
Contract Administrator	2	\$83	\$	166
			\$	-
	696		\$	-
		Subtotal:	\$	74,772

# **REIMBURSABLES**

Mileage		\$ 1,500
Reproduction (copies, plots, etc.)		\$ -
Miscellanous		\$ 1,500
Utility Locates/Traffic Control		
	Subtotal:	\$3,000

**TOTAL** \$77,772

CONTINGENCY 10,000

GRAND TOTAL \$87,772