



<b>Supplemental Agreement Number</b> <u>Two (2)</u>		Organization and Address Harper Houf Peterson Righellis Inc. (HHPR) 1220 Main Street, Ste.150, Vancouver, WA 98660	
Original Agreement Number LA 9458		Phone: (360) 750-1131	
Project Number BMH-7040 (006)	Execution Date October 16, 2018	Completion Date December 31, 2020	
Project Title NE 3rd Ave Bridge Seismic Retrofit (Camas Proj # T1010)	New Maximum Amount Payable \$ 618,745		
Description of Work Project Management, Engineering, Surveying, and Geotechnical Services (Refer to Exhibit "A" for scope of services)			

The Local Agency of City of Camas  
desires to supplement the agreement entered in to with Harper Houf Peterson Righellis Inc.  
and executed on October 16, 2018 and identified as Agreement No. LA 9458  
All provisions in the basic agreement remain in effect except as expressly modified by this supplement.  
The changes to the agreement are described as follows:

**I**

Section 1, SCOPE OF WORK, is hereby changed to read:  
REFER to Exhibit "A" Scope of Services

**II**

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days for completion of the work to read: December 31, 2020

**III**

Section V, PAYMENT, shall be amended as follows:

REFER to Exhibit "B" Fee Estimate Supplement #2  
Supplement #2 Fee = \$6,100 (Pavement Cores) + \$27,100 (Management, Engineering, Surveying) = \$ 33,200 (Total #2 Estimate)

New Maximum NTE Fee Limit: \$570,140 (Original) + \$15,405 (Supplement #1) + \$33,200 (Supplement #2) = \$618,745

as set forth in the attached Exhibit A, and by this reference made a part of this supplement.

If you concur with this supplement and agree to the changes as stated above, please sign in the Appropriate spaces below and return to this office for final action.

By: Charles L. Harper - Principal (HHPR)

By: \_\_\_\_\_

 02/05/2020  
Consultant Signature

\_\_\_\_\_  
Approving Authority Signature

\_\_\_\_\_  
Date

## **EXHIBIT “A” – SCOPE OF SERVICES (Supplemental Agreement No. 2)**

### **NE 3<sup>rd</sup> Avenue Bridge Retrofit – Management, Engineering, Geotechnical and Surveying Services**

#### **SCOPE OF SERVICES –**

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##### **Project Description**

The existing NE 3<sup>rd</sup> Avenue Bridge in Camas is a two span structure approximately 225 feet long, carrying four lanes of traffic over the Washougal River. The nearest cross streets are NE Shepherd Road in Washougal, and NE 2<sup>nd</sup> Avenue in Camas. The bridge is comprised of two side by side structures, the first being a 1947 steel girder bridge which was then widened in 1970 with a concrete girder bridge. The bridge provides a critical arterial link between the cities of Camas and Washougal, and has ADTs in the range of 10k. Camas has received Federal Funding through the WSDOT Local Bridge Program to design and construct seismic and other related improvements. The additional services associated with this supplemental agreement include the following.

**Task 1: Pavement Investigation Services (Fee \$ 6,100)** - AC coring of bridge decks (four each bridge span) and report memorandum.

**Task 2: Management, Engineering, and Surveying Services (Fee \$ 27,100)** – Additional project management, engineering and surveying services associated with the following.

- WSDOT coordination services including LAG Supplement, project estimates, budget increase justification, funding increase request, presentation to WSDOT staff, and obtaining additional funding approval.
- Water main modification investigation, design services, estimates, and preparation of plans and bid documents.
- Storm system addition to bridge collection system and bridge storm runoff treatment including design services, estimates, and preparation of plans and bid documents.
- Bridge deck paving restoration design services, estimates, and preparation of plans and bid documents.
- Additional services required to revise the lease documents, and coordinate the approval of the aquatic lease document with the Division of Natural Resources (DNR) including record of survey revisions.

## **SUPPLEMENTAL GEOTECHNICAL ENGINEERING SERVICES**

### **NE 3rd Avenue Bridge Asphalt Repair Camas, Washington**

#### **Scope of Work**

Hart Crowser will provide asphalt coring services to assist in determination of asphalt thickness over the existing bridge decks for the NE 3rd Avenue Bridge Seismic Retrofit project. Hart Crowser shall perform field investigations to identify the thickness and condition of existing asphalt on top of the concrete deck to support the construction planning for the 3rd Avenue Bridge Seismic Retrofit project. Work will be performed during the day with mobile traffic control operations. We will work with City of Camas (City) permitting staff to get the appropriate permits for the work. We propose the following scope.

- Apply for a street use permit with the City. Permitting will include a traffic control plan per City requirements.
- Subcontract a concrete coring contractor to collect up to four cores of the asphalt section from each bridge deck for a total of up to eight cores. Hart Crowser will provide a field representative on site to aid in setting up and coordinating the work of traffic control. We estimate that work will be completed in one 8-hour shift.
- Provide subcontracted mobile traffic control operations for the duration of the work.
- Hart Crowser's subcontractor will patch the core holes with cold patch asphalt to existing road grade.
- Hart Crowser will prepare an addendum to our geotechnical report dated October 14, 2019, which includes the thickness and location of the asphalt cores.

#### **Schedule**

Hart Crowser will start the planning the field investigation within 2 business days of notice-to-proceed (NTP) from HHPR. Based on current availability of our subcontractor, we anticipate field work will start approximately 1 to 3 weeks after we receive NTP and take approximately 1 day to complete. The addendum to the geotechnical report should be completed approximately 1 to 2 weeks after completion of the field explorations; however, we will share findings with HHPR immediately after field work is completed.



## Project Fee

We will complete the work (not including supplemental tasks) on a time and expenses basis in accordance with the attached fee estimate, with a not-to-exceed amount of **\$6,100**, for 1 day's work.

Additional work beyond that described above will be completed for an additional cost to be negotiated.

## Assumptions

The above scope of work and attached fee estimate are based on the following assumptions.

- The City will negotiate, acquire, and provide all necessary site access and any necessary right-of-entry permits to the work area.
- Field exploration work within the right-of-way (ROW), including within the roadway, will occur during normal working hours from 7am to 6pm.
- Hart Crowser will acquire the necessary City ROW permits, City will provide the permits for no cost to the consultant.

Attachment:

Summary of Hours and Expenses

\\\\Pdxsrv\\data\\Notebooks\\154000005\_NE\_3rd\_Ave\_Bridge\_Seismic\_Retrofit\\Deliverables\\Scope-Fee-AC\_Coring\_12-11-19\\NE 3rd Ave Bridge\_AC Core\_Scope-Fee Estimate.docx



ERS ◆ PLANNERS  
RCHITECTS ◆ SURVEYORS

# NE 3rd Avenue Bridge Seismic Retrofit

**Professional Services Fee Estimate:**  
**Original + Supplements #1 & #2**  
**February 5, 2020**

Professional Services Fee Estimate: Original + Supplements #1 & #2 February 5, 2020			Harper Houf Peterson Righellis Inc.  (Project Management, Survey, Engineering, Permitting)																	Total  Per  Task	
Task and Description	Project Manager	Senior Bridge Engineer	Struct. Engineer	Struct. Designer	Project Engineer	Civil Engineer	CAD	Senior Scientist	Scientist	S.Mgr.	P.Surv.	S.Tech	Survey Crew Chief	Survey Crew	BIM Specialist	Cler.	Sub-Consultant or Reimbursement	Task			
Task 1: Project Management and Coordination																			\$32,750		
1.1 Project Management/Coordination (24 months @ approx. 0.5 hr/week)	50															12	\$500.00	\$10,892			
1.1 Review Meetings (30%, 60%, & 90% PSE)	12																\$100.00	\$2,406			
1.1 Agency Coordination Meetings (assume up to six)	18																\$150.00	\$3,610			
1.1 Design Team Coordination Meetings (assume up to ten)	20				10											5		\$5,703			
1.2 Project Schedule	16																	\$3,075			
1.3 PE Phase Authorization Packet (WSDOT)	16						2	1								1	\$20.00	\$3,487			
1.4 Public Outreach Assistance	8						16									4	\$200.00	\$3,577			
Task 2: Surveying Services																			\$23,638		
2.1 Record Research	1									2	24							\$3,495			
2.2 Right of Way Resolution	1									2	16	8	16	16				\$5,656			
2.3 Bridge Survey	1									4	6	24	40	40	40		\$100.00	\$14,487			
Task 3: Geotechnical Investigation (by Hart Crowser, Inc. – HC)																			\$50,917		
Task 4: Engineering Design and PSE																			\$323,261		
OBEC 4.1 Bridge Retrofit Analysis & Design																			\$96,591		
OBEC 4.1 Preliminary Report, Concept Plans, & Estimate (30%) Review & Coordination																			\$10,162		
OBEC 4.1 Bridge and Street Plans (60%, 90%, and Finals)																			\$91,785		
OBEC 4.1 Specifications and Bid Documents																			\$11,366		
OBEC 4.1 Construction Cost Estimate																			\$6,673		
OBEC 4.1 Expenses																			\$400		
4.2 Street Repair and Resurfacing Design	1				16	8												\$3,636			
4.2 Drainage Analysis and Report Memo	1				16	8												\$3,636			
4.3 Bridge Retrofit Design Report	2																	\$384			
4.3 Bridge Retrofit Concept Plans and Details																		\$0			
4.3 Street and Drainage Concept Plans	1				8	8	24										\$20.00	\$4,798			
4.3 Concept Cost Estimate	2				8	2												\$1,859			
4.4 Bridge Retrofit Plans and Details - 60%	1																	\$192			
4.4 Street and Drainage Plans and Details - 60%	2				16	32	56									1	\$50.00	\$12,440			
4.4 Bridge Retrofit Plans and Details - 90%	2																	\$384			
4.4 Street and Drainage Plans and Details - 90%	2				16	24	40									1	\$50.00	\$9,871			
4.4 Bridge Plans and Details - FINALS	1.195																	\$230			
4.4 Street and Drainage Plans and Details - FINALS	2				8	16	24									1	\$50.00	\$6,075			
4.5 Traffic Control and Management Analysis & Design (by Global Transportation Engineering – GT/Eng)																			\$40,058		
4.6 Specs / Bid Docs - Outline Special Provisions and Bid Proposal - 60%	1				8	4												\$1,914			
4.6 Specs / Bid Docs - 90% Bid Proposal, Special Provisions, City Boiler Plate Revised	2				16	8												\$3,828			
4.6 Specs / Bid Docs - Finalize Bid Documents	1				8	2												\$1,667			
4.7 Cost Estimates (60%, 90%, and FINAL)	2				16	4												\$3,333			
4.8 Bidding - Address Design Questions and Clarifications	1				4	1												\$929			
4.8 Bidding - Addendum (one)	1				8	4	32									2		\$5,202			
4.8 Bidding - Attend Pre-Bid Meeting	4				4												\$20.00	\$1,402			
4.9 NPDES - Construction Stormwater General Permit and NOI	1				8	2										1		\$1,732			
4.9 Prepare SWPPP	1				8	4	8										\$10.00	\$2,714			
Task 5: Environmental Permitting / Compliance Services																			\$85,983		
5.1 NEPA Compliance	1							38	94								\$20.00	\$11,664			
5.2 Endangered Species Act (ESA) Compliance	1						10	58	162							2	\$20.00	\$20,096			
5.3 Joint Aquatic Resources Permit Application (JARPA)	1						8	50	102								\$20.00	\$14,561			
5.4 Clean Water Act (CWA) Permits	1							30	14							2	\$20.00	\$5,195			
5.5 Hydraulic Project Approval (HPA)	1							20	12								\$20.00	\$3,633			
5.6 SEPA Compliance	1							30	66								\$20.00	\$8,682			
5.7 Critical Area Compliance	1							12	36								\$20.00	\$4,268			
5.8 Shoreline Master Program (SMP) Compliance	1							30	40								\$20.00	\$6,874			
5.9 Geotechnical Investigation Permits							6	32	90								\$20.00	\$11,010			
Task 6: Cultural Resources Permitting/Compliance Services (by Archaeological Investigations Northwest, Inc. – AINW)																			\$20,696		
Task 7: Right of Way Services (by Universal Field Services, Inc. – UFS)																			\$18,152		
Task 8: Right-of-way Plans and Documents																			\$14,749		
8.1 Legal Descriptions and Exhibits (up to three TCE's)					24	12	40			3	24	24					\$10.00	\$5,616			
8.2 R/W Plans (up to three TCE's)																	\$20.00	\$9,133			
Supplement No.1 - Geophysical Exploration and DNR Lease Services																			\$15,405		
Surveying and DNR Lease Documents	7.5									6.5	20.0	20.0	20.0	12.0	12.0	4.0	\$44.00	\$10,905			
Geophysical Exploration (HHPR)	1.5															0.5	\$29.00	\$350			
Geophysical Exploration (by Hart Crowser and Earth Dynamics)																			\$4,150		
Supplement No.2 - Engineering & Management and Pavement Coring Services																			\$33,200		
Engineering and Management	32				32	40	72				24	8				4	\$27.00	\$27,100			
Asphalt Pavement Coring (by Hart Crowser)																		\$6,100			
	\$192.20	\$199.08	\$135.77	\$82.02	\$153.35	\$123.76	\$98.69	\$129.31	\$69.55	\$159.43	\$124.31	\$89.36	\$81.16	\$71.43	\$114.07	\$65.14	\$1,580.00				
Total Hours - HHPR	223.2	0.0	0.0	0.0	234.0	179.0	338.0	301.0	616.0	17.5	114.0	84.0	76.0	68.0	52.0	40.5	\$1,580				

## SUB-CONSULTANTS

<b>Harper Hour Peterson Righellis Inc. (Managers / Survey / Permitting / Civil Engineering Services)</b>	<b>\$223,347</b>
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## SUB-CONSULTANTS

<b>OBEC Engineers (Bridge Engineering)</b>	<b>\$216,977</b>
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<b>Hart Crowser Inc. (Geotechnical Investigation Services)</b>	<b>\$50,911</b>
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<b>Global Transportation Engineering (Traffic and CAD Services)</b>	<b>\$40,058</b>
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Archaeological Investigations Northwest Inc. (Cultural Services)	\$20,696
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<b>Universal Field Services, Inc. (R/W Services)</b>	<b>\$18,152</b>
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<b>Supplement No.1 - Geophysical Exploration and DNR Lease Services</b>	<b>\$15,405</b>
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<b>Supplement No.2 - Engineering &amp; Management and Pavement Coring Services</b>	<b>\$33,200</b>
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<b>TOTAL CONSULTANT SERVICES ESTIMATE</b>	<b>\$618,745</b>
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154-000-005 3rd Street Bridge Seismic Retrofit														
Summary of Hours and Expenses														
Task Description	Sr. Principal	Principal	Sr. Associate	Associate	Sr. Project	Project	Sr. Staff	Staff	Drafter	Project Assistant		Professional Staff Fees Subtotal	Reimbursables / Expenses	Total
Billing Rates	\$222.64	\$222.64	\$222.64	\$182.96	\$158.12	\$137.46	\$120.02	\$95.65	\$110.36	\$82.74				
Permitting and Coordination				1.0		4.0						\$733		\$733
Field Exploration				1.0			10.0					\$1,383	\$156	\$1,539
Concrete coring subcontractor												\$0	\$1,250	\$1,250
Traffic control												\$0	\$1,300	\$1,300
Reporting		1.0		1.0		1.0			2.0	2.0		\$929		\$929
PM and Support				1.0						2.0		\$348		\$348
TOTAL	0.0	1.0	0.0	4.0	0.0	5.0	10.0	0.0	2.0	4.0	0.0	\$3,394	\$2,706	\$6,100