



**Washington State  
Department of Transportation**

|                                                                                                                                                          |                                           |                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|--|
| <b>Supplemental Agreement<br/>Number <u>2</u></b>                                                                                                        |                                           | Organization and Address<br>WSP - USA |  |
| Original Agreement Number                                                                                                                                |                                           | Phone:                                |  |
| Project Number                                                                                                                                           | Execution Date<br>10/25/2022              | Completion Date<br>06/30/2026         |  |
| Project Title<br>REYNOLDS AVENUE / HARRISON AVENUE CORRIDOR IMPROVEMENTS                                                                                 | New Maximum Amount Payable<br>\$4,211,962 |                                       |  |
| Description of Work<br>Change in Scope of Work required additional funding in the amount of \$1,500,000 for a new Maximum Amount Payable of \$4,211,962. |                                           |                                       |  |

The Local Agency of LEWIS COUNTY

desires to supplement the agreement entered in to with WSP USA

and executed on 10/25/2022 and identified as Agreement No. N/A

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:

The scope of work is revised to include additional services addressing the extension of service to 06/30/2025, additional survey and mapping, environmental, roadway design, geotechnical, traffic signal/queuing, right-of-way plan development, and other work as necessary.

**II**

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days for completion of the work to read: Extension 10/25/2022 to 06/30/2025

**III**

Section V, PAYMENT, shall be amended as follows:

Increased from \$2,711,962 to \$4,211,962

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: Alex Shannon, SVP

By: Geoff Soderquist, County Engineer

Consultant Signature

Approving Authority Signature

Date

| EXHIBIT "A"           |                    |                |                |                |
|-----------------------|--------------------|----------------|----------------|----------------|
| SUMMARY OF PAYMENTS   |                    |                |                |                |
|                       | BASIC<br>AGREEMENT | SUPPLEMENT # 1 | SUPPLEMENT # 2 | TOTAL          |
| TOTAL FEE AMOUNT      | \$3,717,149.00     |                |                | \$3,717,149.00 |
| LESS WSDOT AMENDMENT* | \$1,005,187.00     |                |                | \$2,711,962.00 |
| PROJECT TOTAL**       | \$2,711,962.00     | \$0.00         | \$1,500,000.00 | \$4,211,962.00 |

\* GCB 3810 - Original WSDOT Planning Project Agreement Executed 02/01/2023 in the amount of  
\$3,717,149

GCB 3810 - Amendment 1 - 08/01/2023 - Project Amount limited to \$1,005,187

\*\* GCC 1017 - WSDOT Planning Project - Original Planning Project 3810 Reauthorized as Planning Project  
GCC 1017 on 08/22/2024 in the amount of \$2,711,962

GCC 1017 - Was amended (Amendment 1) - on 04/16/2025 in the amount of \$1,500,000  
for a new total GCC 1017 project amount of \$4,211,962

# REYNOLDS AVENUE/HARRISON AVENUE CORRIDOR IMPROVEMENTS

## SCOPE OF SERVICES SUPPLEMENT 2

### INTRODUCTION

The original Reynolds Avenue/Harrison Avenue Corridor Improvements agreement between Lewis County and the CONSULTANT was fully executed October 25, 2022. The project was placed on HOLD by the County between June 1, 2023 and July 24, 2023, between December 1, 2023 to April 15, 2024 and between July 22, 2024 and August 23, 2024. The County has requested the CONSULTANT add the following additional scope of work to the project. This supplement serves to document the detail of the Statement of Work (SOW) changes.

### Project Description

The project description from the Original Scope of Services is amended to add the following items of work;

1. Improvements to the following Puget Sound and Pacific Railroad crossings:
  - Reynolds Avenue (DOT# 092554F) – RR MP 2.14
  - W Reynolds Avenue @ Lum Rd (DOT# 808544J) – RR MP 2.60
  - Harrison Avenue (DOT# 808548L) – RR MP 3.20
2. Reconfiguring the north leg of the Harrison Avenue / Sandra Avenue intersection to include a new roundabout to accommodate the addition of the Gallagher Road extension along the west side of Harrison Avenue and conversion of the south leg of the Harrison Avenue / Sandra Avenue intersection into a right-in, right-out feature.

### Work Breakdown Structure

The work breakdown structure as submitted in the original Agreement is unchanged.

### Design Standards and References

The following standards are added:

U.S. Department of Transportation Federal Highway Administration, *Manual on Uniform Traffic Control Devices (MUTCD)*  
American Railway Engineering and Maintenance-of-Way Association, *2023 Manual for Railway Engineering*  
Union Pacific Railroad, *Public Projects Manual*

### General Project Assumptions

The general project assumptions of the original Agreement are unchanged.

# PROJECT TASKS

## 1. Project Management and Administration

### 1.1. General Project Administration

#### 1.1.1. General Project Administration

##### 1.1.1.2. Task Assumptions

- Two hours per week for 20 weeks for project manager and one hour per week for 20 weeks for project accounting.

#### 1.1.2. Meetings with Lewis County and Project Partners

##### 1.1.2.2. Task Assumptions

- Two meetings per month, 1-hour duration for 20 weeks, to include up to two CONSULTANT team members with COUNTY and CITY staff.

#### 1.1.3. Consultant Team Meeting and Coordination

##### 1.1.3.1. Task Description

The CONSULTANT will facilitate weekly internal project team coordination meetings for the purpose of information sharing, interdisciplinary coordination, and reporting progress.

##### 1.1.3.2. Task Assumptions

- Meetings will be one hour in duration and attended by an average of 12 CONSULTANT team members. Meeting participants will include Project Manager, Deputy Project Manager, Roadway Lead, Stormwater Lead, Utility Leads (Water, Sewer, Power/Comms), Environmental Lead as a standing group and Fish Passage Lead, Structures Lead, Railroad Lead, Right-of-Way Lead, Geotechnical Lead, Survey Lead, Public Involvement Lead, and Traffic Lead on an as-needed basis.
- The CONSULTANT team meetings will be conducted virtually through Microsoft Teams.
- An additional 16 weeks of meetings are required for this supplement.

##### 1.1.3.3. Task Deliverables

- The CONSULTANT will prepare meeting notes and summaries and are available to the COUNTY upon request.

### 1.2. Progress Schedule and Updates

#### 1.2.1. Task Assumptions

- The schedule will be updated monthly for a period of 5 months.
- CONSULTANT will prepare a restart schedule as part of the Supplement 2 Scope of Work

#### 1.2.2. Task Deliverables

- Restart Schedule

### 1.3. Progress Reporting and Invoicing

#### 1.3.2. Task Assumptions

- Monthly invoices and progress reports are anticipated for a period of 5 months.
- Monthly invoices and progress reports will be submitted in PDF format.

#### 1.3.3.Task Deliverables

- Monthly invoices (Additional 5 invoices)
- Monthly progress reports (Additional 5 invoices)

### 1.5. Project Kickoff Meeting

#### 1.5.2.Task Assumptions

- CONSULTANT shall facilitate a second kickoff meeting with COUNTY's project team to remobilize after project pause. Meeting shall be up to two hours and held at the COUNTY's Chehalis office or another mutually agreed upon location.
- CONSULTANT shall coordinate remobilization of team, including:
  - 1.1.1..1. Re-issuance of subcontract extensions and notices to proceed to subconsultants
  - 1.1.1..2. Re-opening project documentation prior to project pause
  - 1.1.1..3. Remobilization of task leaders and task working groups
  - 1.1.1..4. Planning efforts to start up work after project pause

#### 1.5.3. Task Deliverables

- Second Project kickoff meeting agenda in pdf format
- Second Project kickoff meeting summary in pdf format

## 4. Professional Land Surveying and Mapping Services

This section remains unchanged except for the following:

The CONSULTANT will provide supplemental survey for utilities not provided by the COUNTY in Task 3 Data Collection.

### General Assumptions for Land Surveying and Mapping Services

- Right of Entry (ROE) will be obtained as needed, under Task 8.6.2. Surveying outside the right-of-way (ROW) will require a ROE from the property owner.

### 4.6. Legal Descriptions and Exhibits

#### 4.6.1 Task Description

The CONSULTANT shall develop legal descriptions and exhibits in support of right-of-way acquisition as described in Task 14, and review of the legal descriptions and right-of-way exhibits and easements generated for the project.

#### 4.6.2 Task Assumptions

- 50 right-of-way exhibits will be required (20 acquisitions, 97 slope easements)
- 50 legal descriptions will be required.
- 10 Temporary Construction Easements,
- Drainage Easements, or any other easements are not included.
- Driveway permits do not require legal descriptions or exhibits.

#### 4.6.3 Task Deliverables

- 50 right-of-way exhibits

- 50 legal descriptions
- 10 Temporary Construction Easements

## 5. Environmental Services

This section is unchanged from the original Agreement except for the following:

### 5.8. NEPA Categorical Exclusion

#### 5.8.1 Task Description

Federal funding for construction is anticipated which triggers the need for project compliance with NEPA and coordination with WSDOT Highways and Local Programs (H&LP) staff. The CONSULTANT will complete a draft and final ECS form and a draft and final Environmental Justice memorandum. A NEPA package containing the ECS form, the EJ Memo, the No Effect Letter, Cultural Resource Survey, Wetland and Stream Report, Phase I and II ESA report, and the Geotechnical Report will be compiled for Lewis County submittal to WSDOT H&LP for review and approval.

#### 5.8.2 Task Assumptions

- WSDOT H&LP agrees that a NEPA CE is the appropriate level of compliance.
- No changes to the listed Threatened and/or Endangered Species have occurred to necessitate a change from a No Effect Letter for ESA.
- The Environmental Justice Memo will be developed using guidance from the WSDOT LAG Appendix L of the CE Documentation Guidebook for identifying minority and low-income populations, exemptions and supporting documentation.
- Lewis County will sign and submit the NEPA CE package to WSDOT.
- One round of County review and revision and one round of WSDOT H&LP review and revision is accounted for in the cost estimate.

#### 5.8.3 Task Deliverables

- Draft and Final NEPA CE Checklist and EJ Memorandum

### 5.9. Supplemental Wetland Fieldwork and Report Update

#### 5.9.1 Task Description

Wetland delineation fieldwork conducted in 2023 did not cover the Skookumchuck Commerce Center (SCC) area, as it was under a separate private site development application at that time. The application has since been withdrawn and an assessment of potential wetland/streams along the frontage of Reynolds is now required. The SCC area previously was accounted for in the initial scope and budget; however, that effort was applied to the fieldwork and reporting effort for potential off-site stormwater detention and outfall location on property owned by the City of Centralia, west of Harrison.

To capture the SCC area in our documentation a one-day site visit by two CONSULTANT staff will be conducted to delineate potential wetland/streams from the existing Reynolds Road right-of-way, south about 100 feet along the former SCC properties' frontage.

Update the project Wetland and Stream Delineation Report to address the added study area, any wetland areas found, and updated graphics.

#### 5.9.2 Task Assumptions

- Right-of-entry, if necessary, is the responsibility of the COUNTY.
- Any wetlands/streams found can be delineated during this scoped day of fieldwork.
- Wetland boundaries will be documented with handheld GPS points for conversion to CADD and added to the basemap.

#### 5.9.3 Task Deliverables

- Draft and Final Wetland Delineation Amended Report

### **5.10. Supplemental Cultural Resource Services**

#### 5.10.1 Task Description

Additional scope to cover cultural resource fieldwork and documentation is necessary to capture the cultural resources data needed due to direct impact changes to the project footprint including the proposed roundabout at the Harrison/Sandra intersection, the proposed stormwater pond locations, the property impacted by the Coffee Creek realignment, and the area along Reynolds Road adjacent to the planned Skookumchuck Commerce Center.

The cultural resources survey of that frontage will be completed using standard, industry-accepted methods appropriate to the project area and landform. All survey activities will comply with the DAHP Survey and Inventory Standards. Any identified artifacts will be documented, photographed in the field, and returned to the survey location unless negotiated under another agreement. Any newly identified cultural resources within the project area must be fully documented on a Washington State Archaeological Site, Isolate, or Historic Property Inventory Form and include a written description of the site and its setting, sketch maps, USGS quadrant maps, and photographs. Any structures older than 50 years must be recorded on historic property inventory forms.

Up to 50 shovel probes will be required for the additional project direct impact areas. Up to 15 additional historic structures have been provisionally identified in the amended project APE, requiring a survey and preparation of historic property inventory forms. No archaeological site form preparation is included in this revision.

The draft cultural resource assessment report of the findings, including relevant supporting evidence for the conclusions and adhering to the DAHP Survey and Inventory Standards will be amended to include the 60% roadway design, updated zoning changes and additional study area.

#### 5.10.2 Task Assumptions

- No additional cultural resources will be encountered. A separate cost estimate or supplement will be prepared for the client if the field survey results in identifying an archaeological site, isolate, or historic property.
- Each HPI evaluation and assessment will be submitted for official determination of eligibility.

- Agency review and comment is not anticipated. If agency comments or modifications to the draft HPI forms are required, they will be covered under a future supplement.

#### 5.10.3 Task Deliverables

- A field survey results report.

### 5.11. Environmental Site Assessment (ESA)

#### 5.11.1. Task Description

##### Phase II ESA

A Hazardous Material Assessment (HMA) was completed by the CONSULTANT to identify potential sources of contamination that could affect worker safety, property value, and Project costs. The HMA was conducted in general accordance with Chapter 447 of the Washington State Department of Transportation (WSDOT) 2014 Environmental Procedures Manual (EPM), and included review of historical aerial photographs, United States Geological Survey (USGS) topographic maps, database records provided by Environmental Data Resources, Inc. (EDR) and Washington State Department of Ecology (Ecology), and geologic and groundwater conditions through review of USGS geologic mapping and Ecology well logs. Each known or suspected hazardous materials site identified during the survey was assessed and assigned a level of risk relative to potential impacts. The risk analysis is described in the HMA (WSP USA, 2023). Several Recognized Environmental Conditions (RECs) were identified during the HMA process and were assigned a moderate risk to the Project. Summaries of the RECs are provided below.

#### **Lewis County (Formerly Pieces Family Trust) – Parcel Number 023619001004 – 1303 West Reynolds Avenue**

The Lewis County - Pieces Family Trust property is located at 1303 West Reynolds Avenue to the north of the Project Alignment. This property is being considered for use as a stormwater pond/storage site. According to the interview conducted with Mark Burch, Special Projects Manager for Lewis County (the property owner), the property is currently vacant and was previously a residence. Lewis County has owned the property since December 2016 and 800 tons of garbage was removed from the property in 2017. Groundwater was collected from an existing well located on the property in 2018 and was analyzed for nitrates, gasoline, diesel, oil, and volatile organic compounds (VOCs). Results were either not detected or below minimum reporting limits. The well report record for the well sampled was not located in Ecology's online database and the location of this well is unknown. Ecology currently has the Pieces Family Trust property listed as 'Awaiting Cleanup' under Facility Site ID 16394 and Cleanup Site ID 11405. No other documentation is available on Ecology's website. Additional soil and groundwater sampling is recommended to ensure that no soil or groundwater contamination will be encountered during activities associated with the Project Alignment.

#### **Sawyer Patton & Collin Schrock (Formerly Larry's Texaco – Historical Auto Station) – Parcel Number 023953000000 – 2200 Harrison Avenue**

The former Larry's Texaco property is located at 2200 Harrison Avenue to the east of the Project Alignment. The database report provided by EDR lists the property as a historical auto station from 1969 to 1979. Contamination is typically associated with these sites; however, other historical environmental information is not known about the property. The property is currently residential with a single-family residence. It is assumed that the current right of way (ROW) will

be acquired as part of the Project Alignment and additional soil testing recommended to ensure contamination is not present during Project activities.

**C & N Properties LLC (Formerly - Sam & Leo's Richfield – Historical Auto Station) – Parcel Number 009729000000 – 1803 Harrison Avenue**

The former Sam & Leo's Richfield property is located at 1803 Harrison Avenue to the west of the Project Alignment. The database report provided by EDR lists the property as a historical auto station from 1969 to 1970 and contamination is typically associated with these sites. The property is currently residential with a single-family residence. Other historical environmental information is not known about the property. It is assumed that the current ROW will be acquired as part of the Project Alignment and additional soil testing recommended to ensure contamination is not present during Project activities.

**Keepers Storage – (Formerly Parkway Enco – Historical Auto Station) – Parcel Number 023974000000 – 2413 and 2415 Harrison Avenue**

The former Parkway Enco property is located at 2413 and 2415 Harrison Avenue to the west of the Project Alignment. The database report provided by EDR lists the property as a historical auto station from 1969 to 1972 and contamination is typically associated with these sites. The property is currently used as a storage facility (Keepers Storage) and is zoned as commercial retail. Other historical environmental information is not known about the property. It is assumed that the current ROW will be acquired as part of the Project Alignment and additional soil testing recommended to ensure contamination is not present during Project activities.

**Hull Dan Distributing Inc – Historical Auto Station – Parcel Number 003449001092 – 204 West Reynolds Avenue**

The Hull Dan Distributing Inc. property is located at 204 West Reynolds Avenue to the south of the Project Alignment. The property is currently occupied by Wilcox and Flegel Oil Company and operates as a cardlock, and bulk petroleum storage and transportation facility. The database report provided by EDR has the property listed as a historical auto station starting in 1985. Other historical environmental information is not known about the property. It is assumed that the current ROW will be acquired as part of the Project Alignment and additional soil testing recommended to ensure contamination is not present during Project activities.

**Vondean K Thompson (Formerly Sam's Arco – Historical Auto Station) – Parcel Number 023596001000 – 1715 Harrison Avenue**

The former Sam's Arco property is located at 1715 Harrison Avenue to the west of the Project Alignment. The database report provided by EDR lists the property as a historical auto station from 1971 to 1977 and contamination is typically associated with these sites. The property is currently used as an open storage area. Other historical environmental information is not known about the property. It is assumed that a portion of the current property will be acquired as part of the ROW acquisition process to establish the project alignment and additional soil testing recommended to ensure contamination is not present during Project activities.

The purpose of the work is to gather the necessary information to determine if contamination is present in Project Alignment areas where RECs were identified. The work will consist of the

following tasks: task management, completion of limited site investigations to evaluate current soil and groundwater conditions, and preparations of a Phase II ESA Report.

#### 5.11.1.1. Task Management

CONSULTANT will maintain regular communication with the COUNTY on the field investigation, document preparation, and status updates, including matters requiring action by the COUNTY such as submitting a Traffic Control Plan to the COUNTY/City for approval. This task will also include communication with the COUNTY to finalize the field investigation and preparation of figures to facilitate that communication.

#### 5.11.1.2. Field Investigation

##### 5.11.1.2.1. Health and Safety Plan

CONSULTANT will prepare a revised Site-Specific Health and Safety Plan (HASP) for the project to cover anticipated activities, in accordance with Washington Division of Occupational Safety and Health (DOSH) regulations, prior to visiting the Site. A tailgate safety meeting will be conducted at the start of work, when a new person joins the work group, when activities change from those planned, and at the beginning of each workday and documented on a Tailgate Meeting Form.

##### 5.11.1.2.2. Field Preparation and Utility Clearance

CONSULTANT personnel will visit the work area at least 72 hours prior to beginning ground disturbing activities to field mark the proposed boring locations for a public utility locate. During this site visit, a private utility locating subcontractor will also mobilize to the work area to identify and mark utilities near each of the proposed drilling locations.

After the proposed boring locations have been field-marked, Washington's one-call system will be contacted at least 72 hours in advance of the ground disturbing activities to facilitate utility location within the proposed work area. Upon arrival at the work area, the CONSULTANT will check utility markings against a list of companies notified by the one-call system to confirm that the appropriate utilities have been identified and marked. If certain utilities have not been marked, work may have to be postponed until the locations of all underground utilities can be reasonably ascertained. CONSULTANT may also re-mobilize the private utility locating subcontractor to the work area to re-check and clear utilities near proposed drilling locations, if needed. The final boring locations may need to be adjusted to allow a safe working distance from subsurface and/or overhead utilities.

##### 5.11.1.2.3. Soil Borings

This task proposes to advance up to 23 soil borings using a direct-push drilling method for collection of soil and groundwater within the Project Alignment. The direct-push sampling technique involves advancing a decontaminated, approximately 2-inch diameter hollow rod using a truck-mounted percussion hammer. Soil samples are collected continuously, soil conditions permitting, within disposable plastic sleeves.

Final drilling locations will be based on the design of the corridor improvements and property easements. Field activities for each parcel where RECs were identified are described below.

**Lewis County (Formerly Pieces Family Trust) – Parcel Number 023619001004 – 1303 West Reynolds Avenue**

Eight soil borings are proposed for the Pieces Family Trust property. Three soil borings will be advanced to 5 feet below ground surface (bgs) within the ROW along 1303 West Reynolds Avenue to assess if contamination is present in soil. This soil boring depth assumes deeper excavations for utilities will not be required in the ROW near 1303 West Reynolds Avenue since the sanitary sewer installation is proposed for the eastbound lane of Reynolds Avenue. It is also assumed groundwater will not be encountered in this area during the Project.

In addition, the property at 1303 West Reynolds Avenue may also be utilized for a stormwater pond/storage site. Five soil borings completed to 10 feet bgs are proposed within the parcel. Additional investigation is required on the parcel to determine if contamination is present in soil and groundwater near the proposed stormwater feature. If groundwater is encountered during drilling, temporary monitoring wells will be installed to collect groundwater.

**Sawyer Patton & Collin Schrock (Formerly Larry's Texaco – Historical Auto Station) – Parcel Number 023953000000 – 2200 Harrison Avenue**

Three soil borings are proposed for the former Larry's Texaco property. The soil borings will be advanced to 25 feet bgs within the ROW along 2200 Harrison Avenue to assess if contamination is present in soil and groundwater. This soil boring depth assumes deeper excavations for utilities will be required near the ROW along 2200 Harrison Avenue and groundwater will be encountered in this area during the Project.

**C & N Properties LLC (Formerly Sam & Leo's Richfield – Historical Auto Station) – Parcel Number 009729000000 – 1803 Harrison Avenue**

Three soil borings are proposed for the former Sam and Leo's Richfield property. The soil borings will be advanced to 25 feet bgs within the ROW along 1803 Harrison Avenue to assess if contamination is present in soil and groundwater. This soil boring depth assumes deeper excavations for utilities will be required near the ROW along 1803 Harrison Avenue and groundwater will be encountered in this area during the Project.

**Keepers Storage – (Formerly Parkway Enco – Historical Auto Station) – Parcel Number 023974000000 – 2413 and 2415 Harrison Avenue**

Four soil borings are proposed for the former Parkway Enco property. The soil borings will be advanced to 5 feet bgs within the ROW along 2413 and 2415 Harrison Avenue to assess if contamination is present in soil. This soil boring depth assumes deeper excavations for utilities will not be required in the ROW near 2413 and 2415 Harrison Avenue since the sanitary sewer installation is proposed for the northbound lane of

Harrison Avenue. It is also assumed groundwater will not be encountered in this area during the Project.

**Hull Dan Distributing Inc – Historical Auto Station – Parcel Number 003449001092 – 204 West Reynolds Avenue**

Three soil borings are proposed for the Hull Dan Distributing Inc. property. The soil borings will be advanced to 25 feet bgs within the ROW along 204 West Reynolds Avenue to assess if contamination is present in soil and groundwater. This soil boring depth assumes deeper excavations for utilities will be required near the ROW along 204 West Reynolds Avenue and groundwater will be encountered in this area during the Project.

**C & N Properties LLC (Formerly Sam’s Arco – Historical Auto Station) – Parcel Number 023596001000– 1715 Harrison Avenue**

Two soil borings are proposed for the former Sam’s Arco property. The soil borings will be advanced to 5 feet bgs within the ROW along 1715 Harrison Avenue to assess if contamination is present in soil. This soil boring depth assumes that deeper excavations for utilities will not be required in the ROW near 1715 Harrison Avenue and groundwater will not be encountered in this area during the Project.

CONSULTANT will contract with a licensed well driller in the State of Washington, to complete soil borings and temporary monitoring well installation. Soils encountered during drilling will be logged by a qualified scientist under the supervision of a Washington-state Licensed Geologist in accordance with the Unified Soil Classification System (USCS) and screened for the presence of VOCs using a calibrated photo-ionization detector (PID) and field evidence of impact (staining or visual sheen). Observations will be recorded on a Soil Boring Log Form.

Drill tooling and non-dedicated sampling equipment will be decontaminated between boring locations. After completion of sampling activities, all soil borings will be abandoned and backfilled in accordance with applicable Ecology requirements. Boring locations will be measured relative to nearby fixed structures/features and Global Positioning System (GPS) coordinates will be recorded for each boring.

**5.11.1.2.4. Soil Sampling and Analysis**

Up to three soil samples will be collected from soil cores and obtained from 0 to 1 feet bgs, 1 to 2 feet bgs, and where soil shows the greatest evidence of contamination (e.g., staining, elevated PID readings, or sheen when soil is hydrated) for potential laboratory analysis to verify soil concentrations. Due to the similar historical use of the properties with RECs, the analyses for soil sampling are similar between locations. Soil samples will be submitted to a certified lab to complete the following analyses:

- Resource Conservation and Recovery Act (RCRA) 8 metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by U.S. Environmental Protection Agency (EPA) Method 6010D and 7471B

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-Gx) by Northwest Method NWTPH-Gx
- TPH as diesel- and oil-range organics (TPH-Dx) by Northwest Method NWTPH-Dx
- VOCs by EPA Method 8260D collected using EnCore™ samplers and laboratory-supplied sample containers for EPA Method 5035

Soil samples collected at the Pieces Family Trust property will also be analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270E due to the unknown composition of garbage previously stored at the property.

#### 5.11.1.2.5. Grab Groundwater Sampling and Analysis

If groundwater sufficient to sample is encountered in a boring, the driller will install clean temporary polyvinyl chloride (PVC) casing with 3 to 5 feet of screen. New polyethylene tubing will be installed into the casing and connected to a peristaltic pump. A minimum of three boring volumes will be purged from each temporary casing prior to sampling using low-flow methods. In the event the well goes dry, CONSULTANT will wait for it to recharge (within a reasonable timeframe) and then collect a grab sample. Sampling activities will be recorded on a Groundwater Sampling Field Form. Following the completion of soil and/or groundwater sampling activities, the borings will be permanently backfilled with hydrated bentonite chips, and the ground surface will be patched to surrounding elevation with gravel.

CONSULTANT will submit groundwater samples from each temporary monitoring well to a certified laboratory for testing will include the following:

- RCRA 8 total metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by EPA Method 6010D and 7471B
- TPH-Gx by Northwest Method NWTPH-Gx
- TPH-Dx by Northwest Method NWTPH-Dx
- VOCs by EPA method 8260D

Groundwater samples collected at the Pieces Family Trust property will also be analyzed for SVOCs by EPA Method 8270E due to the unknown composition of garbage previously stored at the property.

#### 5.11.1.2.6. Investigation Derived Waste

All investigation derived waste (IDW): soil cuttings, decontamination fluids, and purge water generated during drilling and groundwater sampling activities will be containerized in 55-gallon steel drums, labeled, and staged at each parcel for characterization and disposal. Each parcel will generate separate soil and water IDW, up to 12 total drums. Drums will be stored onsite in an area that limits visibility by the general public and is approved by COUNTY. The CONSULTANT will coordinate characterization and disposal, as necessary. For cost estimating purposes, CONSULTANT has assumed all IDW will be determined to be nonhazardous waste, toxicity characteristic leaching procedure (TCLP) will not be needed, and the CONSULTANT's presence will not be necessary during waste pick-up activities.

#### 5.11.1.3. Data Analysis and Reporting

The CONSULTANT will prepare a draft and final Phase II ESA Report for submittal to COUNTY. The report will include at a minimum the following sections:

- Executive Summary
- Background
- Summary of Field Activities
- Summary of Results
- Waste Management
- Conclusions and Recommendations
- References
- Tables of data results (including comparison of soil and groundwater data to MTCA Method A cleanup levels)
- Figures
- Attachments: Groundwater Sampling Field Forms, Boring and Well Construction Logs, Waste Disposal Documents, Photographic Log, Laboratory Reports and Data Validation Summary
- The CONSULTANT will verify data quality upon delivery to assure that all information is present; that appropriate methods, proper containers, and field and laboratory quality control procedures were used; and that sample custody is intact. The CONSULTANT will perform an EPA Stage 2A validation of the project data. Data qualifiers and reason codes will be added to the report tables.

#### 5.11.2. Task Assumptions

- Field activities will be completed in four mobilizations. If additional days or deployments are needed due to circumstances beyond our control (including adverse weather conditions or other unforeseen conditions), we will seek authorization for additional labor and expenses.
- A Level D Health & Safety Program will be adhered to by all CONSULTANT personnel. If Level C or other conditions are determined necessary by personnel, additional charges will apply.
- IDW will be disposed of as non-hazardous waste; maximum twelve drums (one soil drum and one water drum per parcel).
- Excludes permit coordination with local city and state agencies as permits are not anticipated for this scope of work.
- The scope of work will be completed at a mutually agreed timeline contingent on availability of our drilling subcontractor. CONSULTANT will provide verbal results within three days after receiving analytical results, which is estimated to be about two weeks after completing Tasks 2D and 2E. A draft report will be submitted six weeks after completion of field activities.

#### 5.11.3. Task Deliverables

- Draft Phase II ESA Report
- Final Phase II ESA Report

## 6. Geotechnical

This section is unchanged from the original Agreement except for the following work:

### 6.1 Geotechnical Exploration and Analysis

#### 6.1.1. Task Description

Field and subsurface exploration will also include monitoring wells.

##### 6.1.1.7. Harrison Avenue (Phase 2)

Eight (8) additional borings are proposed along Harrison Avenue between approximately Goodrich Road and Ives Road. The borings will be advanced to approximate depths of 35 feet below ground surface (bgs) and will be used to identify potential locations for infiltration galleries. These borings will also be used to develop recommendations for luminaire foundations.

Two of the nine borings described above will be converted to monitoring wells. The monitoring wells will be used to obtain groundwater data and fill in the data gap between existing monitoring wells WSP-06-OW and WSP-08-C-OW. Groundwater data is needed to support selection of potential infiltration gallery locations. CONSULTANT will perform two follow up site visits to collect groundwater measurements.

##### 6.1.1.8 Reynolds Avenue (Phase 2)

Two (2) borings are proposed along Reynolds Avenue between approximately Blair Road and Pearl Street. The borings will be advanced to approximate depths of 35 feet below ground surface (bgs) and will be used to identify potential locations for infiltration galleries. These borings will also be used to develop recommendations for luminaire foundations.

WSP-27 will be converted to a monitoring well. The monitoring well will be used to obtain groundwater data and fill in the data gap to the east of monitoring well WSP-13-OW. Groundwater data is needed to support selection of potential infiltration gallery locations. WSP will perform two follow up site visits to collect groundwater measurements.

##### 6.1.1.9 Coffee Creek (Phase 2)

Two (2) additional borings are proposed at the Coffee Creek fish passage structure. The borings will be advanced to approximate depths of 150 feet bgs. The two borings drilled adjacent to Coffee Creek during the initial exploration program (WSP-13-OW and WSP-C-14) revealed that there are potentially liquefiable soil layers to approximately 85 feet bgs. Discussions with CONSULTANT's structural engineer indicated that the fish passage structure may need to be founded on deep foundations. As such, deeper borings are warranted to better characterize the subsurface conditions at the fish passage structure, fully understand the liquefaction potential with respect to the bridge design and provide the structural engineer with necessary geotechnical parameters to evaluate deep foundation options.

WSP-25 was drilled using the mud rotary drilling method. WSP-25 had a target depth of 150 feet bgs but was terminated at approximately 94 feet bgs after three days of effort. Due to

the difficult drilling conditions encountered (high gravel content), WSP proposes to skip drilling of WSP-26 (the other deep boring planned at the Coffee Creek fish passage structure) with the first drilling crew and their drilling set up and come back with a drilling crew and rig that can perform the sonic drilling method to drill WSP-26. CONSULTANT believes the sonic drilling method will allow for a thorough evaluation of the soil profile and the potential for liquefaction. Without this sonic boring, we would have to go with a very conservative design which would also come with a high level of risk.

WSP-26 was drilled using the sonic drilling method. WSP-26 had a target depth of 150-feet bgs, but was terminated at approximately 120-feet bgs upon encountering dense soils and sandstone after approximately 92 feet bgs.

#### 6.1.1.10 Infiltration and Other Laboratory Testing

CONSULTANT proposes field infiltration testing in five of the twelve proposed borings for infiltration feasibility. At this stage, we propose “stove-pipe”/percolation infiltration tests (e.g., falling head test) and/or the constant head well permeameter method (i.e., United States Bureau of Reclamation Test Method USBR 7300-89). These are favorable field infiltration test methods when advancing exploratory borings as they can be performed in the borehole during drilling. The purpose of these field infiltration tests is to obtain supplemental infiltration data to corroborate infiltration rates that will be estimated using the Department of Ecology’s grain-size method.

CONSULTANT proposes additional laboratory testing of select soil samples collected during our field exploration. Grain size analysis, moisture content, percent fines, Atterberg Limits, California Bearing Ratio (CBR) and Cation Exchange Capacity (EPA 9080 test method) will be performed on samples at certain depths and boring locations that will support the evaluation of infiltration feasibility and development of geotechnical recommendations for the fish passage structure. The exact number of tests will depend on soil conditions encountered during drilling. However, a preliminary estimate of the anticipated tests and quantity of each is as follows:

- 30 grain size analysis
- 30 moisture content
- 10 Atterberg Limits
- 3 California Bear Ratio
- 6 Cation Exchange Capacity

#### 6.1.2 Task Assumptions

- 10 of the 12 borings will be advanced within City right-of-way (ROW). WSP-18 and WSP-27 are proposed outside of City ROW. CONSULTANT will work with the COUNTY to obtain ROE permits prior to entering these properties. If ROE is not obtained, these borings will be drilled in the roadway within ROW.

All twelve (12) borings will be advanced in City right-of-way (ROW).

- CONSULTANT will complete the City of Centralia Right-of-Way Application Permit prior to the field exploration program.
- Traffic control will be required for all geotechnical exploration activities. CONSULTANT will be prepare and provide traffic control plans and execute the approved traffic control plan.
- Groundwater monitoring wells will be installed with a flush-mounted well monument with a unique DOE well-tag. The monitoring wells will be installed outside of the roadway and will not require traffic control for retrieval of data.
- Laboratory testing of soil samples will be limited to index tests as defined in this amendment.

## 7. Traffic

This section is unchanged from the original Agreement except for the following work:

### 7.5. Traffic Design

#### 7.5.1. Task Description

This task is modified from the original scope of services to add the design of pavement marking and channelization, corridor wide signing, additional lighting analysis and design for roundabout lighting, and design for school zone signing, including wired flashing school zone sign.

#### Pavement Marking / Channelization - 60%

The CONSULTANT will update Pavement Marking / Channelization plans to include addition of two new roundabout locations, Harrison Avenue / Ives Rd and Harrison Avenue / Sandra Avenue – Gallagher Rd intersections

#### Signing

The CONSULTANT will update the design to include replacement of school zone signing, flashing sign, wiring and electrical meter/power source location coordination.

#### Signing

The CONSULTANT will update signing plans and quantity takeoffs to include the signage for two new roundabout locations, Harrison Avenue / Ives Rd and Harrison Avenue / Sandra Avenue-Gallagher Rd intersections.

#### Signal Design

The CONSULTANT will design, calculate, and document signal system modifications at two (2) signalized intersections. Traffic signal design will include:

- Relocation of signal heads
- Minor signal wiring
- Design impacts to advance loop detection.

#### Illumination

The CONSULTANT will complete the lighting analysis and design for roundabout lighting at the two proposed roundabout locations.

- Update lighting software analysis for new roundabout at intersection of Sandra Avenue and Harrison Avenue. This includes updating plans for pole locations.

- Revise Final Illumination Memo to include added roundabout at Sandra Avenue and Harrison Avenue.

#### 7.5.2.Task Assumptions

- There will be no ITS or signal interconnect
- Rail preemption will not be provided.

#### 7.5.3.Task Deliverables

- 60%, 90% and Ad Ready Signing Plans and pre-60% Pavement Marking Design
- 60%, 90% and Ad Ready Signal Plans
- 60%, 90% and Ad Ready Illumination Plans
- Estimate and Specifications
- Draft and Final Revised Illumination memo with light level exhibits

### 7.6. Queue Cutter Signal at Reynolds Avenue and Harrison Avenue

#### 7.6.1.Task Description

Conduct a queuing analysis for the southbound approach of Harrison Avenue at the signalized intersection of W Reynolds Avenue and Harrison Avenue to determine whether existing and future queues extend over the adjacent railroad crossing. This analysis will assess safety concerns related to current traffic operations and evaluate the potential need for a queue cutter signal north of the railroad crossing or other signal modifications to improve traffic flow and safety.

#### Data Collection & Review

- Utilize traffic counts and projected traffic volumes from previous studies, assuming no new data collection.
- Review the existing signal timing and phasing, clearance intervals, and railroad preemption setup at the intersection.

#### Queuing Analysis

- Perform a capacity and queuing analysis using Synchro for the morning and afternoon peak hours in the existing (2025) and future (2045) conditions. If the available data was collected earlier than 2025, project it to 2025 using the growth factor from previous studies.
- Analyze queue lengths under existing and future traffic scenarios.
- Determine whether vehicle queues extend into the adjacent railroad crossing area.

#### Safety & Operational Assessment

- Identify potential operational and safety risks associated with extended queuing.
- Evaluate the need for queue management strategies, including queue cutter signals or other signal modifications, to enhance safety and traffic flow.

#### Clearance Interval Verification

- Review and verify existing signal clearance calculations based on updated traffic conditions.
- Confirm compliance with all applicable traffic engineering standards and guidelines.

#### Recommendations & Reporting

- Analyze and document findings on existing conditions and potential safety concerns.

- Recommend signal timing adjustments, queue management strategies, or additional infrastructure improvements as needed.
- Summarize results and recommendations in a technical memorandum for stakeholder review. The technical memorandum will include:
  - Summarizing analysis, findings, and recommendations.
  - Updated queue length estimates with supporting calculations.
  - Clearance interval verification summary.
  - Conceptual recommendations for queue management improvements, if applicable.

#### 7.6.3. Deliverables

- Draft Technical memorandum
- Final Technical Memorandum
- Comment / Response Log

## 8. Roadway

This task is unchanged from the original Agreement except for the following additions:

### 8.2. Roadway Design and Modeling

The CONSULTANT shall analyze changes to the centerline alignment, vertical profile, roadway cross section, ADA ramps, driveways, intersections, roundabout, and other elements to provide a shared use path on the east side of Harrison Ave. and the north side of Reynolds Ave.

The CONSULTANT shall design a roundabout at the intersection of Harrison Avenue and Sandra Avenue of a size and layout similar to the roundabout at Harrison Avenue and Ives Road. The CONSULTANT shall provide a preliminary 2-D layout for review and presentation to the COUNTY, model design vehicle movements, confirm sight distance, entry angles, and fastest path parameters, and generate a 3-D model, plan, profile, and detail sheets to be included in the 90 percent and Ad-ready PS&E submittals.

### 8.6. Right-of-Way Plan Development

#### 8.6.2. Right-of-Way Plans

##### 8.6.2.3. Task Deliverables

- Draft ROW plans (20 sheets in pdf format)
- Final ROW plans (20 sheets hard copies and in pdf format), sealed and signed by a professional engineer and/or a professional land surveyor licensed in the state of Washington, per WSDOT standards showing the existing and proposed ROW and both permanent and temporary easements required for project.
- Final ROW plan files in AutoCAD format.
- Right of way plan revisions after they are originally signed and approved by COUNTY and/or the CITY.

#### 8.6.3. Right-of-Way Exhibits

##### 8.6.3.1. Task Description

The CONSULTANT shall prepare exhibits that may aid in discussions between the property owner and the ROW acquisition agent. The CONSULTANT shall also provide dates to the COUNTY when ROW survey will occur in the field.

#### 8.6.3.2 Task Assumptions

- No additional ROEs will be required.
- COUNTY will notify property owner of dates for ROW survey.

#### 8.6.3.3 Task Deliverables

- 60%/ 90% and Ad ready ROW Plans

## 9. Storm Drainage

Task 9 is amended to add the following work elements:

### 9.1. Storm Drainage Design

#### 9.1.1.Task Description

This task is for the additional work required to update the storm drainage design for the proposed roundabout at the intersection of Sandra Avenue and Harrison Avenue. The following elements are included in this task:

- Modify drainage plans, specifications, and estimate submitted to the COUNTY for the 60% submittal for the required improvements associated with the roundabout design at this intersection.
- Update conveyance analysis.

#### 9.1.2.Task Assumptions

Utilize Stormshed3G to perform a real time hydraulic analysis of the proposed conveyance system using the Santa Barbara Unit Hydrograph. CONSULTANT will evaluate the 25-year, 24-hour storm event for conveyance and the 100-year, 24-hour event for surcharge. The results will be documented in the Final Stormwater Site plan. The Draft Stormwater Site plan was included with the 60% submittal.

- Stormwater is assumed to be treated by a cartridge system similar to the 60% submittal.
- Stormwater is assumed to be infiltrated under the proposed sidewalks in galleries.
- New outfall design is not included in this updated scope of services.
- The 2025 edition of the WSDOT standard specifications will be used for specification development.
- The design will utilize CITY standard details.

#### 9.1.3.Task Deliverables

- 90% and Ready Stormwater Plan and Profile sheets for this intersection modification. (pdf format)
- Updated 90% and Ad Ready Stormwater specific specifications to be included in the overall project specifications, as required. (pdf format)
- Updated 90% and Final OPCC for this intersection

### 9.2. Stormwater Analysis

#### 9.2.1. Task Description

CONSULTANT will complete additional evaluations for water quality and flow control facilities within the existing right of way for both Harrison and Reynolds. The proposed locations for flow control based on the original scope of services is not feasible due to soil and groundwater conditions. Additional geotechnical work will be required along the corridor in order for the CONSULTANT to have the data necessary to evaluate for conveyance, water quality, and treatment. The following elements are included in this task:

- The CONSULTANT will review the Geotechnical findings along the corridor.
- The CONSULTANT will evaluate locations for proposed water quality and flow control facilities. This includes preliminary sizing (up to 5 locations).
- Preparation of DRAFT and FINAL Technical memorandum documenting proposed locations for proposed facilities.
- Stormwater evaluation meeting with the COUNTY after delivery of the DRAFT Technical Memorandum.

#### 9.2.2. Task Assumptions

- CONSULTANT will utilize the Western Washington Hydraulic Model (WWHM) to preliminary size proposed facilities.
- No field site work is required for this task per this Supplement.
- No conveyance calculations will be performed as part of this Supplement.
- New outfall design is not included in this Supplement.
- All offsite flow (outside the right of way) will pass through the project site. See Task 9.3.
- The Chehalis River is flow control exempt.
- Stormwater conceptual technical memorandum shall be 5 pages maximum in length.
- No OPCC will be prepared for this evaluation/supplement.
- Virtual Meeting with the COUNTY will include three (CONSULTANTS) for one-hour duration. An additional one hour of Project Management time will be needed for Agenda and Meeting notes.
- An additional supplement will be required once the location or design is validated for the Project.

#### 9.2.3. Task Deliverables

- DRAFT and FINAL Technical Memorandum (pdf format)
- Meeting Agenda and Notes (pdf format)

### 9.3. Temporary Erosion and Sedimentation Control (TESC) Plans

#### 9.3.1. Task Description

CONSULTANT will prepare TESC plans and associated details within the project corridor.

- Prepare the 60%, 90% and Ad Ready TESC construction documents to be included in the project plan set as described in the original contractual agreement for Task 13.
- Complete the quantity takeoffs to assist in the preparation of the 60%, 90% and final OPCC as described in the original contractual agreement for Task 13.
- Prepare the related specifications for the 60%, 90% and Ad Ready PS&E submittal.
- Address City/County comments received 60%, 90% and final PS&E reviews.

#### 9.3.2. Task Assumptions

- No site visit is required for this task.

- An additional four hours of Project Management time has been added to this task for project setup and initiation.
- Up to eighteen (18) TESC plans and two (2) associated details sheets will be prepared for 60%, 90%, and Ad ready submittal.
- The Stormwater Pollution and Prevention Plan (SWPPP) has been included as part of Task 9.1 of the original Agreement.
- The latest edition of the WSDOT standard specifications will be used for specification development.
- The design will utilize CITY, COUNTY or Washington State Department of Ecology (DOE) standard details for the required BMPs.
- One set of consolidated comments, conflict resolved, will be provided for review of the TESC Plans, Details, OPCC, and specifications.

#### 9.3.3. Task Deliverables

- 60%, 90% and Ad Ready TESC sheets (pdf format)
- 60%, 90%, and Ad Ready TESC Detail sheets (pdf format)
- 60%, 90%, and Ad Ready TESC specific specifications to be included in the overall project specifications. (pdf format)
- 60%, 90% and Final OPCC (pdf format).

### 9.4. Tributary Drainage Design (Offsite)

#### 9.4.1. Task Description

CONSULTANT will identify upstream basins contributing runoff along the project length and quantify corresponding offsite flow rates outside of the existing right of way.

The following elements are included in this task:

- Basin delineation and characterization
- Basin hydrologic modeling
- Prepare DRAFT and FINAL Technical memorandum preparation and quality control review. The memorandum will summarize basin areas, land cover and soil types, and present estimates of peak flow rates and downstream flow capacities. Report figures will illustrate basin boundaries and flow paths. Hydrologic model output and downstream hydraulic calculations will be included as appendices.

#### 9.4.2. Task Assumptions

- Utilize available Lidar data to delineate offsite basins and flow paths
- No site visit is required for this task
- Utilize available GIS imagery to estimate approximate impervious percentages for rural and urban areas
- Utilize NRCS soil survey data to determine outwash and till land cover for pervious areas
- Complete hydrologic modeling using continuous simulation software (MGSFlood or WWHM) to generate peak stormwater flow rates for 2-year through 100-year recurrence intervals
- Downstream flow capacities will be estimated using currently known existing structures without tailwater effects; no additional survey will be performed, and no structure records will be gathered.

- No design plans will be prepared to address bypass flows. (i.e. culvert extensions, etc.)

#### 9.4.3. Task Deliverables

- Draft and Final Technical Memorandum (pdf format)

### 9.5. Stormwater Pump Station Design

#### 9.5.1.Task Description

CONSULTANT will prepare a Preliminary Engineering Technical Memorandum, including a conceptual layout, design, and planning level OPCC for the proposed stormwater pump station.

The pump station design will require the following infrastructure improvements:

- Wetwell with submersible pumps, control Panel, covered awning
- Site access
- Site lighting
- Associated fencing and landscaping improvements
- Yard piping and forcemain with outfall to the Skookumchuck River.

The following elements are included in this task:

#### Preliminary Design

- Prepare Draft and Final Preliminary Engineering Technical Memorandum documenting the pump selection, pump station layout, forcemain sizing and location, outfall location, and design criteria for the pump station.
- Prepare Preliminary Engineers OPCC.
- Conduct Preliminary Design Review meeting with the County/City.

#### 9.5.2.Task Assumptions

##### Preliminary Design Assumptions

A Preliminary design review meeting will be held virtually and will include two CONSULTANT staff. The meeting will be approximately two hours in length and require an additional one hour for meeting preparation and notes.

- No site visit is required for this task.
- The technical memorandum will be up to 10 pages maximum.
- The pump station will be located on COUNTY owned property.
- The pump station property will be configured so there are no pollution generating hard surfaces subject to stormwater runoff treatment. Soil conditions make on-site stormwater management practices (infiltration) infeasible.

- Topographic survey is available for this parcel. Additional survey to be conducted by others is needed for the proposed forcemain alignment to the Skookumchuck River.
- Coffee Creek is not flow control exempt.
- An easement will be required for the new forcemain alignment. CONSULTANT will evaluate up to four separate alignments and document in the Draft and Final Preliminary Engineering TM for selection by the COUNTY. The alignments will evaluate flow control facilities at multiple locations discharging to Coffee Creek as well as a direct discharge to the Skookumchuck River through the Commerce Meadows Property.
- The new forcemain will be approximately 2,000 linear feet.
- The 25-year, 24-hour storm event will be utilized as the design flow for pump selection. Similar to the DOE Orange Book, the number of pumps selected shall allow the station to provide the peak design flow with the largest pump out of order.
- Water Quality cartridge system will be designed as part of the stormwater pump station.
- The facility will be a duplex system with submersible pumps and a manual screening upstream.
- Size force main for an average velocity range of 3 to 5 feet per second with a maximum velocity of 8 feet per second.
- Existing groundwater is located 4-feet below ground surface (bgs) requiring design and buoyancy calculations.
- The Skookumchuck River is considered flow control exempt.
- A single forcemain will be designed and outfall to the Skookumchuck River.
- Property acquisition and permitting will be required for the new forcemain and outfall.
- A Class 4 Engineer's OPCC will be prepared per AACE 18R-97.

#### 9.5.3.Task Deliverables

- DRAFT and Final Preliminary Engineering Technical Memorandum (pdf format)

## 10. Utilities

This task is unchanged from the original Agreement aside from the following additions:

### 10.4 Railroad Design and Coordination

#### 10.4.1. Railroad Coordination

##### 10.4.1.1 Task Description

CONSULTANT will coordinate with Railroad Stakeholders including Puget Sound and Pacific Railroad (PSAP) and Washington Utilities and Transportation Commission (WUTC) to gain support and approvals for the at-grade railroad crossings at Harrison Street (DOT# 808548L), Lum Road (DOT # 808544J) and Reynolds Avenue (DOT# 092554F) in Centralia, Washington.

The following elements are included in this task:

- Conduct crossing diagnostic meetings with project stakeholders including PSAP, WUTC, the CITY and the COUNTY.
- Develop Petitions to the UTC for crossing modifications.
- Secure Right of Entry
- Coordinate with PSAP representative to manage delivery of submittals, obtain updates on progress, and verify all materials have been submitted/received.
- Coordinate with PSAP to draft a Construction and Maintenance agreement (CMA) for the crossing modifications.

#### 10.4.1.2 Task Assumptions

- Railroad stakeholders include PSAP, Benesch (PSAP designated GEC) WUTC, the CITY and the COUNTY.
- Only the following rail crossings will be impacted by the project:
  - Harrison Street (DOT# 808548L)
  - Lum Road (DOT # 808544J)
  - Reynolds Avenue (DOT# 092554F)
- Two other rail crossings on Reynolds will not be affected.
- Crossing exhibits will be prepared as part of Task 10.4.2.
- One diagnostic meeting will be conducted for all three crossings.
- The diagnostic meeting will be six hours in duration including travel time. The diagnostic meeting will include up to three CONSULTANT staff members.
- The scope does not include preparation for, testifying at, or supporting a crossing hearing or other legal matter to the crossing if the Rail Crossing Order be disputed by other individuals or organizations.
- Railroad flagging is not included in this scope of work.
- PSAP will provide a draft CMA following submittal of approved plans
- All application/permit fees are the responsibility of the COUNTY.
- Fees and administration associated with the Railroad Engineering Reimbursement Agreement (ERA) between PSAP and the County is the responsibility of the COUNTY.

#### 10.4.1.3 Task Deliverables

- Right-of-Entry Agreement
- Diagnostic Meeting Minutes
- Three (3) draft petitions to modify warning devices at the highway-railroad grade crossings on Harrison Avenue, Lum Rd and W. Reynolds Avenue.
- Draft CMA (by PSAP GEC Contractor)

#### 10.4.2. Railroad Signal Design

##### 10.4.2.1 Task Description

CONSULTANT will complete design of railroad at-grade crossing signal modifications at Harrison Avenue (DOT# 808548L), Lum Road (DOT # 808544J) and W. Reynolds Avenue (DOT# 092554F) in Centralia, Washington. The following elements are included in this task:

- Conduct a field investigation to validate existing survey and record drawings along the project corridor.

- In conjunction with Task 4, top of rail (TOR) survey will be collected for 500 feet on either side of each crossing.
- Prepare proposed crossing exhibits for each crossing identified.
- Prepare final crossing exhibits based on comments from railroad stakeholders.
- Preliminary signal layout and design
- Coordinate with Roadway design for milestone deliverables as described in Task 13
- Participate in Task 8.5 Constructability reviews, to include construction staging and scheduling

#### 10.4.2.2 Task Assumptions

- Crossing design will be in accordance with PSAP, FRA and MUTCD guidelines.
- COUNTY/PSAP to provide number of working days required at each location
- COUNTY/PSAP to provide construction timelines and staging to minimize operational disruptions
- A 1" track raise at Reynolds Ave is anticipated.
- Survey will be conducted in accordance with Task 4.
- Roadway design conducted in accordance with task 8.
- Existing electrical service is assumed to be sufficient for the proposed signal modifications. Coordination with utility providers for new or modified service is not included in this scope of work.
- Review of designs to be performed by G&W.
- Final Signal design to be performed by PSAP.
- Signal construction will be performed by PSAP.

#### 10.4.2.3 Task Deliverables

- Top-of-Rail survey for each crossing.
- Draft crossing modification exhibits for Harrison Street, Lum Road and Reynolds Road at-grade crossings.
- Final crossing modification exhibits for Harrison Street, Lum Road and Reynolds Road at-grade crossings.

### 10.4.3. Railroad ROW Support

#### 10.4.3.1 Task Description

CONSULTANT will review existing crossing easements and coordinate with G&W Real Estate Department to execute new easements for the modified crossings. The following elements are included in this task:

- Preliminary review of easement documents
- Coordination with G&W Real Estate Department to develop new easement documents for the modified crossings.

#### 10.4.3.2 Task Assumptions

- Easement documents will be executed in conjunction with the project CMA identified in Task 10.4.1
- New easements will be drafted by G&W Real Estate Department
- ROW survey will be completed as part of Task 4.

#### 10.4.3.3 Task Deliverables

- Review and Comment on Crossing easement documents (by G&W Real Estate Department)

## 11. Structures

The work of Task 11, Structures, will consist of 60% submittal) with associated engineering to replace a two-cell culvert on W. Reynolds Avenue over Coffee Creek with a span as recommended in the Structures Alternative Memo (Task 11.3).

### 11.1. Task Assumptions

- The preferred creek alignment is now identified and the COUNTY prefers to keep the roadway profile down, so the bridge type will be a precast Voided slab with CIP deck. A bypass roadway (see assumption below) will be utilized and deep foundations are required for stability and scour.
- The creek crossing structure is neither “major” nor “unusual”, so a full type, size and location (TS&L) study is not required based on the WSDOT LAG manual.
- The Coffee Creek bridge structure will have a wingwall at each of the four corners.
- Four retaining wall locations are assumed.
- 25ft bridge approach slabs will be included and the sidewalk and connection to Coffee Creek Road will be integrated into the approach slab.
- A bypass roadway (temporary) fill will be used on the north side of W. Reynolds Avenue so culvert removal and bridge construction will need to be staged. An additional wall will be required to maintain the adjacent driveway. Temporary walls will be evaluated as part of the bypass design.
- Bankfull width of 16.33 ft, minimum structure opening of 29 ft, and freeboard clearance of 3ft above 100-year water surface elevation based on current Preliminary Culvert Span Memorandum; assume final memorandum will not change these values.
- The bridge will incorporate pedestrian barriers. BP type railing will be included.
- Loading on the bridge is defined by WSDOT and American Association of Highway Transportation Officials (AASHTO) highway loading criteria and design will be based on the current WSDOT BDM.
- Construction administration and engineering observations are not included in this scope.

### 11.2. Structural Coordination

Development of the culvert replacement requires interdisciplinary coordination as follows:

#### 11.2.1. Geotechnical Coordination

The CONSULTANT will perform the following:

- Identify and understand impacts of structure type and foundation alternatives applicable to each structure type.
- Review of geotechnical reports (draft and final).

#### 11.2.2. Roadway/Civil Coordination

The CONSULTANT will perform the following:

- Coordinate roadway/civil to evaluate/iterate on roadway geometry in coordination with Task 11.1.3 to resolve superstructure-depth limitations, abutment/pier locations, adjunct wingwall lengths, barrier/rail design, utility/drainage coordination, and retaining wall needs for bypass roadway and adjacent driveway.

#### 11.2.3. Hydraulic (Stream) Coordination

The CONSULTANT will perform the following:

- Understand impacts of structure type and foundation alternatives to meet bankfull width criteria, scour conditions, stream migration, and hydraulic clearance needs.
- Review of Bankfull Width and Preliminary Culvert Span Memorandum (draft and final).

#### 11.2.4. Design Coordination Meetings

The design effort for structures is scheduled to take about 4 months.

- Structures design lead will participate in a weekly team meeting and Sr. Structures Director will participate monthly; meetings to take one hour (virtually).

### 11.3. Structures Alternatives Memorandum

The COUNTY is requesting to simplify the conceptual design and move towards final design as soon as possible. To accommodate this, and since the project is already past the 30% design, a structures alternative memorandum will be generated.

#### 11.3.1. Structures Alternative Memorandum

The CONSULTANT will perform the following:

- Develop a memorandum to document the decisions that helped determine the types of permanent as well as temporary crossings considered for Coffee Creek location. No TS&L will be generated, just a summary of what was considered with a recommendation for each.
- Participate in a review meeting with COUNTY to discuss comments of the draft submittal.

##### 11.3.1.1. Task Deliverables

- Draft Structures Alternative Memorandum (pdf format)
- Final Structures Alternative Memorandum (pdf format)

### 11.4. Structures Design (60%)

The existing culvert will be replaced with a new preferred bridge selected in 11.3 above. For scoping purposes, a new single span prestressed concrete girder bridge with CIP deck is assumed. The bridge will be designed to accommodate two 11-foot travel lanes, one 11-foot turn lane, with 5-foot bicycle lanes and 5-foot sidewalks on both sides.

CONSULTANT will develop structural contract drawings indicated in the list of (32) structural drawings provided in the table below:

| Sheet No. | Sheet Name                            | 60% | 90% | Ad Ready |
|-----------|---------------------------------------|-----|-----|----------|
| 1         | Bridge Plan and Elevation             | X   | X   | X        |
| 2         | Bridge Construction Sequence          | X   | X   | X        |
| 3         | Bridge Construction Sequence          | X   | X   | X        |
| 4         | Temporary Bridge Staging Sheet        | X   | X   | X        |
| 5         | Temporary Bridge Staging Sheets       | X   | X   | X        |
| 6         | Structural Notes                      |     | X   | X        |
| 7         | Foundation Layout                     | X   | X   | X        |
| 8         | Abutment Plan, Elevation, and Section | X   | X   | X        |
| 9         | Abutment Plan, Elevation, and Section | X   | X   | X        |

| Sheet No. | Sheet Name                                 | 60% | 90% | Ad Ready |
|-----------|--------------------------------------------|-----|-----|----------|
| 10        | Abutment Details                           |     | X   | X        |
| 11        | Abutment Details                           |     | X   | X        |
| 12        | Wingwall Plans and Elevations              | X   | X   | X        |
| 13        | Wingwall Plans and Elevations              | X   | X   | X        |
| 14        | Wingwall Plans and Elevations              | X   | X   | X        |
| 15        | Wingwall Plans and Elevations              | X   | X   | X        |
| 16        | Wingwall Details                           |     | X   | X        |
| 17        | Wingwall Details                           |     | X   | X        |
| 18        | Bearing Details                            |     | X   | X        |
| 19        | Bridge Framing Plan                        |     | X   | X        |
| 20        | Bridge Cross Section                       |     | X   | X        |
| 21        | Girder Details                             | X   | X   | X        |
| 22        | Girder Details                             | X   | X   | X        |
| 23        | Girder Details                             | X   | X   | X        |
| 24        | Diaphragm Details                          |     | X   | X        |
| 25        | Diaphragm Details                          |     | X   | X        |
| 26        | Traffic Barrier Details                    |     | X   | X        |
| 27        | Traffic Barrier Details                    |     | X   | X        |
| 28        | Traffic Barrier Details                    |     | X   | X        |
| 29        | BP Railing                                 |     | X   | X        |
| 30        | BP Railing                                 |     | X   | X        |
| 31        | Approach Slab Details                      | X   | X   | X        |
| 32        | Approach Slab Details                      | X   | X   | X        |
| 33        | Utility Hangar Details                     |     | X   | X        |
| 34        | Bar Bending Diagrams                       |     | X   | X        |
| 35        | Retaining Wall Layout                      | X   | X   | X        |
| 36        | Retaining Wall Section                     | X   | X   | X        |
| 37        | Retaining Wall Details                     |     | X   | X        |
| 38        | Temporary Retaining Wall Layout            | X   | X   | X        |
| 39        | Temporary Retaining Wall Section & Details |     | X   | X        |

#### 11.4.1. 60% PS&E Development

The CONSULTANT will perform the following.

- Finalize geometric analysis of bridge and attached wingwalls.
- Perform lateral analysis of bridge design including, but not limited to wind, scour migration, scour, and seismic.
- Perform vertical analysis of bridge.
- Perform lateral design of wingwalls.
- Perform geometric layout of walls (permanent & temporary)
- Develop plans shown in table above for 60% design.
- Develop bid item cost estimate for bridge and wingwalls.
- Develop special provision outline for structural items.

##### 11.4.1.1. Task Deliverables

- 60% structural plans (pdf format)
- 60% cost estimate (incorporated into project cost estimate)
- Structural special provision outline (incorporated into project special provisions)

## 12. Fish Passage & Stream Restoration

Subtask 12.5 is added as follows:

### 12.5 Landscape Architecture Design

#### 12.5.1 Task Description

The CONSULTANT shall develop documents for stream restoration associated with new fish passage and associated stream work. Design will include planting and irrigation plans, details, and special provisions that comply with jurisdictional requirements.

#### 12.5.2 Task Assumptions

- Scope does not include construction administration
- Scope does not include roadway landscape and irrigation

#### 12.5.2 Task Deliverables

- 60 percent design plans

## 13. Plans, Specifications and Estimates

Subtask 13.4 is modified as follows:

### 13.4. 60% PS&E Deliverables

- 60% Plan List

| Plan Sheets                           | Original No. of Sheets | Revised No. of Sheets |
|---------------------------------------|------------------------|-----------------------|
| Cover Sheet                           | 1                      | 1                     |
| Sheet Index                           | 1                      | 1                     |
| Vicinity Map                          | 1                      | 1                     |
| General Notes                         | 2                      | 2                     |
| Roadway Typical Sections              | 3                      | 8                     |
| <i>Summary of Quantities</i>          | -                      | 10                    |
| Alignment and ROW                     | 35                     | -                     |
| <i>Survey &amp; Alignment Control</i> | -                      | 2                     |
| <i>Overall Right-of-Way Plan</i>      | -                      | 2                     |
| Site Preparation Plans                | 18                     | 33                    |
| TESC Plans                            | 18                     | 18                    |
| TESC Details                          | 5                      | 2                     |
| Roadway Plans/Profiles                | 40                     | 41                    |
| Roadway Details                       | 7                      | 7                     |
| Storm Drainage Plans/Profiles         | 40                     | 40                    |
| Storm Drainage Lateral Profiles       | 16                     | 16                    |
| Drainage Details                      | 10                     | 10                    |
| Sewer Plans/Profiles                  | 32                     | 41                    |
| Sewer Details                         | 3                      | 3                     |
| Waterline Plans/Profiles              | 20                     | 20                    |
| Waterline Details                     | 3                      | 3                     |

| Plan Sheets                                          | Original No. of Sheets | Revised No. of Sheets |
|------------------------------------------------------|------------------------|-----------------------|
| Curb Ramp Plans                                      | 18                     | -                     |
| <i>Curb Ramp Details</i>                             |                        | 38                    |
| Coffee Creek Temporary Stream Diversion Plan         | 2                      | 2                     |
| Coffee Creek Fish Passage Culvert/Structure Plan     | 2                      | -                     |
| Coffee Creek Fish Passage Culvert/Structure Profiles | 2                      | -                     |
| Coffee Creek Fish Passage Culvert/Structure Details  | 5                      | -                     |
| Coffee Creek Stream Restoration Details              | 2                      | 2                     |
| Coffee Creek Planting Plan                           | 2                      | 2                     |
| Coffee Creek Planting Details                        | 2                      | 2                     |
| <i>Coffee Creek Improvements</i>                     |                        | 3                     |
| Retaining Wall Plan/Profile                          | 5                      | 5                     |
| Retaining Wall Details                               | 3                      | 2                     |
| Illumination Plans                                   | 35                     | 35                    |
| Illumination Details                                 | 5                      | 5                     |
| Traffic Signal Plans                                 | 7                      | -                     |
| Traffic Signal Details                               | 7                      | -                     |
| Pavement Marking and Signing Plans                   | 35                     | 35                    |
| Pavement Marking and Signing Details                 | 5                      | 5                     |
| Utility Plans                                        | 70                     | 70                    |
| Utility Details                                      | 10                     | 10                    |
| Construction Staging Plans                           | 10                     | 10                    |
| Traffic Control Plans                                | 20                     | 20                    |
| Detour Plans                                         | 6                      | 6                     |
| <i>Paving Plans</i>                                  | -                      | 21                    |
| <i>Roundabout and Intersection Plans</i>             | -                      | 9                     |
| <i>Driveway Schedule, Details, and Elevations</i>    | -                      | 50                    |
| <i>Bridge Plans and Details</i>                      | -                      | 17                    |
| <i>Planting and Irrigation Plans and Details</i>     | -                      | 6                     |
| Total                                                | 508                    | 610                   |

Subtask 13.5 is modified as follows:

#### 14. Right-of-Way

General Assumptions for all Task 14 Work Elements

- CONSULTANT shall follow the Uniform Relocation Act, WSDOT LAG manual guidelines, all applicable State and local laws and COUNTY administrative rules for right-of-way acquisition for all real estate services provided for this project.
- COUNTY will pre-approve all real estate forms used for this project prior to CONSULTANT'S use.
- COUNTY agrees to provide CONSULTANT with all available project information such as but not limited to the COUNTY's approved right-of-way procedures, environmental documentation, construction and right-of-way plans, and any pre-approved COUNTY right-of-way forms.

- All work elements identified in this task can be completed in a maximum of 1 month of availability of final right-of-way plans.

#### **14.1 Task Management**

##### **14.1.1. Task Description**

The CONSULTANT shall provide overall project management for all appraisal and real estate services, prepare a project guide, provide quality control and quality assurance for this task and attend all right-of-way meetings.

CONSULTANT Services:

- Prepare agendas and meeting summaries for meetings.
- Provide all project management and QA/QC services required for this project.

COUNTY Responsibilities:

- Review and approve meeting summaries.

##### **14.1.2. Task Assumptions**

- One right-of-way kickoff meeting and a maximum of 12 monthly right-of-way status meetings.
- CONSULTANT shall prepare and distribute a monthly right-of-way report in advance of monthly right-of-way status meetings.
- CONSULTANT shall prepare agendas and circulate meeting summaries for review and approval within three days of completion of any meeting.
- CONSULTANT shall have a minimum of one and a maximum of three staff attending scheduled right-of-way meetings.

##### **14.1.3. Task Deliverables**

- One Right-of-Way Status Report
- One Meeting Agenda and Summary

#### **14.2 Pre-Acquisition and Data Management**

##### **14.2.1. Task Description**

The CONSULTANT shall review the preliminary right-of-way plans, attend public meetings, make early contact with property owners as required by COUNTY, obtain any right of entry agreements needed for this as well as other project tasks, and prepare all files and diaries for anticipated acquisitions and relocations (as needed).

CONSULTANT Services:

- Review preliminary right-of-way plans to determine if adequate data is present for all acquisitions.
- Attend public meetings.
- Make early landowner contact through right of entry negotiations to identify willing sellers.

- Acquire any needed right of entry agreements for this as well as other project tasks.
- Prepare all parcel files and diaries for assigned acquisition files.
- Order and distribute title reports and attachments to COUNTY.

COUNTY Responsibilities:

- Pay approved invoices for title reports and attachments.
- Review and authorize all early landowner contacts.
- Confirm and authorize any identified parcels needing right of entry agreements.

14.2.2. Task Assumptions

- CONSULTANT will order all necessary title reports with one copy of each title report and any supporting documentation (e.g., copies of covenants affecting legal description, deeds, etc.).
- Preliminary right-of-way plans, as described in Task 8.5 will be distributed to the right-of-way team to review for adequate data.
- The right-of-way team will provide review comments of the preliminary right-of-way plans.
- There will be a maximum of one (1) public open house meeting.
- A minimum of one and a maximum of three CONSULTANT staff will attend public open house meetings up to 1 day in person as support only to the County for real estate services.
- CONSULTANT will prepare and provide QA/QC services for all necessary documents and make a minimum of three landowner contacts for any right of entry agreement request.
- There will be a maximum of five (5) right of entry agreement requests with a maximum of four (4) substantive contacts by the CONSULTANT for each parcel.

14.2.3. Task Deliverables

- Documentation of early landowner contact meetings through right of entry negotiations.
- Right of Entry Documents and signed Agreements.

**14.3 Relocation Plan in Advance of Property Acquisition**

14.3.1. Task Description

The CONSULTANT shall make site visits, estimate relocation costs, interview potential displacees and prepare a Relocation Plan for the project.

CONSULTANT Services:

- Interview potential displacees and estimate relocation costs for the project.
- Prepare a relocation plan for the project.

COUNTY Responsibilities:

- Review and approve relocation plans and cost estimates.

#### 14.3.2. Task Assumptions

- The relocation plan shall be in word format.
- The relocation cost estimates shall be in excel format.
- There will be a maximum of two (2) relocation parcels.

#### 14.3.3. Task Deliverables

- Summaries of relocation site visits and interviews
- Relocation plan and relocation cost estimates.

### 14.4 Preliminary and Final Right-of-Way Funding Estimates

#### 14.4.1. Task Description

The CONSULTANT shall prepare a right-of-way funding estimate (RFE) using available assessment data and other public records and a final RFE for the project.

#### SUBCONSULTANT Services:

- Perform research of public records and project appraisal data.
- Prepare RFE spreadsheets and worksheets.

#### COUNTY Responsibilities:

- Review and approve all RFE spreadsheets.

#### 14.4.2. Task Assumptions

- There will be a maximum of two (2) RFE spreadsheets and associated worksheets.

#### 14.4.3. Task Deliverables

- RFE spreadsheets and worksheets.

### 14.5 Valuation Process (Appraisal and Appraisal Review)

#### 14.5.1. Task Description

- CONSULTANT shall manage the valuation process for up to one hundred seventeen (117) parcels. As part of the valuation process, Administrative Offer Summary (AOS) or Appraisal reports will be prepared. CONSULTANT shall meet all requirements set forth in 49 CFR 24.103.

CONSULTANT will perform the following tasks:

- Prepare a schedule for delivery of AOS and Appraisal reports.
- Assemble all needed valuation data and scope for each AOS and Appraisal assigned.
- Send out landowner contact letters to all affected parcels in advance of the valuation, if needed.
- Manage the delivery of up to one hundred (100) AOS reports. Seven (7) appraisal reports and seven (7) appraisal reviews.
- Manage preparation of Before and After appraisal reports for all parcels

identified for acquisition and supply all completed reports to the appraisal reviewer selected by COUNTY.

**COUNTY Responsibilities:**

- Review and approve the valuation schedule.
- Provide Right-of-Way Plans or Exhibits of appropriate detail to prepare appraisal reports.
- Provide signed Determinations of Value for AOS and Appraisal reports.

**14.5.2. Assumptions:**

- COUNTY will provide all information to CONSULTANT that is required to complete the assigned appraisals.
- The CONSULTANT shall manage the valuation process for up to 117 parcels.
- It is anticipated there will be a total of up to one hundred (100) parcel AOS reports, seven (7) appraisal reports, and seven (7) appraisal reviews.
- If the value determination of any parcel is more than \$35,000, or the valuation is determined to be complex in nature, an Appraisal is necessary, along with an appraisal review. This will add scope and additional fee will be required.
- COUNTY will approve the just compensation to be offered to each owner in a timely manner.
- COUNTY will provide any available information to the CONSULTANT that is needed to complete the appraisals.
  - When appraisals are needed, the following applies:
    - All valuation services will be performed by a certified independent appraiser.
    - Appraisals will be before and after short form narrative appraisal reports.
    - NTP for the appraiser will be the date of receipt of sufficient right of way plans or exhibits; title information; and landowner contact information.
    - The estimated delivery schedule for the appraisal reports and AOS documents is within ten (10) weeks from the date of NTP.
    - NTP for the review appraiser will be upon delivery of the appraisal report. Estimated delivery time is 30 days from NTP.

**14.5.3. Deliverables:**

- Valuation schedule
- Landowner contact letters, if applicable

**14.6 Right-of-Way Acquisitions and Negotiations**

**14.6.1. Task Description**

The CONSULTANT shall prepare title encumbrance reports for each assigned parcel that are fee and permanent easement, prepare offer packages and provide legal descriptions (prepared in

Task 4), present offers and negotiate acquisitions, prepare administrative settlement memos and condemnation packages, prepare executed documents for COUNTY approval, and process executed documents for a maximum of two (2) parcels. At the end of the project all acquisition files shall be transmitted to the COUNTY with all original documents.

**CONSULTANT Services:**

- Prepare an acquisition schedule for all parcels identified for acquisition.
- Prepare title encumbrance reports for each fee and permanent easement parcels.
- Prepare all documents required for all parcels identified for acquisition.
- Participate in legal description review and prepare QC redline of legal descriptions.
- Act as the agent for COUNTY in all negotiations inclusive of leases (tenants) and personal property.
- Provide justification in the negotiator's diary for any settlement of up to \$5,000.00 above the approved offering price.
- Prepare administrative settlement memos and condemnation packages as needed.
- Transmit completed files to COUNTY.

**COUNTY Responsibilities:**

- Review and approve all acquisition schedules.
- Prior to the beginning of negotiations, review and approve title encumbrance reports
- Approve the format of all documents and deeds used.
- Approve all administrative settlements in excess of \$5,000.00 and all condemnation packages. These will require BOCC and acceptance by WSDOT Local Programs if and when certification is received.
- Manage escrow closing of all acquisitions and clearing of all encumbrances through title company.
- Make prompt payment to the owner or escrow company for all approved acquisitions.
- Review and approve all transmitted files.

**14.6.2. Task Assumptions**

- COUNTY will have sufficient funding to pay for the acquisition of any parcel to be acquired.
- COUNTY will approve all acquisition forms prior to their use.
- The CONSULTANT will have settlement authority with justification of up to \$5,000.00 over the approved offer for each individual parcel.
- All offers will be made in person or by certified mail. There will be a maximum of four (4) substantive contacts by the CONSULTANT for each parcel assigned.
- A substantive contact will be considered either an in-person meeting with a landowner or a detailed phone or email conversation with a landowner followed by a confirmation or request for action email or letter by the CONSULTANT.
- Negotiations will be deemed complete on a parcel if any of the following occur: The offer is rescinded; the parcel is forwarded to condemnation; all documents are signed and recorded, and all payments have been made.
- All fee acquisitions and permanent easement parcels shall be closed in escrow.

- COUNTY will be responsible for all encumbrances to be cleared or accepted.

#### 14.6.3. Task Deliverables

- Acquisition schedules
- Title encumbrance reports
- Completed Acquisition Documents for up to 2 parcels
- Redline QC of Legal Descriptions, Survey Exhibits and Right-of-Way Plans

### 14.7 Relocation Services During Acquisition of Property

#### 14.7.1. Task Description

The CONSULTANT shall advance the relocation plan, prepare and present all relocation notices and benefit letters, provide relocation services, prepare, develop an appeals process and administer relocation reviews and appeals, and prepare executed documents for COUNTY approval and process all relocation payments for up to two (2) residential relocations. At the end of the project all relocation files shall be transmitted to the COUNTY with all original documents.

#### CONSULTANT Services:

- Prepare a relocation plan for COUNTY approval
- Develop a written appeals process, to include a relocation review panel, and provide one staff member for the relocation review panel.
- Prepare all relocation documents.
- Act as the COUNTY's relocation agent for all affected parcels.
- Administer relocation reviews and approvals.
- Process all relocation payments.
- Transmit completed files to COUNTY.

#### COUNTY Responsibilities:

- Review and approve the relocation plan
- Review and approve the relocation appeals process and provide at least two COUNTY (or project partner) staff members to sit on the relocation review panel.
- Approve the format of all documents used.
- Review and authorize all relocation payments in advance.
- Make prompt payment to displacees for all approved relocations.
- Review and approve all transmitted files.

#### 14.7.2. Task Assumptions

- One draft and one final version of the relocation plan and appeals process will be prepared.
- All relocation forms will be approved by the COUNTY prior to their use.
- There will be a maximum of two (2) residential relocations

- All relocation services will follow the Uniform Relocation Act and WSDOT LAG manual standards.

#### 14.7.3. Task Deliverables

- Draft and Final Relocation Plan
- Relocation Documents

#NAME?  
WSP

# DIRECT SALARY COST (DSC)

| Personnel                | Hours | Pay Rate  | Cost       |
|--------------------------|-------|-----------|------------|
| Director                 | 192   | \$ 99.14  | \$ 19,035  |
| Sr. Director             | 49    | \$ 93.94  | \$ 4,603   |
| Sr. Director             | 76    | \$ 109.67 | \$ 8,335   |
| Sr. Lead Engineer        | 140   | \$ 65.46  | \$ 9,164   |
| Sr. Lead Engineer        | 10    | \$ 80.51  | \$ 805     |
| Sr. Lead Engineer        | 10    | \$ 84.14  | \$ 841     |
| Lead Engineer            | 50    | \$ 66.02  | \$ 3,301   |
| Lead Engineer            | 80    | \$ 57.95  | \$ 4,636   |
| Sr. Consultant Engineer  | 172   | \$ 61.96  | \$ 10,657  |
| Consultant Engineer      | 186   | \$ 48.14  | \$ 8,954   |
| Associate Engineer       | 138   | \$ 37.01  | \$ 5,107   |
| Associate Engineer       | 114   | \$ 50.22  | \$ 5,725   |
| Sr. Intern               | 94    | \$ 24.50  | \$ 2,303   |
| Planner/PI Specialist    | 62    | \$ 54.04  | \$ 3,350   |
| Project Accountant       | 38    | \$ 54.25  | \$ 2,062   |
| Resident Engineer        | 16    | \$ 87.53  | \$ 1,400   |
| CAD Technician           | 83    | \$ 55.90  | \$ 4,640   |
| CAD Technician           | 354   | \$ 58.90  | \$ 20,851  |
| Sr. Landscape Architect  | 34    | \$ 62.02  | \$ 2,109   |
| Sr. Landscape Architect  | 34    | \$ 73.63  | \$ 2,503   |
| Direct Salary Cost Total | 1,864 |           | \$ 120,382 |
| Salary Escalation        | 8%    |           | \$ 9,631   |
| Overhead Cost            | 139%  | of DSC    | \$ 167,331 |
| Net Fee                  | 30%   | of DSC    | \$ 36,115  |
| SUBTOTAL                 |       |           | \$ 333,459 |

## Escalation for Task in Original Scope

|                                                |          |
|------------------------------------------------|----------|
| Task 1 - Project Management and Administration | \$8,075  |
| Task 2 - Public Involvement                    | \$3,051  |
| Task 5 - Environmental Services                | \$3,930  |
| Task 6 - Geotechnical                          | \$4,083  |
| Task 8 - Roadway                               | \$14,959 |
| Task 10 - Utilities                            | \$8,740  |
| Task 11 - Structures                           | \$366    |
| Task 12 - Fish Passage & Stream Restoration    | \$4,664  |
| Task 13 - Plans, Specifications, And Estimates | \$2,504  |
| Task 14 - Right-of-Way                         | \$173    |

|                       |              |
|-----------------------|--------------|
| Escalation Cost Total | \$ 50,545    |
| Overhead and FF       | \$ 18,790    |
| Fee Portion           | \$ 5,637.01  |
| Total Less Fee        | \$ 44,908.14 |

| DIRECT EXPENSES                          |       |       |           |                         |              |
|------------------------------------------|-------|-------|-----------|-------------------------|--------------|
| Reimbursables                            | Units | Qty   | Cost/Unit |                         | Cost         |
| Project Management Expenses              |       |       |           |                         |              |
| Mileage                                  | Miles | 3,000 | \$        | 0.70                    | \$ 2,100     |
| Postage                                  | Each  | 5     | \$        | 25.00                   | \$ 125       |
| Courier                                  | Each  | 4     | \$        | 50.00                   | \$ 200       |
| Miscellaneous                            | Est   | 1     | \$        | 540.00                  | \$ 540       |
| Geotech Expenses                         |       |       |           |                         |              |
| Driller Sub                              | LS    | 1     | \$        | 74,480.00               | \$ 74,480    |
| Traffic Control Sub                      | LS    | 1     | \$        | 36,300.00               | \$ 36,300    |
| Geotech Lab Testing                      | LS    | 1     | \$        | 7,500.00                | \$ 7,500     |
| GPR Equipment Rental (2 day rental)      | Day   | 2     | \$        | 400.00                  | \$ 800       |
| Mileage/Rental/Fleet Vehicle             | Miles | 774   | \$        | 0.67                    | \$ 519       |
| Lodging                                  | Day   | 18    | \$        | 107.00                  | \$ 1,926     |
| Travel Day Meals and Incidentals         | Day   | 4     | \$        | 44.25                   | \$ 177       |
| Meals and Incidentals                    | Day   | 16    | \$        | 59.00                   | \$ 944       |
| Environmental Related                    |       |       |           |                         |              |
| Environmental Data Report                | LS    | 1     | \$        | 500.00                  | \$ 500       |
| Phase II ESA Driller Sub                 | LS    | 1     | \$        | 15,000.00               | \$ 15,000    |
| Phase II ESA Traffic Control Plan        | LS    | 1     | \$        | 10,750.00               | \$ 10,750    |
| Phase II ESA Laboratory Services         | LS    | 1     | \$        | 39,605.00               | \$ 39,605    |
| IDW Disposal Sub                         | LS    | 1     |           | \$4,450.00              | \$ 4,450     |
| Utility Locates Sub                      | LS    | 1     | \$        | 1,000.00                | \$ 1,000     |
| Soil Sampling Supplies                   | Day   | 4     | \$        | 40.00                   | \$ 160       |
| Well Sampling Supplies                   | Day   | 4     | \$        | 45.00                   | \$ 180       |
| Waterlevel Indicator                     | Day   | 4     | \$        | 75.00                   | \$ 300       |
| Pump                                     | Day   | 4     | \$        | 180.00                  | \$ 720       |
| Water Quality Meter                      | Day   | 4     | \$        | 225.00                  | \$ 900       |
| PID                                      | Day   | 4     | \$        | 85.00                   | \$ 340       |
| Mileage/Rental/Fleet Vehicle             | Day   | 20    | \$        | 130.00                  | \$ 2,600     |
| Lodging                                  | Day   | 13    | \$        | 96.00                   | \$ 1,248     |
| Food                                     | Day   | 15    | \$        | 59.00                   | \$ 885       |
|                                          |       |       |           | SUBTOTAL                | \$ 204,249   |
| WSP SUBTOTAL                             |       |       | SUBTOTAL  |                         | \$ 582,616   |
| Subconsultants                           |       |       |           |                         |              |
| Atlas Technical Consultants              |       |       |           | \$                      | -            |
| Aqua Terra Cultural Resource Consultants |       |       |           | \$                      | 33,634       |
| Rae Hansen Consulting                    |       |       |           | \$                      | 98,157       |
| HDR                                      |       |       |           | \$                      | 785,593      |
|                                          |       |       |           | SUBCONSULTANTS SUBTOTAL | \$ 917,385   |
|                                          |       |       |           | GRAND TOTAL             | \$ 1,500,000 |

|              |  |
|--------------|--|
| WSP USA Inc. |  |
|--------------|--|

[illegible]









| Task                                           | With Additional |                      |          |
|------------------------------------------------|-----------------|----------------------|----------|
|                                                | Original        | 2024/2025 Escalation | Increase |
| Task 1 - Project Management and Administration | \$280,104       | \$288,179            | \$8,075  |
| Task 2 - Public Involvement                    | \$105,816       | \$108,867            | \$3,051  |
| Task 5 - Environmental Services                | \$136,319       | \$140,249            | \$3,930  |
| Task 6 - Geotechnical                          | \$141,617       | \$145,700            | \$4,083  |
| Task 8 - Roadway                               | \$518,867       | \$533,826            | \$14,959 |
| Task 10 - Utilities                            | \$303,148       | \$311,888            | \$8,740  |
| Task 11 - Structures                           | \$12,683        | \$13,049             | \$366    |
| Task 12 - Fish Passage & Stream Restoration    | \$161,787       | \$166,451            | \$4,664  |
| Task 13 - Plans, Specifications, And Estimates | \$86,861        | \$89,365             | \$2,504  |
| Task 14 - Right-of-Way                         | \$5,997         | \$6,170              | \$173    |
| Total                                          | \$1,753,199     | \$1,803,744          | \$50,545 |

Analysis of Costs - Rae Hansen Consulting

DIRECT SALARY COST (DSC)

| Personnel                | Hours      | Pay Rate        | Cost             |
|--------------------------|------------|-----------------|------------------|
| Rae Hansen               | 355        | \$ 107.17       | \$ 38,045        |
| Direct Salary Cost Total | 355        |                 | \$ 38,045        |
| Salary Escalation        | 8%         |                 | \$ 3,044         |
| Overhead Cost            | 120%       | of DSC          | \$ 45,654        |
| Net Fee                  | <u>30%</u> | of DSC          | <u>\$ 11,414</u> |
|                          |            | <b>SUBTOTAL</b> | <b>\$ 98,157</b> |

DIRECT EXPENSES

| Reimbursables               | Units | Qty | Cost/Unit       | Cost             |
|-----------------------------|-------|-----|-----------------|------------------|
| Project Management Expenses |       |     |                 |                  |
| Mileage                     | Miles |     | \$ 0.700        | \$ -             |
| Postage                     | Each  |     | \$ 25.00        | \$ -             |
| Courier                     | Each  |     | \$ 50.00        | \$ -             |
| Miscellaneous               | Est   |     | \$ 500.00       | \$ -             |
|                             |       |     | <b>SUBTOTAL</b> | <b>\$ -</b>      |
| <b>RAE HANSEN SUBTOTAL</b>  |       |     | <b>SUBTOTAL</b> | <b>\$ 98,157</b> |

# RHCS, LLC Supplement 2

12/31/2024

| Classification                        | SubConsultant | HOURS | COST   |
|---------------------------------------|---------------|-------|--------|
| Reynolds/Harrison Improvement Project | Rae Hansen    |       |        |
|                                       |               | \$    | 107.17 |

## Scope Description

### Task 1 - Project Management and Administration

|       |                                                               |            |               |           |               |
|-------|---------------------------------------------------------------|------------|---------------|-----------|---------------|
| 1.1   | Project Meetings                                              |            |               |           |               |
| 1.1.1 | General Project Administration (PM 4 hrs/wk)                  | 112        | 112           |           |               |
| 1.1.2 | Meetings with Lewis County/Project Partners (mtg + 1 hr prep) | 14         | 14            |           |               |
| 1.1.3 | Consultant Team Meeting and Coordination                      | 56         | 56            |           |               |
|       | <i>Subtotal</i>                                               | 182        | 182           | \$        | 19,505        |
| 1.2   | Progress Schedule and Updates                                 |            |               |           |               |
|       | Restart Schedule                                              | 8          | 8             |           |               |
|       | Monthly Schedule Updates (8)                                  | 16         | 16            |           |               |
|       | <i>Subtotal</i>                                               | 24         | 24            | \$        | 2,572         |
| 1.3   | Progress Reporting and Invoicing                              |            |               |           |               |
|       | Monthly Progress Reports (8)                                  | 8          | 8             |           |               |
|       | Monthly Invoices (8)                                          | 8          | 8             |           |               |
|       | <i>Subtotal</i>                                               | 16         | 16            | \$        | 1,715         |
| 1.4   | Project Management Plan                                       |            |               |           |               |
|       | Project Management Plan Updates (1 added)                     | 3          | 3             |           |               |
|       | <i>Subtotal</i>                                               | 3          | 3             | \$        | 322           |
| 1.5   | Project Kickoff Meeting                                       |            |               |           |               |
|       | Second Project Kickoff Meeting Prep/Summary                   | 2          | 2             |           |               |
|       | Remobilization                                                | 8          | 8             |           |               |
|       | <i>Subtotal</i>                                               | 10         | 10            | \$        | 1,072         |
|       | <b>TASK HOURS</b>                                             | <b>235</b> | <b>235</b>    | <b>\$</b> | <b>25,185</b> |
|       | <b>TASK COST</b>                                              | <b>\$</b>  | <b>25,185</b> | <b>\$</b> | <b>25,185</b> |

### Task 2 - Public Involvement

### Task 3 - Data Collection

### Task 4 - Survey

|     |                                     |           |          |           |          |
|-----|-------------------------------------|-----------|----------|-----------|----------|
| 4.6 | Office Processing and Deliverables  |           |          |           |          |
|     | 107 Right-of-Way Exhibits           | 0         | 0        |           |          |
|     | 107 Legal Descriptions              | 0         | 0        |           |          |
|     | 25 Temporary Construction Easements | 0         | 0        |           |          |
|     | <i>Subtotal</i>                     | 0         | 0        | \$        | -        |
|     | <b>TASK HOURS</b>                   | <b>0</b>  | <b>0</b> | <b>\$</b> | <b>-</b> |
|     | <b>TASK COST</b>                    | <b>\$</b> | <b>-</b> | <b>\$</b> | <b>-</b> |

### Task 5 - Environmental Services

|      |                                                     |   |   |    |     |
|------|-----------------------------------------------------|---|---|----|-----|
| 5.8  | NEPA Categorical Exclusion                          |   |   |    |     |
|      | Draft and Final NEPA CE Checklist and EJ Memorandum | 6 | 6 |    |     |
|      | <i>Subtotal</i>                                     | 6 | 6 | \$ | 643 |
| 5.9  | Supplemental Wetland Fieldwork and Report Update    |   |   |    |     |
|      | Draft and Final Wetland Delineation Amended Report  | 2 | 2 |    |     |
|      | <i>Subtotal</i>                                     | 2 | 2 | \$ | 214 |
| 5.10 | Supplemental Cultural Resource Services             |   |   |    |     |

|                                |                                                                                          |                   |              |             |              |                 |
|--------------------------------|------------------------------------------------------------------------------------------|-------------------|--------------|-------------|--------------|-----------------|
|                                | Supplemental Cultural Resource Services                                                  |                   | 8            | 8           |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 8            | 8           | \$           | 857             |
| 5.11                           | Environmental Site Assessment                                                            |                   |              |             |              |                 |
|                                | Draft Phase II ESA Report                                                                |                   | 2            |             |              |                 |
|                                | Final Phase II ESA Report                                                                |                   | 2            |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 4            | 4           | \$           | 429             |
|                                |                                                                                          | <b>TASK HOURS</b> | <b>20</b>    | <b>20</b>   | <b>\$</b>    | <b>2,143</b>    |
|                                |                                                                                          | <b>TASK COST</b>  | <b>2,143</b> | <b>\$</b>   | <b>2,143</b> | <b>\$ 2,143</b> |
| <b>Task 6 - Geotechnical</b>   |                                                                                          |                   |              |             |              |                 |
| <b>Task 7 - Traffic</b>        |                                                                                          |                   |              |             |              |                 |
| 7.2                            | Traffic Analysis                                                                         |                   | 0            | 0           |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           | \$           | -               |
| 7.5                            | Traffic Design                                                                           |                   |              |             |              |                 |
|                                | Draft and Final Illumination Memo with Light Level Exhibits                              |                   |              |             |              |                 |
|                                | 60%, 90%, and Ad-Ready Signing and Striping Plans (PDF format)                           |                   | 0            |             |              |                 |
|                                | 60%, 90%, and Ad-Ready Traffic Signal Plans (PDF format)                                 |                   |              |             |              |                 |
|                                | 60%, 90%, and Ad-Ready Illumination Plans, Estimate, and Special Provisions (PDF format) |                   |              |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           | \$           | -               |
|                                |                                                                                          | <b>TASK HOURS</b> | <b>0</b>     | <b>0</b>    |              |                 |
|                                |                                                                                          | <b>TASK COST</b>  | <b>\$ -</b>  | <b>\$ -</b> |              | <b>\$ -</b>     |
| <b>Task 8 - Roadway</b>        |                                                                                          |                   |              |             |              |                 |
| 8.4                            | Construction Staging and MOT                                                             |                   |              | 0           |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           | \$           | -               |
| 8.6                            | Right-of-Way Plan Development                                                            |                   |              |             |              |                 |
| 8.6.2                          | Right-of-Way Plans                                                                       |                   |              | 0           |              |                 |
|                                | Draft ROW Plans                                                                          |                   | 4            |             |              |                 |
|                                | Final ROW Plans                                                                          |                   | 0            |             |              |                 |
|                                | ROW Plan Revisions                                                                       |                   | 0            |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 4            | 4           | \$           | 429             |
| 8.6.3                          | Right-of-Way Exhibits ( <i>deferred to after 30% milestone</i> )                         |                   | 16           | 16          |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 16           | 16          | \$           | 1,715           |
|                                |                                                                                          | <b>TASK HOURS</b> | <b>20</b>    | <b>20</b>   | <b>\$</b>    | <b>2,143</b>    |
|                                |                                                                                          | <b>TASK COST</b>  | <b>2,143</b> | <b>\$</b>   | <b>2,143</b> | <b>\$ 2,143</b> |
| <b>Task 9 - Storm Drainage</b> |                                                                                          |                   |              |             |              |                 |
| 9.2                            | Stormwater Analysis                                                                      |                   |              | 0           |              |                 |
|                                | Draft and Final Technical Memorandum (PDF format)                                        |                   | 4            |             |              |                 |
|                                | Meeting Notes (PDF format)                                                               |                   | 2            |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 6            | 6           | \$           | 643             |
| 9.3                            | TESC Plans                                                                               |                   |              | 0           |              |                 |
|                                | 60%, 90%, and Ad-Ready TESC Sheets (PDF format)                                          |                   |              |             |              |                 |
|                                | 60%, 90%, and Ad-Ready TESC Detail Sheets (PDF format)                                   |                   |              |             |              |                 |
|                                | 60%, 90%, and Ad-Ready TESC-specific Specifications (PDF format)                         |                   |              |             |              |                 |
|                                | 60%, 90%, and Ad-Ready OPCC (PDF format)                                                 |                   |              |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           | \$           | -               |
| 9.4                            | Tributary Drainage Design (Offsite)                                                      |                   |              | 0           |              |                 |
|                                | Draft and Final Technical Memorandum (PDF format)                                        |                   | 8            |             |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 8            | 8           | \$           | 857             |
|                                |                                                                                          | <b>TASK HOURS</b> | <b>14</b>    | <b>14</b>   | <b>\$</b>    | <b>1,500</b>    |
|                                |                                                                                          | <b>TASK COST</b>  | <b>1,500</b> | <b>\$</b>   | <b>1,500</b> | <b>\$ 1,500</b> |
| <b>Task 10 - Utilities</b>     |                                                                                          |                   |              |             |              |                 |
| 10.1                           | Utility Coordination                                                                     |                   |              | 0           |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           |              |                 |
| 10.3                           | Utility Design                                                                           |                   |              |             |              |                 |
| 10.3.1                         | Water Main                                                                               |                   |              | 0           |              |                 |
|                                |                                                                                          | <i>Subtotal</i>   | 0            | 0           | \$           | -               |

|                             |                                                 |                     |       |    |       |       |          |
|-----------------------------|-------------------------------------------------|---------------------|-------|----|-------|-------|----------|
| 10.3.2                      | Sanitary Sewer                                  |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 0     | 0  | \$    | -     |          |
| 10.3.3                      | Joint Utility Trench                            |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 0     | 0  | \$    | -     |          |
| 10.4                        | Railroad Design and Coordination                |                     |       |    |       |       |          |
| 10.4.1                      | Railroad Coordination                           |                     |       | 0  |       |       |          |
|                             | Right of Entry Agreement                        |                     | 0     |    |       |       |          |
|                             | Diagnostic Meeting Minutes                      |                     | 4     |    |       |       |          |
|                             | Three (3) Draft Petitions                       |                     | 0     |    |       |       |          |
|                             | Draft CMA (by PSAP GEC Contractor)              |                     | 0     |    |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 4     | 4  | \$    | 429   |          |
| 10.4.2                      | Railroad Signal Design                          |                     |       |    |       |       |          |
|                             | Top of Rail Survey for Each Crossing            |                     |       |    |       |       |          |
|                             | Draft Crossing Modification Exhibits            |                     | 1     |    |       |       |          |
|                             | Final Crossing Modification Exhibits            |                     | 0     |    |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 1     | 1  | \$    | 107   |          |
| 10.4.3                      | Railroad ROW Support                            |                     |       |    |       |       |          |
|                             | Crossing Easement Documents                     |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 0     | 0  | \$    | -     |          |
|                             |                                                 | <b>TASK HOURS</b>   | 5     | 5  | \$    | 536   | \$ 536   |
|                             |                                                 | <b>TASK COST \$</b> | 536   | \$ | 536   |       |          |
| <b>Task 11 - Structures</b> |                                                 |                     |       |    |       |       |          |
| 11.1                        | Structures Coordination                         |                     | 48    |    |       |       |          |
|                             | Geotechnical Coordination                       |                     |       | 0  |       |       |          |
|                             | Roadway/Civil Coordination                      |                     |       | 0  |       |       |          |
|                             | Hydraulic (Stream) Coordination                 |                     |       | 0  |       |       |          |
|                             | Design Coordination Meetings                    |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 0     | 0  | \$    | -     |          |
| 11.2                        | Structures Alternative Memorandum               |                     | 12    |    |       |       |          |
|                             | Draft Structural Alternative Memorandum         |                     |       | 0  |       |       |          |
|                             | Structural Alternative Review/Selection Meeting |                     |       | 0  |       |       |          |
|                             | Final Structural Alternative Memorandum         |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 12    | 12 | \$    | 1,286 |          |
| 11.3                        | Structures Coordination                         |                     |       |    |       |       |          |
| 11.3.1                      | 60% PS&E Development                            |                     |       |    |       |       |          |
|                             | Final Geometric Analysis                        |                     |       | 0  |       |       |          |
|                             | Initial Lateral Analysis                        |                     |       | 0  |       |       |          |
|                             | Initial Vertical Analysis                       |                     |       | 0  |       |       |          |
|                             | Initial Wingwall Design                         |                     |       | 0  |       |       |          |
|                             | 60% Structural Plans                            |                     |       | 0  |       |       |          |
|                             | 60% Cost Estimate                               |                     |       | 0  |       |       |          |
|                             | Structural Special Provision Outline            |                     |       | 0  |       |       |          |
| 11.3.2                      | 90% PS&E Development                            |                     |       |    |       |       |          |
|                             | Final Lateral Analysis                          |                     |       | 0  |       |       |          |
|                             | Final Vertical Analysis                         |                     |       | 0  |       |       |          |
|                             | Final Wingwall Design                           |                     |       | 0  |       |       |          |
|                             | 90% Structural Plans                            |                     |       | 0  |       |       |          |
|                             | 90% Cost Estimate                               |                     |       | 0  |       |       |          |
|                             | 90% Structural Special Provisions               |                     |       | 0  |       |       |          |
| 11.3.3                      | AD Ready PS&E Development                       |                     |       |    |       |       |          |
|                             | Finalize Design                                 |                     |       | 0  |       |       |          |
|                             | AD Ready Structural Plans                       |                     |       | 0  |       |       |          |
|                             | AD Ready Cost Estimate                          |                     |       | 0  |       |       |          |
|                             | AD Ready Structural Special Provisions          |                     |       | 0  |       |       |          |
|                             |                                                 | <i>Subtotal</i>     | 0     | 0  | \$    | -     |          |
|                             |                                                 | <b>TASK HOURS</b>   | 12    | 12 | \$    | 1,286 | \$ 1,286 |
|                             |                                                 | <b>TASK COST \$</b> | 1,286 | \$ | 1,286 |       |          |

**Task 13 - Plans, Specifications and Estimates**

|      |                            |                 |                 |           |              |                 |
|------|----------------------------|-----------------|-----------------|-----------|--------------|-----------------|
| 13.4 | 60% PS&E                   |                 |                 |           |              |                 |
|      | Plan sheet compilation     | 4               | 4               |           |              |                 |
|      | Specifications Compilation | 20              | 20              |           |              |                 |
|      | Estimate Compilation       | 8               | 8               |           |              |                 |
|      | <i>Subtotal</i>            | 32              | 32              | \$        | 3,429        |                 |
| 13.5 | 90% PS&E                   |                 |                 |           |              |                 |
|      | Plan sheet compilation     | 0               | 0               |           |              |                 |
|      | Specifications Compilation | 0               | 0               |           |              |                 |
|      | Estimate Compilation       | 0               | 0               |           |              |                 |
|      | <i>Subtotal</i>            | 0               | 0               | \$        | -            |                 |
|      | <b>TASK HOURS</b>          | <b>32</b>       | <b>32</b>       | <b>\$</b> | <b>3,429</b> | <b>\$ 3,429</b> |
|      | <b>TASK COST</b>           | <b>\$ 3,429</b> | <b>\$ 3,429</b> |           |              |                 |

**Task 14 - Right-of-Way**

|      |                                                                                    |                 |                 |           |              |                 |
|------|------------------------------------------------------------------------------------|-----------------|-----------------|-----------|--------------|-----------------|
| 14.1 | Task Management                                                                    |                 |                 |           |              |                 |
|      | Monthly Right-of-Way Status Reports                                                | 3               | 3               |           |              |                 |
|      | Meeting Agendas and Summaries                                                      |                 |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 3               | 3               | \$        | 322          |                 |
| 14.2 | Pre-Acquisition and Data Management                                                |                 | 0               |           |              |                 |
|      | Documentation of Early Landowner Contact Meetings                                  | 0               |                 |           |              |                 |
|      | Right of Entry Documents and Signed Agreements                                     | 0               |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 0               | 0               | \$        | -            |                 |
| 14.3 | Relocation Plan (Optional)                                                         |                 | 0               |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 0               | 0               | \$        | -            |                 |
| 14.4 | Preliminary and Final Project Funding Estimates and Administrative Offer Summaries |                 | 0               |           |              |                 |
|      | RFE Spreadsheets and Worksheets                                                    | 2               |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 2               | 2               | \$        | 214          |                 |
| 14.5 | Appraisal, Appraisal Review and Appraisal Management                               | 4               | 4               |           |              |                 |
|      | Appraisal Delivery Schedule                                                        |                 |                 |           |              |                 |
|      | Valuation Schedule                                                                 |                 |                 |           |              |                 |
|      | Administrative Offer Summary Reports                                               |                 |                 |           |              |                 |
|      | Landowner Contact Letters                                                          |                 |                 |           |              |                 |
|      | Appraisal Reports                                                                  |                 |                 |           |              |                 |
|      | Appraisal Reviews                                                                  |                 |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 4               | 4               | \$        | 429          |                 |
| 14.6 | ROW Acquisitions and Negotiations                                                  | 8               | 8               |           |              |                 |
|      | Acquisition Schedules                                                              |                 |                 |           |              |                 |
|      | Title Encumbrance Reports                                                          |                 |                 |           |              |                 |
|      | Completed Acquisition Documents                                                    |                 |                 |           |              |                 |
|      | Redline QC of Legal Descriptions, Survey Exhibits, and R/W Plans                   |                 |                 |           |              |                 |
|      | Administrative Settlement Memos                                                    |                 |                 |           |              |                 |
|      | Completed Acquisitions or Condemnation Packages                                    |                 |                 |           |              |                 |
|      | Completed Acquisition Files                                                        |                 |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 8               | 8               | \$        | 857          |                 |
| 14.7 | Relocation Services (Optional)                                                     |                 | 0               |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 0               | 0               | \$        | -            |                 |
| 14.8 | Property Management (Optional)                                                     |                 | 0               |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 0               | 0               | \$        | -            |                 |
| 14.9 | Prepare ROW Certification Package                                                  |                 | 0               |           |              |                 |
|      | Certification Files                                                                |                 |                 |           |              |                 |
|      | Final Certification Memo(s)                                                        | 0               |                 |           |              |                 |
|      | <i>Subtotal</i>                                                                    | 0               | 0               | \$        | -            |                 |
|      | <b>TASK HOURS</b>                                                                  | <b>17</b>       | <b>17</b>       | <b>\$</b> | <b>1,822</b> | <b>\$ 1,822</b> |
|      | <b>TASK COST</b>                                                                   | <b>\$ 1,822</b> | <b>\$ 1,822</b> |           |              |                 |

**Task 15 - Construction Management Support**

Task 16 - Grant Funding Preparation

|             |     |        |    |        |    |        |
|-------------|-----|--------|----|--------|----|--------|
| TOTAL HOURS | 355 | 355    | \$ | 38,045 | \$ | 38,045 |
| TOTAL COST  | \$  | 38,045 | \$ | 38,045 |    |        |

Analysis of Costs - Aqua Terra

DIRECT SALARY COST (DSC)

| Personnel                  | Hours      | Pay Rate        | Cost             |
|----------------------------|------------|-----------------|------------------|
| PM/PI                      | 93         | \$ 67.31        | \$ 6,260         |
| Sr Archaeologist - Built   | 50         | \$ 40.00        | \$ 2,000         |
| Lead Project Archaeologist | 8          | \$ 30.00        | \$ 240           |
| Project Archaeologist      | 105        | \$ 28.00        | \$ 2,940         |
| Cultural Resource Spec     | 95         | \$ 25.00        | \$ 2,375         |
| Direct Salary Cost Total   | 351        |                 | \$ 13,815        |
| Salary Escalation          |            |                 |                  |
| Overhead Cost              | 110%       | of DSC          | \$ 15,196        |
| Net Fee                    | <u>30%</u> | of DSC          | <u>\$ 4,144</u>  |
|                            |            | <b>SUBTOTAL</b> | <b>\$ 33,156</b> |

DIRECT EXPENSES

| Reimbursables               | Units | Qty | Cost/Unit       | Cost          |
|-----------------------------|-------|-----|-----------------|---------------|
| Project Management Expenses |       |     |                 |               |
| Mileage                     | Miles | 684 | \$ 0.700        | \$ 479        |
| Postage                     | Each  |     | \$ 25.00        | \$ -          |
| Courier                     | Each  |     | \$ 50.00        | \$ -          |
| Miscellaneous               | Est   |     | \$ 500.00       | \$ -          |
|                             |       |     | <b>SUBTOTAL</b> | <b>\$ 479</b> |

AQUA TERRA SUBTOTAL

**SUBTOTAL \$ 33,634**

## Aqua Terra Supplement 2

| Classification                                 |                                                                                          | PM/PI    | Sr Archaeologist<br>Built | Lead Project<br>Archaeologist | Project<br>Archaeologist | Cultural<br>Resource Spec | HOURS     | COST      |
|------------------------------------------------|------------------------------------------------------------------------------------------|----------|---------------------------|-------------------------------|--------------------------|---------------------------|-----------|-----------|
| Reynolds/Harrison Improvement Project          |                                                                                          |          |                           |                               |                          |                           |           |           |
|                                                |                                                                                          | \$ 67.31 | \$ 40.00                  | \$ 30.00                      | \$ 28.00                 | \$ 25.00                  |           |           |
| Scope Description                              |                                                                                          |          |                           |                               |                          |                           |           |           |
| Task 1 - Project Management and Administration |                                                                                          |          |                           |                               |                          |                           |           |           |
| 1.1                                            | Project Meetings                                                                         |          |                           |                               |                          |                           |           |           |
| 1.1.1                                          | General Project Administration (PM 4 hrs/wk)                                             |          |                           |                               |                          |                           | 0         |           |
| 1.1.2                                          | Meetings with Lewis County/Project Partners (mtg + 1 hr prep)                            |          |                           |                               |                          |                           | 0         |           |
| 1.1.3                                          | Consultant Team Meeting and Coordination                                                 |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 1.2                                            | Progress Schedule and Updates                                                            |          |                           |                               |                          |                           |           |           |
|                                                | Restart Schedule                                                                         |          |                           |                               |                          |                           | 0         |           |
|                                                | Monthly Schedule Updates (5)                                                             |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 1.3                                            | Progress Reporting and Invoicing                                                         |          |                           |                               |                          |                           |           |           |
|                                                | Monthly Progress Reports (3)                                                             |          |                           |                               |                          |                           | 0         |           |
|                                                | Monthly Invoices (3)                                                                     |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 1.4                                            | Project Management Plan                                                                  |          |                           |                               |                          |                           |           |           |
|                                                | Project Management Plan Updates (1 added)                                                |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 1.5                                            | Project Kickoff Meeting                                                                  |          |                           |                               |                          |                           |           |           |
|                                                | Second Project Kickoff Meeting Prep/Summary                                              |          |                           |                               |                          |                           | 0         |           |
|                                                | Remobilization                                                                           |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK HOURS                                                                               | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK COST                                                                                | \$ -     | \$ -                      | \$ -                          | \$ -                     | \$ -                      | \$ -      | \$ -      |
| Task 2 - Public Involvement                    |                                                                                          |          |                           |                               |                          |                           |           |           |
| Task 3 - Data Collection                       |                                                                                          |          |                           |                               |                          |                           |           |           |
| Task 4 - Survey                                |                                                                                          |          |                           |                               |                          |                           |           |           |
| 4.6                                            | Office Processing and Deliverables                                                       |          |                           |                               |                          |                           |           |           |
|                                                | 107 Right-of-Way Exhibits                                                                |          |                           |                               |                          |                           | 0         |           |
|                                                | 107 Legal Descriptions                                                                   |          |                           |                               |                          |                           | 0         |           |
|                                                | 25 Temporary Construction Easements                                                      |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK HOURS                                                                               | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK COST                                                                                | \$ -     | \$ -                      | \$ -                          | \$ -                     | \$ -                      | \$ -      | \$ -      |
| Task 5 - Environmental Services                |                                                                                          |          |                           |                               |                          |                           |           |           |
| 5.8                                            | NEPA Categorical Exclusion                                                               |          |                           |                               |                          |                           |           |           |
|                                                | Draft and Final NEPA CE Checklist and EJ Memorandum                                      |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 5.9                                            | Supplemental Wetland Fieldwork and Report Update                                         |          |                           |                               |                          |                           |           |           |
|                                                | Draft and Final Wetland Delineation Amended Report                                       |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 5.10                                           | Supplemental Cultural Resource Services                                                  |          |                           |                               |                          |                           |           |           |
|                                                | Supplemental Cultural Resource Services                                                  | 93       | 50                        | 8                             | 105                      | 95                        | 0         |           |
|                                                | Subtotal                                                                                 | 93       | 50                        | 8                             | 105                      | 95                        | 0 \$      | 13,815    |
| 5.11                                           | Environmental Site Assessment                                                            |          |                           |                               |                          |                           |           |           |
|                                                | Draft Phase II ESA Report                                                                |          |                           |                               |                          |                           | 0         |           |
|                                                | Final Phase II ESA Report                                                                |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK HOURS                                                                               | 93       | 50                        | 8                             | 105                      | 95                        | 0 \$      | 13,815    |
|                                                | TASK COST                                                                                | \$ 6,260 | \$ 2,000                  | \$ 240                        | \$ 2,940                 | \$ 2,375                  | \$ 13,815 | \$ 13,815 |
| Task 6 - Geotechnical                          |                                                                                          |          |                           |                               |                          |                           |           |           |
| Task 7 - Traffic                               |                                                                                          |          |                           |                               |                          |                           |           |           |
| 7.2                                            | Traffic Analysis                                                                         |          |                           |                               |                          |                           |           |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 7.5                                            | Traffic Design                                                                           |          |                           |                               |                          |                           |           |           |
|                                                | Draft and Final Illumination Memo with Light Level Exhibits                              |          |                           |                               |                          |                           | 0         |           |
|                                                | 60%, 90%, and Ad-Ready Signing and Striping Plans (PDF format)                           |          |                           |                               |                          |                           | 0         |           |
|                                                | 60%, 90%, and Ad-Ready Traffic Signal Plans (PDF format)                                 |          |                           |                               |                          |                           | 0         |           |
|                                                | 60%, 90%, and Ad-Ready Illumination Plans, Estimate, and Special Provisions (PDF format) |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
|                                                | TASK HOURS                                                                               | 0        | 0                         | 0                             | 0                        | 0                         | 0         |           |
|                                                | TASK COST                                                                                | \$ -     | \$ -                      | \$ -                          | \$ -                     | \$ -                      | \$ -      | \$ -      |
| Task 8 - Roadway                               |                                                                                          |          |                           |                               |                          |                           |           |           |
| 8.4                                            | Construction Staging and MOT                                                             |          |                           |                               |                          |                           |           |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |
| 8.6                                            | Right-of-Way Plan Development                                                            |          |                           |                               |                          |                           |           |           |
| 8.6.2                                          | Right-of-Way Plans                                                                       |          |                           |                               |                          |                           |           |           |
|                                                | Draft ROW Plans                                                                          |          |                           |                               |                          |                           | 0         |           |
|                                                | Final ROW Plans                                                                          |          |                           |                               |                          |                           | 0         |           |
|                                                | ROW Plan Revisions                                                                       |          |                           |                               |                          |                           | 0         |           |
|                                                | Subtotal                                                                                 | 0        | 0                         | 0                             | 0                        | 0                         | 0 \$      | -         |

[illegible]

|                                           |                                                                                    |          |          |        |          |          |           |      |           |             |           |
|-------------------------------------------|------------------------------------------------------------------------------------|----------|----------|--------|----------|----------|-----------|------|-----------|-------------|-----------|
|                                           | Estimate Compilation                                                               |          |          |        |          |          |           |      |           | 0<br>0 \$ - |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 13.5                                      | 90% PS&E                                                                           |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Plan sheet compilation                                                             |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Specifications Compilation                                                         |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Estimate Compilation                                                               |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
|                                           | TASK HOURS                                                                         |          | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        | \$ -      |
|                                           | TASK COST                                                                          | \$ -     | \$ -     | \$ -   | \$ -     | \$ -     | \$ -      | \$ - | \$ -      |             |           |
| Task 14 - Right-of-Way                    |                                                                                    |          |          |        |          |          |           |      |           |             |           |
| 14.1                                      | Task Management                                                                    |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Monthly Right-of-Way Status Reports                                                |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Meeting Agendas and Summaries                                                      |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.2                                      | Pre-Acquisition and Data Management                                                |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Documentation of Early Landowner Contact Meetings                                  |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Right of Entry Documents and Signed Agreements                                     |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.3                                      | Relocation Plan (Optional)                                                         |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.4                                      | Preliminary and Final Project Funding Estimates and Administrative Offer Summaries |          |          |        |          |          |           |      |           | 0           |           |
|                                           | RFE Spreadsheets and Worksheets                                                    |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.5                                      | Appraisal, Appraisal Review and Appraisal Management                               |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Appraisal Delivery Schedule                                                        |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Valuation Schedule                                                                 |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Administrative Offer Summary Reports                                               |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Landowner Contact Letters                                                          |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Appraisal Reports                                                                  |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Appraisal Reviews                                                                  |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.6                                      | ROW Acquisitions and Negotiations                                                  |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Acquisition Schedules                                                              |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Title Encumbrance Reports                                                          |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Completed Acquisition Documents                                                    |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Redline QC of Legal Descriptions, Survey Exhibits, and R/W Plans                   |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Administrative Settlement Memos                                                    |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Completed Acquisitions or Condemnation Packages                                    |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Completed Acquisition Files                                                        |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.7                                      | Relocation Services (Optional)                                                     |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.8                                      | Property Management (Optional)                                                     |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
| 14.9                                      | Prepare ROW Certification Package                                                  |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Certification Files                                                                |          |          |        |          |          |           |      |           | 0           |           |
|                                           | Final Certification Memo(s)                                                        |          |          |        |          |          |           |      |           | 0           |           |
|                                           |                                                                                    | Subtotal | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        |           |
|                                           | TASK HOURS                                                                         |          | 0        | 0      | 0        | 0        | 0         | 0    | 0         | \$ -        | \$ -      |
|                                           | TASK COST                                                                          | \$ -     | \$ -     | \$ -   | \$ -     | \$ -     | \$ -      | \$ - | \$ -      |             |           |
| Task 15 - Construction Management Support |                                                                                    |          |          |        |          |          |           |      |           |             |           |
| Task 16 - Grant Funding Preparation       |                                                                                    |          |          |        |          |          |           |      |           |             |           |
|                                           | TOTAL HOURS                                                                        |          | 93       | 50     | 8        | 105      | 95        | 0    | \$ 13,815 |             | \$ 13,815 |
|                                           | TOTAL COST                                                                         | \$ 6,260 | \$ 2,000 | \$ 240 | \$ 2,940 | \$ 2,375 | \$ 13,815 |      |           |             |           |

Analysis of Costs - Atlas

DIRECT SALARY COST (DSC)

| Personnel                  | Hours | Pay Rate | Cost                 |
|----------------------------|-------|----------|----------------------|
| PM/PI                      |       | \$ 67.31 | \$ -                 |
| Sr Archaeologist - Built   |       | \$ 40.00 | \$ -                 |
| Lead Project Archaeologist |       | \$ 30.00 | \$ -                 |
| Project Archaeologist      |       | \$ 28.00 | \$ -                 |
| Cultural Resource Spec     |       | \$ 25.00 | \$ -                 |
| Direct Salary Cost Total   | -     |          | \$ -                 |
| Salary Escalation          |       |          |                      |
| Overhead Cost              | 139%  | of DSC   | \$ -                 |
| Net Fee                    | 30%   | of DSC   | \$ -                 |
|                            |       |          | <b>SUBTOTAL \$ -</b> |

DIRECT EXPENSES

| Reimbursables               | Units | Qty | Cost/Unit            | Cost |
|-----------------------------|-------|-----|----------------------|------|
| Project Management Expenses |       |     |                      |      |
| Mileage                     | Miles |     | \$ 0.700             | \$ - |
| Postage                     | Each  |     | \$ 25.00             | \$ - |
| Courier                     | Each  |     | \$ 50.00             | \$ - |
| Miscellaneous               | Est   |     | \$ 500.00            | \$ - |
|                             |       |     | <b>SUBTOTAL \$ -</b> |      |

ATLAS SUBTOTAL

**SUBTOTAL \$ -**

### Analysis of Costs - HDR

#### Labor Cost

| Staff Name                       | Title                   | Hours | Blended Escalated Billing Rate | Cost         |
|----------------------------------|-------------------------|-------|--------------------------------|--------------|
| Johnson, Ty M                    | Project Manager         | 82    | \$ 281.96                      | \$ 23,120.69 |
| Kuhns, David W Jr.               | Project Engineer        | 98    | \$ 209.89                      | \$ 20,568.84 |
| Starling, Jonathan M (Michael)   | Utilities               | 0     | \$ 262.63                      | \$ -         |
| Roderick, Andy P                 | Real Estate             | 196   | \$ 250.93                      | \$ 49,182.77 |
| Pauly, Sarah C                   | Real Estate             | 506   | \$ 144.57                      | \$ 73,151.08 |
| Pfiester, Ben A                  | Real Estate             | 40    | \$ 129.96                      | \$ 5,198.35  |
| Elder, Bailie Dawn               | Real Estate             | 400   | \$ 121.17                      | \$ 48,467.07 |
| Gould, Paul F                    | Real Estate             | 121   | \$ 208.08                      | \$ 25,177.22 |
| Cooper, Tracy A                  | Real Estate Agent       | 15    | \$ 199.96                      | \$ 2,999.46  |
| Cisakowski, David                | Project Engineer        | 27    | \$ 216.16                      | \$ 5,836.22  |
| Acevedo, Robert C                | Sr. Traffic Engineer    | 58    | \$ 307.20                      | \$ 17,817.69 |
| Willis, Lynn K                   | Real Estate Agent       | 44    | \$ 170.58                      | \$ 7,505.74  |
| Draheim, Daniel P (Dan)          | Tech Editor             | 8     | \$ 152.84                      | \$ 1,222.73  |
| Raclawski, Matthew R             | Project Controller      | 37    | \$ 185.68                      | \$ 6,870.10  |
| Johnson, Michelle Kathy          | Project Assistant       | 2     | \$ 129.93                      | \$ 259.85    |
| Shrock, Katie Lynn               | Real Estate Agent       | 908   | \$ 106.66                      | \$ 96,843.65 |
| Wens, Roger M (Rocky)            | CAD                     | 36    | \$ 209.67                      | \$ 7,548.12  |
| Archer, Matthew A                | Sr. Traffic Engineer    | 90    | \$ 219.87                      | \$ 19,788.57 |
| Bush, Jaelen Alexander           | EIT                     | 82    | \$ 137.91                      | \$ 11,308.57 |
| Gibbs, Troy M                    | Sr. Project Engineer QC | 0     | \$ 227.99                      | \$ -         |
| Hansen, Jeffrey M                | Hydraulic QC            | 0     | \$ 310.01                      | \$ -         |
| Hijazi, Mohammad H               | Structural QC           | 24    | \$ 338.28                      | \$ 8,118.72  |
| Dolquist, Risa Chuman            | Records Coordinator     | 0     | \$ 166.25                      | \$ -         |
| Hewitt, Chad M                   | QC                      | 7     | \$ 299.64                      | \$ 2,097.47  |
| Baker, Chad E                    | Sr. Traffic Engineer    | 16    | \$ 364.31                      | \$ 5,828.98  |
| Lee, Kali Ae-Jin                 | Waste Water EIT         | 0     | \$ 132.16                      | \$ -         |
| Kendall, Dennis J Jr             | BIM Specialist          | 184   | \$ 178.15                      | \$ 32,779.20 |
| Celis, Marlene                   | Rail EIT                | 30    | \$ 126.47                      | \$ 3,794.04  |
| Pi, Jake Sung Joon               | Sr. Traffic Engineer    | 196   | \$ 227.27                      | \$ 44,545.75 |
| Dexheimer, Jessica Jeanne (Jess) | EIT                     | 192   | \$ 128.92                      | \$ 24,753.50 |
| Schmidt, Adam Michael            | BIM Specialist          | 21    | \$ 178.05                      | \$ 3,739.07  |
| Skadorwa, Tatiana                | Project Engineer        | 22    | \$ 179.93                      | \$ 3,958.36  |
| Burk, Natalie Grace              | Water EIT               | 72    | \$ 116.35                      | \$ 8,377.34  |
| Rhodes, James G (Jim)            | Sr. Engineer            | 8     | \$ 268.09                      | \$ 2,144.76  |
| Liu, Yiwen (Jenny)               | Civil Coordinator       | 152   | \$ 107.69                      | \$ 16,368.92 |
| Napiorkowski, Tomasz W (Tom)     | Traffic Designer        | 16    | \$ 182.62                      | \$ 2,921.92  |
| Koch, John E                     | QC                      | 8     | \$ 350.59                      | \$ 2,804.72  |
| Wang, Bangyu (Bruce)             | Traffic Engineer        | 78    | \$ 149.06                      | \$ 11,626.68 |
| Wang, Zhuojin                    | Sr. Traffic Engineer    | 98    | \$ 223.94                      | \$ 21,946.12 |
| Rastogi, Astha                   | Structural EIT          | 32    | \$ 173.77                      | \$ 5,560.64  |

|                         |             |           |                |
|-------------------------|-------------|-----------|----------------|
| <b>Labor Cost Total</b> | <b>3906</b> | <b>\$</b> | <b>624,233</b> |
|-------------------------|-------------|-----------|----------------|

#### Escalation for Task in Original Scope

|                                                |    |          |
|------------------------------------------------|----|----------|
| Task 1 - Project Management and Administration | \$ | 4,155.08 |
| Task 5 - Environmental Services                | \$ | 696.68   |
| Task 7 - Traffic                               | \$ | 3,106.35 |

|                                               |           |                  |
|-----------------------------------------------|-----------|------------------|
| Task 9 - Storm Drainage                       | \$        | 8,401.17         |
| Task 10 - Utilities                           | \$        | 9,937.45         |
| Task 13 - Plans, Specifications and Estimates | \$        | 479.59           |
| <b>Escalation Cost Total</b>                  | <b>\$</b> | <b>26,776.30</b> |

SUBTOTAL \$ 651,009

DIRECT EXPENSES

| Reimbursables           | Units   | Cost/Unit       | Cost                 |
|-------------------------|---------|-----------------|----------------------|
| Permitting Fee (T10.1)  | 1 \$    | 1,750.00        | \$ 1,750.00          |
| Mileage (T10.1)         | 480 \$  | 0.70            | \$ 336.00            |
| CBRE (T14)              |         |                 | \$ 120,000.00        |
| Duncan Associates (T14) |         |                 | \$ 11,000.00         |
| Mileage (T14)           | 958 \$  | 0.70            | \$ 670.60            |
| Printing B&W (T14)      | 1800 \$ | 0.05            | \$ 90.00             |
| Printing Color (T14)    | 250 \$  | 0.45            | \$ 112.50            |
| Mailing                 | 25      | 25              | \$ 625.00            |
|                         |         | <b>SUBTOTAL</b> | <b>\$ 134,584.10</b> |

HDR TOTAL

TOTAL \$ 785,593

|     |                |              |                 |                     |                  |                                |           |                  |             |                |             |                 |             |                    |             |               |             |                 |                   |                   |                  |                    |                      |                |                   |                         |             |                      |                    |                        |                   |                    |                   |                       |     |                   |                      |                        |    |
|-----|----------------|--------------|-----------------|---------------------|------------------|--------------------------------|-----------|------------------|-------------|----------------|-------------|-----------------|-------------|--------------------|-------------|---------------|-------------|-----------------|-------------------|-------------------|------------------|--------------------|----------------------|----------------|-------------------|-------------------------|-------------|----------------------|--------------------|------------------------|-------------------|--------------------|-------------------|-----------------------|-----|-------------------|----------------------|------------------------|----|
| HDR | Classification | Johnson, T.M | Project Manager | Kubisa, David W Jr. | Project Engineer | Stallins, Jonathan M (Michael) | Utilities | Roaricka, Arny P | Real Estate | Pauls, Sarah C | Real Estate | Pflester, Ben A | Real Estate | Eller, Dallas Dawn | Real Estate | Gould, Paul F | Real Estate | Cooper, Tracy A | Real Estate Agent | Chickowski, David | Project Engineer | Acersawo, Robert C | Sr. Traffic Engineer | Willis, Lynn K | Real Estate Agent | Drelich, Daniel P (Dan) | Text Editor | Radzinski, Matthew R | Project Controller | Johnson, Michele Kathy | Project Assistant | Shrock, Katie Lynn | Real Estate Agent | Wynn, Roger M (Rocky) | DAO | Archer, Matthew A | Sr. Traffic Engineer | Guth, Joleen Annalaine | ET |
|-----|----------------|--------------|-----------------|---------------------|------------------|--------------------------------|-----------|------------------|-------------|----------------|-------------|-----------------|-------------|--------------------|-------------|---------------|-------------|-----------------|-------------------|-------------------|------------------|--------------------|----------------------|----------------|-------------------|-------------------------|-------------|----------------------|--------------------|------------------------|-------------------|--------------------|-------------------|-----------------------|-----|-------------------|----------------------|------------------------|----|

| Billing Rate                                                       |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
|--------------------------------------------------------------------|------------|-------------|----------|------------|----------|----------|----------|----------|----------|------------|----------|----------|------------|------------|----------|----------|------------|----------|-------------|
| Scope Description                                                  | \$281.96   | \$209.89    | \$262.63 | \$250.93   | \$144.57 | \$129.96 | \$121.17 | \$208.08 | \$199.96 | \$216.16   | \$507.20 | \$170.58 | \$152.84   | \$185.68   | \$129.93 | \$106.66 | \$209.67   | \$219.87 | \$137.91    |
| Task 1 - Project Management and Administration                     |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| 1.1 Consultant Team Meetings (1 per week, 6 months, 1 hr)          | 6          | 6           | 0        | 6          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0          | 0          | 0        | 0        | 0          | 0        | 0           |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| 1.3 Progress Reporting and Invoicing                               | 6          |             |          |            |          |          |          |          |          |            |          |          |            | 6          |          |          |            |          |             |
| Monthly Progress Reports (6)                                       | 12         |             |          |            |          |          |          |          |          |            |          |          |            | 12         |          |          |            |          |             |
| Project Coord (2 hrs for 6 months)                                 | 9          |             |          |            |          |          |          |          |          |            |          |          |            | 9          |          |          |            |          |             |
| Monthly Invoices (6)                                               | 27         |             |          |            |          |          |          |          |          |            |          |          |            | 27         |          |          |            |          |             |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Task 7 - Traffic                                                   |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Pavement Markings/Channelization Design                            | 33         | 0           | 0        | 6          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0          | 27         | 0        | 0        | 0          | 0        | 0           |
| Sterline Design                                                    | \$9,304.67 | \$0.00      | \$0.00   | \$1,505.59 | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$0.00     | \$0.00   | \$0.00   | \$0.00     | \$5,013.32 | \$0.00   | \$0.00   | \$0.00     | \$0.00   | \$0.00      |
| Illumination Design                                                |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Sandra RAB                                                         |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| RR Queue/Traffic Study                                             |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Task 9 - Storm Drainage                                            |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Storm Drainage Design RAB                                          | 2          | 4           |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Stormwater Analysis                                                |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Coordination with Geotech (Sub to WSP)                             |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Review Geotechnical Findings                                       |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Preliminary sizing for water quality and flow control facilities   |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Prepare DRAFT and Final Conceptual Stormwater Technical Memorandum |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| QA/QC                                                              | 0          | 0           | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0          | 0          | 0        | 0        | 0          | 0        | 0           |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| TESC Plans                                                         | 16         | 20          |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          | 40          |
| 60, 90, and Ad Ready TESC Plans (Total of 20 Sheets)               | 16         | 20          | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0          | 0          | 0        | 0        | 0          | 0        | 40          |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Tributary Drainage Design (Offsite)                                |            |             |          |            |          |          |          |          |          | 12         |          |          |            |            |          |          |            |          |             |
| 9.4.1 Basin Delineation/Characteristics                            |            |             |          |            |          |          |          |          |          | 14         |          |          |            |            |          |          |            |          |             |
| 9.4.2 Contributing Area Modeling                                   |            |             |          |            |          |          |          |          |          | 1          |          |          |            |            |          |          |            |          |             |
| 9.4.3 Overlay and FINAL Technical Memorandum                       | 4          | 8           |          |            |          |          |          |          |          |            |          |          | 4          | 0          | 0        | 0        | 0          | 0        | 0           |
| 9.4.4 QA/QC                                                        | 4          | 8           | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 27         | 0        | 0        | 4          | 0          | 0        | 0        | 0          | 0        | 0           |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Stormwater Pump Station                                            | 11         | 66          |          |            |          |          |          |          |          |            |          |          | 4          |            | 0        |          | 36         | 42       |             |
| Task 10 - Utilities                                                |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Utility Coordination                                               | 33         | 98          | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 27         | 0        | 0        | 8          | 0          | 0        | 0        | 36         | 0        | 82          |
| Total Fee                                                          | \$9,304.67 | \$20,568.84 | \$0.00   | \$0.00     | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$5,836.22 | \$0.00   | \$0.00   | \$1,222.73 | \$0.00     | \$0.00   | \$0.00   | \$7,546.12 | \$0.00   | \$11,308.57 |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Utility Design                                                     | 0          | 0           | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0          | 0          | 0        | 0        | 0          | 0        | 0           |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Railroad Design and Coordination                                   | 6          |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| 10.4.1 Railroad Coordination                                       |            |             |          |            |          |          |          |          |          |            |          |          |            |            | 2        |          |            | 66       |             |
| 10.4.2 Railroad Signal Design                                      |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            | 24       |             |
| 10.4.3 Railroad ROW Support                                        |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |
| Subtotal                                                           |            |             |          |            |          |          |          |          |          |            |          |          |            |            |          |          |            |          |             |





[illegible]