



Members: Councilmembers Cindi Hochstatter (chair), Curt Brown, Charla Neuman

Staff Liaison: Mike Dahlem, Andrew Leach, Jason Van Gilder, Michael Kosa, Robert Wright, Andria Swann, Kelsey White

City Hall remains closed during Governor Inslee’s “Safe Start” order, a consequence of the Covid-19 pandemic. The public is invited to attend the meeting telephonically using the call-in instructions below, or join the meeting via the link below.

<https://sumnerwa-gov.zoom.us/j/88333056435>

Meeting ID: 883 3305 6435

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Committee Business

1. Stewart Road Final Design - Consultant Supplement
2. Stormwater CIP Update

Project Management Report

Adjournment

SUBJECT: Stewart Road Final Design - Consultant Supplement

CATEGORY: Consent

BUDGET IMPACT: 21/22 Budgeted amount 2,512,000. It is unexpected that this agreement will be fully expended by December 2022.

ATTACHMENTS:

- 1. Supplement No. 8 - Design Phase 2**

STAFF CONTACT: Michael Kosa, Associate City Engineer, Mike Dahlem, Public Works Director

SUMMARY BACKGROUND:

The Stewart Road corridor provides an important transportation link between West Valley Highway, East Valley Highway, and SR 167 from Auburn, Pacific, Bonney Lake, Pierce County, and Sumner.

The existing bridge over the White River is considered “functionally obsolete” and is operating at overcapacity due to the increasing traffic volumes using this corridor. Replacing this bridge is vital to providing the transportation infrastructure for development of the Sumner/Pacific Manufacturing Industrial Area.

WSP’s existing scope covers preliminary design, environmental, and right-of-way acquisition services. This supplement expands WSP’s scope to complete final project design and complete 100% ready-to-advertise design drawings for the project. The final design of this project will be completed using a combination of federal funding and local funds from transportation impact fees.

WSP USA, Inc (formerly BergerABAM Engineering Inc.) was previously selected to provide consulting services for this project through a qualification-based selection process. A cost-plus-fixed-fee agreement with a maximum amount payable of an additional \$2,666,930 was negotiated for the final design phase of this project.

COUNCIL COMMITTEE/STUDY SESSION:

PRIOR COUNCIL REVIEW: Public Works Committee

MEETING DATE: 1/5/2021

COMMITTEE RECOMMENDATION: Do-Pass

STAFF RECOMMENDATIONS/MOTION:

A motion authorizing the Mayor to execute a Consultant Services Agreement Supplement with WSP USA, Inc. for CIP 13-08, Stewart Road Bridge Replacement, in an additional amount not to exceed \$2,666,930, substantially in a form as approved by the City Attorney.



**Washington State
Department of Transportation**

Supplemental Agreement Number _____		Organization and Address	
Original Agreement Number			
Project Number		Phone:	
Project Title		Execution Date	Completion Date
		New Maximum Amount Payable	
Description of Work			

The Local Agency of _____
desires to supplement the agreement entered in to with _____
and executed on _____ and identified as Agreement No. _____
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:

II

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

III

Section V, PAYMENT, shall be amended as follows:

~~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: _____ By: _____

Paula J. Carter

Consultant Signature

Approving Authority Signature

Date

**EXHIBIT A
SCOPE OF WORK FOR ENGINEERING SERVICES FOR
STEWART ROAD BRIDGE PROJECT – PHASE 2 – PS&E
SUPPLEMENT NO. 8**

This amendment supplements the scope of work in the original contract.

PROJECT BACKGROUND AND OBJECTIVES

The Stewart Road Bridge project is part of the City of Sumner's Transportation Improvement Plan. Stewart Road had previously been improved east of the bridge. The City of Pacific is pending construction of the final segment west of the bridge. This project will extend the roadway improvements from 140th Avenue Court East to Butte Avenue on the west side of the bridge. Engineering for the project will be accomplished in three phases.

FIELD INVESTIGATIONS AND PRELIMINARY DESIGN – PHASE 1

This initial phase will include field investigations, preliminary engineering, and a bridge study. The study is intended to determine the type of bridge structure that will be constructed, the probable method of constructing it, and the anticipated cost of the project. Phase 1 included the evaluation of right-of-way (ROW) needs, coordination with Washington State Department of Transportation (WSDOT), and initial acquisitions. This phase has also included environmental documentation to support the biological assessment required by WSDOT and efforts to get NEPA approved and start the permitting process. Based on coordination with stakeholders, impacts to the White River, impacts from the City of Pacific project, local business development, and changes in ROW process since the Phase 1 scope of work was developed, there are some of these tasks that need to be supplemented in Phase 2.

CONSTRUCTION CONTRACT DOCUMENTS – PHASE 2 PS&E

Phase 2 is outlined herein as the scope of work for completion of the design and preparation of construction plans, specifications, and cost estimate (PS&E) documents.

CONSTRUCTION SERVICES – PHASE 3

The scope for construction engineering, construction administration, and inspection services during the construction of the project is not included in the following scope of work and fee estimate but will be provided as supplemental services after the completion of Phase 2.

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STEWART ROAD BRIDGE PROJECT**

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CONSTRUCTION CONTRACT DOCUMENTS – PHASE 2 DESIGN

The work will be accomplished by supplementing and adding new tasks to the Phase 1 scope of work.

The following detailed task descriptions define the scope of work (and associated engineering fee estimate) for the authorized tasks addressing Construction Contract Documents – Phase 2 of the project.

PHASE 2

Task 1.0	Project Management – Design – Supplement
Task 2.0	Survey and Base Mapping (Knudsen-Beyler) – Supplement
Task 3.0	Geotechnical Engineering (PanGEO) – Supplement
Task 4.0	Bridge Hydraulic Services (West) – Supplement
Task 5.0	Bridge Study – Closed
Task 6.0	Preliminary Roadway Layout – Closed
Task 7.0	Environmental Documentation and Permitting (Widener) – Supplement
Task 8.0	Environmental Review – Supplement
Task 9.0	Traffic Signal Warrant Analysis – Closed
Task 10.0	Right-of-Way Support Services (USF) – Closed
Task 11.0	Utility Coordination – Supplement
Task 12.0	Constructability Review (Ott-Sakai) – Supplement
Task 13.0	Directed Services – New
Task 14.0	Roadway Design – New
Task 15.0	Drainage and Storm Design – New
Task 16.0	Walls and Ground Improvements – New
Task 17.0	Levee Design – New
Task 18.0	Bridge Design – New
Task 19.0	Lighting and Interconnect (DKS) – New
Task 20.0	Traffic Control & Signing – New
Task 21.0	TESC – New
Task 22.0	Waterline Design – New
Task 23.0	Public Interest Findings Support – New
Task 24.0	Contract Specifications – New
Task 25.0	Construction Cost Estimate – New
Task 26.0	Construction Schedule – New
Task 27.0	Project AD & Award Services – Reserved
Task 300	Project Management (Right-of-Way) – Supplement
Task 310	Right-Of-Way Acquisition and Relocation Services (Tierra) - Supplement

The level of effort associated with providing these services is shown in Exhibits D and E. The estimated level of effort is based upon the assumptions and task descriptions provided below. Efforts to complete these tasks can vary from the effort assumed for the preparation of the level of effort shown in Exhibits D and E. Some budget items may cost more, and others may cost less. The included fee estimate is an estimate of how we expect to allocate our time. CONSULTANT reserves the right to move time between tasks as needed to accomplish the overall goals of the project.

Work on subsequent tasks for Construction Services – Phase 3 will be authorized by additional amendments under this agreement.

GENERAL PROJECT ASSUMPTIONS/CRITERIA – PHASE 2 DESIGN

The following list is included to confirm the understanding between the City of Sumner (CITY) and WSP (CONSULTANT) and will be used to guide the work. Assumptions provided in previous scope of work descriptions still apply, unless supplemented herein.

The bridge selected in the bridge study will be used in this effort, and the additional changes to accommodate future lengthening of the bridge will be incorporated.

The CONSULTANT will hire a private utility location firm to locate all franchise utilities. It is assumed that the CITY will locate all city utilities, such as water, sewer, and storm lines. Locations of these utilities will be added to the design base map.

The CONSULTANT will prepare a utility pothole plan and coordinate with private utility companies to determine where potholes are required. Potholing will be performed by an outside service (Applied Professional Services, Inc.).

Applied Professional Services (APS) will be a supplier to verify the utility locates, performed by WSP, and provide potholing services for up to 25 locations.

Puget Sound Energy (PSE) will provide utility locates for all PSE facilities.

Design of franchised utility relocations is not included, except the CITY's water line.

Irrigation will only be required for the grass/planting strip between the shared use path and the roadway on the north side of Stewart Road between Valentine and Butte.

The environmental process is currently working through the biological assessment (BA) approval with the agencies and development of an updated hydraulic discipline report. All other discipline reports have been submitted and accepted by WSDOT.

The project has been classified as a Documented Categorical Exclusion (DCE).

The left-bank levee will be extended beyond the bridge in this project. The grade for the levee used for the preliminary bridge design was based on the King County 60 percent design. These elevations need to be verified and the survey of the newly constructed levee is required before the final grading of the roadway on the east side can be tied in.

City will request as-built levee plans from King County.

The WSDOT Bridge Design Manual requires 3 feet of vertical clearance between the finished grade (top of levee) and the bottom of girder to improve inspection access. To limit impacts to the 140th Street Court East intersection, it is assumed that only 6 inches of clearance will be provided above the top of levee to the abutment seat (approximately 1 foot of clearance to the bottom of girder). Inspection of the girder can be accomplished from between the girders.

The Pierce County right-bank levee project is in the planning phase. It is assumed that Pierce County will incorporate their project into the bridge and roadway geometry developed in this scope of work. Changes required to incorporate the right-bank levee into this project are not included in this scope of work, because they are undefined at this point.

The design will be performed in AutoCAD Version 2018.

TASK 1.0 – PROJECT MANAGEMENT – DESIGN – SUPPLEMENT

This additional scope of work supplements the original scope of work in Phase 1.

Subtask 1.1 Project Coordination

The CONSULTANT shall provide project management and communications between the CONSULTANT team and the CITY (assumed duration is 24 months with an advertisement date in January 2023).

The CONSULTANT shall perform project administration and management tasks as follows.

1. Prepare and submit monthly invoices, including a tabulation of hours expended, broken down by each major task for 24 months.
2. Prepare monthly progress reports summarizing the status of the budget
3. Prepare and update project schedule periodically as circumstances require or as requested by the CITY. For estimating purposes, it is assumed this occurs quarterly for a total of eight (8) updates.
4. Prepare subconsultant agreements for seven (7) firms.
5. Perform ongoing subconsultant coordination. For estimating purposes, it is assumed four (4) hours per week on average will be spent coordinating with subconsultants.
6. Maintain all contract-required documentation, including yearly updates for insurance, billing rates, approved overhead rates, etc. for WSP and subconsultant firms.

Deliverable(s)

- Monthly progress report and invoice (one PDF copy)
- Updated project schedules, if required (one PDF copy)
- Updated contract forms and certifications, if required.

Subtask 1.2 Meetings and Coordination

Project Team Meetings. The CONSULTANT shall facilitate biweekly internal project team coordination meetings during Phase 2. A total of fifty-two (52) team meetings are anticipated over a period of two years. Meetings shall be approximately 1 hour in duration and shall be attended by an average of eight CONSULTANT team members, including three of the CONSULTANT's project management staff and three project engineering staff and up to two

other CONSULTANT discipline specialists for bridge design, geotechnical, hydraulics, etc., as required.

Coordination Meetings with CITY Staff. The CONSULTANT shall participate in weekly coordination meetings with CITY staff. A total of one hundred-four (104) CITY coordination meetings are anticipated over a period of two years. Meetings shall be approximately one hour in duration and shall be attended by an average of three CONSULTANT team members, including two of the CONSULTANT's project management team and/or project engineering staff and one other CONSULTANT discipline specialists.

Deliverable(s)

- None

Subtask 1.3 Interagency Coordination

The CONSULTANT shall provide assistance with Pierce County and the right-bank levee project. Up to four exhibits will be prepared over the course of these meetings to show alternatives for connecting this project into the Pierce County design. No CONSULTANT staff will attend meetings.

Deliverable(s)

- 4 Exhibits (roll-plot or PDF)

Subtask 1.4 Quality Assurance

The CONSULTANT shall provide quality assurance/quality control (QA/QC) for all design work in accordance with the CONSULTANT's QA/QC standards.

Deliverable(s)

- QA/QC documentation for all design work will be made available to the CITY upon request

Subtask 1.5 Project Demobilizations and Restarts [CONTINGENCY]

It is anticipated that the project will undergo two periods on inactivity during Phase 2 of the design to accommodate the expected permitting, ROW, and project funding timelines. The CONSULTANT will perform services needed to accomplish two demobilizations and two restarts of project activities, including possible transitions of project staff assigned and recordkeeping during the demobilization process to facilitate efficient restart of project activities.

Subtask 1.6 Practical Design Workshop w/ CITY

The CONSULTANT shall develop and conduct a practical design workshop with the City. The purpose of this workshop will include two (2) 15-minute presentations of current design requirements for the following categories:

- Civil (roadway) design
- Bridge design

The CONSULTANT will facilitate and answer questions for a one (1) hour brain-storming session with stakeholders (invited by the CITY) and CITY staff to identify potential alternatives of the design to consider. The CITY will identify up to three (3) alternative design considerations

to be evaluated by the CONSULTANT. The CONSULTANT will perform an evaluation of selected alternative design considerations and provide a recommendation to the City with justification for if those alternatives should be carried forward into the 60% design. The alternatives from the brainstorming session will be included in a memorandum, but recommendations will only be included in the memorandum for the CITY selected alternative design considerations. The CITY will review the recommendations and provide guidance on which alternatives to carried forward. The CITY decisions will be documented in the final memorandum.

Assumption(s)

1. The alternatives selected by the CITY to evaluate will take up to 3 days of engineering each to verify and check impacts and results.
7. No alternatives will alter bridge length, pier locations, or make the bridge wider.
8. No alternatives will affect the proposed river hydraulics.
9. Presentation will be in PowerPoint with PDF images to mark-up on the screen.
10. Meeting will be conducted via telecom and CONSULTANT staff will include PM, Deputy PM, Civil Lead, Bridge Lead, and two (2) technology specialist to facilitate the meeting. CITY will provide contact information to invite CITY staff and stakeholders.
11. CITY will provide decision on which alternative design considerations to carry forward within two (2) days.
12. CONSULTANT will provide draft memo within three (3) weeks from CITY request.
13. CITY will provide direction for which alternatives to carry forward within one (1) week.
14. CONSULTANT will provide final memorandum within two (2) weeks.

Deliverable(s)

- Workshop presentation (PowerPoint) and conduct workshop (via telecom)
- Draft Practical Design Memorandum (pdf)
- Final Practical Design Memorandum (pdf)

TASK 2.0 – SURVEY AND BASEMAPPING (KNUDSEN-BEYLER) – SUPPLEMENT

This additional scope of work supplements the original scope of work in Phase 1, Task 2 effort.

The CONSULTANT shall re-verify Project Survey Control Points, field survey note reduction, survey mapping of existing surface features, and drafting of survey map for each area with updated survey.

Image 1 shows the supplemental survey areas identified below.



Image 1 – Supplemental Survey Areas

Subtask 2.4 Utility Locate Services

The CONSULTANT will update utility locates along and between Butte Avenue and 140th Avenue Court East and 140th Avenue East. This task further includes survey of utility “pothole” location to verify location, elevation, size and material of those utilities potholed. This assumes a maximum of 25 “pothole” locations.

Subtask 2.5 Topographic Survey of River and Adjacent Roadway Embankments

The CONSULTANT will update the survey along the east bank (left bank) of the levee north of the bridge and edge of the river to the southeast side of the bridge for the additional outfall.

Subtask 2.6 Topographic Survey of Roadway Corridors

The CONSULTANT will update survey of the intersection of Stewart Road and Butte Avenue after the City of Pacific construction is complete.

Subtask 2.7 Creation of Design Files

A survey base map file will be updated in AutoCAD Civil 3D 2018 for the basis of final design.

Deliverable(s)

- An updated base map file, developed in AutoCAD Civil 3D 2018, will be the delivered product. This file will serve as the basis of this project’s design.

TASK 3.0 – GEOTECHNICAL ENGINEERING (PANGE) – SUPPLEMENT

PanGEO, Inc., under a subconsultant agreement with the CONSULTANT, will provide the following scope of geotechnical services. Permits and rights-of-entry provided by the CITY.

PanGEO shall provide geotechnical engineering services for the final design phase of the project. A final geotechnical report will be prepared under this phase of the project.

Based on the information available at the present time and our current understanding of the site surface and subsurface conditions, PanGEO shall supplement the draft geotechnical engineering report previously prepared to support development of the PS&E supplement, which includes the following subtasks.

Assumption(s)

1. The existing subsurface information for the bridge foundation design is enough to support final design and construction; no additional deep test borings will be drilled. Environmental and river flow conditions do not allow for drilling in the active channel at the location of the middle bridge pier.
2. Plans and geotechnical report(s) for the King County levee currently under construction will be obtained by the CITY and provided to the CONSULTANT team for review and incorporation of levee extension plans and specifications into the bridge project PS&E.
3. Due to the high groundwater table, no treatment for quantity of stormwater runoff by infiltration will be feasible. Therefore, geotechnical recommendations for stormwater management facilities will be limited to construction of outfall, vault, and/or pond liner considerations. No pilot infiltration testing will be performed.
4. Pavement design recommendations assume constructed subgrades (i.e., subgrade elevated above existing grades). Pavement design input, including design ESAL's, percentage(s) of truck traffic and growth factors to be provided by other members of the design team or the CITY. No pavement cores of the existing structural section will be obtained as part of this scope of work.
5. New signal foundations and luminaires will be within engineered fill or engineered retaining wall backfill.
6. Existing subsurface information obtained during the preliminary design phase of this project, together with subsurface information obtained for the City of Pacific's Stewart Road project will be sufficient to support design and construction of retaining walls and minor structure foundations west of the river crossing.
7. Foundation design recommendations for additional future spans to be added to the bridge to the currently proposed two-span layout are not part of this scope of work.
8. The scope of work does not include evaluation of chemical or hazardous material properties of soil and groundwater or the potential presence of wetlands on the site.

Subtask 3.1 Site Exploration and Engineering Analysis

PanGEO shall plan, prepare, and coordinate a supplemental field exploration program related to the following project elements. Work items will include the following.

1. Develop an exploration plan for review by the CITY. The exploration plan will note proposed boring locations, anticipated drilling depths, types of drilling equipment anticipated, and the need for traffic control.
2. Stake or mark boring locations in the field and contact One-Call for utility locate.
3. Drill up to six test borings for the following.
 - a. The alignment of the proposed retaining wall extension along 140th Avenue
 - b. A stormwater facility (location to be determined) on the east side of the river
 - c. Luminaire or signal pole foundations

These borings will be drilled to a maximum depth of 20 to 30 feet. Track-mounted and small, maneuverable drill rigs will likely be required to drill the borings, depending upon final location and site access. The borings will be completed during normal daylight working hours. An estimated two working days will be required to complete the borings, which may be completed on separate mobilizations depending on the required drilling equipment at each location.

4. Laboratory testing will be performed to determine certain index properties of the on-site soils, including moisture content, dry density, grain size distribution, and plasticity characteristics.

It is assumed that traffic control and flaggers will be needed in order to complete the borings. Right-of-entry and environmental permits, if required for access to drilling sites, are assumed to be obtained by the CITY. The CONSULTANT will provide graphics for boring locations.

Deliverable(s)

- An exploration plan for review by the CITY.
- A description of surface and subsurface conditions, and a site plan showing boring locations, boring logs, charts, and graphs indicating laboratory test results will be included in the geotechnical engineering report described below.

Subtask 3.2 Geotechnical Report

PanGEO will update the geotechnical report in which the results of the current field exploration program and prior explorations will be evaluated and used to prepare engineering analyses and recommendations pertaining to the following items. The geotechnical report will be prepared in general accordance with the WSDOT Geotechnical Design Manual and AASHTO LRFD Bridge Design requirements.

1. Update bridge foundation recommendations, including axial resistances for large-diameter shafts at the abutments.
2. Update bridge approach ground improvement design and construction recommendations, including special provisions, as necessary.

3. Recommendations for approach embankment and/or retaining wall design, including global stability evaluation, if needed. It is assumed a WSDOT Standard Plan retaining wall or a WSDOT-preapproved, proprietary structural earth (SE) wall system will be used at all locations except the southwest quadrant, which may be a modified pile-supported structure to limit construction impacts at this location.
4. Provide geotechnical engineering design and construction recommendations for extension of the levee from the north side of the bridge to the south side of the bridge at the eastern bridge abutment.
5. Provide geotechnical design and construction recommendations for a new stormwater facility and outfall located on the east side of the river, south of the bridge.
6. Recommendations for new signal pole and luminaire foundations.
7. Pavement design for the bridge approaches and adjoining streets based on traffic data to be provided by the CITY or CONSULTANT.
8. Constructability issues and concerns, including temporary work bridge foundations, coffer cell design and construction for existing pier removal, and other construction access issues.
9. Review of the plans and specifications at the 60 and 90 percent development stages.
10. Preparation of special provisions and/or advisory specifications to supplement the Bridge Special Provisions and the General Special Provision for SE retaining walls and drilled shafts, and for ground improvement, as needed.
11. Provide project management of the geotechnical tasks and attendance at design team meetings. It is assumed that not more than two meetings, in addition to the meetings identified in Task 1.2, will be required. In addition, the duration of the geotechnical-related services is anticipated to cover a period of approximately 30 months.

Deliverable(s)

- A draft geotechnical engineering report will be updated containing the results of the geotechnical study required to support preparation of the PS&E in PDF format will be provided.
- Three copies of a final geotechnical report will be provided incorporating responses to comments, as applicable. An electronic copy of the final geotechnical report in PDF format will also be provided.

TASK 4.0 – BRIDGE HYDRAULIC SERVICES (WEST)

This additional scope of work supplements the original scope of work in Phase 1, Task 4.

Subtask 4.1 – Update Hydraulic Report

WEST Consultants, Inc. (WEST) will update the hydraulic report to include the results from the most recent hydraulic modeling and bridge configuration.

Subtask 4.1.1 – Update Hydraulic Model of Proposed Stewart Road Bridge

WEST will obtain the bridge plans for the most recent Stewart Road bridge replacement alternative. WEST will incorporate the bridge geometry and the left levee extension into the most recently revised HEC-RAS 1D/2D hydraulic model. The hydraulic model has previously been updated by WEST for the CITY with 2018 bathymetry and LiDAR topographic data, which represent the most recent available channel and floodplain elevation data in the bridge reach.

Subtask 4.1.2 – Update Bridge Hydraulic Analysis

WEST will update the hydraulic analysis of the proposed Stewart Road replacement bridge. This will include using the revised hydraulic results from the HEC-RAS modeling performed under Task 4.1.1 to compute White River water surface elevations, the proposed Stewart Road bridge freeboard, bridge scour using HEC-18 guidance, and revetment sizing using HEC-21 guidance.

Subtask 4.1.3 – Documentation

WEST will revise the previously developed Stewart Road Bridge Hydraulic and Scour Assessment Report to include the updated modeling and analyses performed in Subtasks 4.1.1 and 4.1.2.

Deliverable(s)

- Draft and final Bridge Replacement Hydraulic and Scour Assessment Report.

Subtask 4.2 – Work Bridge and Cofferd Dam Hydraulic Impacts Evaluation [CONTINGENCY]

As required for the project, WEST will evaluate the hydraulic impacts of the proposed temporary work bridge and coffer dam.

Subtask 4.2.1 – Hydraulic Modeling of Temporary Work Conditions

WEST will incorporate the geometry of the temporary work configurations into the previously developed HEC-RAS 1D/2D hydraulic model. This will include the physical geometry of a temporary work bridge and cofferdam. WEST will also analyze the seasonal hydrology of the White River to develop statistical probabilities of peak flows during the period of time for which the temporary work bridge and cofferdam are anticipated to be in place. WEST will develop up to three separate model geometries to represent the potential combinations of in-water elements during different phases of construction.

Subtask 4.2.2 – Hydraulic Analyses of Temporary Work Conditions

WEST will use the results of the hydraulic modeling to compute the hydraulic impacts of the temporary work conditions. This includes water surface elevation and velocity impacts, the scour potential of the temporary work bridge piers and cofferdam, and revetment sizing for the in-water elements of the temporary work structures.

Subtask 4.2.3 – Meetings and Documentation

WEST will develop a technical memorandum to document the results of the analyses performed in Tasks 4.2.1 and 4.2.2. WEST will attend up to three team meetings to discuss the temporary work configurations and their impacts.

Deliverable(s)

- Draft and final Temporary Work Conditions Hydraulic Impacts Technical Memorandum.

Subtask 4.3 – Hydraulic Support of Levee Extension

WEST will provide hydraulic support for the downstream extension of the levee along the left bank of the White River.

Subtask 4.3.1 – Hydraulic Modeling of Levee Extension

WEST will incorporate the geometry of the downstream extension of the levee along the left bank of the White River into the previously developed HEC-RAS 1D/2D model. WEST will model up to three iterations of the levee configuration as WEST anticipates that the model will need to be refined as the results of the analyses from the different design team disciplines (civil, structural, geotechnical, hydraulics, and others) are incorporated into the levee design.

Subtask 4.3.2 – Hydraulic Analyses of Levee Extension

WEST will provide hydraulic support for the design of the levee extension. This will include using the results of the hydraulic modeling to assess freeboard along the levee, compute the toe scour potential along the levee, and develop a conceptual revetment design to protect the levee toe.

Subtask 4.3.3 – Meetings and Documentation

WEST will develop a technical memorandum to document the results of the analyses performed in Tasks 4.3.1 and 4.3.2. WEST will attend up to three meetings to discuss the hydraulic analyses of the levee design with the design team, City of Sumner, Pierce County, and USACE as necessary.

Deliverable(s)

- Draft and final Levee Extension Hydraulics Memorandum.

Subtask 4.4 – Hydraulic support of Northwest Stewart Road Retaining Wall

WEST will provide hydraulic support for the design of the retaining wall that will support the Stewart Road approach to the bridge. The proposed wall is located to the northwest of the proposed bridge and will be subject to overflows from the White River, along its upstream right over bank, during high flow events. The proposed retaining wall will have a drainage feature running along its base that will empty into the White River upstream of the bridge along the right bank of the river.

Subtask 4.4.1 Hydraulic Analysis of Retaining Wall

Hydraulic modeling of the White River and the proposed Stewart Road bridge will be developed under Task 4.1. The results of this hydraulic modeling will be used to determine the hydraulic parameters in the vicinity of the proposed retaining wall to the northwest of the proposed bridge and its outfall to the White River. WEST will investigate the flows, velocities, and water surface elevations along the retaining wall to estimate the scour potential along the wall and to recommend measures to mitigate the scour potential and to limit erosion along the retaining wall. WEST will also investigate the hydraulics of the White River upstream of the proposed Stewart Road bridge to determine the hydraulic parameters in the White River at the location of the proposed outfall of the drainage feature. WEST will determine if erosion control measures along the right bank of the White River upstream of the bridge at the outfall location are warranted, and if so, will recommend conceptual mitigation measures for the outfall site. WEST will develop a technical memorandum to document the results of the analyses performed in Tasks 4.4.1.

Deliverable(s)

- Draft and final Retaining Wall Hydraulics Memorandum.

Subtask 4.5 – Permit Support

WEST will provide hydraulic support for permits.

TASK 5.0 – BRIDGE STUDY – CLOSED

This task is completed and closed.

TASK 6.0 – PRELIMINARY ROADWAY LAYOUT AND STORMWATER DESIGN - CLOSED

This task is completed and closed. See Tasks 15 and 16 below for scope of work efforts.

TASK 7.0 – ENVIRONMENTAL DOCUMENTATION, BIOLOGICAL ASSESSMENT, AND PERMITTING (WIDENER) - SUPPLEMENT

Cowling & Company LLC, referred to as Widener & Associates in this contract, is a separate company from DKG Inc. (formally referred to in this contract as Widener & Associates) and is registered to do business in Washington State, UBI 603348384 (see attached consultant business license) and has an approved federally audited overhead rate (see attached letter from Widener & Associates) and by this reference made part of this supplement.

Widener and Associates has been working through the National Environment Policy Act (NEPA) process to get a DCE determination. This effort has been ongoing since 2014 and has used the previous estimated budget to get this decision worked through the WSDOT acceptance of the discipline reports; and to get the BA submitted for consultation. Widener will assist the CITY in the preparation of environmental documentation and permitting outlined below. The remaining efforts previously identified in the contract and a fee estimate have been prepared to capture the estimated effort for completing the remaining tasks needed to advertise the project for construction.

Subtask 7.1 Design Coordination

The CONSULTANT will provide early input into the formation of project design details will be provided to ensure the final design includes provisions to minimize impacts to the surrounding environment and stay with the approval NEPA and SEPA approvals. This coordination within the various design elements of the project will identify and ensure the approved minimization measures are included the project design. This work will also include project coordination and schedule input as needed.

Deliverable(s)

- Provide project input via email.

Subtask 7.5 Biological Assessment [CONTINGENCY]

As this task is required, the CONSULTANT will include completing the consultation process that is currently underway and budget for updating the BA that may be required as the design progresses.

Subtask 7.5.1 Biological Assessment Coordination

Provide responses for up to three (3) questions and comment from WSDOT on the continued BA consultations.

Deliverable(s)

- Written responses coordination with WSDOT.

Subtask 7.5.2 Biological Assessment Update

A BA update memorandum will be prepared for the final design preferred alternative in accordance with WSDOT guidelines. The following subtasks will be undertaken in preparation of the project BA.

The memorandum will discuss the changes in the design as compared to the approved BA included the supplemental data provided during the consultations process. All changes will be analyzed for take of listed species and impacts to critical habitat. This analysis will be compared to the take and impacts allow under the Biological Opinion. This scope and budget assume the changes in the project will not require additional take.

Deliverable(s)

- One electronic and one hard copy of the draft BA update memorandum for review by CITY.
- One electronic and one hard copy of the final BA update memorandum, incorporating the CITY's comments, for submittal to WSDOT.

Subtask 7.9 Environmental Classification Summary [CONTINGENCY]

The CONSULTANT will prepare the Environmental Classification Summary (ECS) form by reviewing technical reports related to the project, applying project-specific data to the form and coordinating approval for the project by both WSDOT and FHWA.

Deliverable(s)

- One electronic and one hard copy of the draft ECS will be provided.
- One electronic and one hard copy of the final ECS documentation will be provided incorporating CITY comments.
- One electronic and one hard copy of the final ECS documentation will be provided incorporating WSDOT/FHWA comments if required. It is assumed that WSDOT/FHWA comments will not alter the basic conclusion of the documentation or require further alternative studies.

Subtask 7.11 Riparian Mitigation/Habitat Management Plan

The CONSULTANT will prepare a riparian mitigation plan for the enhancements and repair of the sites within the project limits. We will complete the plan according to the requirements of the U.S. Army Corps of Engineers (USACE) and the CITY.

To complete the plan, the CONSULTANT will:

1. Collect on-site data and information about the boundaries of the existing riparian areas.

2. Analyze groundwater data to identify the hydroperiod and determine the final grading elevation of the riparian area.
3. Develop the conceptual planting plan for the mitigation area.
4. CONSULTANT will prepare a draft of the mitigation plan that includes a narrative describing the proposed mitigation and monitoring, including accompanying draft special provisions (if required), a vicinity map, a plan view and/or detail maps of the proposed mitigation, and other informational maps as required by the permitting agencies. The plan will be provided for CITY review, revised according to CITY comments and, submitted to the reviewing agencies.

Assumptions and Exclusions

CITY comments on the mitigation plan will be minor in extent and editorial in nature.

Deliverable(s)

- One electronic and one hard copy of the draft mitigation plan for CITY review with accompanying draft special provisions if required
- One electronic and one hard copy of the final mitigation plan, incorporating the CITY's comments, for submittal to CITY planning.

Subtask 7.12 JARPA Process

The CONSULTANT will assemble and organize all necessary environmental permit applications to a standard acceptable by the permitting agencies for both the project and geotechnical drilling. Anticipated permits include the following.

1. Section 404 (JARPA) - US Army Corp.
2. Section 401 (JARPA) - Ecology
3. Hydraulic Project Approval - Fish & Wildlife

Permit applications shall include all requested information, such as application forms, all necessary permit drawings, an attachment describing project location, project purpose and need, alternatives considered, and a summary of project impacts. The CONSULTANT shall also provide a draft transmittal letter for submittal of the application by the CITY. Draft applications, including supporting information, shall be submitted to the CITY for review and comment. Revised permit applications shall be provided to the CITY for signature and submittal to permitting agencies. The CONSULTANT shall perform the necessary coordination with the Department Ecology, the US Army Corp. and the Department of Fish and Wildlife to obtain these permits.

Subtask 7.13 Shorelines Substantial Development Permit (Pacific)

The CONSULTANT will assemble and organize all necessary documentation required for the Shoreline Substantial Development Permit (SSDP).

Deliverable(s)

- One electronic and one hard copy of the draft SSDP will be provided.

- One electronic and one hard copy of the final SSDP documentation will be provided incorporating CITY comments.
- One electronic and one hard copy of the final SSDP documentation will be provided incorporating agency comments if required.

Subtask 7.14 Shorelines Substantial Development (CITY) & SEPA Reevaluation

The CONSULTANT shall complete appropriate State Environmental Policy Act (SEPA) reevaluation documentation, including all needed updated studies, modeling, and analysis in accordance with SEPA (RCW 43.21C) and SEPA Rules (WAC 197-11). The CONSULTANT will coordinate with the CITY to address comments on the SEPA Checklist and provide support for the SEPA process.

The CONSULTANT will assemble and organize all necessary documentation required for the Shoreline Substantial Development Permit (SSDP).

Deliverable(s)

- One electronic and one hard copy of the draft SSDP will be provided.
- One electronic and one hard copy of the final SSDP documentation will be provided incorporating CITY comments.
- One electronic and one hard copy of the final SSDP documentation will be provided incorporating agency comments if required.
- One electronic and one hard copy of SEPA Memorandum

Subtask 7-15 NPDES Permit

The CONSULTANT will complete the Notice of Intent (NOI) Application and Public Notice for NOI and publish once approved by the City.

Deliverable(s)

- NOI application
- Published public notice

TASK 8.0 – ENVIRONMENTAL SUPPORT – (WSP) SUPPLEMENT

This additional scope of work supplements the original scope of work in Phase 1, Task 8.

Additional effort has been required beyond the scoped effort in the original contract and the CONSULTANT will coordinate with the environmental engineering subconsultant and prepare supporting documentation, calculations, and exhibits as follows for this additional effort.

Subtask 8.1 Coordination with Environmental Subconsultant

The CONSULTANT will coordinate with the environmental engineering subconsultant (Widener).

Subtask 8.2 Prepare the Area of Potential Effect (APE) - Closed

The work has been completed.

Subtask 8.3 Prepare Environmental Permit Exhibits

The CONSULTANT will coordinate with the environmental engineering subconsultant and prepare supporting documentation, calculations, and environmental exhibits necessary for obtaining environmental permits.

Deliverable(s)

- Environmental exhibits as required by the environmental subconsultant for obtaining environmental permits.

Subtask 8.4 Phase I Environmental Site Assessment

The CONSULTANT will complete a Phase I Environmental Site Assessment (ESA) of an approximately 1.03-acre site located at 822 and 906 140th Avenue East (Tax Parcels 0420013050 and 0420013049) in Sumner, Washington (the site).

The site is currently residential property with two houses and a garage. The site is currently owned by Manke Lumber Company Inc. We understand WSDOT is planning to acquire the property in association with the project. We also understand the buildings on site will be torn down, and the area will be partially used for mitigation and an access road for the project.

The results of the Phase I ESA will be used as part WSDOT's evaluation of construction risks and liability associated with ownership of the site with respect to hazardous materials.

The purpose of the Phase I ESA is to identify potential recognized environmental conditions (RECs) associated with the site. Our scope of services was developed in general accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-13 for Phase I ESAs, the U.S. Environmental Protection Agency Title 40 Code of Federal Regulations (CFR) Part 312 Standards and Practices for All Appropriate Inquiries, and guidance provided in the WSDOT Environmental Procedures Manual. The scope of services described below will be completed by, or under the direction of, an environmental professional as described in 40 CFR. Our specific scope of services for the Phase I ESA follows.

RECs are defined in ASTM E1527-13 as “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs.

1. Review readily available geotechnical reports, environmental reports, and/or other relevant documents pertaining to environmental conditions at the site.
2. Review historical aerial photographs, building department records, city directories, chain-of-title reports, and land use and tax assessor records as available and appropriate to identify past development history on and adjacent to the site relative to the possible use, generation, storage, release, or disposal of hazardous substances.
3. Attempt to identify uses of the site from the present to the time that records show no apparent structures on the site; back to the time the property was first used for residential, agricultural, commercial, industrial, or governmental purposes; or back to 1940, whichever is earlier.

4. Identify data gaps relative to site historical use.
5. Review current U.S. Geological Survey topographic maps to identify the physiographic setting of the site and provide a statement on the local geologic, soil, and groundwater conditions based on our general experience and sources, such as geologic maps and soil surveys.
6. Identify the source(s) of potable water heating and sewage disposal system(s) previously used at the site, if any.
7. Identify a key person with specific knowledge of the past and present use of the site and ask that person to meet a CONSULTANT representative on site for an interview during the visual site reconnaissance. If the key person is not available during the site reconnaissance, CONSULTANT will conduct the interview by telephone. CONSULTANT will also interview others familiar with the past and present uses of the site and its vicinity, including the current property owner(s) and occupants of neighboring properties, only as necessary to gather information or fill site-use data gaps regarding the site.
8. Interview past owners and occupants of the site, only as necessary to gather information or fill site-use data gaps regarding site-use history. Interview a representative of the local fire department, health department, and/or the Washington State Department of Ecology (Ecology) as necessary via telephone or mail correspondence to gather information or to fill data gaps regarding the history of the site and surrounding properties relative to the likely presence of hazardous substances.
9. Conduct a visual reconnaissance of the site and adjacent properties to identify visible evidence of RECs.
10. Review the results of a federal, state, local, and tribal environmental database search provided by an outside environmental data service for listings of sites with known or suspected environmental conditions on or near the subject site within the search distances specified by ASTM E 1527-13.
11. Review regulatory agency files regarding listed sites of potential environmental concern relative to the subject site, as available and appropriate.

Assumption(s)

1. WSDOT will coordinate access to the site and identify a key person to interview who has background knowledge of the site's use and to accompany CONSULTANT staff during the site visit.
2. 8 hours of time (including travel) for one environmental scientist to complete a reconnaissance visit will be necessary.
3. A formal regulatory file review that requires traveling to Ecology headquarters in Lacey, Washington, is not required.
4. WSDOT will require only one round of review of the draft report prior to finalizing the document.

5. This task does not include a hazardous materials survey for lead-based paint, asbestos-containing materials, mold, radon, or soil and/or groundwater sampling.

Request for Available Information

The CONSULTANT requests copies of the following information, if available, to assist us in our research.

1. We assume that WSDOT will coordinate access to the site and identify a key person to interview who has background knowledge of the site's use and to accompany the CONSULTANT.
2. An ASTM "User Questionnaire" to be completed by WSDOT to help gather information that may identify recognized environmental conditions at the property.
3. Copies of any past ESA and/or audit reports or risk assessment studies.
4. Environmental permits.
5. Registrations for underground and aboveground storage tanks (if any).
6. Material safety data sheets for hazardous substances used or stored on site (if any).
7. Reports regarding geotechnical and/or hydrogeologic conditions.
8. Notices of environmental violations and/or environmental liens encumbering the site.

Deliverable(s)

- A draft summary of the Phase I ESA results documenting the findings and conclusions along with CONSULTANT opinion and recommendations regarding site conditions that may affect WSDOT in either construction or acquisition. Any additions, deviations from the requirements, and significant data gaps will be explained in the report. If warranted, the report will include recommendations and estimated costs for additional assessment.
- A final Summary

TASK 9.0 – TRAFFIC SIGNAL WARRANT ANALYSIS (DKS) – CLOSED

This task is completed and closed. See Task 20 for scope of work efforts.

TASK 10.0 – RIGHT-OF-WAY SUPPORT SERVICES (UFS) – CLOSED

This task is completed and closed.

TASK 11.0 – UTILITY COORDINATION – SUPPLEMENT

The level of effort from Phase 1, Task 11 is still required. Coordination with PSE power and gas was advanced to determine ROW needs and coordinate permitting efforts, and additional efforts with existing franchised utilities are included as follows.

Subtask 11.1 Attend Coordination Meeting at the City

Additional coordination meetings are required with PSE, Verizon, Comcast, CITY, and others (to be determined). Three combined coordination meetings are assumed to coordinate relocation

concepts and finalize relocation plan. Meeting include 2 hours for discussion, 1 hour for travel, and 2 hours for preparation and documentation.

Subtask 11.2 Updated Coordination with Utility Companies - Research

Prepare letters requesting utility record information and send to each purveyor (PSE, Version, Comcast, Century Link, City of Pacific, and CITY). Cross-check utility maps with field survey information and resolve conflicts between utility maps and field conditions. This effort needs to be redone, based on the time lapsed.

Subtask 11.3 Utility Pothole Plan

The CONSULTANT will determine where potential conflicts exist between proposed improvements and known existing utilities. A utility pothole plan will be developed detailing locations where additional information is required to determine whether the existing utility requires relocation or whether the proposed improvements can be redesigned to avoid the potential conflict. This plan will only show proposed locations of relocated utilities and will not show method of relocation or construction requirements.

Applied Professional Services (APS), Inc. will utilize their Air Vacuum Excavation System to verify utilities at selected test-hole locations determined by design team. This process is being performed to obtain utility and depth information for the project's design.

Assumption(s)

1. APS, Inc. shall air vacuum excavate up to a maximum of (25) test-holes to obtain depth of existing underground utilities.
2. Utilities will be between 0' and 10' in depth.
3. APS, Inc. shall backfill all test-holes with a material approved by City of Sumner (5/8" crushed rock, sand, etc.)
4. CDF backfill and permeant asphalt/concrete repair are excluded from the cost. Should this be required by City of Sumner additional fees will be required.
5. Collect utility and test-hole data.
6. This estimate is based on design engineering rates in which case prevailing wages do not apply.
7. Restoration is assumed at this time to be 5/8" crushed rock back fill, and an EZ-Street patch which carries a 2-year warranty from the date the test-hole was completed.
8. All work will be located on or within City of Sumner ROW.
9. All permits needed will be obtained by APS, Inc.

APS will provide the following:

1. Test-hole data sheets, which include Top, Bottom, Width, Diameter and Direction of the utility.
2. Measurements will be recorded in tenths.
3. Excel spread sheet containing all test-hole data for the project.
4. Hub with measurements left at grade.
5. Photo of all found utilities.

Subtask 11.4 Utility Relocation Plan

The CONSULTANT will show all pothole information and the proposed location of existing utilities on the final construction drawings.

The CONSULTANT will prepare exhibits for, and attend, two utility coordination meetings with the City. Each meeting will be attended by two staff members and include 2 hours for discussion, 1 hour for travel, and 2 hours for preparation and documentation.

Deliverable(s)

- Utility pothole plan
- Utility relocation plan

TASK 12 – RISK ASSESSMENT AND CONSTRUCTABILITY REVIEW (OTT-SAKAI) - SUPPLEMENT

Ott-Sakai & Associates, under a subconsultant agreement with CONSULTANT, will provide specialty constructability review of bridge demolition, pier and footing demolition, shaft pier construction, girder erection, wall construction, ground improvement methods, and construction cost estimating services on the project.

Review will include validation of CONSULTANT project cost estimate by independent contractor analysis.

Review will include validation of CONSULTANT project schedule by independent contractor analysis.

Deliverable(s)

- Review comments on constructability, cost estimate, and construction schedule of 90 percent design submittal
- Revised comments of 100 percent design submittal

TASK 13.0 – DIRECTED SERVICES

Subtask 13.1 BUILD Grant & Tiger Grant Assistance [CONTINGENCY]

This task includes development of federal grant applications for INFRA and BUILD grant programs in Fiscal years FY21 and FY22 (4 grant applications total) including narrative development, benefit cost analysis (BCA), and traffic analysis (feeds into BCA).

INFRA Grant Development FY2021

- **Narrative Development:** The CONSULTANT will prepare a draft and final Project Narrative for the grant application subject to the current USDOT requirements. Consistent with FAST Act priorities, the Narrative will highlight how the project contributes to local, regional and national significance under the NOFO criteria for INFRA grant funds. The Narrative will include content that provides the context for the project, drawing on existing material and graphics whenever possible, and assist in the editing and assembly of the draft and final grant application.

A key part of the grant application will be the demonstration of strong collaboration and partnership with a broad range of stakeholders. Unless requested, the CONSULTANT will not support the CITY in requesting letters of support. The CONSULTANT will support the CITY in assembling graphics and maps and collect all application materials within a common electronic location, as well as assemble appendices for the application.

- **Benefit Cost Analysis:** Using data collected from the CITY, the CONSULTANT will conduct the necessary data processing and technical analyses required to complete the BCA, focusing on supporting transportation, economic and other benefits at local, regional and national levels in accordance with the latest BCA guidance issued by USDOT. The BCA will rely upon assembling and calculating various mobility benefits (e.g., time savings, VMT savings, congestion reduction, operating cost savings), safety benefits from reduced crashes and associated bodily injury and property damage, environmental benefits from reduced vehicular emissions, economic benefits from improved flow of freight traffic, and other related benefits that may be identified during the work.
- **Traffic Analysis:** Leveraging previous traffic analysis work within the City of Sumner and on-going planning efforts related to WSDOT's SR 167 Completion Project (Stage 2), the CONSULTANT will assess existing and future traffic conditions along Stewart Road to determine the potential delay reduction and travel time benefits of the widening project. This assessment will be intended support the INFRA FY21 grant application by highlighting key transportation benefits in terms of corridor performance and safety. Key tasks associated with this work will include a comprehensive data collection/compilation effort (traffic volumes, signal timing data, crash history data, etc.), analysis of existing conditions, evaluation of future baseline and "build" conditions and documentation of travel time and delay benefits. The primary traffic analysis tools used for this assessment will include Google API, Synchro Version 10 and SimTraffic. In the event that train movements along the Union Pacific Railroad (UPRR) need to be explicitly reflected in the analysis, Vissim micro-simulation software will be used in a targeted manner. The study segment will include the SR 167 interchange ramp intersections on the west side and extend to the East Valley Highway overcrossing. Up to seven (7) signalized and unsignalized intersections will be included in this work. Two horizon years will be reflected to satisfy the needs of the grant application process: an interim horizon year of 2030 and a longer-range horizon year of 2045.

BUILD Grant Development FY2021

- **Narrative Development:** Based on the FY21 INFRA grant application for the Project, the CONSULTANT will prepare a draft and final Project Narrative for the grant application subject to the current USDOT requirements. The Narrative will highlight how the project contributes to the NOFO criteria for BUILD grant funds. The Narrative will include content that provides the context for the project, drawing on existing material and graphics whenever possible, and assist in the editing and assembly of the draft and final grant application.

A key part of the grant application will be the demonstration of strong collaboration and partnership with a broad range of stakeholders. Unless requested, the CONSULTANT will not support the CITY in requesting letters of support. The CONSULTANT will support the CITY in assembling graphics and maps and collect all application materials within a common electronic location, as well as assemble appendices for the application.

- **Benefit Cost Analysis:** The FY21 BUILD BCA analysis will include an update and refresh if new data is available but will be based significantly on FY21 INFRA BCA.
- **Traffic Analysis:** Similar to the work described for the INFRA traffic analysis support task, the CONSULTANT will assess existing and future traffic conditions along Stewart Road to determine the potential delay reduction and travel time benefits for the purposes of the BUILD FY21 grant application. This assessment will highlight the potential mobility benefits of the roadway widening project in terms of corridor performance and safety with an emphasis on freight connectivity and access/circulation. Key tasks associated with this work will include data collection/compilation, analysis of existing and future baseline conditions, investigation of future “build” or “with-project” conditions and documentation of travel time and delay benefits.

The primary traffic analysis tools used for this assessment will again include Goggle API, Synchro Version 10 and SimTraffic. In the event that at-grade train movements and blockages along the Union Pacific Railroad (UPRR) need to be explicitly reflected in the analysis, Vissim micro-simulation software will be used in a targeted manner. As with the INFRA grant traffic study coverage area, the targeted segment of Stewart Road will include the SR 167 interchange ramp intersections on the west side and extend to the East Valley Highway overcrossing. Up to seven (7) signalized and unsignalized intersections will be included in this study segment. As with the INFRA FY21 grant application, two horizon years will be reflected for the BUILD FY21 traffic analysis to satisfy the needs of the grant application process: an interim horizon year of 2030 and a longer-range horizon year of 2045.

INFRA Grant Development FY2022

- **Narrative Development:** The CONSULTANT will prepare a draft and final Project Narrative for the grant application subject to the current USDOT requirements, based on the FY21 INFRA application as a “refreshed” application. The Narrative will highlight how the project contributes to the NOFO criteria for INFRA grant funds. The Narrative will include content that provides the context for the project, drawing on existing material

and graphics whenever possible, and assist in the editing and assembly of the draft and final grant application.

A key part of the grant application will be the demonstration of strong collaboration and partnership with a broad range of stakeholders. Unless requested, the CONSULTANT will not support the CITY in requesting letters of support. The CONSULTANT will support the CITY in assembling graphics and maps and collect all application materials within a common electronic location, as well as assemble appendices for the application.

- **Benefit Cost Analysis:** The FY22 INFRA BCA analysis will include an update and refresh if new data is available but will be based significantly on FY21 INFRA and BUILD BCAs.

Required Traffic Analysis: To support any follow-on applications for the INFRA grant competitive process in FY22, additional traffic analysis work may be needed to address short-term changes in the transportation environment or to update any long-range assumptions regarding future roadway improvements (ex. timing of WSDOT's SR 167 Completion Project elements). These updates may also include changing the analysis inputs and re-summarizing the benefits of the roadway/bridge widening project. The work conducted for earlier INFRA grant application rounds (FY21) will be used as the foundation for any updates or changes in FY22.

BUILD Grant Development FY2022

- **Narrative Development:** The CONSULTANT will prepare a draft and final Project Narrative for the grant application subject to the current USDOT requirements, based on the FY21 BUILD application as a "refreshed" application. The Narrative will highlight how the project contributes to the NOFO criteria for BUILD grant funds. The Narrative will include content that provides the context for the project, drawing on existing material and graphics whenever possible, and assist in the editing and assembly of the draft and final grant application.

A key part of the grant application will be the demonstration of strong collaboration and partnership with a broad range of stakeholders. Unless requested, the CONSULTANT will not support the CITY in requesting letters of support. The CONSULTANT will support the CITY in assembling graphics and maps and collect all application materials within a common electronic location, as well as assemble appendices for the application.

- **Benefit Cost Analysis:** The FY22 BUILD BCA analysis will include an update and refresh if new data is available but will be based significantly on FY21 BUILD BCA and other BCAs developed for the project.

Required Traffic Analysis: To support any follow-on applications for the BUILD grant competitive process in FY22, additional traffic analysis work may be needed to address short-term changes in the transportation environment or to update any long-range assumptions regarding future roadway improvements (ex. timing of WSDOT's SR 167 Completion Project elements). These updates may also include changing the analysis

inputs and re-summarizing the benefits of the roadway/bridge widening project. The work conducted for earlier BUILD grant application rounds (FY21) will be used as the foundation for any updates or changes in FY22.

Additional grant application support for future fiscal years (beyond 2022) may be added to the scope of work as requested. The scope of these additional services would be similar to the FY2022 scope described above and would include refreshes of the application narratives, BCAs, and traffic analysis.

Deliverable(s)

- Two (2) complete INFRA grant applications in FY21 and FY22, including narrative, graphics, benefit cost analysis and supporting analysis
- Two (2) complete BUILD grant applications over FY21 and FY22, including narrative, graphics, benefit cost analysis and supporting analysis

Subtask 13.2 Project Graphics [CONTINGENCY]

This task involves engineering and graphics services to develop display images and videos that present the staging and final product of this project. The CONSULTANT will utilize 3-D CAD modelling to incorporate image modelling software to present the current bridge condition, the staged (1/2 bridge up-stream) and final condition of roadway at completion of construction.

Deliverable(s)

- Up to twelve (12) images (6 each) of staged and final bridge conditions
- Up to two (2) fly-through videos (one each) of staged and final bridge conditions

TASK 14.0 – ROADWAY DESIGN – NEW

Subtask 14.1 Roadway Design

This task involves engineering and design work required to advance the design of the approaches, driveways, roadway, utilities, and drainage system to develop the contractual plans. The CONSULTANT shall prepare PS&E documents for the construction of the proposed project consistent with city, state, and/or county design standards, and of such standards as to provide competitive bidding by contractors. CITY standard details, Pierce County standard plans, and WSDOT standard plans will be supplemented with project-specific details as required.

The 60 percent submittal will need to identify

1. Limits of proposed improvements on west end of project and how they will tie into the future City of Pacific project.

Retaining wall types, size, and locations.

Illumination pole types and spacing.

Landscape restoration and irrigation plan.

Access road to existing Pierce County/King County Levee, north of the bridge.

Modifications to the Manke driveway and parking area

Subtask 14.2 Roadway Drawings

Plans shall be prepared in such detail as to permit field layout and construction in accordance with industry, CITY, and WSDOT standards. Typical sections and details shall be provided, except for items available as standard details from the CITY, WSDOT, or APWA drawings, which will be included in the plan set via image/PDF files. The plans will be developed for the 60 percent, 90 percent final and ad-ready submittals. The plans will show details of construction of the proposed improvement, including the following

- Paving limits
- Curb, sidewalk, and driveway layout
- Traffic islands locations (if required)
- Storm drainage layout
- Utility adjustments
- Surfacing depths and details
- Illumination and traffic signal
- Signal foundations
- Channelization and signage
- Landscape, irrigation, and property restoration
- Retaining wall types and locations
- Levee and river access
- Right-of-way
- Recommended phasing sequence

The final contract drawings, indicated in the list of roadway drawings provided in the attached fee estimate, will be completed. Comments from the CITY will be addressed on subsequent submittals.

Deliverable(s)

- Final Permitting (60 percent) Submittal – The draft permitting submittal shall be revised and resubmitted to the CITY for review and comments (11 by 17 PDF)
- 90 Percent Submittal – This submittal shall incorporate CITY comments on the 60 percent submittal and represent a complete draft of the construction contract (11 by 17 PDF)
- Final Submittal – This submittal shall incorporate CITY comments on the 90 percent submittal and is intended for final review by WSDOT to obligate construction funds for the project (11 by 17 PDF)
- Ad-Ready Submittal – This submittal shall incorporate anticipated minor comments by the CITY and/or WSDOT necessary for advertising the project for construction (11” x 17” PDF and three hard copies)

TASK 15.0 – DRAINAGE AND STORM DESIGN – SUPPLEMENT

This additional scope of work supplements the original scope of work in Phase 1, Tasks 6 and 15 draft stormwater efforts already completed.

Subtask 15.3 Final Stormwater Design Report

Task work involves preparing and submitting a 90 percent design-level stormwater report to the CITY for review, addressing any CITY comments, and preparing a final stormwater design report for the project. Task work shall include coordinating final design requirements for the west dispersal outfall with the City of Pacific. The final stormwater report shall include PS&E design-level drainage calculations for treatment facilities, conveyance systems, and dispersal outfalls required east and west of the Stewart Road SE replacement bridge. See Tasks 14, 25, and 26 for PS&E documents.

Assumption(s)

1. The west outfall along the White River shall be designed to accommodate drainage discharge from this project, the City of Pacific's Stewart Road SE project, and Butte Avenue East. A backwater analysis of Butte Avenue East basin inside of City of Pacific boundary will be included in this effort.

The final stormwater design report shall be the basis for drainage PS&E documents.

Deliverable(s)

- Final stormwater report, responses to CITY comments, and final stormwater report in PDF format and three hard copies. Stormwater PS&E included in deliverables for Tasks 14, 24, and 25 for PS&E documents.

TASK 16.0 – WALLS AND GROUND IMPROVEMENT – NEW

Subtask 16.1 Ground Improvement

The CONSULTANT shall incorporate ground improvement measure, in conformance with recommendations provided by the geotechnical engineer, to be installed approximately 100 feet each side of the bridge.

Subtask 16.2 Walls

Walls will be required around each bridge abutment, with bridge approach slabs bridging the gap between the abutment and the retaining walls.

The southwest corner wall will integrate with the new wall build by City of Pacific to support the Manke driveway. The northwest corner wall will wrap around to Butte Avenue. The wall on the west side will form one continuous wall once complete, but a temporary wall will be required between the roadway stages to accommodate the grade difference between the new bridge approach to the existing bridge approach. An effort has been included to coordinate wall design with the Pierce County Right-Bank-Levee project.

The southeast corner will integrate with the block wall that exists in front of the Baptist Church. The northeast corner wall will wrap into the levee access road. The wall on the east side will form one continuous wall once complete, but a temporary wall will be required between the roadway stages to accommodate the grade difference between the new bridge approach to the existing bridge approach. There is a levee currently on the east side, and it will be extended under the bridge, so no scour mitigation measures are required to protect this wall.

Wall types are assumed to match into the same types as existing on site; wire basket wall at the Manke driveway (west side) and block wall near the Baptist church (east side). Walls are assumed to be wire basket or geosynthetic wrap. Wire basket wall will not have a fascia applied.

Deliverable(s)

See Tasks 18, 24, and 25 for PS&E documents.

TASK 17.0 – LEVEE DESIGN – NEW

The CONSULTANT shall coordinate with the hydraulic engineer and geotechnical engineer to extend the left-bank levee (east side of river) beyond the bridge. The Pier 3 bridge abutment will be integrated into the levee.

Assumption(s)

1. The levee will not be certified.

The CITY will provide contract documents from King County east-bank levee project. The same section used in that design will be extended beyond the bridge.

No access roads are provided under the bridge. Access road on the north side will be tied into the new Stewart Road channelization. A future access road south of the bridge will be incorporated when the CITY left-bank levee is extended, but as part of this project.

Deliverable(s)

See Tasks 14, 24, and 25 for PS&E documents.

TASK 18.0 – BRIDGE DESIGN - NEW

This task involves engineering and design work required to advance the design of the bridge and in-water work, including bridge demolition, to develop the contractual plans. The CONSULTANT shall prepare PS&E documents for the construction of the proposed project.

Assumption(s)

1. The new bridge will be of the same type as the preferred alternative defined in the Design Memo prepared under the Phase 1 contract.

The Pier 3 abutment will be incorporated into the King County Levee extension.

Pier 2 will be designed with pinned supports and an expansion joint to accommodate rotation of girders in the future. Piers 1 and 3 abutments will be supported on shafts and caps that can be modified for a future column-supported pier and an extension of additional bridge spans.

Load rating is not included as part of this scope of work. If desired, the load rating will be provided as a supplemental service.

Ground improvements will be made to support the walls for 100 feet on each side of the bridge and to protect against bank instability (see Task 16). The walls are offset from the bridge foundations by 3 feet with the bridge approach slab extending over the separation. The bridge foundations will not be designed to accommodate the lateral spreading loads from the wall imparted on the structure.

Bank armoring will consist of soft-bank engineering or plantings and not riprap.

The plans will be prepared in accordance with current CONSULTANT drafting standards, and all electronic drawings submitted by CONSULTANT as part of any deliverable will be in AutoCAD format.

Subtask 18.1 Design

The following design codes will be used to conduct the design and analyses.

1. WSDOT Bridge Design Manual LRFD, Version M 23-50.18, June 2018
AASHTO LRFD Bridge Design Specifications, 8th Edition, November 2017
AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2nd Edition (2011)
WSDOT Standard Specifications for Road, Bridge, and Municipal Construction (2018)

Service/Strength Analyses

Service and strength analyses of the proposed new bridge structure will be conducted to demonstrate that the proposed structure meets the performance requirements per AASHTO.

Seismic Analyses

A seismic analysis of the proposed new bridge structure will be conducted to demonstrate that the proposed structure meets the performance requirements per AASHTO.

Bridge Component Calculations

Calculations will be completed and designs will be prepared for the bridge components based on the controlling design forces as determined from the service/strength and seismic analyses.

Subtask 18.2 In-Water Construction Methods

Work Bridge

A temporary work bridge configuration with approach sections upstream and downstream of the existing bridge will be developed. The sequence will show sections required for the various stages of bridge construction and bridge elements, including bridge demolition and pier removal.

Bridge Demolition and Pier Removal

The existing bridge superstructure be removed as part of this project. The abutments and in-water piers will be removed to the required permit limits. A demolition plan will be included in this effort.

Subtask 18.3 Structural Drawings

Plans shall be prepared in such detail as to permit field layout and construction in accordance with industry, CITY, and WSDOT standards. Typical sections and details shall be provided, except for items available as standard details from the WSDOT BDM standard drawings. The plans will be developed for the 60 percent, 90 percent, final, and ad-ready submittals. Comments from the CITY will be addressed on subsequent submittals.

Deliverable(s)

- Final Permitting (60 percent) Submittal – The draft permitting submittal shall be revised and resubmitted to the CITY for review and final approval (11 by 17 PDF)

- 90 Percent Submittal – This submittal shall incorporate CITY comments on the 60 percent submittal and represent a complete draft of the construction contract (11 by 17 PDF)
- Final Submittal – This submittal shall incorporate CITY comments on the 90 percent submittal and is intended for final review by WSDOT to obligate construction funds for the project (11 by 17 PDF)
- Ad-Ready Submittal – This submittal shall incorporate anticipated minor comments by the CITY and/or WSDOT necessary for advertising the project for construction (11 by 17 PDF and three hard copies)

TASK 19.0 – LIGHTING & INTERCONNECT (DKS) – NEW

DKS, under a subconsultant agreement with the CONSULTANT, will provide a complete set of design PS&E for the construction of a new traffic signal interconnect and lighting between the intersections of Butte Avenue East/Stewart Road SW to 140th Avenue Court East/Stewart Road SW. The work will include illuminating roadway sections and specific lighting for the bridge and the interconnect between the existing adjacent signalized intersections. The scope of work will include up to two temporary signal designs (where each temporary signal, one at Butte and one at 140th Ave Ct E) will include up to two sequence stages. Concepts will need to be developed to provide lighting for the bridge roadway, as well as the pedestrian connection built as part of the new bridge.

Assumption(s)

1. The included fee estimate is an estimate of how CONSULTANT expects to allocate their time. CONSULTANT reserves the right to move time between tasks as needed to accomplish the overall goals of the project.
2. As coordinated with the City of Pacific and the CITY, it is assumed the lighting for this segment will be fed from the existing services at one or both signalized intersections/ services along Stewart Road SW at Butte Avenue East and/or 140th Avenue Court East.
3. Interconnect with the Union Pacific Railroad to other intersections along Stewart Road between State Route 167 and the Lakeland Development to the east will not be included in this effort; but coordination between UPRR signals, Butte Avenue East, and 140th Avenue Court East will be included.
4. This scope assumes there is no required public involvement. It is assumed that existing electrical circuits at all adjacent signalized intersections will be available for any proposed lighting, irrigation, and other power requirements.
5. It is assumed all the proposed signal equipment at the two adjacent signalized intersections from the bridge will remain in place.

Subtask 19.1 Project Management

DKS shall maintain a project file (hard copy and electronic) of project data, correspondence, reports, and documents and shall keep the CONSULTANT project manager informed of the work performed. DKS assumes that CONSULTANT will coordinate the design among disciplines. DKS' coordination with the CONSULTANT may include telephone correspondence,

email, fax, and meetings as necessary. The scope of work assumes four (4) design review meetings with the CITY and four (4) design coordination meetings with the CONSULTANT.

A part of the coordination will include limited coordination with WSP to assist them with up to three (3) meetings to review or share transportation related traffic operations data or volumes with the WSP team.

Subtask 19.2 Conceptual Designs

DKS will conduct a conceptual design review with a CITY Engineer and maintenance to document the following for the lighting and interconnect design.

- Review as-built drawings for the signalized intersections along Stewart Road SW at Butte Avenue East and 140th Avenue Court East.
- Confirm tie-in points for both the electrical and interconnect system.
- Confirmation that the existing service points at the two intersections listed above can provide adequate service for the electrical systems needed for this project.
- Review roadway lighting standards and concepts for the bridge lighting.
- Routing for interconnect to the signals on each end.
- Review equipment needs for the interconnect: type and size of fiber-optic line, conduit system, boxes at each end of the bridge, and spare conduits for the future.
- Surface utilities and potential conflicts for traffic lighting equipment.
- Roadway channelization and markings at match points for the new roadway.
- Service points for existing lighting near the transition to new roadway sections.

Subtask 19.3 Lighting Design Activities

The lighting design will include the following components.

- Roadway lighting on along Stewart Road SW from Butte Avenue East to 140th Avenue Court East, including bridge lighting for the roadway and pedestrian pathway.
- This design will utilize roadway lighting along the roadway, no street lighting on the bridge, but will require some supplemental lighting for the pedestrian pathway along the bridge segment. Lighting will be assumed necessary from a sconce light luminaire on both sides of the barrier adjacent to the bridge pathway. Lighting along bridge will be for pedestrian use only and shielded.
- The permanent lighting for the pedestrian lighting will need to accommodate the temporary phase of construction that constructs a bridge to the north of the existing, then reconstructs the existing bridge and in a final stage, constructs the barrier that would separate the roadway from the pedestrian bridge section. In this phase, the connection of the pedestrian lighting for the barrier would be connected. This would require bridge rated junction boxes to be installed as part of the intermediate construction stage or another method to protect the interim tie in point for the pedestrian and roadway illumination.

- An optimal illumination design would provide for roadway lighting that would accommodate or reduce construction phasing of the lighting required for the pedestrian trail or to have the final pedestrian trail lighting directly integrated with the final barrier that separates roadway and trail.

The lighting design assumes that standard off-the-shelf lighting poles, pole foundations, and lighting hardware (fixtures, cabinets, and junction boxes) will be used for the design. This may include CITY Standard Drawings, WSDOT Standard Drawings, and/or drawings and catalog cuts from pole vendors approved by the CITY.

The first submittal will be a preliminary design that is presented in a meeting. There will be no formal review process at this step. The primary goal will be to finalize approximate pole types, pole locations, and lighting levels by area.

Formal submittal of the lighting plans will be made with the rest of the design package at the 60 percent, 90 percent and final completion levels. The 60 percent submittal will include plans completed to the 60 percent level, an outline of the specifications and a cost estimate. The 90 percent submittal will incorporate comments from the 60 percent plans and include a complete set of specifications along with an update estimate. It is assumed a final set of plans and specifications showing resolution of 90 percent comments will be submitted just prior to submittal of the ad-ready signed set of bid plans.

The lighting plans will be prepared at 1-inch = 20-foot scale. The plans will include the location of all poles, wire schedules, mounting details, construction and installation notes, removal notes and service details. The following plan sheets will be required for lighting.

- Roadway and Pedestrian Level Lighting: two sheets
- Lighting Pole Schedule: one sheet
- Circuit Schematics: one sheet
- Illumination Details: one sheet
- Interconnect Layout: one sheet
- Miscellaneous Details: two sheets

It is assumed spare conduit for future use with separate junction boxes will be installed along the new roadway segments and across the lid. This conduit and the associated junction boxes will be included on the lighting plans.

It is assumed the CITY will provide a copy of the typical special provisions used in the CITY for traffic signal and lighting projects. The specifications will be prepared in WSDOT standard form. DKS will modify Divisions 8 and 9 of the specials.

Lighting Calculations

DKS will use the CITY's lighting design criteria for illuminance, uniformity, and glare to determine the lighting requirements for the roadway-level lighting along Stewart Road SW. DKS will use the AGI32 lighting software to conduct the light-level analysis.

DKS will only be responsible for designing the circuitry and the service for the lighting. Lighting calculations will be performed for the pedestrian lighting for the bridge segment which will be supplemented by the roadway lighting off the bridge.

Roadway light standards will be designed and installed by PSE. DKS will coordinate design with PSE.

Subtask 19.4 Signal Design

Subtask 19.4A Signal Interconnect Design

The signal design will follow the same submittal process as the lighting plans. The signal design will follow the CITY's signal design standards. DKS' design of the proposed traffic signals will include the following plan sheets.

Interconnect (up to two sheets): A 1-inch = 30-foot scale plan will be created to show the connection of the Stewart Road SW/ Butte Avenue East traffic signal to Stewart Road SW/140th Court East traffic signal for connection to the signal network. The fiber will be installed into the controller cabinet or spliced to existing fiber in a nearby splice vault. It is assumed the fiber-optic interconnect will be installed in a combination of new and existing conduit.

Design Details (two sheets): Sheets will document the fiber splicing and/or communication hardware requirements.

Subtask 19.4B Temporary Signal Design

The signal design will provide up to two (2) temporary signal designs. One temporary signal design at Stewart/Butte and one temporary signal design at Stewart/ 140th Ave Ct E. Each signal design will include up to (2) stages for the temporary signal before the system is returned to the existing condition.

Stage 1 will include a widened bridge on the north side of the existing, which will allow for one lane in each direction.

Stage 2 will include a shift to the new bridge on the north and reconstruction of the existing bridge.

1. This stage will require temporary signals to provide visibility for EB vehicles as they approach the 140th Ave Ct E intersection shown below. The assumption is that these signal indications will be tied into the existing signal and utilize temporary poles mounted with a span wire across the west leg of the 140th Ave Ct. E/ Stewart Road intersection.



Image 2 – Temp Staging Sequence at 140th Ave

2. The other temporary signal that may be required will be utilized at the Butte Ave SE intersection shown below. This temporary signal will be utilized for the EB movement to provide signalization tied into the existing signal. The temporary poles will likely be located on the east leg and provide advanced notice of the signal for the WB movement as well as provide guidance for the EB movement to head north during this first phase of construction detour. This signal equipment will tie into the existing signal controller during construction.

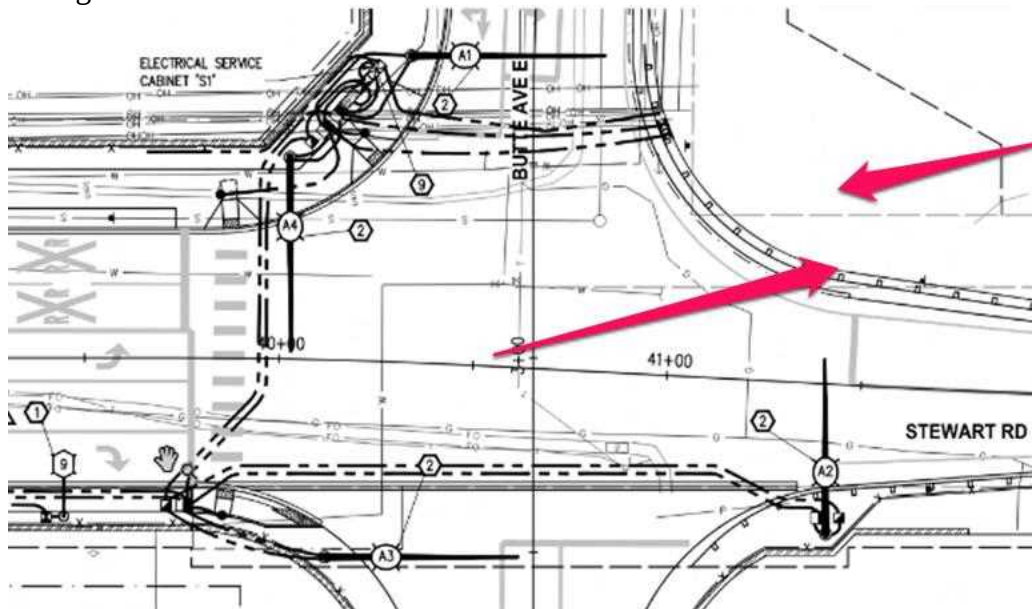


Image 3 – Temp Staging Sequence at Butte Ave

Stage 3 will include a shift to the re-constructed south bridge so that final pieces can be designed on the north bridge to tie in the barrier that will separate the trail from the roadway movements. Again, the temporary signal from Stage 1 will be utilized.

Stage 4 will include normal operations of the bridge and trail elements.

Temporary Signal Plans (2 Sheets): 1"=20' scale design plans. These plans will identify the type and location of temporary poles, junction boxes, conduit and other traffic control equipment. The plan will include signal standard types and locations, vehicle signal displays, pedestrian signal displays, phase diagram, wiring schedule, signal pole mounted signage and video detection. The design will also locate the new traffic signal cabinet, service cabinet and service feed.

Design Details (2 Sheets): One detail sheet will be provided to show miscellaneous traffic signal details and the second sheet will document video detection.

Subtask 19.4C Final Signal Design

The signal design at Stewart Road/Butte will utilize the previous warrant analysis and current signal design.

It is assumed this design will utilize video/radar detection to minimize impacts and coordination with the adjacent bridge construction.

Signal Plans (up to 2 Sheets): 1"=20' scale design plans. These plans will identify the type and location of new poles, junction boxes, conduit and other traffic control equipment. The plan will include signal standard types and locations, vehicle signal displays, pedestrian signal displays, phase diagram, wiring schedule, signal pole mounted signage and video detection.

It is assumed all the existing signal poles, service, cabinet, lighting, and other signal infrastructure will remain at the intersection.

There may be a need for updating the detection at the intersection or incorporating video/radar detection for the WB leg of Stewart Road after the east leg is widened.

Design Details (2 Sheets): One detail sheet will be provided to show miscellaneous traffic signal details and the second sheet will document the fiber splicing and/or communication hardware requirements.

It is assumed that subsurface boring (by others) will be used for the design of the pole foundations.

Subtask 19.4D Coordination with UPRR - Railroad Interconnect

CONSULTANT will coordinate with the CITY and Union Pacific Railroad (UPRR) in up to five (5) meetings to review signal timing and railroad interconnect in coordination with both King County and Pierce County to provide traffic and signal timing data to update interconnect with UPRR crossing.

Assumptions:

1. The City will request that KPG will provide CONSULTANT the synchro analysis performed for City of Pacific along the corridor utilizing the 2017 traffic data.

2. Signal timing between Butte Ave and Valentine intersections will already be coordinated with UPRR crossing and this effort will be to update Butte Ave intersection lighting timing and incorporate 140th signal into timing.

Subtask 19.5 Specifications and Cost Estimate

It is assumed the CITY will provide a copy of the typical special provisions used in the City for traffic signal and lighting projects. The specifications will be prepared in WSDOT standard form. DKS will modify Divisions 8 and 9 of the special provisions as necessary to meet the specific needs of the signal and lighting design.

DKS will prepare a construction cost estimate with the 60%, 90% and 100% submittals.

Subtask 19.6 Bidding

Reserved for Phase 3 scope.

Deliverable(s)

- Minutes from interconnect and lighting specific design meetings
- Updated traffic and signal timing data for UPRR coordination
- Short memorandum summarizing results of phasing analysis
- Lighting calculations
- Preliminary design plans (ten 11 by 17 copies)
- 60 percent PS&E (ten 11 by 17 copies)
- 90 percent PS&E (ten 11 by 17 copies)
- 100 percent proof set of plans and specifications (two 11x by 17 copies)
- 100 percent PS&E (one full size and one-half size signed original).

TASK 20.0 – TRAFFIC CONTROL – NEW

The CONSULTANT shall prepare the traffic control plans for the project. The project will be constructed in four principal traffic sequences.

1. Traffic is maintained on the existing road and bridge, while north half of the bridge and roadway is constructed.
2. Traffic moved to north onto the staged new bridge and roadway, while existing bridge is demolished, the south half of the new bridge and roadway is constructed. The SUP median barrier is not constructed, and temporary barrier is placed on both sides of the new bridge and walls.
3. The full bridge and roadway are built, traffic is moved south, and the SUP and north edge of roadway are completed.
4. Roadway is open, with minor construction activities to wrap up project.

Deliverable(s)

See Tasks 14, 24, and 25 for PS&E documents.

TASK 21.0 – STORMWATER POLLUTION PREVENTION PLAN – NEW

This task includes preparing a Stormwater Pollution Prevention Plan (SWPPP) for the site in accordance with Ecology’s 2014 Stormwater Management Manual for Western Washington. The SWPPP will address recommended best management practices (BMPs) the contractor should use on the site to address temporary erosion and sediment control, agency requirements, calculations, and testing protocols. A draft of the SWPPP shall be prepared and submitted to the CITY for review. CITY comments will be addressed and a final SWPPP prepared. The SWPPP will be included in the contract documents for the contractor to use and update, as required, to meet their construction sequencing and methods throughout the duration of the project.

Deliverable(s)

- Draft SWPPP, responses to comments, and final SWPPP in PDF format and three hard copies.

TASK 22.0 – SUMNER WATER SYSTEM DESIGN – NEW

The Sumner Water District (SWD) has a 16-inch water line attached to the upstream side of the bridge that will be relocated to the new bridge. This will involve the replacement of approximately 600 linear feet of water line.

This task involves preparing design details for relocation and/or extension of existing water distribution system facilities, including pipes, fire hydrants, blow off assemblies, and related items to accommodate the roadway and bridge. The design shall be prepared per the requirements of the SWD water system comprehensive plans and the CITY’s standard design specifications, as well as in coordination with SWD water utility representatives. The design shall include provisions to maintain water quality, pressure, and flow during construction of new facilities, and relocation and modification of existing facilities.

1. Coordinate with SWD water utility representatives to determine requirements for extension of water mains and fire hydrants on and across new bridge, include looping and interconnection of water mains as appropriate.
2. Analyze and coordinate with SWD representatives on limits of pipes and related water facilities to be abandoned or replaced during construction.

Water System Design – Sumner

This task will include preparation of plans, technical specifications, and supporting calculations of the permanent water line. Technical specifications will be prepared as special provisions to the 2020 WSDOT Standard Specifications.

Deliverable(s)

- Exhibits and meeting minutes for up to two meetings with the SWD

See Tasks 14, 24, and 25 for PS&E documents.

TASK 23.0 – PUBLIC INTEREST FINDINGS SUPPORT - NEW

The CONSULTANT shall research and prepare up to five Public Information Finding (PIF) documentation to get approval from WSDOT. It is assumed that there will be proprietary components that will each need a separate PIF.

Deliverable(s)

- Five PIFs for WSDOT approval

TASK 24.0 – CONSTRUCTION SPECIFICATIONS – NEW

WSDOT Standard Specifications for Road, Bridge, and Municipal Construction (2014) will be the standard specifications for the work. The CONSULTANT prepares the general special provisions and project-specific special provisions required for construction of the project. The specials will be prepared in draft format.

The CITY will provide guidance for Division 1 special provisions and contractual documents required for advertisement. The draft version of these will be included at the 100 percent submittal stage. CITY comments will be addressed for the 100 percent and final submittals.

Deliverable(s)

- 90 percent Specifications – one PDF copy
- Final Specifications – one PDF copy
- Ad-Ready Submittal – three hard copies of specifications, including one unbound original and one PDF copy

TASK 25.0 – CONSTRUCTION COST ESTIMATE – NEW

A list of bid items will be prepared, conforming as much as possible to the WSDOT standard item table. Every bid item will have a description, measurement unit, and payment description somewhere in the specifications. Quantities and unit prices will be estimated for every bid item. Unit prices will be estimated from recent bid experience with similar projects, WSDOT unit bid analysis, contractor inquiries, and means construction estimating manuals.

A construction cost estimate shall be prepared for the 60 percent, 90 percent, 100 percent, and final submittals. This estimate will be used as the basis of review for the lowest responsive responsible bidder.

Deliverable(s)

- 60 percent Cost Estimate – two electronic copies (one PDF and one in Microsoft Excel)
- 90 percent Cost Estimate – two electronic copies (one PDF and one in Microsoft Excel)
- Final Estimate – two electronic copies (one PDF and one in Microsoft Excel)
- Ad-Ready Submittal – three hard copies of the construction cost estimate; one electronic copy (PDF) of the construction cost estimate; one electronic copy (Microsoft Excel) of the construction cost estimate

TASK 26.0 – CONSTRUCTION SCHEDULE – NEW

The CONSULTANT will prepare a draft construction schedule based on the final PS&E documents. Based on the CITY review and the independent review in Task 13, the ad-ready submittal schedule will be developed.

Deliverable(s)

- Final construction schedule – one PDF copy
- Ad-Ready Submittal – construction schedule – one PDF copy

TASK 27.0 – PROJECT AD, BID AND AWARD SERVICES - RESERVED

Reserved for Phase 3 scope.

TASK 300 – PROJECT MANAGEMENT (RIGHT-OF-WAY) - SUPPLEMENT

Project management for ROW acquisition includes additional effort to address coordination with the CITY and WSDOT Local Programs. This level of effort is identified in Appendix E.

No change to deliverables.

TASK 310 – RIGHT-OF-WAY ACQUISITION AND RELOCATION SERVICES (TIERRA) - SUPPLEMENT

The level of effort estimate was modified over the last 18 months to support the environmental process. The fee estimate of \$33,028.00 is herein reestablished to Tierra to complete the previously agreed upon SOW with an additional effort for coordination and updating the ROW appraisal. The level of effort is shown in Appendix E.

Reams Property is removed from the ROW effort.

No change to deliverables.

SECTION CE – CONTINGENCY TASKS

The table below is a summary of contingency tasks that the CITY, at its discretion, may authorize the CONSULTANT to produce. Details of the contingency tasks and associated deliverables are stated in the task sections of this SOW. CONSULTANT shall complete only the specific contingency task(s) identified and authorized via written (email acceptable) NTP issued by CITY's PM.

If the CITY chooses to authorize some or all of these tasks, CONSULTANT shall complete the authorized tasks and deliverables per the schedule identified for each task. The NTP will include the contingency task name and number, due date for completion, and agreed-to NTE for the authorized contingency task.

Each contingency task is only billable (up to the NTE amount identified for the task) if specifically authorized per NTP. In the table below, the "NTE for Each" amount for a contingency task includes all labor, overhead, profit, and expenses for the task. The funds budgeted for contingency tasks may not be applied to non-contingency tasks without a fully

executed amendment. The total amount for all contingency tasks authorized shall not exceed the maximum identified in the table below. Each authorized contingency task must be billed as a separate line item on CONSULTANT's invoice.

Contingency Task Summary Table

TASK	DESCRIPTION	CONTINGENCY NTE AMOUNT
Subtask 1.5	Project Demobilizations and Restarts	\$24,464
Subtask 4.2	Work Bridge and Cofferdam Hydraulic Impact Evaluation	\$17,328
Subtask 7.5	Biological Assessment	\$13,392
Subtask 7.9	Environmental Classification Summary (NEPA CE Process)	\$11,700
Subtask 13.1	BUILD Grant & Tiger Grant Assistance	\$235,259
Subtask 13.2	Project Graphics	\$22,577
Total Contingency Amount		\$324,720

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP

12/16/2020

City of Sumner - Stewart Road Bridge - Phase 2 - PS&E
Supplement #8

DIRECT SALARY COSTS (DSC) for WSP

	<u>Hours</u>	<u>Rate</u>		<u>Cost</u>
Project Managers	760	\$ 90.47	\$	68,758
Civil Project Engineer / QAQC	1,076	\$ 83.29	\$	89,621
Bridge Project Engineer / QAQC	898	\$ 88.18	\$	79,186
Structural Engineer / Grant Lead	2,010	\$ 59.21	\$	119,020
Civil Engineer / Planner / BCA	2,145	\$ 49.70	\$	106,598
Designer / CAD Oper.	2,692	\$ 46.38	\$	124,857
Project Coord. / Admin. / Graphics	258	\$ 43.70	\$	11,274
WSP Hours, TOTAL	9,839	Subtotal Direct Salary Costs (DSC) =	\$	599,314
		Salary Escalation of DSC for FY 2023 (SE) at=	6.75%	\$ 40,443
		Subtotal (DSC + SE) =	\$	639,758
	Overhead (OH)	138.27%	of (DSC + SE) =	\$ 884,593
	Fixed Fee (FF)	33.00%	of (DSC + SE) =	\$ 211,120
	TOTAL SALARY COSTS (DSC + SE + OH + FF) =			\$ 1,735,470

DIRECT NONSALARY COSTS (DNSC)

Misc Expenses - EDR Report	1 Report @	\$ 400	\$	400
Mileage	400 miles @	\$ 0.575	\$	230
Drawing Reproduction	5 packages @	\$ 350	\$	1,750
Utility Locate Verification	2 Verificatinons	\$ 5,000	\$	10,000
APS Potholing Services	25 Potholes @	\$ 1,100	\$	27,500
Courier and Postage	2 packages @	\$ 50	\$	100
Misc.		\$ 120	\$	120
	TOTAL REIMBURSABLE EXPENSES (DNSC) =			\$ 80,200

TOTAL WSP FEE (DSC + SE + OH + FF + DNSC) = \$ 1,815,670

**EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP**

12/16/2020

SUBCONSULTANTS

Survey & Basemapping (Knudsen-Beyler)	\$	47,972
Geotechnical Engineering (PanGeo)	\$	66,142
Bridge Hydraulic Services (West)	\$	60,947
Environmental Documentation, BA, & Permit Coordination (Widener)	\$	97,900
Risk Assessment & Constructability Review (Ott-Sakai)	\$	22,363
Lighting & Interconnect (DKS)	\$	87,978
ROW Fee Adjustment (Tierra)	\$	33,028
Additional ROW Services (Tierra)	\$	10,209

TOTAL SUBCONSULTANT FEES = \$ 426,540

TOTAL NON-CONTINGENCY AMOUNT FOR PROJECT = \$ 2,242,210

CONTINGENCY FUNDS

TOTAL PHASE 2 SUPPLEMENT CONTINGENCY AMOUNT = \$ 324,720

MANAGEMENT RESERVE

MANAGEMENT RESERVE FOR OTHER UNANTICIPATED PROJECT ISSUES = \$ 100,000

TOTAL PHASE 2 SUPPLEMENT AMOUNT = \$ 2,666,930

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP

12/16/2020

City of Sumner - Stewart Road Bridge - Phase 2 - PS&E
Supplement #8

DIRECT SALARY COSTS (DSC) for WSP - Contingency Costs

	<u>Hours</u>	<u>Rate</u>		<u>Cost</u>
Project Managers	46	\$ 90.47	\$	4,162
Civil Project Engineer / QAQC	240	\$ 83.29	\$	19,990
Bridge Project Engineer / QAQC	22	\$ 88.18	\$	1,940
Structural Engineer / Grant Lead	176	\$ 59.21	\$	10,422
Civil Engineer / Planner / BCA	544	\$ 49.70	\$	27,035
Designer / CAD Oper.	56	\$ 46.38	\$	2,597
Project Coord. / Admin. / Graphics	716	\$ 43.70	\$	31,288
WSP Hours, TOTAL	1,800	Subtotal Direct Salary Costs (DSC) =	\$	97,433
(Directed Services - Unidentified SOW) Subtotal Direct Salary Costs (DSC) =				\$ -
Salary Escalation of DSC for FY 2023 (SE) at= 6.75%				\$ 6,575
Subtotal (DSC + SE) =				\$ 104,008
Overhead (OH)	138.27%	of (DSC + SE) =	\$	143,812
Fixed Fee (FF)	33.00%	of (DSC + SE) =	\$	34,323
TOTAL SALARY COSTS (DSC + SE + OH + FF) =				\$ 282,143

DIRECT NONSALARY COSTS (DNCS)

Grant Application Support Documents	\$ 157	\$	157
TOTAL REIMBURSABLE EXPENSES (DNCS) =			\$ 157

TOTAL WSP FEE (DSC + SE + OH + FF + DNCS) =	\$ 282,300
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SUBCONSULTANTS

Survey & Basemapping (Knudsen-Beyler)	\$	-
Geotechnical Engineering (PanGeo)	\$	-
Bridge Hydraulic Services (West)	\$	17,328
Environmental Documentation, BA, & Permit Coordination (Widener)	\$	25,092
Risk Assessment & Constructability Review (Ott-Sakai)	\$	-
Lighting & Interconnect (DKS)	\$	-
ROW Fee Adjustment (Tierra)	\$	-
Additional ROW Services (Tierra)	\$	-
TOTAL SUBCONSULTANT FEES =		\$ 42,420

TOTAL CONTINGENCY AMOUNT FOR PROJECT =	\$ 324,720
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EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP

12/16/2020

City of Sumner - Stewart Road Bridge - PS&E					
Supplement #8			Project Manager		
Project Role	Grade	Name	Base Wage Rate	% Participation	Blended Hourly Rate
Project Managers					
Managing Director, Structural Engineer	P-14	Bob Fernandes	\$107.59	5%	
Director, Advisory Services	P-14	Sylvia Garcia	\$100.97	5%	
Director, Civil Engineer	P-13	Steven True	\$86.98	30%	
Director, Structural Engineer	P-13	Stuart Bennion	\$89.91	60%	
					\$ 90.47
Civil Project Engineer / QAQC					
Sr. Lead Consultant, Civil Engineer	P-12	Connie Linden	\$65.00	20%	
Director, Civil Engineer	P-13	Steve True	\$86.98	65%	
Director, Civil Engineer	P-13	Anthony Lo	\$91.69	15%	
					\$ 83.29
Bridge Project Engineer / QAQC					
Director, Structural Engineer	P-13	Stuart Bennion	\$89.91	80%	
Sr. Lead Consultant, Structural Engineer	P-12	Kare Hjorteset	\$81.25	20%	
					\$ 88.18
Structural Engineer / Grant Lead					
Sr. Lead Consultant, Structural Engineer	P-12	Yeliz Firat	\$59.88	40%	
Sr. Lead Consultant, Gratin Lead	P-13	Sierra Laventure-Volz	\$60.10	10%	
Sr. Lead Consultant, Structural Engineer	P-12	Miranda Hagadorn	\$58.50	50%	
					\$ 59.21
Civil Engineer / Planner / BCA					
Lead Consultant, Civil Engineer	P-11	Jon Corkery	\$55.62	15%	
Sr. Lead Consultant, Env. Engineer	P-12	Dan Roscoe	\$60.20	5%	
Lead Consultant, Civil Engineer	P-11	Jourden Makinen	\$49.75	40%	
Consultant, Civil Engineer	P-09	Jodhvir Singh	\$43.75	30%	
Lead Consultant, BCA Lead	P-11	Sophie Cohen	\$53.18	10%	
					\$ 49.70
Designer / CAD Oper.					
Lead Design Support Specialist	T-10	John Reyes	\$48.73	40%	
Lead Technical Engineering Support Spe	T-10	Pavel Lavochin	\$40.73	50%	
Sr. Manager, Application Support	P-12	Jef Blake	\$65.23	10%	
					\$ 46.38
Project Coord. / Admin. / Graphics					
Specialist, Marketing	A-08	Nora Bretana	\$39.35	30%	
Graphics Specialist	P-09	Aaron Savage	\$45.81	15%	
Graphics Specialist	A-09	Jessie Jones	\$54.35	15%	
Consultant, Project Accounting	P-09	Kelly Robinson	\$42.17	40%	
					\$ 43.70

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TASK 1 - Project Management	1	490	248	248	104	182	118	159	1,549
TASK 1 - Project Management [CONTINGENCY]	1	24	16	16	16	16	16	24	128
Project Coordination (24 Months)	1.1	88	76	-	-	-	-	123	287
Prepare Monthly Invoices		24						60	84
Prepare Monthly Progress Reports		24							24
Prepare and Update Project Schedule (assume quarterly)		12	48						60
Prepare subconsultant agreements (7 total)		14						21	35
Maintain Contract-required Documentation		14	28					42	84
Meetings and Coordination	1.2	168	48	96	48	96	48	-	504
Project Team Meetings		48	48	48	48	48	48		288
Coordination Meetings with CITY Staff		120		48		48			216
Stakeholder Meetings with CITY Staff									-
Prepare Stakeholder Meeting Notes									-
Interagency Coordination (Pierce County)	1.3	4	4	-	8	24	24	-	64
Coordination Meetings (by CITY)									-
Exhibits		4	4	-	8	24	24		64
Quality Assurance	1.4	200	120	120				24	464
Project Demobilizations and Restarts [CONTINGECY]	1.5	24	16	16	16	16	16	24	128
Practical Design Workshop w/ CITY	1.6	30	-	32	48	62	46	12	230
Meeting Preparation / PowerPoint		16		12	16	16	16	8	84
Workshop & Notes		4		4		4		1	13
Alternatives Evaluation		4		4	32	32	12		84
Draft Memorandum		4		8		6	12	2	32
Final Memorandum		2		4		4	6	1	17
TASK 2 - Survey and Base Mapping	2	2	6	6	-	16	16	-	46
SURVEY & BASEMAPPING (Knudsen-Beyler)		See Beyler Estimate							
Review Survey and Basemap Files		1	4	4		8	16		33
Design Coordination with Survey		1	2	2		8			13
TASK 3 - Geotechnical	3	4	6	6	10	8	-	-	34
GEOTECHNICAL ENGINEERING (PANGEO)		See PanGeo Estimate							
Support with exploration ROEs & permits (CITY to acquire)		4	12			6	16		38
Review Draft & Final Geotech Report		2	4	4	6	4			20
Design Coordination with Geotech		2	2	2	4	4			14
TASK 4 - River Hydraulics	4	6	4	4	16	12	-	-	42
BRIDGE HYDRAULIC SERVICES (West)		See West Estimate							
Review Draft & Final Hydraulic Memos & Reports		4			8	4			16
Design Coordination with Hydraulics		2	4	4	8	8			26

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TASK 5 - Bridge Study (Closed)	5	-	-	-	-	-	-	-	-
TASK 6 - Preliminary Roadway & Storm (Closed)	6	-	-	-	-	-	-	-	-
TASK 7- Environmental Documentation / BA / Permitting	7	-	-	-	-	-	-	-	-
Environmental Documentation/BA/Permitting		See Widener Estimate							
TASK 8 - Environmental Support	8	25	50	34	16	72	40	-	237
Coordination with Environmental Subconsultant	8.1	12	24	24	8	8			76
Prepare Environmental Exhibits	8.3	8	8	8	8	24	40		96
Phase I Environmental Site Assessment	8.4	5	18	2	-	40	-	-	65
Site Visit and interviews						8			8
Coordination with WSDOT & City		2	8			8			18
Ecology Database / EDR / Historical Records Review		1	2			12			15
Review Draft & Final Report		2	8	2		12			24
TASK 9 - Traffic Signal Warrant Analysis (DKS) – Closed	9	-	-	-	-	-	-	-	-
TASK 10 - ROW Support Services (UFS) - Closed	10	-	-	-	-	-	-	-	-
TASK 11 - Utility Coordination	11	29	63	-	-	133	72	3	300
Attend Utility Coordination Meetings with Utility Companies at the City (3 meetings)	11.1	15	15			15		3	48
Coordination with Utility Companies - Research	11.2	8	12			60	16		96
Utility Pothole Plan & Coordination with APS	11.3	2	12			16	16		46
Utility Relocation Plan	11.4	4	24	-	-	42	40	-	110
Prepare Utility Relocation Plans		4	12			32	40		88
Attend Utility Coordination Meetings with City (2 mtgs)			12			10			22
TASK 12 - Risk Assessment & Constructability Review	12	4	-	12	4	-	-	-	20
Review & Incorporate Comments		See Ott-Sakai Estimate							
		4		12	4				20
TASK 13 - Directed Services [CONTINGENCY]	13	22	224	6	160	528	40	692	1,672
BUILD Grant & Tiger Grant Assistance [CONTINGENCY]	13.1	16	218	-	160	528	-	592	1,514
INFRA Grant application Round 1 - Traffic Analysis			84			208		24	316
INFRA Grant application Round 1 - Application		4	10		80	80		200	374
BUILD Grant Application Round 1 - Traffic Analysis			40			64		16	120
BUILD Grant Application Round 1 - Application		4	8		32	32		144	220
INFRA Grant application Round 2 - Traffic Analysis			32			48		8	88

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
INFRA Grant application Round 2 - Application		4	6		24	24		96	154
BUILD Grant Application Round 2 - Traffic Analysis			32			48		8	88
BUILD Grant Application Round 2 - Application		4	6		24	24		96	154
Project Graphics [CONTINGENCY]	13.2	6	6	6	-	-	40	100	158
3-D CAD Development		2					40	4	46
Image Modelling		2	4	4				80	90
Exhibit Development (12 images / 2 videos)		2	2	2				16	22
TASK 14 - Roadway Design	14	8	304	4	-	1,090	1,146	8	2,560
Roadway Geometry	14.1	2	22	-	-	136	124	-	284
Determine Design Criteria & Roadway Limits			2			16	4		22
Develop Cross-sections			2			8	16		26
Review Sight Distance			2			16	-		18
AutoTurn Analysis			2			16	16		34
ADA Analysis			2			16	16		34
Develop Roadway Conceptual Design			2			16	16		34
Review Roadway Conceptual Design with City		2	2						4
Finalize Roadway Conceptual Design			2			8	8		18
Roadway Signage			2			16	8		26
Roadway Modeling			4			24	40		68
Project Construction Staging	14.1	4	14	4	-	30	20	-	72
Develop Construction Staging/ Phasing Concepts			8			24	16		48
Review Construction Staging/ Phasing Concepts with City		4	4	4					12
Finalize Construction Staging/ Phasing Concepts			2			6	4		12
Landscaping, Irrigation, & Planting	14.1	2	4			60	20		86
Roadway Drawings	14.2								
60% Plan Submittal		-	80	-	-	262	295	2	639
Drawings		-	76	-	-	246	295	-	617
Address City Comments			4			16		2	22
90% Plan Submittal		-	106	-	-	344	393	4	846
Drawings		-	102	-	-	328	393	-	822
Address City Comments			4			16		4	24
Final Plan Submittal		-	53	-	-	176	196	2	427
Drawings		-	51	-	-	164	196	-	411
Address City & WSDOT Comments			2			12		2	16
Ad-Ready Plan Submittal		-	25	-	-	82	98	-	206
Drawings		-	25	-	-	82	98	-	206

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TASK 15 - Drainage & Storm Design	15	-	64	-	-	100	16	14	194
Final Stormwater Design	15.3	-	64	-	-	100	16	14	194
Final Stormwater Design Report/Address City Comments			12			24		4	40
West Side of Bridge (City of Pacific) - Backwater Analysis			16			32		2	50
West Side of Bridge - Drainage Design			6			8	4	2	20
West Side of Bridge - Treatment System & Discharge to River			6			8	4	2	20
East Side of Bridge - Drainage Design			6			8	4	2	20
East Side of Bridge - Treatment System & Discharge to River			6			8	4	2	20
Coordinate West Outfall Design w/City of Pacific			6			6			12
Coordinate/Incorporate Envir. Permit Requirements			6			6			12
Drainage Drawings (Not Included Here)		See Task 14 for Drawings							-
TASK 16 - Walls & Ground Improvement	16	18	8	92	284	24	-	-	426
Ground Improvement	16.1	4	8	16	48	24	-		100
Walls	16.2	14	-	76	236	-	-	-	326
SW Corner (Wire Basket)		2		12	40				54
NW Corner (Wire Basket)		2		12	40				54
Temp Wall West (Geosynthetic)		1		8	16				25
Right Bank Levee Tie-in		4		16	60				80
SE Corner (Block Wall/Geosynthetic)		2		10	32				44
NE Corner (Block Wall/Geosynthetic)		2		10	32				44
Temp Wall East (Geosynthetic)		1		8	16				25
Drawings (Not Included Here)		See Task 18 for Drawings							-
TASK 17 - Levee Design	17	6	14	-	32	68	-	-	120
Levee Design	17	6	14	-	32	68	-	-	120
Coordinate with Design Team (Env., Hyd., & Geo.)		2	2		4	4			12
Review King County Design			2		4	4			10
Levee Design		2	8		24	60			94
Coordination with Pierce County & City		2	2						4
Drawings (Not Included Here)		See Task 14 for Drawings							-
TASK 18 - BRIDGE ENGINEERING	18	83	-	450	1,432	-	1,272	6	3,243
Design	18.1	16	-	120	440	-	-	-	576
Analysis		8		80	280				
Component Calculations		8		40	160				208
In-Water Construction Methods	18.2	4	-	8	48	-	-	-	60

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
Structural Drawings	18.3								
60% Plan Submittal		10	-	34	105	-	127	2	278
Drawings		6	-	32	89	-	127	-	254
Address City Comments		4		2	16			2	24
90% Plan Submittal		30	-	160	468	-	636	2	1,296
Drawings		30	-	158	444	-	636	-	1,268
Address City Comments				2	24			2	28
Final Plan Submittal		18	-	97	282	-	382	2	781
Drawings		18	-	95	266	-	382	-	761
Address City & WSDOT Comments				2	16			2	20
Ad-Ready Plan Submittal		6	-	32	89	-	127	-	254
Drawings		6	-	32	89	-	127	-	254
TASK 19 - Lighting & Interconnect	19	12	28	8	-	48	-	-	96
		See DKS Estimate							
Review & Incorporate Comments		4	12	4		16			36
Design Coordination for Lighting		4	8	2		16			30
Design Coordination for Traffic		4	8	2		16			30
TASK 20 - Traffic Control	20	7	28	7	14	56	-	-	112
Traffic Control		7	28	7	14	56	-	-	112
Stage 1		2	8	2	4	16			32
Stage 2		2	8	2	4	16			32
Stage 3		2	8	2	4	16			32
Final Condition		1	4	1	2	8			16
Drawings (Not Included Here)		See Task 14 for Drawings							-
TASK 21 - Stormwater Pollution Prevention Plan	21	-	32	-	-	46	-	10	88
Draft SWPPP		-	24	-	-	36	-	6	66
Prepare Draft SWPPP			16			32		4	52
Response to Comments			8			4		2	14
Final SWPPP		-	8	-	-	10	-	4	22
Prepare Final SWPPP			8			10		4	22

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TASK 22 - Sumner Water System Design	22	4	44	-	-	52	12	-	112
Sumner Water System		4	44	-	-	52	12	-	112
Coordinate with SWD		2	8			12			22
Analysis & Design System			24			32			56
Exhibits & Meeting with SWD		2	12			8	12		34
Drawings (Not Included Here)		See Task 14 for Drawings							-
TASK 23 - Public Interest Findings Support	23	-	80	-	-	-	-	10	90
PIF Support		-	80	-	-	-	-	10	90
Research Project Elements w/ PIF			40						40
Develop PIF (5 PIFs)			40					10	50
TASK 24 - Construction Specifications	24	9	42	16	50	130	-	14	261
90% Specification Submittal		4	19	10	30	56	-	4	123
Amendments			1			2			3
Division 1 City Support		2	8			24		2	36
Division 2 - 9		2	8	8	24	24		2	68
Address City Comments			2	2	6	6			16
Final Specification Submittal		4	21	4	12	62	-	4	107
Amendments			1			2			3
Division 1 City Support		2	12			36			50
Division 2 - 9		1	2	2	8	12		2	27
Appendices		1	4			6		2	13
Address City & WSDOT Comments			2	2	4	6			14
Ad-Ready Specification Submittal		1	2	2	8	12	-	6	31
TASK 25 - Construction Cost Estimate	25	5	11	11	48	108	-	16	199
60% Cost Estimate Submittal		2	6	6	24	60	-	6	104
90% Cost Estimate Submittal		1	2	2	12	24	-	6	47
Final Cost Estimate Submittal		1	2	2	8	16	-	2	31
Ad-Ready Cost Estimate Submittal		1	1	1	4	8	-	2	17

TASK DESCRIPTION	Task Number	Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TASK 26 - Construction Schedule	26	6	44	-	-	-	-	-	50
Final Construction Schedule		4	32	-	-	-	-	-	36
Ad-Ready Construction Schedule		2	12	-	-	-	-	-	14
TASK 27 - Project AD, BID & Award Services	27	-	-	-	-	-	-	-	-
Final Construction Schedule		-	-	-	-	-	-	-	-
Prepare Addenda & Response to Bidders (3 Addenda)									-
Attend Pre-Advertisement Meeting									-
RFI Response (20)									-
TASK 300 - Project Management	300	42	-	-	-	-	-	18	60
Project Coordination	300.1	24							24
Meetings and Coordination	300.2	18						18	36
TASK 310 - Right-of-Way Support Services (Tierra)	310	-	-	-	-	-	-	-	-
		See Tierra Estimate							
Total Hours		806	1,316	920	2,186	2,689	2,748	974	11,639
Total Hours (Contingency)		46	240	22	176	544	56	716	1,800
Total Hours (Non-Contingency)		760	1,076	898	2,010	2,145	2,692	258	9,839

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Civil Drawing List
12/16/2020

DRAWING LIST	Number of Civil Drawings	Project Manager	Civil Project / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / BCA Planner	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
TASK DESCRIPTION	DSC	\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
GENERAL-CIVIL PLANS		-	10	-	-	16	44	-	70
COVER SHEET AND VICINITY MAP	1		2			2	8		12
GENERAL SHEETS - DRAWING INDEX & GENERAL NOTES	2		2			2	8		12
GENERAL SHEETS - LEGENDS AND ABBREVIATIONS	3		2			4	12		18
GENERAL SHEETS - ALIGNMENT PLAN	4		2			4	8		14
GENERAL SHEETS - ROW PLAN	5		2			4	8		14
SITE PREPARATION		-	10	-	-	40	50	-	100
SITE PREPARATION PLAN - SHEET 1	6		2			8	10		20
SITE PREPARATION PLAN - SHEET 2	7		2			8	10		20
SITE PREPARATION PLAN - SHEET 3	8		2			8	10		20
SITE PREPARATION PLAN - SHEET 4	9		2			8	10		20
SITE PREPARATION PLAN - SHEET 5	10		2			8	10		20
EROSION CONTROL		-	18	-	-	66	84	-	168
TESC PLAN - GENERAL NOTES	11		2			8	10		20
TESC PLAN - SHEET 1	12		2			8	10		20
TESC PLAN - SHEET 2	13		2			8	10		20
TESC PLAN - SHEET 3	14		2			8	10		20
TESC PLAN - SHEET 4	15		2			8	10		20
TESC PLAN - SHEET 5	16		2			8	10		20
TESC NOTES & DETAILS - SHEET 1	17		2			6	8		16
TESC NOTES & DETAILS - SHEET 2	18		2			6	8		16
TESC NOTES & DETAILS - SHEET 3	19		2			6	8		16
TRAFFIC CONTROL		-	24	-	-	72	56	-	152
TRAFFIC CONTROL PLAN - SHEET 1	20		4			12	10		26
TRAFFIC CONTROL PLAN - SHEET 2	21		4			12	10		26
TRAFFIC CONTROL PLAN - SHEET 3	22		4			12	10		26

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Civil Drawing List
12/16/2020

DRAWING LIST	Number of Civil Drawings	Project Manager	Civil Project Engineer / QA/QC	Bridge Project Engineer / QA/QC	Structural Engineer / Grant Lead	Civil Engineer / BCA Planner	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
TASK DESCRIPTION	DSC	\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
TRAFFIC CONTROL PLAN - SHEET 4	23		4			12	10		26
TRAFFIC CONTROL PLAN - SHEET 5	24		4			12	8		24
TRAFFIC CONTROL PLAN - SHEET 6	25		4			12	8		24
CONSTRUCTION STAGING		-	24	-	-	48	68	-	140
CONSTRUCTION STAGING PLAN - SHEET 1	26		4			8	12		24
CONSTRUCTION STAGING PLAN - SHEET 2	27		4			8	12		24
CONSTRUCTION STAGING PLAN - SHEET 3	28		4			8	12		24
CONSTRUCTION STAGING PLAN - SHEET 4	29		4			8	12		24
CONSTRUCTION STAGING PLAN - SHEET 5	30		4			8	10		22
CONSTRUCTION STAGING PLAN - SHEET 6	31		4			8	10		22
ROADWAY SECTIONS		-	6	-	-	24	30	-	60
ROADWAY SECTIONS - SHEET 1	32		2			8	10		20
ROADWAY SECTIONS - SHEET 2	33		2			8	10		20
ROADWAY SECTIONS - SHEET 3	34		2			8	10		20
ROADWAY PLAN		-	12	-	-	30	36	-	78
ROADWAY PLAN AND PROFILE - SHEET 1	35		4			10	12		26
ROADWAY PLAN AND PROFILE - SHEET 2	36		4			10	12		26
ROADWAY PLAN AND PROFILE - SHEET 3	37		4			10	12		26
DRAINAGE PLAN		-	52	-	-	104	138	-	294
DRAINAGE PLAN AND PROFILE - SHEET 1	38		4			8	10		22
DRAINAGE PLAN AND PROFILE - SHEET 2	39		4			8	10		22
DRAINAGE PLAN AND PROFILE - SHEET 3	40		4			8	10		22
DRAINAGE PLAN AND PROFILE - SHEET 4	41		4			8	10		22
DRAINAGE PLAN AND PROFILE - SHEET 5	42		4			8	10		22
DRAINAGE ELEVATION AND DETAILS - SHEET 1	43		4			8	12		24

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Civil Drawing List
12/16/2020

DRAWING LIST	Number of Civil Drawings	Project Manager	Civil Project Engineer / QA/QC	Bridge Project Engineer / QA/QC	Structural Engineer / Grant Lead	Civil Engineer / BCA Planner	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
TASK DESCRIPTION	DSC	\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
DRAINAGE ELEVATION AND DETAILS - SHEET 2	44		4			8	12		24
DRAINAGE ELEVATION AND DETAILS - SHEET 3	45		4			8	12		24
DRAINAGE ELEVATION AND DETAILS - SHEET 4	46		4			8	12		24
OUTFALL PLAN & PROFILE - NORTH	47		4			8	10		22
OUTFALL PLAN & PROFILE - SOUTH	48		4			8	10		22
OUTFALL DETAILS - SHEET 1	49		4			8	10		22
OUTFALL DETAILS - SHEET 2	50		4			8	10		22
UTILITY PLAN		-	20	-	-	60	40	-	120
STREET UTILITY PLAN & PROFILE - SHEET 1	51		4			12	8		24
STREET UTILITY PLAN & PROFILE - SHEET 2	52		4			12	8		24
STREET UTILITY PLAN & PROFILE - SHEET 3	53		4			12	8		24
BRIDGE STAGE I UTILITY PLAN	54		4			12	8		24
BRIDGE STAGE II UTILITY PLAN	55		4			12	8		24
MISCELLANEOUS DETAILS		-	6	-	-	48	60	-	114
MISCELLANEOUS DETAILS - SHEET 1	56		1			8	10		19
MISCELLANEOUS DETAILS - SHEET 2	57		1			8	10		19
MISCELLANEOUS DETAILS - SHEET 3	58		1			8	10		19
MISCELLANEOUS DETAILS - SHEET 4	59		1			8	10		19
MISCELLANEOUS DETAILS - SHEET 5	60		1			8	10		19
MISCELLANEOUS DETAILS - SHEET 6	61		1			8	10		19
CHANNELIZATION & SIGNING		-	10	-	-	40	50	-	100
CHANNELIZATION AND SIGNING PLAN - SHEET 1	62		2			8	10		20
CHANNELIZATION AND SIGNING PLAN - SHEET 2	63		2			8	10		20
CHANNELIZATION AND SIGNING PLAN - SHEET 3	64		2			8	10		20
CHANNELIZATION AND SIGNING PLAN - SHEET 4	65		2			8	10		20
CHANNELIZATION AND SIGNING PLAN - SHEET 5	66		2			8	10		20

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Civil Drawing List
12/16/2020

DRAWING LIST	Number of Civil Drawings	Project Manager	Civil Project Engineer / QA/QC	Bridge Project Engineer / QA/QC	Structural Engineer / Grant Lead	Civil Engineer / BCA Planner	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
TASK DESCRIPTION	DSC	\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
PAVING PLAN		-	8	-	-	32	48	-	88
PAVING PLAN - SHEET 1	67						12		22
PAVING PLAN - SHEET 2	68		2			8	12		22
PAVING PLAN - SHEET 3	69		2			8	12		22
PAVING PLAN - SHEET 4	70		2			8	12		22
MISCELLANEOUS SHEETS		-	6	-	-	36	48	-	90
INTERSECTION PLAN	71		2			12	16		30
CURB RAMP DETAIL	72		2			12	16		30
DRIVEWAY PLAN AND PROFILE	73		2			12	16		30
ACCESS ROAD		-	2	-	-	8	10	-	20
ACCESS ROAD PLAN & PROFILE - SHEET 1	74		2			8	10		20
MITIGATION		-	4	-	-	20	24	-	48
MITIGATION PLAN - SHEET 1	75		2			10	12		24
MITIGATION PLAN - SHEET 2	76		2			10	12		24
LEVEE RECONSTRUCTION		-	10	-	-	60	60	-	130
LEVEE RECONSTRUCTION PLAN - SHEET 1	77		2			12	12		26
LEVEE RECONSTRUCTION PLAN - SHEET 2	78		2			12	12		26
LEVEE RECONSTRUCTION PLAN - SHEET 3	79		2			12	12		26
LEVEE RECONSTRUCTION DETAILS - SHEET 1	80		2			12	12		26
LEVEE RECONSTRUCTION DETAILS - SHEET 2	81		2			12	12		26
LANDSCAPING		-	8	-	-	48	64	-	120
LANDSCAPING PLAN - SHEET 1	82		2			12	16		30
LANDSCAPING PLAN - SHEET 2	83		2			12	16		30

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Civil Drawing List
12/16/2020

DRAWING LIST	Number of Civil Drawings	Project Manager	Civil Project Engineer / QA/QC	Bridge Project Engineer / QA/QC	Structural Engineer / Grant	Civil Engineer / BCA Planner	Designer / CAD Oper	Project Coord. / Admin / Graphics	Totals
TASK DESCRIPTION	DSC	\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	
LANDSCAPING PLAN - SHEET 3	84		2			12	16		30
LANDSCAPING PLAN - SHEET 4	85		2			12	16		30
WATERLINE			16	-	-	48	48	-	112
WATERLINE PLAN - SHEET 1	86		4			12	12		28
WATERLINE PLAN - SHEET 2	87		4			12	12		28
WATERLINE DETAILS - SHEET 1	88		4			12	12		28
WATERLINE DETAILS - SHEET 2	89		4			12	12		28
IRRIGATION			8	-	-	20	24	-	52
IRRIGATION PLAN - SHEET 1	90		4			10	12		26
IRRIGATION PLAN - SHEET 2	91		4			10	12		26
TRAFFIC SIGNAL			-	-	-	-	-	-	
TRAFFIC SIGNAL PLAN - SHEET 1	92								
TRAFFIC SIGNAL PLAN - SHEET 2	93								
TRAFFIC SIGNAL PLAN - SHEET 3	94								
TRAFFIC SIGNAL PLAN - SHEET 4	95								
ILLUMINATION			-	-	-	-	-	-	
ILLUMINATION PLAN - SHEET 1	96								
ILLUMINATION PLAN - SHEET 2	97								
ILLUMINATION PLAN - SHEET 3	98								
ILLUMINATION PLAN - SHEET 4	99								
SUBTOTAL DRAWINGS		254				820	982		2,056

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Str Drawing List
12/16/2020

STRUCTURES DRAWING LIST	TASK DESCRIPTION	Number of Str Drawings	Totals									
			Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics			
	DSC		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70	-	1,885	
BRIDGE PLANS												
	General Plan and Elevation	1	37	-	224	674	-	950	-	-	32	
	General Structural Notes	2	2		4	10		16			32	
	Bridge Construction Sequence - Plan	3	2		4	10		16			32	
	Bridge Construction Sequence - Foundations	4	1		4	6		10			21	
	Bridge Construction Sequence - Typical Section - Sheet 1	5	1		4	6		10			21	
	Bridge Construction Sequence - Typical Section - Sheet 2	6			4	6		10			20	
	Bridge Construction Sequence - Typical Section - Sheet 3	7			4	6		10			20	
	Superstructure Construction Sequence	8	1		4	6		10			21	
	Foundation Plan	9	1		4	8		12			25	
	Drilled Shaft - 10 ft Diameter	10	1		4	8		12			25	
	Drilled Shaft Details	11	1		2	8		12			23	
	Pier 1 - Plan and Elevation	12	1		4	12		16			33	
	Pier 1 - Section	13	1		4	12		16			33	
	Pier 1 - Details - Sheet 1	14			4	12		16			32	
	Pier 1 - Details - Sheet 2	15			4	12		16			32	
	Pier 1 - Curtain Walls	16			4	12		16			32	
	Pier 2 - Plan, Elevation and Section	17	1		4	12		16			33	
	Pier 2 - Details - Sheet 1	18	1		4	12		16			33	
	Pier 2 - Details - Sheet 2	19			4	12		16			32	
	Pier 2 - Curtain Walls	20			4	12		16			32	
	Pier 3 - Plan and Elevation	21	1		4	12		16			33	
	Pier 3 - Section	22	1		4	12		16			33	
	Pier 3 - Details - Sheet 1	23			4	12		16			32	
	Pier 3 - Details - Sheet 2	24			4	12		16			32	
	Pier 3 - Details - Sheet 3	25			4	12		16			32	
	Miscellaneous Pier Details - Sheet 1	26			2	8		12			22	
	Miscellaneous Pier Details - Sheet 2	27			2	8		12			22	
	Bearing Details	28			2	8		12			22	

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Str Drawing List
12/16/2020

STRUCUTRES DRAWING LIST TASK DESCRIPTION	Number of Str Drawings	Totals						
		Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant Lead	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics
DSC		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70
Typical Sections	29			2	6		12	20
Framing Plan - Span 1	30	1		2	8		12	23
Framing Plan - Span 2	31			2	8		12	22
Suggested Erection Sequence - Stage 1	32			2	6		12	20
WF58G Girder Details	33	1		2	8		12	23
WF74G Girder Details	34	1		2	8		12	23
General Girder Details 1	35			2	8		12	22
General Girder Details 2	36			2	8		12	22
Girder Schedule	37	1		2	10		12	25
End Diaphragm - Pier 1	38	1		4	12		12	29
End Diaphragm - Pier 2 (Span 1)	39	1		4	12		12	29
End Diaphragm - Pier 2 (Span 2)	40			4	12		12	28
End Diaphragm - Pier 3	41			2	8		12	22
Interior Diaphragm Details	42			2	8		12	22
Slab Closure Details	43	1		2	8		12	23
Slab Reinforcing Plan - Bottom Mat - Span 1	44	1		4	12		16	33
Slab Reinforcing Plan - Bottom Mat - Span 2	45			4	12		16	32
Slab Reinforcing Plan - Top Mat - Span 1	46	1		4	12		16	33
Slab Reinforcing Plan - Top Mat - Span 2	47			4	12		16	32
Slab Reinforcing Cross Section - Span 1	48	1		4	12		16	33
Slab Reinforcing Cross Section - Span 2	49			4	12		16	32
Utility Hanger Details - Sheet 1	50			2	8		12	22
Utility Hanger Details - Sheet 2	51			2	8		12	22
Expansion Joint Details - Piers 1 & 3	52	1		2	8		12	23
Expansion Joint Details - Pier 2	53	1		2	8		12	23
Sidewalk Details	54	1		2	8		12	23
Pedestrian Traffic Barrier - Sheet 1	55	1		2	8		12	23
Pedestrian Traffic Barrier - Sheet 2	56			2	8		12	22
Pedestrian Traffic Barrier - Sheet 3	57			2	8		12	22

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Str Drawing List
12/16/2020

STRUCUTRES DRAWING LIST	Number of Str Drawings	TASK DESCRIPTION								Totals
		Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics		
		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70		
SUP Traffic Barrier - Sheet 1	58	1		2	8		12		23	
SUP Traffic Barrier - Sheet 2	59			2	8		12		22	
SUP Traffic Barrier - Sheet 3	60			2	8		12		22	
SUP Illumination Details - Sheet 1	61	1		2	8		12		23	
SUP Illumination Details - Sheet 2	62			2	8		12		22	
Pedestrian Railing Details - Sheet 1	63	1		2	8		12		23	
Pedestrian Railing Details - Sheet 2	64			2	8		12		22	
Pedestrian Fence Details - Sheet 1	65	1		2	8		12		23	
Pedestrian Fence Details - Sheet 2	66			2	8		12		22	
Approach slab - Pier 1	67	1		4	8		12		25	
Approach slab - Pier 3	68	1		4	8		12		25	
Approach slab Details - Sheet 1	69			4	8		12		24	
Approach slab Details - Sheet 2	70			4	8		12		24	
Approach slab Details - Sheet 3	71			2	8		10		20	
Bar Bending Diagrams - Sheet 1	72	1		4	12		12		29	
Bar Bending Diagrams - Sheet 2	73			4	12		12		28	
IN-WATER ACCESS		2	-	8	24	-	40	-	74	
Construction Access Plan	74			2	6		10		18	
North Work Bridge Details	75	1		2	6		10		19	
South Work Bridge Details	76	1		2	6		10		19	
Work Bridge Details	77			2	6		10		18	
DEMOLITION		3	-	16	52	-	68	-	139	
Bridge Superstructure Demolition Plan & Elevation	78	1		4	8		12		25	
Bridge Abutment Demolition Plan & Section	79	1		4	12		16		33	
Bridge Pier 2 Demolition Plan & Section	80	1		4	12		16		33	
Bridge Demolition Details - Sheet 1	81			2	10		12		24	
Bridge Demolition Details - Sheet 2	82			2	10		12		24	

EXHIBIT E-1: PROJECT FEE DETERMINATION
WSP - Stewart Rd Bridge - Phase 2 - PSE - Supplement 8

Str Drawing List
12/16/2020

STRUCUTRES DRAWING LIST	TASK DESCRIPTION	Number of Str Drawings	Totals						
			Project Manager	Civil Project Engineer / QAQC	Bridge Project Engineer / QAQC	Structural Engineer / Grant	Civil Engineer / Planner / BCA	Designer / CAD Oper	Project Coord. / Admin / Graphics
	DSC		\$90.47	\$83.29	\$88.18	\$59.21	\$49.70	\$46.38	\$43.70
GROUND IMPROVEMENTS									
			2	-	8	32	-	48	-
	Ground Improvement Plan - West Approach	83	1		2	8		12	
	Ground Improvement Plan - East Approach	84	1		2	8		12	
	Ground Improvement Details - Sheet 1	85			2	8		12	
	Ground Improvement Details - Sheet 2	86			2	8		12	
WALLS			15	-	60	106	-	166	-
	Wall Plan & Elevation - Sheet 1	87	1		4	8		12	
	Wall Plan & Elevation - Sheet 2	88	1		4	8		12	
	Wall Plan & Elevation - Sheet 3	89	1		4	8		12	
	Wall Plan & Elevation - Sheet 4	90	1		4	8		12	
	Wall Plan & Elevation - Sheet 5	91	1		4	8		12	
	Wall Plan & Elevation - Sheet 6	92	1		4	8		12	
	Wall Sections & Details - Sheet 1	93	1		4	6		10	
	Wall Sections & Details - Sheet 2	94	1		4	6		10	
	Wall Sections & Details - Sheet 3	95	1		4	6		10	
	Wall Sections & Details - Sheet 4	96	1		4	6		10	
	Wall Sections & Details - Sheet 5	97	1		4	6		10	
	Wall Sections & Details - Sheet 6	98	1		4	6		10	
	Wall Sections & Details - Sheet 7	99	1		4	6		10	
	Cantilevered Approach Slab (Manke) - Sheet 1	100	1		4	8		12	
	Cantilevered Approach Slab (Manke) - Sheet 2	101	1		4	8		12	
SUBTOTAL DRAWINGS			59		316	888		1272	
									2,535

EXHIBIT G-1 - SUBCONSULTANT FEE DETERMINATION
City of Sumner - Stewart Rd. Bridge - Replacement - PSE
Supplement 8

Beyler
12/16/2020

DIRECT SALARY COSTS (DSC) for BergerABAM

<u>Personnel</u>	<u>Hours</u>		<u>Rate (see note)</u>		<u>Cost</u>
1 Survey Director	47	X	\$57.12	= \$	2,685
2 Survey Technician 5	94	X	\$38.00	= \$	3,572
2 Crew Supervisor	173	X	\$43.25	= \$	7,482
2 Survey Technician 2	173	X	\$24.00	= \$	4,152
3 Project Coord./Admin	16	X	\$25.00	= \$	400

Beyler Hours, TOTAL **503** Subtotal Direct Salary Costs (DSC) = \$ **18,291**

Salary Escalation (SE) for Design (assume 6% in FY 2023) = \$ **1,097**

Subtotal (DSC + SE) = \$ **19,388**

Overhead (OH) **110.00%** of (DSC + SE) = \$ **21,327**

Fixed Fee (FF) **30.00%** of (DSC + SE) = \$ **5,816.50**

TOTAL SALARY COSTS (DSC + SE + OH + FF) = \$ 46,532

DIRECT NONSALARY COSTS (DNSC)

Mileage	275 miles @ \$0.58/mile	\$	160
Utility Locates Mountain View	\$80 an hour for 16 hours-estimated)	\$	1,280
TOTAL REIMBURSABLE EXPENSES (DNSC) = \$			1,440

TOTAL Beyler FEE (DSC + SE + OH + FF + DNSC) = \$ 47,972

TOTAL SUBCONSULTANT FEES = \$ -

TOTAL AUTHORIZED AMOUNT = \$ 47,972

TASK DESCRIPTION	Task Number	Survey Director	Survey Technician	Crew Supervisor	Chain Person	Project Coord. / Admin.	Totals
TASK 2.4 - Utility Locate Services SURVEY UTILITY LOCATES BUTTE TO 140TH AND MISC. EXTRA TOPOGRAPHY	3	9	14	22	22	3	70
Establish Project Survey Control Points	3.1	2	1	4	4		11
Field Survey Note Reduction	3.2	1	1	2	2	1	7
Survey Mapping of Existing Surface Features	3.3	2		16	16		34
Drafting of Survey Map	3.4	4	12			2	18
SURVEY MAPPING OF POT HOLES							
25+/- pot holes to be mapped & Identified for location, elevation, and size of utilities exposed.	3.5	4	8	100	100		212
TOTAL:		13	22	122	122	3	282

TASK DESCRIPTION	Task Number	Survey Director	Survey Technician	Crew Supervisor	Chain Person	Project Coord. / Admin.	Totals
TASK 2.5 - Topographic Survey of River / Adjacent Roadway Embankments Survey East bank of Levee North of Bridge and Edge of River SE of Bridge and Outfall	1	5	14	17	17	2	55
Establish Project Survey Control Points	1.1	1	1	4	4		10
Field Survey Note Reduction	1.2	1	1	1	1	1	5
Survey Mapping of Existing Surface Features	1.3	1		12	12		25
Drafting of Survey Map	1.4	2	12			1	15
TOTAL:		5	14	17	17	2	55

TASK 2.6 - Topographic Survey of Roadway Corridors Survey Intersection of 8th and Butte - Post Construction	2	9	26	34	34	5	108
Establish Project Survey Control Points	2.1	2	1	8	8		19
Field Survey Note Reduction	2.2	1	1	2	2	2	8

TASK DESCRIPTION	Task Number	Survey Director	Survey Technician	Crew Supervisor	Chain Person	Project Coord. / Admin.	Totals
Survey Mapping of Existing Surface Features Drafting of Survey Map	2.3	2		24	24		50
	2.4	4	24			3	31
TOTAL:		9	26	34	34	5	108

TASK DESCRIPTION	Task Number	Survey Director	Survey Technician	Crew Supervisor	Chain Person	Project Coord. / Admin.	Totals
TASK 2.7 - Creation of Design Files Cadd work to combine drawings File Review	4	20	32			6	52
	4.1	4	32			2	38
	4.2	16				4	20
TOTAL:		20	32			6	58

TOTAL ALL TASKS:	47	94	173	173	16	503
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Project Name		Stewart Road Bridge - PS&E (Suppl. 8)		
Client		WSP - Stuart Bennion (Exhibit G-1)		
Location		City of Sumner		Date 9/16/2020
Tasks	Environmental Manager	Senior Biologist	Project Biologist	
	Hours	Hours		
7.1 Design Coordination & Project Management	32	50	16	
7.5 Biological Assessment [CONTINGENCY]				
Biological Assessment Coordination	4	8	10	
Biological Assessment Update Memo Draft	8	12	40	
Biological Assessment Update Memo Final	8	12	30	
7.9 Environmental Classification Summary (NEPA CE Process) [CONTINGENCY]				
Complete the Current CE Process	5	10	10	
Draft NEPA Memorandum	10	10	20	
Final NEPA Memorandum	10	10	20	
7.11 Riparian Mitigation/Habitat Management Plan				
Draft	20	20	40	
Final	5	10	10	
7.12 JARPA Process				
Draft JARPA	25	15	40	
Final JARPA	10	15	30	
404 Coordination	40	20	5	
401 Coordination	20	20	5	
Hydraulic Project Approval	25	20	30	
7.13 Shorelines Substantial Development Permit (City of Pacific)				
Draft	20	20	40	
Final	10	10	20	
7.14 Shorelines Substantial Development (CITY) & SEPA Reevaluation				
Draft	20	20	40	
Final	10	15	20	
7.15 NPDES Permit				
	2	8	4	
	2	4	2	
Total hours (Non-Contingency)	241	247	302	
Total hours (Contingency)	45	62	130	
Summary - Non-Contingency	Hours	Direct		Cost
Environmental Manager	241	\$71.00		\$17,111.00
Senior Biologist	247	\$50.00		\$12,350.00
Project Biologist	302	\$32.00		\$9,664.00
Total Labor				\$39,125.00
Overhead Rate (110%)				\$43,037.50
Fixed Fee (30%)				\$11,737.50
Travel Cost				\$2,500.00
Public Notice				\$1,500.00
TOTAL ESTIMATED COST (Non-Contingency)				\$97,900.00
Summary - Contingency	Hours	Direct		Cost
Environmental Manager	45	\$71.00		\$3,195.00
Senior Biologist	62	\$50.00		\$3,100.00
Project Biologist	130	\$32.00		\$4,160.00
Total Labor				\$10,455.00
Overhead Rate (110%)				\$11,500.50
Fixed Fee (30%)				\$3,136.50
TOTAL ESTIMATED COST (Contingency)				\$25,092.00
TOTAL ESTIMATED COST (Not to Exceed)				\$122,992.00

Stewart Road Bridge Replacement
City of Sumner, Washington
Supplement #8

Final Design Phase

Proj. No.:	14-006
Date:	2/7/2019
Prepared By:	REK
Revised:	9/14/2020 (SLT)

Prepared for: Mr. Stuart Bennion, PE, SE

ESTIMATED LABOR:

WORK TASK DESCRIPTION	PanGEO Labor Hours & 2020 Direct Hourly Rates						COST
	Principal	Mgr.	Sr. Geot. Eng.	Sr. Geologist	Proj. Eng./Geol.	Admin,	
	\$84.34	\$84.34	\$76.68	\$56.64	\$50.25	\$35.58	
Field Explorations							
Exploration Plan		2			4		\$369.68
Site Visit / Mark Borings					6		\$301.50
Log Test Borings		2		2	20		\$1,286.96
Boring Log Production		2		2	8		\$683.96
Select Samples for Testing, Revise Logs		2		2	8		\$683.96
Engineering Analysis							
Update Bridge Foundation Rec's.		4	8		16		\$1,754.80
Update Ground Improvement Rec's.		4			8		\$739.36
Retaining Wall Recommendations		4	6		24		\$2,003.44
Levee Extension Recommendations		8	10		30		\$2,949.02
Stormwater Facility Recommendations		4		2	8		\$852.64
Signal & Illumination Foundations		2	2		4		\$523.04
Pavement Design Recommendations		2	4		8		\$877.40
Construction Consid's./SPs/PS&E Review		8	16		12		\$2,504.60
Geotechnical Report							
Draft Geotechnical Report	4	8	10	4	40	4	\$4,157.76
Final Geotechnical Report	2	8	8		12	4	\$2,202.16
Project Management & Meetings							
Project Management & up to 2 Meetings		10					\$843.40
TOTAL LABOR:	6	70	64	12	208	8	\$22,733.68

LABORATORY TEST SUMMARY			
Test	Est. No. Tests	Unit Cost	Total Cost
Resilient Modulus or CBR Test	0	\$500	\$0
Sieve Analysis	16	\$130	\$2,080
Percent Fines	0	\$55	\$0
Atterberg Limits	2	\$140	\$280
Moisture Content	16	\$12	\$192

TOTAL LABORATORY TESTING: \$2,552

Assumed Conditions:

1. Permits & rights of entry provided by City of Sumner or WSP
2. Site will be accessible by truck- or track mounted drill rig.
3. Lab testing performed by an accredited lab subcontracted to PanGEO.
4. Drill cuttings to be disposed of on-site.
5. Traffic control and flagging to be provided by PanGEO.
6. Additional assumptions as stated in Scope of Work.

OVERHEAD & PROFIT:

Overhead @ 113.42% of DSC \$25,785

Profit @ 30% of DSC \$6,820

TOTAL LABOR COSTS: \$55,338

ESTIMATED DIRECT EXPENSES:

Mileage 400 @ \$0.58/mi. \$232

Reproduction & Field Consumables \$100

TOTAL DIRECT EXPENSES: \$332

SUBCONTRACTOR COSTS:

Mobilization \$800

Traffic Control & Flagging \$1,000

Drilling (6 ea, 150 lineal ft max) \$5,400

TOTAL DIRECT EXPENSES: \$7,200

COST SUMMARY:

Total Labor Cost \$55,338

Lab Testing \$2,552

Direct Expenses \$332

Subcontractor Costs + 10% \$7,920

TOTAL ESTIMATE: \$66,142

DIRECT SALARY COSTS (DSC)

<u>Personnel</u>	<u>Hours</u>		<u>Rate</u>		<u>Cost</u>
1 Vice President	13	X	\$76.20	= \$	991
2 Project Manager 3	152	X	\$68.67	= \$	10,438
3 Senior Engineer 1	18	X	\$42.67	= \$	768
4 Staff Engineer 2	112	X	\$32.48	= \$	3,638
5 Scientist 4	50	X	\$44.19	= \$	2,210
6 Administrative/Clerical	7	X	\$24.11	= \$	169
Total Hours	352		Subtotal Direct Salary Costs (DSC) = \$		18,213
			Salary Escalation (SE) 2023 = 6%	of DSC = \$	1,093
			Subtotal (DSC + SE) = \$		19,305
Overhead (OH)	184.63%			of (DSC + SE) = \$	35,643
Fixed Fee (FF)	30%			of (DSC + SE) = \$	5,792
TOTAL SALARY COSTS (DSC + SE + OH + FF) = \$					60,740

DIRECT NONSALARY COSTS (DNSC)

Mileage	360	miles @ \$	0.575	\$	207
Miscellaneous Expendables (photographs, equip rental, etc)				\$	-
TOTAL REIMBURSABLE EXPENSES (DNSC) = \$					207

TOTAL AUTHORIZED AMOUNT (Non-Contingency) = \$	60,947
TOTAL AUTHORIZED AMOUNT (Contingency) = \$	17,328
TOTAL AUTHORIZED AMOUNT = \$	78,276

	WEST Staff						
	Vice President	Project Manager	Senior Engineer 3	Staff Engineer 1	Hydrologist Scientist 4	Admin/ Clerical	
Stewart Road Bridge Replacement PS&E Support							
Task 1.0 - Project Management (WEST)	0	68	0	0	0	0	0
1.1 - Project Coordination (invoices and progress reports - 20 months assumed)		20					
1.2 - Meetings and Coordination		40					
- Project Team Meetings (40 meetings anticipated)		8					
- Progress Meetings with CITY Staff (2 meetings assumed)							
Task 4.1 - Update Hydraulic Report	5	18	6	48	20	3	3
4.1.1 - Update Hydraulic Model of Proposed Stewart Road Bridge	2	6	4	24	12		
4.1.2 - Update Bridge Hydraulic Analysis	1	4	2	8			
4.1.3 - Documentation	2	8		16	8		3
Task 4.2 - Work Bridge and Cofferdam Hydraulic Impact Evaluation (CONTINGENCY)	4	42	4	36	14	2	2
4.2.1 - Hydraulic Modeling of Temporary Work Conditions	1	6	2	20	8		
4.2.2 - Hydraulic Analyses of Temporary Work Conditions	1	4	2	8			
4.2.3 - Meetings and Documentation	2	32		8	6		2
Task 4.3 - Hydraulic Support of Levee Extension	4	42	4	32	14	2	2
4.3.1 - Update Hydraulic Model of Proposed Stewart Road Bridge	1	6	2	16	8		
4.3.2 - Update Bridge Hydraulic Analysis	1	4	2	8			
4.3.3 - Meetings and Documentation	2	32		8	6		2
Task 4.4 - Hydraulic Support of NW Stewart Rd Retaining Wall	2	8	4	16	8	2	2
4.4.1 - Hydraulic Analysis of Retaining Wall and Drainage Outfall	2	8	4	16	8		2
Task 4.5 - Permit Support	2	16	4	16	8	0	0
4.5 - As-Needed Permit Support Analyses and Documentation	2	16	4	16	8		
Total Hours (Non-Contingency)	13	152	18	112	50	7	7
Total Hours (Contingency)	4	42	4	36	14	2	2

EXHIBIT G-1
SUBCONSULTANT FEE DETERMINATION
CITY OF SUMNER - STEWART RD BRIDGE PSE
Supplement 8

Ott-Sakai Associates, LLC
12/16/2020

DIRECT SALARY COSTS (DSC)

<u>Personnel</u>	<u>Hours</u>		<u>Rate</u>		<u>Cost</u>
1 Principal	8	X	\$114.00	= \$	912
2 Sr. Construction Specialist	60	X	\$114.00	= \$	6,840
3 Construction Specialist	20	X	\$107.00	= \$	2,140
4 Contracts Administrator	<u>8</u>	X	\$80.00	= \$	<u>640</u>

Total Hours **96** Subtotal Direct Salary Costs (DSC) = \$ **10,532**

Salary Escalation (SE) for 2023 = 6% of DSC = \$ **632**

Subtotal (DSC + SE) = \$ **11,164**

Overhead (OH) **70.00%** of (DSC + SE) = \$ **7,815**

Fixed Fee (FF) **30%** of (DSC + SE) = \$ **3,349.18**

TOTAL SALARY COSTS (DSC + SE + OH + FF) = \$ 22,328

DIRECT NONSALARY COSTS (DNSC)

Mileage 60 miles @ \$ 0.580 \$ 35

TOTAL REIMBURSABLE EXPENSES (DNSC) = \$ 35

TOTAL AUTHORIZED AMOUNT = \$ 22,363
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Exhibit
DKS LOE Cost Computations

Project: City of Sumner

Stewart Road SW Signal, Lighting and Interconnect

1/29/2019

DKS Associates



Task	Description	Labor Hour Estimate						Total Fee					
		Principal Engineer		Project Engineer		Associate Engineer	Assistant Engineer	Admin	Hours	Direct Labor Cost	Overhead	Profit	Effective multiplier
		\$ 89.00	\$ 65.50	\$ 50.48	\$ 40.00	\$ 30.50				185.79%	30%	3.1579	
Task 19.1 - Project Management													
19.1.1		Invoicing and Progress Reports		5	6			4	15	\$ 960	\$ 1,784	\$ 288	\$ 3,031.58
19.1.2		Project Coordination		1	2				3	\$ 220	\$ 409	\$ 66	\$ 694.74
19.1.2		Project Coordination w WSP for grant funding		4	8		12	2	26	\$ 1,421	\$ 2,640	\$ 426	\$ 4,487.38
		Task Totals		10	16	0	12	6	44	\$ 2,601	\$ 4,832	\$ 780	\$ 8,213.70
Task 19.2 - Conceptual Designs													
19.2.1		Review as-builts and coordinate standards			1	6			7	\$ 368	\$ 684	\$ 111	\$ 1,163.31
19.2.2		Conceptual Design		1	3	8			12	\$ 689	\$ 1,281	\$ 207	\$ 2,176.87
		Task Totals		1	4	14	0	0	19	\$ 1,058	\$ 1,965	\$ 317	\$ 3,340.17
Task 19.3 - Lighting Design Activities													
19.3.1		Lighting AGI design		1	2	6			9	\$ 523	\$ 971	\$ 157	\$ 1,651.20
19.3.2		60% design		1	4	6	10		21	\$ 1,054	\$ 1,958	\$ 316	\$ 3,328.05
19.3.3		90% design		2	2	6	8		18	\$ 932	\$ 1,731	\$ 280	\$ 2,942.78
19.3.4		100% design		1	1	2	4		8	\$ 415	\$ 772	\$ 125	\$ 1,311.98
19.3.5		Bid Set		2	2	4			8	\$ 511	\$ 949	\$ 153	\$ 1,613.43
		Task Totals		7	11	24	22	0	64	\$ 3,435	\$ 6,382	\$ 1,031	\$ 10,847.45
Task 19.4a - Signal Interconnect													
19.4a.1		Signal Interconnect		1	4				5	\$ 351	\$ 652	\$ 105	\$ 1,108.42
19.4a.2		60% design			6	8	8		22	\$ 1,117	\$ 2,075	\$ 335	\$ 3,526.87
19.4a.3		90% design			6	6	6		18	\$ 936	\$ 1,739	\$ 281	\$ 2,955.42
19.4a.4		100% design		1	2	4	2		9	\$ 502	\$ 933	\$ 151	\$ 1,585.01
		Task Totals		2	18	18	16	0	54	\$ 2,906	\$ 5,398	\$ 872	\$ 9,175.72

DKS LOE Cost Computations

Project: City of Sumner

Stewart Road SW Signal, Lighting and Interconnect

1/29/2019

DKS Associates



Task	Description	Labor Hour Estimate					Total Fee			
		Principal Engineer \$ 89.00	Project Engineer \$ 65.50	Associate Engineer \$ 50.48	Assistant Engineer \$ 40.00	Admin \$ 30.50	Hours	Direct Labor Cost	Overhead 185.79%	Profit 30%

Task 19.4b - Temporary Signals (2)

19.4b.1	Temporary Signals	1	4	6	10		21	\$ 1,054	\$ 1,958	\$ 316	\$ 3,328.05
19.4b.2	60% design	2	8	12	10		32	\$ 1,708	\$ 3,173	\$ 512	\$ 5,392.94
19.4b.3	90% design	2	6	6	4		18	\$ 1,034	\$ 1,921	\$ 310	\$ 3,264.89
19.4b.4	100% design	1	2	4			7	\$ 422	\$ 784	\$ 127	\$ 1,332.38
Task Totals		6	20	28	24	0	78	\$ 4,217	\$ 7,836	\$ 1,265	\$ 13,318.25

Task 19.4c - Signal Design

19.4c.1	Signal Design	1	2	6	4		13	\$ 683	\$ 1,269	\$ 205	\$ 2,156.47
19.4c.2	60% design	1	6	16	6		29	\$ 1,530	\$ 2,842	\$ 459	\$ 4,830.58
19.4c.3	90% design	1	4	10	6		21	\$ 1,096	\$ 2,036	\$ 329	\$ 3,460.43
19.4c.4	100% design	1	4	10	2		17	\$ 936	\$ 1,739	\$ 281	\$ 2,955.16
Task Totals		4	16	42	18	0	80	\$ 4,244	\$ 7,885	\$ 1,273	\$ 13,402.63

Task 19.4d: Coordination with UPRR - Railroad Interconnect

19.4d.1	Up to 3 virtual meetings (1.5 hr ea) coordinate pre-emption	1	8		8		0	\$ -	\$ -	\$ -	\$ -
19.4d.2	Up to 2 meetings with UPRR & King County & Pierce County	1	6		6		13	\$ 722	\$ 1,341	\$ 217	\$ 2,280.00
19.4d.3	Evaluate integration of I/C within plan notes or details	4	6	8	6		24	\$ 1,393	\$ 2,588	\$ 418	\$ 4,398.45
19.4d.4	Provide updated traffic data / timing for UPRR coordination	6	16	24	12		58	\$ 3,274	\$ 6,082	\$ 982	\$ 10,337.45
Task Totals		12	36	32	32	0	112	\$ 6,321	\$ 11,744	\$ 1,896	\$ 19,962.22

Task 5 - Specifications and Cost Estimate

19.5.1	60% design specs and cost	1	12		12		0	\$ -	\$ -	\$ -	\$ -
19.5.2	90% design	4	4	4	4		25	\$ 1,355	\$ 2,517	\$ 407	\$ 4,278.95
19.5.3	100% design	2	4		4		10	\$ 600	\$ 1,115	\$ 180	\$ 1,894.74
Task Totals		7	20	4	20	0	51	\$ 2,935	\$ 5,453	\$ 880	\$ 9,268.18

DKS LOE Cost Computations

Project: City of Sumner

Stewart Road SW Signal, Lighting and Interconnect

1/29/2019

DKS Associates



Task	Description	Labor Hour Estimate					Total Fee			
		Principal Engineer \$ 89.00	Project Engineer \$ 65.50	Associate Engineer \$ 50.48	Assistant Engineer \$ 40.00	Admin \$ 30.50	Hours	Direct Labor Cost	Overhead 185.79%	Profit 30%

Task 6 - Bidding and Construction Assistance (Reserved)

19.6.1	Bidder Questions (up to 3 questions)						0	\$ -	\$ -	\$ -	-
19.6.2	Addendum Preparation (up to 1 package - up to 4 total sheets)						0	\$ -	\$ -	\$ -	-
							0	\$ -	\$ -	\$ -	-
Task Total		0	0	0	0	0	0	\$ -	\$ -	\$ -	-

TOTAL HOURS AND ASSOCIATED FEE		49	141	162	144	6	502	\$27,717	\$51,496	\$8,315	\$ 87,528.34
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Mileage											\$ 450.00
Other											\$ -

Expenses											\$ 450.00
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TOTAL ESTIMATED FEE											\$ 87,978.34
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CONSULTANT FEE DETERMINATION - SUMMARY OF PROJECT COSTS

Tierra Right of Way Services, Ltd.

City of Sumner, Stewart Road, ROW (Supplement #8)

Labor Classification	Hours	Direct Salary	OH	Fixed Fee	Total	Total Amount
			<u>142.18%</u>	<u>30.00%</u>		
ROW Division Manager	24.0	\$ 52.88	\$ 75.18	\$ 15.86	\$ 143.93	\$ 3,454.29
Project Manager	24.0	\$ 46.00	\$ 65.40	\$ 13.80	\$ 125.20	\$ 3,004.87
Senior Right of Way Agent	-	\$ 43.26	\$ 61.51	\$ 12.98	\$ 117.75	\$ -
Senior Right of Way Agent	-	\$ 41.00	\$ 58.29	\$ 12.30	\$ 111.59	\$ -
Right of Way Technician	-	\$ 25.00	\$ 35.55	\$ 7.50	\$ 68.05	\$ -
Administrative	-	\$ 27.00	\$ 38.39	\$ 8.10	\$ 73.49	\$ -
					\$	<u>6,459.16</u>

Direct Reimbursables

100 miles R/T from Olympia Office to Project - 25 trips

Travel (Mileage):	-	Miles	\$ 0.575	\$ -
Travel (Lodging:)	-	Night	\$ -	\$ -
Travel (Meals:)	-	Daily	\$ -	\$ -
Postage	-	Total	\$ 7.00	\$ -
Toll	-	Each trip	\$ -	\$ -
Reproduction - 8.5" x 11"	-	Pages	\$ -	\$ -
Reproduction - 11" x 17"	-	Total	\$ -	\$ -
Reproduction - 24" x 36"	-	Sheets	\$ -	\$ -

Direct Reimbursables Subtotal: \$ -

Subcontracted Services

4 AOS, 4 Appraisal & 4 Appraisal Review

SH&H	-	\$ -	\$ 3,750.00
Duncan & Associates	-	\$ -	\$ -
	-	\$ -	\$ -

Subcontracted Work Subtotal: \$ 3,750.00

Tierra Added Scope Supplement Amount: \$10,209.16

PROJECT COSTS

Tierra Right of Way Services, Ltd.

City of Sumner - Stewart Road Bridge Replacement Project - ROW (Supplement #8)

Tierra ROW Task Order Current Total Maximum: **\$67,305.00**

(Note 1) Previously moved Fee to Beyler: **\$8,963.00**

(Note 1) Previously moved Fee to WSP: **\$24,065.00**

Tierra ROW Task Order Modified Total Maximum: **\$100,333.00**

Note 1: No SOW revisions in Tierra's contract, but fee was reduced. Supplement to complete their previous SOW efforts.

Tierra ROW Supplement Adjustment Amount: \$33,028.00

September 22, 2020

Stuart Bennion
Senior Project Manager
WSP
33301 Ninth Ave S, STE 300
Federal Way, WA 98003

**Subject: Assumption of Contracts from DGK Inc. to Cowling & Company L.L.C.
(DBA Widener & Associates) WSP Project No. A14.185.00**

Dear Stuart,

DGK Inc. is assigning this federal aid contract to Cowling & Company L.L.C. We request that additional supplements for the Stewart Road Bridge – Phase 1 City of Sumner Project No. CIP 13-08 be assigned to Cowling & Company L.L.C. dba Widener & Associates.

Attached is the insurance certificate for the Cowling & Company. All project staff will remain the same and attached is the federal indirect cost rates.

We appreciate the opportunity to continue to work with you on this project. If you have any questions or need additional information, please call me at 425-503-3629.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Ross L. Widener", is written over a faint, larger signature that appears to read "Stuart Bennion".

Ross L Widener
Vice President
WIDENER & ASSOCIATES
DGK Inc.



**Washington State
Department of Transportation**

Transportation Building
310 Maple Park Avenue S.E.
P.O. Box 47300
Olympia, WA 98504-7300
360-705-7000
TTY: 1-800-833-6388
www.wsdot.wa.gov

March 4, 2019

Jordan Widener, President
Cowling & Co., LLC
1902 120th PL SE
Everett, WA 98028-8400

- Re: Cowling & Co., LLC
Safe Harbor Indirect Cost Rate

Dear Ms. Widener:

Washington State has received approval from our local Federal Highway Administration (FHWA) Division to continue administering the "safe harbor" indirect cost rate program on engineering and design related service contracts, as well as for Local Public Agency projects.

We have completed our risk assessment for Cowling & Co., LLC. We conducted our assessment based on the documentation provided by the firm. The reviewed data included, but was not limited to, a description of the company, basis of accounting, accounting system and the basis of indirect costs. Based on our review, your firm is eligible to use the Safe Harbor rate. You have opted to use the Safe Harbor rate, rather than provide a FAR-compliant rate at this time.

We are issuing the Safe Harbor Indirect Cost Rate of 110% of direct labor with a field rate, where applicable, of 80% of direct labor for Cowling & Co. The Safe Harbor rate is effective on March 1, 2019.

Cowling & Co. has agreed to improve Internal Controls and timekeeping processes in order to be able to develop an Indirect Cost Rate Schedule in the future in accordance with the Federal Acquisition Regulations (FAR), Subpart 31. The WSDOT Internal Audit Office has provided guidance and information related to FARs and the AASHTO Audit Guide. You may use the Safe Harbor Rate of 110%, or 80% for field office situations, for agreements entered into prior to March 4, 2022. For agreements entered into after this date, please contact the WSDOT Consultant Services Office (CSO) or our office for guidance.

The Safe Harbor Rate will not be subject to audit. Please coordinate with CSO or your Local Programs contact if you have questions about when to apply the Safe Harbor rate to your agreement.

If you have any questions, please contact me, Jeri Sivertson, or Steve McKerney at (360)705-7003.

Sincerely,

Schatzie Harvey
Agreement Compliance Audit Manager

cc: Steve McKerney, Director of Internal Audit
Jeri Sivertson, Assistant Director of Internal Audit
Larry Schofield, MS 47323
File

CERTIFICATION OF FINAL INDIRECT COSTS – FOR A SAFE HARBOR INDIRECT COST RATE

Firm Name: Cowling & Co. L.L.C.

I, the undersigned, certify that I have reviewed the proposal to establish the Safe Harbor rate.

The firm is electing to use the SAFE HARBOR INDIRECT COST RATE of 110% of direct labor with a field rate, when applicable, of 80% of direct labor. To the best of my knowledge and belief:

- a) The firm has not had a FAR compliant indirect cost rate previously accepted by any other state agency.
- b) The firm will provide reports as required by the SAFE HARBOR RATE program on their progress toward compliance with the cost principles of the Federal Acquisition Regulations (FAR) of title 48, Code of Federal Regulations (CFR), part 31.

All known material transactions or events that have occurred affecting the firm's ownership, organization and prior & current indirect cost rates have been disclosed.

The firm agrees to follow the "Path to Compliance". Steps noted below:

The Pathway must include:

- A timekeeping system which includes the Internal Controls described in chapter 6 of AASHTO
- An accounting system which separates indirect costs and direct costs
- An accounting system which separates allowable and unallowable cost
- A compliant job cost system which is general ledger driven
- Training for accounting personnel and key management on Part 31 of the Federal Acquisition Regulations, Contract Cost Principles and Procedures
- A strong written internal control policy with a policy and procedures manual

*Signature: Jordan Widener

*Name of Certifying Official (Print): Jordan Widener

*Title: President

Date of Certification (mm/dd/yyyy): 11/30/2018

*Note: This form is to be completed by an individual executive or financial officer of the consultant at a level no lower than a Vice President or Chief Financial Officer, or equivalent, who has the authority to represent the financial information utilized to establish the indirect cost rate proposal submitted in conjunction with the agreement.

DETACH BEFORE POSTING



STATE OF
WASHINGTON

Limited Liability Company

BUSINESS LICENSE

COWLING AND CO. L.L.C.
1902 120TH PL SE STE 202
EVERETT, WA 98208-6292

UNEMPLOYMENT INSURANCE - ACTIVE
TAX REGISTRATION - ACTIVE

Issue Date: Jul 10, 2020
Unified Business ID #: 603348384
Business ID #: 001
Location: 0001
Expires: Dec 31, 2020

INDUSTRIAL INSURANCE - ACTIVE

CITY ENDORSEMENTS:

MOUNT VERNON GENERAL BUSINESS - NON-RESIDENT (EXPIRES 7/31/2021) - ACTIVE
ANACORTES GENERAL BUSINESS - NON-RESIDENT - ACTIVE
SEDRO WOOLLEY GENERAL BUSINESS - NON-RESIDENT - ACTIVE
SPOKANE VALLEY GENERAL BUSINESS - NON-RESIDENT (EXPIRES 7/31/2021) - ACTIVE
FEDERAL WAY GENERAL BUSINESS - NON-RESIDENT (EXPIRES 7/31/2021) - ACTIVE

LICENSING RESTRICTIONS:

Not licensed to hire minors without a Minor Work Permit.

REGISTERED TRADE NAMES:

WIDENER & ASSOCIATES

This document lists the registrations, endorsements, and licenses authorized for the business named above. By accepting this document, the licensee certifies the information on the application was complete, true, and accurate to the best of his or her knowledge, and that business will be conducted in compliance with all applicable Washington state, county, and city regulations.

Director, Department of Revenue

UBI: 603348384 001 0001

COWLING AND CO. L.L.C.
1902 120TH PL SE STE 202
EVERETT, WA 98208-6292

STATE OF WASHINGTON

UNEMPLOYMENT INSURANCE -
ACTIVE
INDUSTRIAL INSURANCE - ACTIVE
TAX REGISTRATION - ACTIVE
MOUNT VERNON GENERAL
BUSINESS - NON-RESIDENT
(EXPIRES 7/31/2021) - ACTIVE
ANACORTES GENERAL BUSINESS -
NON-RESIDENT - ACTIVE
SEDRO WOOLLEY GENERAL
BUSINESS - NON-RESIDENT -
ACTIVE
SPOKANE VALLEY GENERAL
BUSINESS - NON-RESIDENT
(EXPIRES 7/31/2021) - ACTIVE
FEDERAL WAY GENERAL BUSINESS
- NON-RESIDENT (EXPIRES

Expires: Dec 31, 2020

Director, Department of Revenue

DETACH THIS SECTION FOR YOUR WALLET

IMPORTANT!

PLEASE READ THE FOLLOWING INFORMATION CAREFULLY BEFORE POSTING THIS LICENSE

General Information

- Post this Business License in a visible location at your place of business.
- If you were issued a Business License previously, **destroy the old one and post this one in its place.**
- All endorsements should be renewed by the expiration date that appears on the front of this license to avoid any late fees that may apply.

If there is no expiration date, the endorsements remain active as long as you continue required reporting (see Endorsements).

- Login to **My DOR** at business.wa.gov/BLS if you need to make changes to your business name, location, mailing address, telephone number, or business ownership.

Telephone: (360) 705-6741

Endorsements

Although tax registration, unemployment, and industrial insurance endorsements appear on your Business License, the registration with the agencies that govern these endorsements is not complete until they have established an account for your business.

Each registering agency requires you to submit periodic reports. Each agency will send you the necessary reporting forms and instructions.

Corporations, limited liability companies, etc.

You must submit a Business License Application **and** file with the Corporations Division of the Secretary of State before you can legally operate as a corporation, limited liability company, or other business organization type that requires registration. If you have any questions, call (360) 725-0377.

For assistance or to request this document in an alternate format, visit <http://business.wa.gov/BLS> or call (360) 705-6741. Teletype (TTY) users may use the Washington Relay Service by calling 711.

BLS-700-107 (04/14/16)



July 29, 2020

WSP USA, Inc.
250 West 34th Street
New York, NY 10119

Subject: Acceptance FYE 2019 ICR – CPA Report

Dear Christopher Kidd:

We have accepted your firms FYE 2019 Indirect Cost Rate (ICR) based on the “Independent CPA Report,” prepared by Deloitte & Touche, LLP as follows:

- General Services Office: 138.27% of direct labor
(rate includes 0.54% Facilities Capital Cost of Money)
- Bases Field: 106.10% of direct labor
(rate includes 0.40% Facilities Capital Cost of Money)

This rate will be applicable for WSDOT Agreements and Local Agency Contracts in Washington only. This rate may be subject to additional review if considered necessary by WSDOT. Your ICR must be updated on an annual basis.

Costs billed to agreements/contracts will still be subject to audit of actual costs, based on the terms and conditions of the respective agreement/contract.

This was not a cognizant review. Any other entity contracting with the firm is responsible for determining the acceptability of the ICR.

If you have any questions, feel free to contact our office at (360) 705-7019 or via email consultantrates@wsdot.wa.gov.

Regards;

Jonson, Erik

Jul 29 2020 1:36 PM

cosign

ERIK K. JONSON
Contract Services Manager

EKJ:ah

Item #2 – Stormwater CIP Update

The 2011 Stormwater CIP has been updated to reflect new priorities and focus areas for capital improvement projects. The updated capital improvement plan brings forward 32 projects prioritized over a 20 year span. The highest priorities are those that alleviate flooding and improve habitat for salmon. The total cost to complete all projects over the 20 years is \$82 million and has been reflected in the recent rate study.

2020 Stormwater Capital Improvement Plan

Prepared for



December 2020

Prepared by

Parametrix

1. CAPITAL IMPROVEMENTS

1.1 Executive Summary

Stormwater and surface water planning for the City of Sumner (City) has been performed over several years. Such planning was performed to address water quality, improvements to Salmon Creek, and stormwater infrastructure improvements to address conveyance, flow control, and water quality treatment needs. The results of such planning processes are documented in the following:

- *Design Technical Memorandum Salmon Creek Culvert Replacement Project* (Cosmopolitan Engineering Group 1999)
- *Draft Stormwater Quality Action Plan* (KCM 1995)
- *Stormwater Comprehensive Plan* (1992 Plan) (Parametrix 1992)
- *East Sumner Neighborhood Plan* (City of Sumner 2001)
- *Stormwater Capital Improvement Plan* (Parametrix 2011)

This *Stormwater Capital Improvement Plan Update* (2020 Plan Update) has been prepared to summarize projects previously completed and update the Capital Improvement Projects (CIPs) to be carried forward based on updated City needs. This 2020 Plan Update was prepared to support the City's budgeting and rate review process for the stormwater utility for 2021 and 2022.

The 2011 plan documents previously identified projects that were either completed, no longer needed, or needed to be carried forward. Some projects from the 2011 plan have not yet been completed. If projects from the 2011 plan have not been completed but are still needed, they are referenced in parentheses with the new CIP number for this 2020 Plan Update. The disposition of CIPs identified in the previous 2011 plan are reflected in the technical memorandum in Appendix A.

The major drainage basins within the City that are discussed in this 2020 Plan Update are shown in Figure 1-1. Figure 2-1 presents the locations of the recommended projects. Planning-level cost opinions for each CIP by year are presented in Table 2-1. Appendix B contains detailed figures, and Appendix C contains the supplemental information for the planning-level cost opinions.

2. RECOMMENDED CAPITAL IMPROVEMENT PROJECTS

The following summarizes the recommended CIPs for this 2020 Plan Update.

For the purposes of this CIP, the hydrologic and hydraulic modeling output data compiled during the 1992 Plan were used in evaluating recommended CIPs.

It is important to note that individual pipe reaches for recommended projects were not hydraulically modeled. Therefore, the pipe sizes indicated should be confirmed during project design.

Figure 2-1 is an overall site map showing the locations of the recommended projects. Appendix B contains detailed figures and Appendix C contains planning-level cost opinions for each recommended capital improvement project. Table 2-1 summarizes each project, listing priority, scheduled completion date, and cost opinions in 2020 dollars and at the expected time of completion. Projects prioritized as high, medium, and low are scheduled for completion in 0–5 years, 5–10 years, and 10–20 years, respectively. All of the project costs shown for the following projects are in 2020 dollars.

There are some projects identified in the Transportation Improvement Program (TIP) that were initially thought to have a stormwater component that needed to be reflected in this CIP. However, based on further coordination with the City, the following TIP projects do not have a stormwater cost that needs to be included in this CIP:

- TIP A6, Sumner-Tapps Highway Resurfacing
- TIP R1, Street Overlay Program
- TIP R11, Safe Routes to School

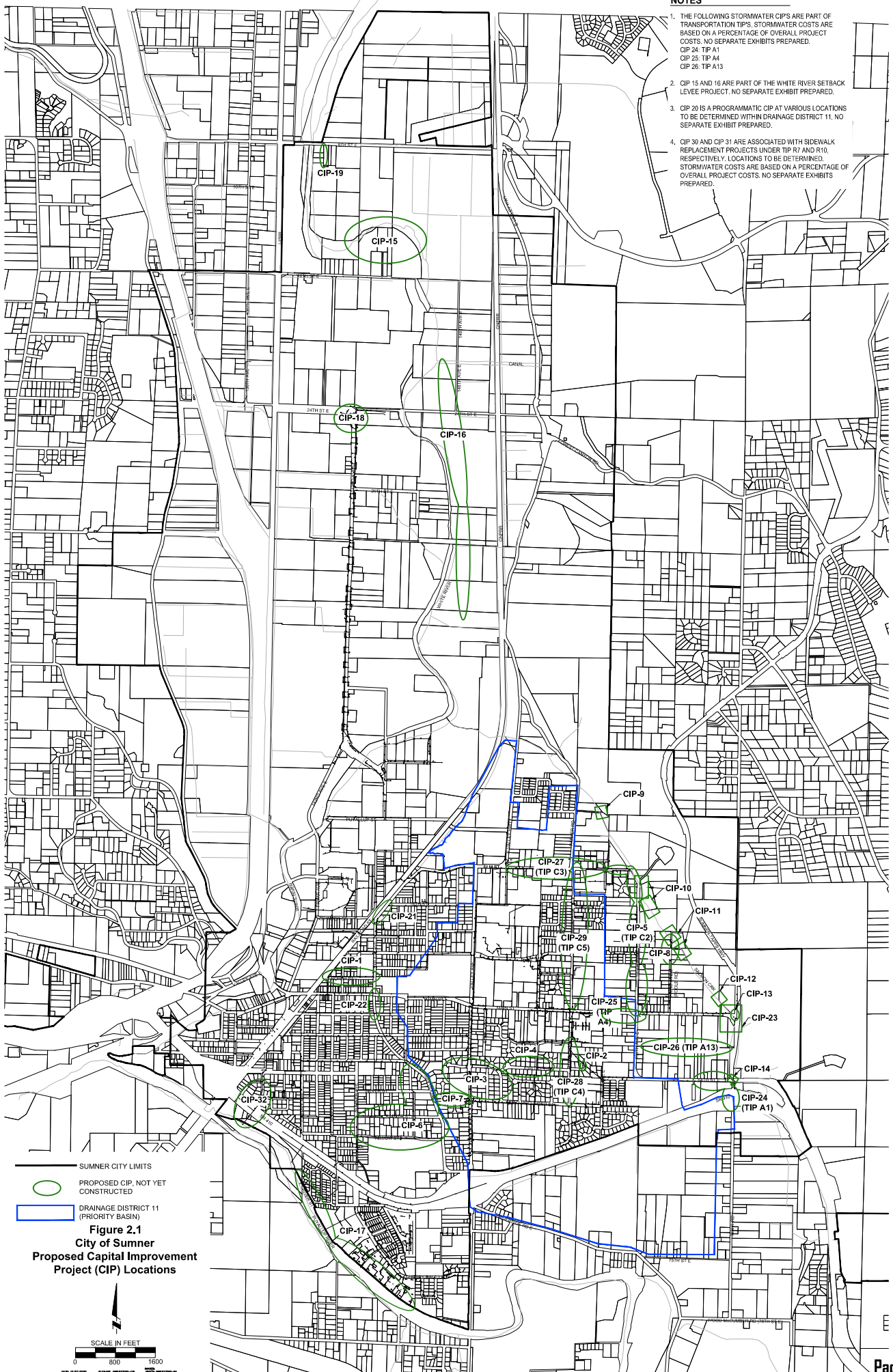


Table 2-1. Capital Improvement Plan Schedule

Capital Improvement Plan Schedule		Total Cost Year 2019 (\$)				CURRENT CIP: 2019 - 2024						LOW
Project No. – Description	2020 CIP#	2011 CIP#	Project Priority	2021	2022	2023	MEDIUM		2025	2026	After 2026	
							HIGH	LOW				
Projected ENR Construction Cost Index for Seattle				\$11,105	\$11,499	\$11,696	\$11,894	\$12,091	\$12,288	\$12,485	\$13,273	
Capital Improvement Projects												
Railroad Street Improvements	CIP#1	CIP#4	MEDIUM						\$378,000			
63rd Street Court East Storm Drain	CIP#2		HIGH		\$233,000							
151st Avenue East and 152nd Avenue East Improvements	CIP#3	CIP#7	MEDIUM						\$508,000	\$516,000		
63rd Street Court East Improvements	CIP#4	CIP#8	MEDIUM	\$293,000	\$152,000	\$154,000						
North 160th Avenue East Improvements (TIP C2)	CIP#5	CIP#12	HIGH	\$1,051,000	\$544,000	\$553,000						
Willow Street Interceptor and Tributary Improvements	CIP#6	CIP#18	MEDIUM	\$2,098,000						\$2,359,000		
Meade-McCumber Street Improvements	CIP#7	CIP#22	MEDIUM	\$282,000					\$312,000			
162nd Avenue East (Poole Road) Outfall Improvements	CIP#8	CIP#25	LOW	\$143,000							\$171,000	
47th Street Court East Culvert Improvements (CEG Site E)	CIP#9	CIP#36	HIGH	\$125,000	\$19,000	\$19,000	\$47,000	\$48,000				
160th Avenue East Culvert Improvements (CEG Sites H, I, 106th Avenue East)	CIP#10	CIP#37	HIGH	\$1,451,000	\$751,000	\$764,000						
162nd Avenue East Culvert Improvements (CEG Sites J, K, L)	CIP#11	CIP#38	HIGH	\$365,000	\$43,000	\$43,000	\$151,000	\$154,000				
East Main Street Culvert Improvements (CEG Site M)	CIP#12	CIP#39	HIGH- MEDIUM	\$41,000	\$10,000	\$11,000	\$11,000	\$12,000				
Salmon Creek Restoration (incorporates CEG Site 60th)	CIP#13	CIP#40	MEDIUM	\$675,000		\$158,000	\$281,000	\$286,000				
64th Street East Culvert Improvements	CIP#14	CIP#41	HIGH- MEDIUM	\$602,000	\$66,000	\$67,000	\$254,000	\$258,000				
White River Levee Improvements	CIP#15	CIP#47	HIGH- MEDIUM	\$3,800,000	\$515,000	\$524,000	\$1,502,000	\$1,527,000				
24th Street Setback Levee (see Notes)	CIP#16	CIP#51	HIGH- MEDIUM	\$45,123,000	\$1,478,000	\$971,000	\$21,597,000	\$20,435,000		\$167,000	\$474,000	
Rivergrove Puyallup River Improvements	CIP#17	CIP#53	MEDIUM	\$15,611,000					\$8,637,000	\$8,775,000		
24th and 142nd Intersection Treatment	CIP#18		HIGH	\$171,000	\$177,000							

Table 2-1. Capital Improvement Plan Schedule

Capital Improvement Plan Schedule						CURRENT CIP: 2019 - 2024							
Project No. – Description	2020 CIP#	2011 CIP#	Project Priority	Total Cost Year 2019 (\$)	HIGH		MEDIUM				LOW		
					2021	2022	2023	2024	2025	2026	After 2026		
Stewart Road Pond Repair and Enhancement (full project)	CIP#19		HIGH	\$356,000		\$375,000							
Treatment in Drainage District 11	CIP#20		MEDIUM	\$98,000			\$105,000	\$107,000	\$108,000	\$110,000			
Wood Avenue Conveyance, Zehnder to 16th	CIP#21		LOW	\$157,000		\$55,000	\$125,000				\$188,000		
Meade Avenue Improvements one block south of Main Street	CIP#22		HIGH-MEDIUM	\$170,000		\$55,000	\$125,000						
Sumner-Tapps Highway and 60th Street East	CIP#23		HIGH	\$100,000	\$104,000								
SR 410/166th Avenue East I/C	CIP#24	TIP#A1	MEDIUM	\$4,427,000				\$2,410,000	\$2,449,000				
Main Street and 160th Avenue	CIP#25	TIP#A4	MEDIUM	\$296,000			\$317,000						
62nd Street: 166th Avenue to 160th Avenue East	CIP#26	TIP#A13	MEDIUM	\$1,476,000	\$396,000	\$1,151,000							
Elm Street: East Valley Highway to 160th Avenue East	CIP#27	TIP#C3; Previous CIP 13	MEDIUM	\$1,063,000			\$1,139,000						
Parker Road: 62nd to 63rd	CIP#28	TIP#C4	MEDIUM	\$114,765			\$123,000						
Parker Road: Main to 50th	CIP#29	TIP#C5	MEDIUM	\$583,000				\$635,000					
Sidewalk Replacement Program	CIP#30	TIP#R7	HIGH-MEDIUM	\$22,000	\$23,000	\$23,000	\$24,000	\$24,000					
Volunteer Sidewalk Program	CIP#31	TIP#R10	HIGH-MEDIUM	\$35,000	\$36,000	\$37,000	\$37,000	\$38,000					
Mountain Circle Outfall Replacement	CIP#32		MEDIUM	\$507,000			\$272,000	\$276,000					
TOTAL - CAPITAL ASSET FUNDS (includes inflation)				\$82,728,000	\$43,314,000	\$5,138,000	\$26,363,000	\$26,210,000	\$12,014,000	\$11,927,000	\$833,000		
(City Funded Only - Exclude Developer or Low Impact Development (LID) Funded Projects)													

Notes: CIP = Capital Improvement Project; TIP = Transportation Improvement Program; ENR = Engineer News-Record; I/C = Interchange
The cost option for CIP#16 (51) 24th Street Setback Levee includes the utility and grant-funded portions of the project.



Monthly Project Management Report

January 2020

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Major Projects

Project: Bridge Street Bridge Replacement (13-01)		Project Manager: Andrew Leach	Budget: \$12,000,000
Finance: \$9,600,000 BRAC Grant, \$1,069,360 Sumner REET and \$1,333,640 TIB			
Description: Design and Construct a replacement bridge for Bridge Street.			
Schedule/Milestones: ■ Selection of Design Consultant (02/13) ■ Design Consultant Contract Award (03/13) ■ Environmental Review complete (11/15) ■ ROW Acquisitions (12/16) ■ Design Complete (01/17) ■ Construction Contract Award (04/17) □ Construction Complete (12/20)		Status: Contractor is working on punchlist items. Final pavement is down. Contractor is working on final items. The last one-third of the new bridge is under construction. The old bridge has been removed. Traffic switched over to new bridge on October 8th. Construction has begun SB Structures was awarded the construction contract at the 4/17/17 Council Meeting. The Pre-Construction meeting for this project is scheduled for 5/4 at 10:00 a.m. The City recently went out to bid for the construction of this project. The bid opening is scheduled for 3/31/17. Federal NEPA review has been completed. Right-of-way acquisition has begun. Currently waiting for the final environmental review from DOE. A request has been submitted to WSDOT to proceed with the right-of-way acquisition. A Shoreline Permit Hearing is scheduled for September 10th. BergerAbam has been selected for Construction Administration. The City is currently reviewing SOQ's to select a consultant for construction administration.	
Next Critical Activities (dates): Project Acceptance (12/20)			
Next Council Actions (dates): Project Acceptance (2/20)			
Next Public Actions (dates):			

Project: Stewart Road Bridge Replacement (13-08)		Project Manager: Michael Kosa	Budget: \$30,000,000
Finance: \$6,833,959 STP Grant, \$187,074 City of Sumner, \$4,260,000 Pierce County , \$50,000 Tarragon, \$3,000,000 FMSIB, \$50,000 Port of Tacoma, \$150,000 City of Auburn			
Description:			
Schedule/Milestones: ☒ Selection of Design Consultant (10/13) ☒ Design Consultant Contract Award (12/13) ☒ ROW Environmental Review Completed (11/16) ☐ ROW Acquisitions (06/21) ☐ Design Complete (06/22) ☐ Construction Contract Award (01/23) ☐ Construction Complete (08/26)		Status: BergerABAM is completing the environmental design and right-of-way acquisitions. Project is in formal ESA consultations since 2/2019. Project awarded new grants (City of Auburn \$150,000)(Federal STP funds \$4,920,000, construction phase; Port of Tacoma, \$50,000, design phase) Pacific has received full funding for the design, ROW and construction of their adjacent project. The right-of-way services are now under contract. BergerABAM is beginning the preliminary work to engage the property owners. The Scope and Budget for Right of Way services has been received and will go to the 6/19 Council Meeting. The City is currently working with BergerABAM on the Scope & Fee for Right of Way services. The City is working with WSDOT and PSRC to finalize a process that will allow the right-of-way to proceed concurrent with the environmental studies of the White River currently being undertaken.	
Next Critical Activities (dates): Right-of-Way Acquisition (06/21)			
Next Council Actions (dates):			
Next Public Actions (dates):			

Project: East Sumner Neighborhood Stormwater Ponds – Phase II (13-10)		Project Manager: Michael Kosa	Budget: \$2,000,000
Description: Complete the design and construction of a regional stormwater pond and relocation of Salmon Creek on City properties located near Sumner Tapps Hwy, between 64 th St E and 60 th St E.			
Schedule/Milestones: ☒ Design Consultant Contract Award (09/13) ☒ Design Complete (07/15) ☒ Construction Contract Award (08/15) ☒ Construction Complete (12/19) ☐ Complete Plant Establishments (01/22)		Status: Project in plant establishment period. Project 90% constructed. 60 th -reopened to traffic, there are no other major traffic impacts planned during project. Work restarted July 2019. The culvert has been delivered to the site. 60 TH Street may be closed for culvert installation, depending on contractor availability. Corps permit secured, contractor beginning project restart. The City is currently waiting on permit approval from the Army Corps of Engineers. Permit meeting occurred on site and an ESA consultation is pending. The contractor is currently on winter shutdown. Contractor to start work mid-September. Plantings at the mitigation site are 100% complete. Contractor to provide construction schedule for Mitigation Pond the week of 8/8/16. Contract has been suspended until further notice.	
Next Critical Activities (dates): Plant Establishment (01/22)			
Next Council Actions (dates): Project Acceptance (06/22)			
Next Public Actions (dates):			

Project: 166 th Ave E Widening (13-11)	Project Manager: Michael Kosa	Budget: \$16 Million
Finance: Port of Tacoma \$25,000, \$950,000 City (TIF & Storm)		
Description: Construct Improvements to 166 th Ave E to decrease congestion and improve safety at 64 th St E and at SR 410 westbound ramps		
Schedule/Milestones: ☒ Consultant Award (12/18) ☒ Concept Report Complete (07/20) ☐ Complete Fish Passage Culvert Design/Permitting (2/21) ☐ WSDOT Preliminary Design Approval (6/21)	Status: Design Development underway for preliminary roadway and culvert/creek design Concept report approved. Project will contact adjacent property owners, then publicize the findings. Concept Report (Intersection Control Evaluation) being reviewed at WSDOT.	
Next Critical Activities (dates): Complete Preliminary Plans, Culvert Design (2/21)		
Next Council Actions (dates):		
Next Public Actions (dates):		

Project: Fryar Ave Trail (14-01)	Project Manager: Andrew Leach	Budget: \$228,624	Finance: \$197,760.00 (CMAQ-Design Only) and \$30,864 (City)
Description: To design the last missing link of trail in town between Bridge Street Bridge and Fryar Bridge. The trail currently consists of a sidewalk & bike lane.			
Schedule/Milestones: ☒ Selection of Design Consultant (05/14) ☒ Design Consultant Contract Award (05/14) ☐ Design Complete (12/22) ☐ Construction Contract Award (TBD) ☐ Construction Complete ()	Status: The City will be receiving grant funding for the ROW phase of the project. The City is currently moving forward with the environmental phase of the project. The City is currently looking at grant opportunities to purchase right-of-way and moving forward with the environmental phase of the project. The design on this project is moving forward. A few alternatives for the trail layout were reviewed and a final layout was selected. Selecting the final layout will allow for the environmental phase to move forward. The design on this project is on hold until FEMA discussions allow for the trail to be constructed in the floodway. BergerABAM is proceeding with the design.		
Next Critical Activities (dates): Design Complete			
Next Council Actions (dates):			
Next Public Actions (dates):			

Project: Left Bank Setback/White River Restoration (14-10)	Project Manager: Doug Beagle	Budget: \$824,000	Finance: \$
Description: Enhance nearly 3.2 miles of river bank. The channel will be widened by up to 200ft landward of the ordinary high to allow capacity for 100-yr event			
Schedule/Milestones: ☒ Selection of Design Consultant (09/14) ☒ Design Consultant Contract Award (09/14) ☐ Design Complete (TBD) ☐ ROW Acquisition (TBD) ☐ Construction Contract Award () ☐ Construction Complete ()	Status: The next dialogue meeting is scheduled for December 10 th , 2020. Permit Submitting to ARMY CORP Dec 2020 Moving from 65% TO 90% Plans NSD Consultant Supplement Contract PW committee Meeting August A meeting took place on 5/11 and the next meeting is scheduled for 6/8. Draft Hydraulic and Sediment reports have been presented to the Dialogue Group and the next meeting is scheduled for May 11 th . Hydraulic and Sediment models are under review. The dialogue group continues to meet. Consultant has begun hydraulic and sediment work. Two (2) Consultant Service Contracts are going to the 7/18/16 Council Meeting. One is Amendment #2 with West Consultants and the 2 nd is with Natural Systems Design.		
Next Critical Activities (dates):			
Next Council Actions (dates): ROW Acquisition (TBD)			
Next Public Actions (dates):			

Project: Decant Facility (15-02)	Project Manager: Michael Kosa	Budget: \$747,000	Finance: \$390K Ecology Grant
Description: Design and construct upgrades to the Decant Facility. Improvements will include a concrete slab and a pre-engineered metal building.			
Schedule/Milestones: ☒ Selection of Design Consultant (10/16) ☒ Design Consultant Contract Award (11/16) ☒ Design Complete (04/17) ☒ Construction Contract Award (09/17) ☒ Construction Complete (11/19)	Status: Project awaiting asphalt pavement after SR 410/Traffic Ave Interchange Contractor is complete Project in closeout Working on final Ecology Reimbursement. Stormwater pond construction is complete. Project is entering close-out. Negotiating change order with contractor to construct stormwater pond required by Ecology. Coordinating plans with ecology, plan to construct storm water pond and asphalt paving in 2019. Notified of \$390K Ecology Grant Building construction complete. Investigating adding asphalt driving surface to project. This project is under construction and the contractor is currently working on final completion and punchlist. This project is under construction and the contractor is currently working on floor slabs. This project is under construction and the contractor is currently working on subgrade and foundations. Western Engineering Constructors, Inc., was awarded the construction contract at a Special Council Meeting on 8/14/17. Contracts are currently being signed.		
Next Critical Activities (dates):			
Next Council Actions (dates):			
Next Public Actions (dates):			

Project: 410/Traffic Ave Interchange (15-04)		Project Manager: Andrew Leach	Budget: \$17,000,000
Description: Construct a new overpass for the SR 410/Traffic Ave Interchange to meet the demands of freight and commuter traffic.			
Finance: <i>Design:</i> Sound Transit \$100K, WA State Legislature #1 \$300K, Private Dev. \$75K, Port of Tacoma #1 \$11.5K, City of Sumner \$75K, STP Grant \$313K <i>Construction:</i> FIMSB \$2.5M, Sound Transit \$5.0M, Port of Tacoma #2 \$45k, WA State Legislature #2 \$500K, Private Development \$1.0M, TIB \$3M			
Schedule/Milestones: ☒ Selection of IJR Consultant (10/15) ☒ Preliminary Design Consultant Contract Award (08/16) ☒ Final Design Consultant Contract Award (07/17) ☒ Final Design Complete (12/18) ☒ Construction Contract Award (07/19) ☐ Construction Complete (01/21)		Status: Contract is working on street lights and punchlist items. Contractor has completed final paving. Contractor is now working on street lights and landscaping. New signals have been installed. Contractor is working near final paving. Contractor is working on new signals on either end of the new bridge. Construction on new bridge has started. Construction has begun, contractor is working on temp water main. Ceccanti, Inc. was awarded the contract at the July 22nd special council meeting. A preconstruction meeting will be scheduled for early August. Bids opened 7/3/19 The final design is currently underway. The consultant agreement with Parametrix has been executed and the final design will begin in July.	

Project: Operations Facilities (17-13)		Project Manager: Doug Beagle	Budget: \$10,000,000
Description: Construct a new operations facility to house the water, sewer, storm and street maintenance staff and equipment. The current shops facility will be modified to house the Parks & Facilities maintenance staff and equipment as well as the community float, 1932 Kenworth fire engine, DARE GTO and the Police Department's impound and oversized evidence.			
Schedule/Milestones: ☒ Consultant Services Contract (08/18) ☐ Design Complete (TBD) ☐ Construction Contract Award (TBD) ☐ Construction Complete (TBD)		Status: Review of final concept 11-24-20 Work group session have begun and waiting for review of sessions. The Consultant contract has been fully executed. Consultant has been selected and working through scope and fee. RFP for Consultant Services to be advertised in February. Properties are under contract with new phase 1 environmental being done soon. Consultant is working on initial diagram/layout of facility. In negotiations with property owners and wrapping up. Design consultant has done 3-D modeling/massing studies at multiple locations. Site locations have been narrowed down and the City is moving forward with contacting property owners.	
Next Critical Activities (dates): Property Acquisition			
Next Council Actions (dates):			

Project: Biosolids Dewatering Improvements (17-18)		Project Manager: Jason Van Gilder	Budget: \$120,000 (Design Only)
Description: Procurement and installation of a second centrifuge for the dewatering of biosolids at the Waste Water Treatment Facility. This will also include construction of a structural platform and electrical/telemetry modifications to accommodate the new centrifuge.			
Schedule/Milestones: ☒ Consultant Services Contract (12/17) ☒ Construction Contract Award (09/19) ☐ Construction Complete (02/21)		Status: Project is substantially complete. (Not 2020 Update) The new centrifuge is operational. Notice to proceed with construction was issued, effected 11/1/19. Project was awarded in September 2019. Bids for construction were received in August 2019. Project was advertised in July 2019 and bids are requested in August 2019. 95% Plans and Specifications have been submitted to the City for review. Gray and Osborne is finishing up the design. An equipment procurement package has been submitted to the City staff for review. A technical memorandum and draft equipment procurement package was submitted for City review on 3/22/18, and comments returned by the City on 4/10/18. Gray and Osborne has been awarded the design contract and is proceeding with design services. Gray and Osborne has been selected as the most qualified firm to complete this work. Finance has recommended soliciting for Request for Qualifications (RFQ) for this work.	
Next Critical Activities (dates):			
Next Council Actions (dates): Construction Contract Acceptance (07/21)			

Project: South Tank Seismic Retrofit (CIP 19-10)		Project Manager: Jason Van Gilder	Budget: \$2,463,900
Description: Design and construction of an anchoring system to improve the resiliency of the south tank reservoir.			
Schedule/Milestones: ☒ Select Design Consultant (1/20) ☐ Bid Award (7/21) ☐ Construction Complete (4/22)		Status: Design is underway. A delay in the design has been encountered due to damages to the facilities during the Sumner Grade Fire that prevent the tank from being drained.	
Next Critical Activities (Dates): Construction Contract Award (7/21)			
Next Council Actions (dates): Construction Contract Award (7/21)			
Next Public Actions (dates): N/A			

Project: Sumner Tapps Highway Guardrail Upgrade (19-01)		Project Manager: Michael Kosa	Budget: \$1,455,300
Finance: City Funds \$112,700, Federal HSIP Funds \$448,600, Federal STP Funds \$749,000			
Description: Evaluate and construct upgrades to existing obsolete guardrail along Sumner-Tapps Highway, resurface Sumner-Tapps Highway			
Schedule/Milestones: ☒ Design Award (12/19) ☒ Design Complete (06/20) ☒ Obligate Construction (8/20) ☒ Award Construction Contract (11/20) ☐ Complete Construction (6/21)		Status: Project delayed until April 2021. Bids opened and came in underbudget. Guardrail portion of project in design. Funding secured for Phase 1 resurfacing construction. Resurfacing project will construct in 2020. Consultant kickoff in February. The survey fieldwork is complete. Consultant agreement at council. Consultant qualifications being evaluated. RFQ is out for advertisement. Funding has been obligated. Staff is working w/ WSDOT to obligate Design funds. Staff is preparing paperwork to add project to federal programming	
Next Critical Activities (dates): Begin Construction (04/21)			
Next Council Actions (dates): Project Completion (09/21)			
Next Public Actions (dates):			

Project: Main St/Wood Ave Intersection Improvements (19-02)		Project Manager: Michael Kosa	Budget: \$209K (Design), \$250K (ROW), \$1.8M (Construct.)
Finance: City funds \$1,864,000, Federal STP Funds \$405,000			
Description: Develop design for replacing the obsolete signal and complete ADA upgrades to bring the intersection into compliance			
Schedule/Milestones: ☒ Design Award (10/19) ☒ Begin ROW Acquisition (09/20) ☐ Design Complete (03/21) ☐ Complete ROW Acquisition (12/21) ☐ Obligate Construction (2/2022) ☐ Complete Construction (12/2022)		Status: Beginning 90% design, ROW acquisition, City funding Construction phase in 2022 Internal review of 30% Design. Additional funding acquired for right-of-way acquisition phase. Project progressing toward 30% design. Project survey complete in November. Consultant agreement award at Council. Consultant selection completed. Developing consultant agreement. Staff is completing federal obligation paperwork.	
Next Critical Activities (dates): 90% Submittal (12/21)			
Next Council Actions (dates): ROW Acquisition (09/21)			
Next Public Actions (dates):			

Project: Alder & Kincaid Utility Improvements (19-05)		Project Manager: Jason Van Gilder	Budget: \$TBD
Description: Replacement of utilities in the Alder and Kincaid Right-of-Way in the vicinity of the Red Apple property. Necessary to replace aging infrastructure and support the town center plan redevelopment.			
Schedule/Milestones: ■ Select Design Consultant (10/19) ■ Award Final Design Contract (7/20) □ Bid Award (02/21) □ Construction Complete (02/22)		Status: Design is underway. Design development work has been completed and staff is recommending a final design contract for council approval. Request for Qualifications were received in August. Staff is working on finalizing the project extents before negotiating a scope and budget with the consultant. Project requirements are being compiled in advance of design consultant selection.	
Next Critical Activities (Dates): Construction Contract Award (2/21)			
Next Council Actions (dates): Construction Contract Award (2/21)			
Next Public Actions (dates):			

Project: 160 th Retrofit and Pervious Sidewalks (19-08)		Project Manager: Andrew Leach	Budget: \$
Finance: Ecology and Complete Street Funds			
Description: Installing pervious sidewalks on 160 th that will fill in the sidewalk gap between the YMCA and main Street			
Schedule/Milestones: ■ Selection of Design Consultant (09/19) ■ Design Consultant Contract Award (03/20) □ Design Complete (1/20) □ Construction Contract Award (TBD) □ Construction Complete ()		Status: The 90% design is with Ecology for Review. Design is 30% complete and moving forward to final design. Starting project design. Grant agreement passed by Council. City is working on grant agreement with DOE. Staff is currently reviewing SOQs to select a design consultant for the project.	
Next Critical Activities (dates):			
Next Council Actions (dates):			
Next Public Actions (dates): N/A			

Project: Rivergrove Community Pedestrian Bridge over SR 410 (20-07)		Project Manager: Andrew Leach	Budget: \$5,000,000
Finance: Sound Transit funds (\$452,000) (Design Only)			
Description: Construct a new pedestrian bridge over SR 410 at Sumner Avenue to provide a non-motorized connection to the Rivergrove Neighborhood.			
Schedule/Milestones: ■ Grant Agreement Complete (06/20) ■ RFQ (06/20) ■ Consultant Agreement Award (12/20) ☐ Public Outreach (09/21) ☐ Design Complete (12/21) ☐ Right-of-Way Acquisition Complete (12/22) ☐ Construction Complete (12/23)		Status: Consultant has begun design work on the project. Contract will be awarded at the December Council Meeting The City has completed consultant interviews and will be working with V+M Structural Design to execute a scope and fee. City has advertised a request for qualifications for a project design consultant.	
Next Critical Activities (dates): Select Consultant (08/20)			
Next Council Actions (dates): Consultant Agreement Award (12/20)			
Next Public Actions (dates): Consultant Agreement Award (12/20)			

Project: Academy Street Bike Lanes (20-08)		Project Manager: Michael Kosa	Budget: \$ 972,225
Finance: Sound Transit funds (\$875,000)			
Description: Construct a new pedestrian bridge over SR 410 at Sumner Avenue to provide a non-motorized connection to the Rivergrove Neighborhood.			
Schedule/Milestones: ■ Grant Agreement Complete (06/20) ■ RFQ (06/20) ■ Consultant Agreement Award (10/20) □ Public Outreach (04/21) □ Design Complete (12/21) □ Construction Contract Award (04/22) □ Construction Complete (12/22)		Status: Consultant beginning conceptual design phase City is evaluating consultant qualifications City has advertised a request for qualifications for a project design consultant.	
Next Critical Activities (dates): Prepare Concepts for Public Involvement (12/20)			
Next Council Actions (dates): Final Design Agreement (2/21)			
Next Public Actions (dates): Public Involvement for Concepts (2/21)			

Small Works Projects

Project: Viewpoint Booster Pump Station - Generator		Project Manager: Jason Van Gilder	Budget: \$206,000
Description: Design and installation of a standby power system for the Viewpoint Booster Pump Station			
Schedule/Milestones: ■ Select Design Consultant (1/20) ■ Bid Award (10/20) □ Construction Complete (02/21)		Status: Project has been awarded and construction activities are underway. Design is complete.	
Next Critical Activities (Dates): Construction Contract Complete (7/21)			
Next Council Actions (dates): Construction Acceptance (7/21)			
Next Public Actions (dates): N/A			

Project: LS #11 Hatch Replacement (CIP 20-05)	Project Manager: Jason Van Gilder	Budget: \$
Description: Design and installation of replacement hatches for LS #11 in the 16 th Street roadway		
Schedule/Milestones: ☒ Select Design Consultant (5/20) ☒ Bid Award (11/20) ☐ Construction Complete (05/21)	Status: Project has been awarded and construction activities are underway. Design is complete.	
Next Critical Activities (Dates): Construction Complete (7/21)		
Next Council Actions (dates): Project Acceptance (7/21)		
Next Public Actions (dates): N/A		

Project: South Tank Drain Line Repair (CIP 20-11)	Project Manager: Jason Van Gilder	Budget: \$46,100
Description: Design and installation of replacement hatches for LS #11 in the 16 th Street roadway		
Schedule/Milestones: ☒ Select Design Consultant (5/20) ☒ Bid Award (1/21) ☐ Construction Complete (05/21)	Status: Project is being awarded. Design is complete.	
Next Critical Activities (Dates): Construction Complete (7/21)		
Next Council Actions (dates): Project Acceptance (7/21)		
Next Public Actions (dates): N/A		

Project: LS #2 and #6 Control Panel Replacement (CIP 20-04)	Project Manager: Jason Van Gilder	Budget: \$
Description: Design and installation of replacement control panels at lift stations #2 and #6		
Schedule/Milestones: ☒ Select Design Consultant (10/20) ☐ Bid Award (2/21) ☐ Construction Complete (06/21)	Status: Final design is in progress.	
Next Critical Activities (Dates): Construction Contract Award (2/21)		
Next Council Actions (dates): Project Acceptance (9/21)		
Next Public Actions (dates): N/A		

Project: Hubbard Street Water Main (CIP 20-12)	Project Manager: Jason Van Gilder	Budget: \$282,500
Description: Replacement of failing water main within the Hubbard Street ROW.		
Schedule/Milestones: ☒ Select Design Consultant (10/20) ☐ Bid Award (12/20) ☐ Construction Complete (05/21)	Status: Project is being awarded.	
Next Critical Activities (Dates): Construction Contract Award (1/20)		
Next Council Actions (dates): Project Acceptance (7/21)		
Next Public Actions (dates): N/A		

Project: Main Street Property Demos (W-19-02)		Project Manager: Andrew Leach	Budget: \$172,000.00
Description: Demolition of three houses on Main Street.			
Schedule/Milestones: ■ Construction Contract Award (03/19) ■ Construction Complete (12/20)	Status: City will be performing the next round of testing. The City is currently waiting for testing results from the lab. Soil cleanup has begun. Samples are being sent to the lab for testing. The City has executed a task order with GeoDesign to begin soil clean up. The City is reviewing a proposal for the site cleanup. Soil is being tested to find extent of contamination. Demolition and Abatement have been completed. The City is reviewing options for the contaminated soil removal.		
Next Critical Activities: Construction Project Acceptance (12/20)			
Next Council Actions (dates):			

Project: Roadway Paint Line Application (W-20-01)		Project Manager: Michael Kosa	Budget: City Funds \$30,000
Description: Complete annual paint pavement marking through an MOU with Pierce County			
Schedule/Milestones: ■ Verify Painting Schedule (06/20) ■ Complete Construction (9/20)		Status: Work completed August 2020.	
Next Critical Activities (dates): N/A			
Next Council Actions (dates): N/A			
Next Public Actions (dates):			

Project: Roadway Plastic Marking Application (W-20-02)		Project Manager: Michael Kosa	Budget: \$37,500
Description: Replace plastic markings (Stop Bars, Crosswalks, Traffic Arrows) where they have faded and need to be refreshed.			
Schedule/Milestones: ■ Project Advertisement (06/20) ■ Construction Contract Award (07/20) ■ Construction Complete (09/20)		Status: Work completed September 2020. Project in closeout. Scheduling Preconstruction Meeting. Bids were due July 2nd, low bidder being contacted for award. The bid package is being generated. Funding has been reduced due to COVID-19 supplemental budget	
Next Critical Activities (dates):			
Next Council Actions (dates):			
Next Public Actions (dates):			

Project: Chip Seal (W-20-03)		Project Manager: Michael Kosa	Budget: \$129,000
Description: Complete chip sealing application to local roads to preserve roadway surfaces			
Schedule/Milestones: ■ Project Advertisement (06/20) ■ Construction Contract Award (07/20) ■ Construction Complete (09/20)		Status: Work completed September 2020. Project in closeout. Scheduling Preconstruction Meeting. Award paperwork and contract being completed. The bid package is being generated. Funding has been reduced by local match of Sumner-Tapps Highway Resurfacing project.	
Next Critical Activities (dates):			
Next Council Actions (dates): N/A			
Next Public Actions (dates):N/A			

Project: Crack Seal Application (W-20-04)		Project Manager: Michael Kosa	Budget: \$ 25,000
Description: Complete crack sealing application to local roads to preserve roadway surfaces			
Schedule/Milestones: ■ Project Advertisement (04/20) ■ Construction Contract Award (05/20) ■ Construction Complete (06/20)		Status: Work Complete. Project in closeout. Determining whether to use additional budget to complete crack seal of Main Street between QFC and Sumner-Tapps Highway. Project awarded. Contractor planning to complete the work during the week of June 15 th .	
Next Critical Activities (dates): Project Closeout (08/20)			
Next Council Actions (dates): N/A			