



INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Services Committee**
 FROM: **Hari Ponnekanti, Public Works Director/City Engineer**
 BY: **Cyndy Knighton, Senior Program Manager**
 CC: **Mayor Ekberg**
 DATE: **September 16, 2022**
 SUBJECT: **Green River Trail Improvements**
Project No. 91810403
Contract No. 22-099, Amendment No. 1

ISSUE

Approve Amendment No. 1 for Contract 22-099 with KPFF Consulting Engineers for the Green River Trail Improvements project in the amount of \$273,977.69 to package the Plans, Specifications, and Estimate (PS&E) documents, provide Construction Support Services (CSS) and Construction Management (CM).

BACKGROUND

In 2007, the City selected KPFF Consulting Engineers to design the Tukwila Urban Center Pedestrian/Bicycle Bridge over the Green River. The design of the bridge and associated landings was completed, and the bridge began constructed in 2016 and was fully open by the end of the 2017. At the time the project went to bid, the associated improvements along the Green River Trail between the western bridge landing and Christensen Road were removed due to budget constraints. The City has been applying for grant funding to complete the trail improvements, which were fully designed and permitted since 2018. Earlier this year, the City received notification that a recent grant application to the Transportation Alternatives Program (TAP) for the trail improvements was successful. The City accepted the grant on June 6, 2022.

An original contract was approved and signed with KPFF in the amount of \$13,612.12 to develop a construction cost estimate and number of project working days prior to for the TAP grant obligation packet, which had a deadline of August 31, 2022.

DISCUSSION

As KPFF completed the design and assisted with the obligation documents, staff recommends supplementing their existing contract with an amendment to package the PS&E documents into ad-ready bid documents and provide construction support services and construction management once construction begins in 2023. The plan sheets will be checked for completeness and the specifications and estimate will be updated to current information.

FINANCIAL IMPACT

The project budget is \$1,297,000 which includes the TAP grant award of \$989,000 and City match of \$308,000. The project budget is sufficient to cover the cost of the contract with KPFF. Project construction is estimated to be \$922,559.23, which is within the total project budget.

	<u>Cost Estimate</u>		<u>Project Budget</u>
KPFF Original Contract	\$13,612.12	TAP Grant	\$ 989,000.00
KPFF Supplemental	273,977.69	City Match	<u>308,000.00</u>
Total	<u>\$287,589.81</u>		\$1,297,000.00

RECOMMENDATION

The Council is being asked to approve the Amendment No. 1 to Contract 22-099 with KPFF Consulting Engineers in the amount of \$273,977.69 and consider this item on the Consent Agenda of the October 3, 2022 Regular Meeting.

ATTACHMENTS: 2021 CIP Page 11
KPFF Supplemental Agreement

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2021 to 2026

PROJECT: **Green River Trail Improvements** Project No. 91810403

DESCRIPTION: Construct a widened trail section between the west landing of the Southcenter Pedestrian Bridge and the shared use path on Christensen Road. Includes illumination, CCTV, and provides the fiber connection to the Pedestrian Bridge for operation of CCTV and communication to the light controllers and ped/bike counter.

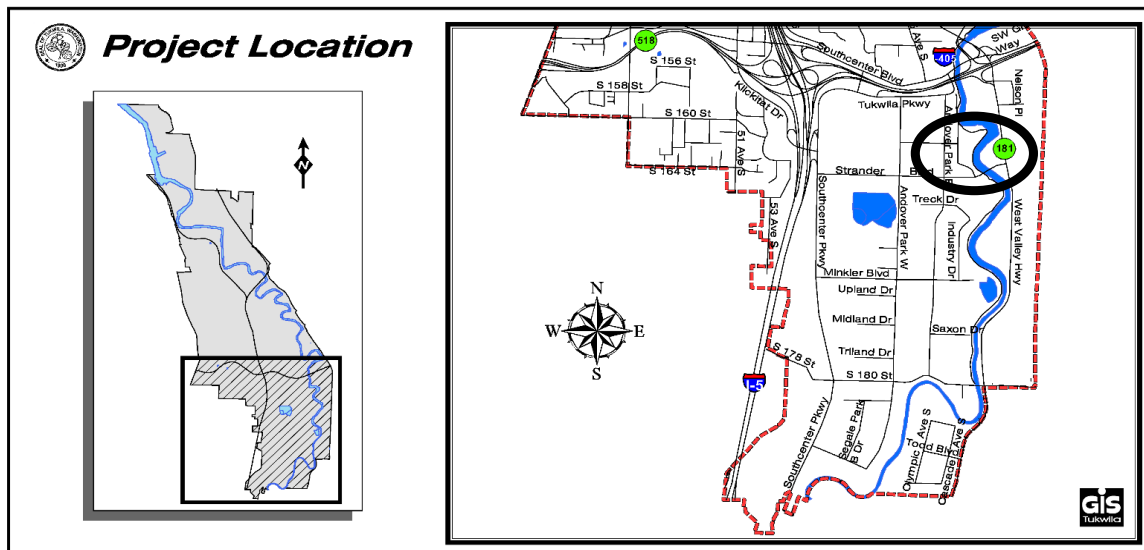
JUSTIFICATION: Wider trail section is needed to accommodate the intermingling of trail and bridge users by providing a wider trail and improved safety features.

STATUS: Designed and permitted as part of the TUC Pedestrian/Bicycle Bridge.

MAINT. IMPACT: Reduced pavement repairs, increased maintenance for illumination and CCTV upkeep.

COMMENT: Project is a subset of the TUC/TOD Ped Imprvmt Project (90710405), the TUC Ped/Bike Bridge Project (90510403) and Baker Blvd Non-Motorized (91610409). All permitting and mitigation was completed as part of the Ped Bridge project. Permitting expires in 2022, delays past this date would need new permit approvals. PSRC grant application in 2018 unsuccessful. Apply for ped/bike grant in 2020.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2019	2020	2021	2022	2023	2024	2025	2026	BEYOND		
EXPENSES											
Design			74							74	
Land (R/W)										0	
Const. Mgmt.				200						200	
Construction				1,000						1,000	
TOTAL EXPENSES	0	0	74	1,200	0	0	0	0	0	1,274	
FUND SOURCES											
Awarded Grant										0	
Proposed Grant			66	900						966	
Mitigation Actual										0	
Traffic Impact Fees										0	
City Oper. Revenue	0	0	8	300	0	0	0	0	0	308	
TOTAL SOURCES	0	0	74	1,200	0	0	0	0	0	1,274	





CONTRACT FOR SERVICES

Amendment #1

Between the City of Tukwila and KPFF Consulting Engineers

That portion of Contract No. 22-099 between the City of Tukwila and KPFF Consulting Engineers is hereby amended as follows:

Section 2:

2. The Consultant agrees to perform the services, identified on Exhibit "A-1" attached hereto, including the provision of all labor, materials, equipment and supplies.

Section 3:

3. **Duration of Agreement; Time for Performance.** This Agreement shall be in full force and effect for a period commencing upon execution and ending December 31, 2023, unless sooner terminated under the provisions hereinafter specified. Work under this Agreement shall commence upon written notice by the City to the Consultant to proceed. The Consultant shall perform all services and provide all work product required pursuant to this Agreement no later than December 31, 2023 unless an extension of such time is granted in writing by the City.

Section 4:

4. **Payment.** The Consultant shall be paid by the City for completed work and for services rendered under this Agreement as follows:
 - A. Payment for the work provided by the Consultant shall be made as provided on Exhibit "B-1" attached hereto, provided that the total amount of payment to the Consultant shall not exceed \$287,589.81 without express written modification of the Agreement signed by the City.

All other provisions of the contract shall remain in full force and effect.



City of Tukwila

6200 Southcenter Boulevard, Tukwila WA 98188

Agreement Number:
22-099

Dated this _____ day of _____, 20_____.

CITY OF TUKWILA

CONTRACTOR

Allan Ekberg, Mayor

Printed Name:_____

ATTEST/AUTHENTICATED

APPROVED AS TO FORM

Christy O'Flaherty, MMC, City Clerk

Office of the City Attorney

**Exhibit A-1
Scope of Work**

***Green River Trail Improvements
Repackaging Plans, Specifications, and Cost Estimate (PSE) and Construction
Management***

PROJECT DESCRIPTION

The Tukwila Urban Center project created a multi-use pedestrian and bicycle corridor that connected the Sounder Station with the Tukwila Transit Center. A portion of the Green River Trail reconstruction west of and along the south bank of the Green River within this corridor was designed but previously eliminated from these projects. This unimproved portion of the Green River Trail, between Christensen Road and the west landing of the new pedestrian bridge will be reconstructed with this project, finalizing the last leg of the Tukwila Urban Center connection corridor.

PROJECT OBJECTIVES

The overall objective of this project is to prepare construction Plans, Specifications, and Cost Estimate and provide construction management services for trail improvements from the west landing of the new pedestrian bridge to the east side of Christensen Road. The trail will be paved in concrete matching the general finish of previous improvements along the west side of Christensen Road, and maintain access and loading requirements for maintenance of the Green River bank by the United States Army Corp of Engineers (USACE). The project team is made up of the following firms:

Owner	City of Tukwila
Prime Consultant	KPFF Consulting Engineers
Civil Engineering	KPFF Consulting Engineers
Structural Engineering	KPFF Consulting Engineers
Urban Design	KPG Psomas
Landscape and Irrigation	KPG Psomas
Illumination	KPG Psomas
Surveying	KPG Psomas
Environmental and Permitting Services	Landau Associates
Construction Management	KPFF Consulting Engineers

ASSUMPTIONS

- There is no Right-of-Way acquisition required for this project. The trail alignment will be adjusted so all permanent construction is outside adjacent parcel property boundaries.
- There is no permitting work for this contract. Previous permitting was done for the entire corridor project. All environmental mitigation was constructed as a part of the bridge construction. Existing permits are still in place and unexpired or renewed, and the project does not have any need for permit updates.
- There is no Geotechnical Engineering included for this project. The previous geotechnical investigation and proposed surfacing will be used.

- There is no survey included for this project. The previous survey base mapping and adjacent design will be used.

SCOPE OF WORK

The following is a scope of work for the repackaging of the plans, specifications, and estimated construction costs (PSE) and construction support and management phases of the project.

Task No. 1.0 – Project Management and Administration

Task No. 1.01 – Project Schedule

A project repackaging and construction schedule shall be created in Microsoft Project that spans from the notice-to-proceed for the work to repackage the PSE documents and perform construction management and construction support services during project construction. The schedule shall be updated on an as needed basis. The schedule will incorporate time requirements for bidding, award, and construction contract notification to proceed as provided by the City.

Task No. 1.02 – Design Team Subconsultant Agreements

Consultant shall prepare Subconsultant contract agreements.

Task No. 1.03 – Progress Reports

A progress report form shall be provided to each team member. This form shall be filled out on a monthly basis and submitted with the invoice for the work described in the progress report. Consultant shall compile the reports into a single document to be submitted to the City with the associated monthly invoice.

Task No. 1.04 – Invoices

Team members are to prepare monthly invoices for work completed. Consultant shall compile the invoices into a single document to be submitted to the City. The anticipated contract duration is 15 months.

Task No. 1.05 – Team Meetings

The Consultant team shall meet with the City a maximum of four (4) times to discuss project issues, schedule, progress, and general coordination of effort. The Consultant team shall meet internally as needed to coordinate project tasks and design.

Deliverables

- Project schedule with monthly updates
- Monthly progress reports and invoices
- Team meetings
 - Participation in project meetings with the City (assume 4 meetings)

**Exhibit A – Scope of Work
Tukwila Urban Center, Green River Trail**

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- Participation in internal consultant team meetings with the City (assume 4 meetings)

Task 2.0 – Basemap Creation

Consultant shall update the previous topographic survey by integrating previous proposed work for Tukwila Pedestrian Bridge approach and Christensen Road sidewalk improvements.

Deliverables:

- Revised basemap in AutoCAD V20.dwg format.
- Basemap flattened to zero elevation for plan use.
- Drawing set will use previous benchmarks and horizontal control, basis of bearing, property lines, and legend.
- Deliverable will be AutoCAD V20 .dwg file and .pdf.

Task 3.0 – Project Workshops

Task No. 3.01 – Internal Team PSE Kick-Off Meeting

The team shall meet to discuss the previous work completed on the project and develop an approach to move forward to be shared and discussed in a project kick off meeting with the City.

Task 4.0 – Environmental and Permitting Services

Not Used

Task 5.0 – Civil Engineering

Consultant shall perform the civil engineering support work necessary to complete construction documents for the project.

Task No. 5.01 – Site Preparation and Demolition

Consultant shall identify demolition and other site preparation work necessary for the construction of the trail Improvements.

Task No. 5.02 – Horizontal and Vertical Control and Layout

Consultant shall revise the construction horizontal and vertical alignment for the pedestrian trail to clear all private property boundaries. This work shall also include design and layout

of other related facilities such as ADA landings necessary for the pedestrian trail to tie to existing grades at the pedestrian bridge and Christensen Rd.

Task No. 5.03 – Grading and Paving

Consultant shall develop the necessary typical sections and proposed terrain model, and establish finish grade and grading limits for the improvements. Cross sections will be created at a 25-foot interval showing the existing and proposed grades.

Assumptions

- No finish grade contours are included in this work. All grades will be established with the proposed horizontal alignment, vertical alignment, and typical section.

Task No. 5.04 – Temporary Erosion and Sedimentation Control

KPFF shall prepare temporary erosion control plans and details. Plans will be prepared to a format consistent with the KCSWDM and the City’s standard details.

Assumptions

- Construction Plan Details sheets will only include special construction.
- Standard Details for the City of Tukwila and/or the Washington State Department of Transportation (WSDOT) will be referenced on the Plans, but will not be included in the plan set detail sheets. Applicable Standard Plans will be included within Appendices of the Specifications.
- General notes are not included in this work.
- Stormwater drainage Technical Information Report (TIR) prepared previously for this project is still valid. No update of the TIR is included.

Task No. 5.05 – Utilities

- Consultant shall design necessary relocations for City owned or privately owned utilities disturbed by the project.
- Consultant shall coordinate identification of utility relocations for any franchise utilities being disturbed within public Right of Way (R/W).

Assumptions

- Private utilities shall be located by survey, and locating utilities is not included within this task.
- Standard Details for the City of Tukwila and/or the Washington State Department of Transportation (WSDOT) will be referenced on the Plans, but will not be included in the plan set detail sheets. Applicable Standard Plans will be included within Appendices of the Specifications.

Exhibit A – Scope of Work
Tukwila Urban Center, Green River Trail

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- Potholing for determining utility depths is not included in this work. The City will be responsible for coordinating with the utility companies to perform any required potholing.
- Necessary utility relocations will be shown on the Storm and Utility Plans. Due to the small amount of anticipated work, separate utility plans are not included at this time.
- Work addresses existing utilities. No new utility construction is currently included in this work.

Task No. 5.07 – Temporary Traffic Control

Consultant shall design necessary roadway signing for trail closure and detour for construction of the trail.

Assumptions

- Standard Details for the City of Tukwila and/or the Washington State Department of Transportation (WSDOT) will be referenced on the Plans, but will not be included in the plan set detail sheets. Applicable Standard Plans will be included within Appendices of the Specifications.

Deliverables (Electronic and Hard Copies)

- Anticipated Civil Plan Sheets (Sheet Count: ±10)
 - Cover Sheet
 - Sheet Legend
 - Legend and Abbreviations
 - Site Preparation (2 sheets)
 - TESC Plans (2 sheets)
 - TESC Detail (1 sheet)
 - Roadway Sections (1 sheet)
 - Plan/Profile sheets (2 sheets)
 - Paving Detail (1 sheet)
 - Drainage (0 sheets)
 - Drainage Detail (0 sheet)
 - Utility (1 sheets)
 - Utility Detail (1 sheet)
 - Temporary Traffic Control Plan (2 sheets)
 - Temporary Traffic Control Detail (1 sheet)
 - Draft 100 Percent Plan Submittal:
 - draft 100% level plan set (.pdf - 22 x 34)

Exhibit A – Scope of Work
Tukwila Urban Center, Green River Trail

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- 100 Percent Plan Submittal:
 - Response to City 100% Comments (3 copies)
 - 100% level plan set (.pdf - 22 x 34)
 - Response to City/WSDOT Comments (3 copies)
- Final PS&E Submittal:
 - Final plan set (.pdf - 22 x 34)

Task 6.0 – Structural Engineering

KPFF shall provide structural engineering support for the Plans, Specifications, and Estimate (PSE) design phase of the Green River Trail Improvements project.

Task No. 6.01 – Trail Design

KPFF shall provide structural engineering support for the PSE design of the trail.

Components of the trail design shall include the following items:

- Review of previous geotechnical reports
- Light pole foundations

Task No. 6.02 – Miscellaneous Structures

Consultant shall provide structural engineering for the PSE design of miscellaneous structures.

Miscellaneous structures shall include the following items:

- Decorative wall footings and foundation

Deliverables (Electronic and Hard Copies)

- Anticipated Structural Plan Sheets (Sheet Count: ± 1):
 - Wall Footing and Foundation Detail
 - Light Pole Foundation Detail
- draft 100 Percent Plan Submittal:
 - Draft 100% level plan set (.pdf - 22 x 34)
 - Response to City draft 100% Comments (3 copies)
- 100 Percent Plan Submittal:
 - 100% level plan set (.pdf - 22 x 34)
 - Response to City / WSDOT Comments (3 copies)
- Final Plan Submittal:

- Final plan set (.pdf - 22 x 34)

Task 7.0 – Illumination, Urban Design, and Landscape

Understanding

Trail alignment will be revised to ensure trail is within existing trail easement and ROW (outside of private property to the south edge of the trail).

Revised trail alignment will necessitate revisions to current design including:

- Planting revisions
- Irrigation - including revisions to integrate trail system with existing system Phase 1
- Illumination - light fixtures will need to be verified as to the type and if still available. This may incur additional work to make sure the layout is adequate for the new fixtures

Consultant will provide QA/QC for each submittal.

Task No. 7.01 – Illumination

Consultant shall provide draft 100%, 100%, and Final illumination plans for the trail, and connection to existing illumination system for the adjacent bridge. Work includes evaluating pedestrian lighting fixtures to confirm specified fixtures are current and available, and review and revise, as necessary, conduits, wiring, and coordination of electrical power connection services with local power company. The Consultant shall review and republish previous lighting performance evaluation throughout the project using the AGi32 illumination model.

Task No. 7.02 – Trail Urban Design

Consultant shall provide draft 100%, 100%, and Final Plans for trail urban design layout and surface treatments (Civil engineering by KPFF) wayfinding sign relocation, and site elements (i.e. litter receptacles, benches, decorative walls, etc.).

Task No. 7.03 – Landscape and Irrigation

Consultant shall provide draft 100%, 100%, and Final Plans for planting design and irrigation design (including irrigation controller, water source point of connection) for restoration along trail section.

Deliverables

- Anticipated Sheets:
 - Trail Landscape Plans and Details and Hardscape Details
 - Trail Enlarged Landscape Plans and Details and Hardscape Details
 - Trail and Bridge Lighting Plan and Details
 - Site Furnishing/ Plan and Details

**Exhibit A – Scope of Work
Tukwila Urban Center, Green River Trail**

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- draft 100 Percent Plan Submittal:
 - draft 100% level plan set (.pdf - 22 x 34)
 - Response to City draft 100% Comments (3 copies)
- 100 Percent Plan Submittal (.pdf - 22 x 34)
 - Draft Final plan set (.pdf - 22 x 34)
 - Response to City/WSDOT Plan comments (3 copies)
- Final Plan Submittal (.pdf - 22 x 34)
 - Final plan set (.pdf - 22 x 34)

Task 8.0 – Right-of-Way Services

This task shall only include necessary documentation for temporary construction easements, if needed. The Consultant shall prepare legal exhibits (stamped diagram and brief legal description) for temporary construction easements for 2 parcels bounding the south side of the trail. Temporary Construction Easements will be executed with the land owner by the City.

Task 8.01 – Temporary Construction Easement Documentation

Consultant shall provide legal descriptions and exhibit maps for two parcels.

Assumptions:

- No formal Right-of-Way Plans are included at this time as there is no Right-of-Way acquisition as a part of this project.
- No Title Report updates are included at this time. Title reports for 2 adjacent parcels are available from previous phase.

Task 9.0 – Cost Estimate

Task 9.01 – Updates to Cost Estimate

Consultant shall recompile and verify construction quantities for work identified on the Plans. Backup documentation shall be included for item quantity takeoffs. The cost estimate shall be based upon WSDOT Standard Specifications and Standard Item Table. The unit prices shall be updated for current bid process

Exhibit A – Scope of Work
Tukwila Urban Center, Green River Trail

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Consultant shall verify the estimate of construction working days required for the construction previously calculated.

Consultant shall update the quantity takeoffs and cost estimates based on City and WSDOT review comments.

Assumptions

- City shall provide copies of their latest bid tabulations for recent public works contracts.

Deliverables (Electronic and Hard Copies)

- Draft 100 Percent Submittal:
 - Updates Estimated Quantities and Associated Costs (.pdf)
 - Estimated Construction Duration
 - Response to City Review Comments
- 100 Percent Submittal:
 - Updates Estimated Quantities and Associated Costs (.pdf)
 - Response to City/WSDOT Review Comments
- Final PS&E Submittal:
 - Final Cost Estimate
 - Estimated Quantities (documentation .xls and .pdf)

Task 10.0 – Specifications

Consultant shall compile specifications for civil work and update to current 2022 WSDOT Standard Specification. Draft 100% submittal shall include all special provisions required for the bid items identified as well as City of Tukwila Division 10, GSP’s required for federal funding, and a bid proposal form. Draft 100% submittal will be reviewed by the City. Consultant will integrate City comments and resubmit to City with 100% submittal. The City will forwarded to WSDOT with the Plans for Local Programs review. Final Submittal shall integrate WSDOT comments, provide responses to WSDOT review comments, integrate all City comments, and publish for review. Upon final review by City, a Final set of specifications will be published and provided to the City for advertisement.

Assumptions

- City shall provide all Division 01 documents and Contract Boilerplate for federal funding.
- City shall provide all other City Special Provisions applicable to the project.
- City shall submit 100 percent specifications and Plans to WSDOT for review for Federal Requirements.

Deliverables (Electronic and Hard Copies)

- Draft 100 Percent Submittal:
 - Draft Specifications (.doc and .pdf)
- 100 Percent Submittal:
 - 100 percent Specifications (.doc and .pdf)
 - Response to City/WSDOT Specification comments (.xls)
- Final Submittal:
 - Final Specifications (.doc and.pdf)

Task 11.0 – Bid Support Services

Consultant shall respond in a timely manner to all Bidder questions forwarded by the City. Consultant shall prepare descriptions of addenda items, revised plans, and revised specifications as necessary, and provide these documents in .pdf format to the City to respond to bidder questions.

Assumptions

- City shall field all questions and formalize correspondence to bidders for responses.

Deliverables (Electronic and Hard Copies)

- Electronic .pdf versions of all revised documents.
- Conformed set of Plans integrating all revisions during bidding period
- Confirmed Specifications integrating all revisions during bidding period.

Task 12.0 – Construction Support Services

The project team will provide construction support to the City as the project design is completed and the project goes to advertisement and then construction. Tasks include attending four (4) construction meetings and site visits, answering four (4) Contractor's requests for information (RFI), and twenty (20) submittal reviews.

Task 13.0 – Construction Management Services

Task No. 13.01 – Pre-Construction Services

KPFF will attend the bid opening. Following execution of a construction contract with the successful bidder, KPFF will facilitate a virtual pre-construction meeting. KPFF will provide

a Zoom link and will send invitations to attendees. KPFF will assist in preparing the list of attendees, attend and facilitate the pre-construction meeting, and prepare and distribute meeting minutes to stakeholders.

Task No. 13.02 – Contract Administration

KPFF will perform project management functions including contract administration, communications with City, coordination of staff and subconsultants, and invoice preparation. Facilitate communications and maintain an accurate record of correspondence with City, Contractor, and stakeholders. Prepare and distribute correspondence as needed. Develop project tracking logs specific to this contract and compile required federal funding documentation. Track certified payroll submittals and perform wage interviews with laborers.

Task No. 13.03 – Weekly Progress Meetings

KPFF will facilitate weekly virtual construction meetings with the Contractor. Task includes preparation of meeting agendas, facilitation of schedule updates from Contractor tracking against contract milestones, and preparation and distribution of meeting minutes to Owner, Contractor, and stakeholders.

Task No 13.04 – Submittal Review / Recommendations

KPFF Construction Management team will provide preliminary review of submittals or conformance with the Plans and Contract Provisions, and distribute to design team for review. KPFF will develop submittal tracking log and track status of all submittals.

Task No. 13.05 – Changed Conditions/RFI/Change Orders

KPFF Construction Management team will review Contractor Requests for Information (RFI) and design change requests, then make initial determination if Contractor needs to provide further information prior to design team review, or distribute to appropriate party.

KPFF will prepare and process construction field directives and resultant change orders. Track all changes to the approved Plans and Contract Provisions. Coordinate, negotiate, and issue change orders, along with all documentation for the change including summary sheet, creating an independent cost estimate, gathering Contractor's cost estimates and proposals, and writing a finding of fact.

KPFF will develop RFI and change tracking logs and track status of all RFIs and change items.

Task No. 13.06 – Contractor Payment Applications

KPFF will prepare and approve progress payment applications. KPFF will track all unit price items for each pay application and compile all relevant backup documentation. Verify that Contractor is maintaining redline drawings and that they are current at the time of pay application. Make recommendation and submit paperwork to Owner for payment to the Contractor.

Task No. 13.07 – Site Construction Observation

KPFF will monitor and document the Contractor’s work and daily activities for compliance with plans and contract provisions. Provide copies of the daily reports to Owner, Contractor, and stakeholders, indicating the status and compliance of the Contractor’s work with the Plans and Contract Provisions.

Observe traffic patterns and monitor safe traffic control procedures in compliance with approved traffic control plans during construction.

Observe the technical conduct of construction, including providing day-to-day contact with the construction Contractor, Owner, utilities, and other stakeholders, and monitor for adherence to the Contract Documents.

Observe material, workmanship, and construction areas for compliance with the Contract Documents and applicable codes, and notify construction Contractor of noncompliance. Advise Owner of all non-conforming work observed during site visits.

Evaluate and facilitate corrective action to issues which may arise related to the quality and acceptability of material furnished, work performed, and rate of progress of work performed by the Contractor.

Provide a daily construction inspection report for each day construction is observed (Inspector’s Daily Report/IDR), including but not limited to photo documentation, inspection and testing data, summary of the work for the day, and traffic control for each aspect of the construction activity.

Task No. 13.08 – Special Inspection / Testing

KPFF will provide special inspections/testing using subconsultants. KPFF will coordinate special inspections and testing, review the work of the Field Representative(s) and testing laboratories in the observation and testing of materials used in the construction, document and evaluate results of testing, and inform Owner and Contractor of deficiencies.

Document and log the locations, dates, and results of inspections and testing.

Task No. 13.09 – Substantial Completion/Final Inspection/Physical Completion

KPFF will facilitate the project completion process by performing inspections of work and making a determination of Substantial Completion. Develop a written list of remaining deficiencies and provide the punch list to the Contractor for corrective actions. Coordinate with the Contractor for the Operational Testing of all mechanical, electrical, irrigation, and other systems identified in the Plans and Contract Provisions.

Upon notification from the Contractor of completion of the punch list items and Operational Testing, perform a Final Inspection. Once any corrective measures are satisfactorily completed and inspected, make a recommendation to Owner for the project Physical Completion Date.

Coordinate inspections and closeout with the City.

Task No. 13.10 – As-Built Drawings

KPFF will coordinate and deliver to the design team a set of the Contractor's As-Built Drawings. The Contractor shall be responsible for the content and accuracy of the provided information. KPFF will review on a monthly basis, verify that content matches what the construction inspector has observed in the field, and review the final set of As-Built documents to confirm they are complete before delivering to the design team.

Task No. 13.11 – Project Closeout Documentation / Completion Date

KPFF will compile project closeout documents including final payment, QC reports, O & M manuals, inspection reports, and Contractor review forms. Compile all documentation from the Contractor required by the contract and governing laws. Once the documentation is accepted, provide a written final acceptance / contract completion letter to Owner.

Construction Management Assumptions

- Project is federally funded.
- Proposal incorporates anticipated level of effort for a 125-day contract, which assumes an 80 working day inspection period, plus preconstruction services prior to start of construction and contract closeout, and administrative services throughout.
- Construction working days are assumed to be Monday through Friday. KPFF anticipates providing full-time site presence during construction.
- Project meetings include (1) bid opening, (1) preconstruction conference, (16) weekly construction progress meetings, and (2) close-out walkthroughs. KPFF anticipates facilitating all meetings including development and distribution of agendas and minutes.

EXHIBIT B-1
KPFF Consulting Engineers
CONSULTANT FEE DETERMINATION
SUMMARY OF COST
GREEN RIVER TRAIL IMPROVEMENTS

Classification	Total Hours	X	Rate	=	Cost
Principal	20.00	X	\$75.73	=	\$1,514.60
Project Manager	124.00	X	\$76.88	=	\$9,533.12
Lead Civil Engineer	186.00	X	\$53.79	=	\$10,004.94
Structural Engineer	32.00	X	\$78.00	=	\$2,496.00
Design Engineer	72.00	X	\$39.71	=	\$2,859.12
CADD Manager	82.00	X	\$48.98	=	\$4,016.36
Project Coordinator	31.00	X	\$32.18	=	\$997.58
		X		=	\$0.00
		X		=	\$0.00
DSC Subtotal				=	\$31,421.72
Overhead (OH) Cost					
OH Rate x DSC of	140.56%	X	\$31,421.72	=	\$44,166.37
Fixed Fee (FF)					
FF Rate x DSC of	30.00%	X	\$31,421.72	=	\$9,426.52
Reimbursables					
Mileage (Miles)	200	X	\$0.625		\$125.00
Courier	4	X	\$75.00		\$300.00
Parking	0	X	\$20.00		\$0.00
(Blank)	(Allowance)				\$0.00
Subtotal					\$425.00
Consultant Costs					\$85,439.61
Subconsultant Costs (See Exhibits E)					\$188,538.08
GRAND TOTAL:					\$273,977.69

EXHIBIT E-1

**KPFF SPD - Construction Management Services
CONSULTANT FEE DETERMINATION
SUMMARY OF COST
GREEN RIVER TRAIL IMPROVEMENTS**

Classification	Total Hours	X	Rate	=	Cost
Project Manager	163.00	X	\$51.92	=	\$8,462.96
Assistant Project Manager	122.00	X	\$46.88	=	\$5,719.36
Daily Site Inspector	640.00	X	\$39.81	=	\$25,478.40
Project Coordinator	83.00	X	\$34.62	=	\$2,873.46
0.00	0.00	X	\$0.00	=	\$0.00
0.00	0.00	X	\$0.00	=	\$0.00
0.00	0.00	X	\$0.00	=	\$0.00
		X		=	\$0.00
DSC Subtotal					\$42,534.18
Overhead (OH) Cost					
OH Rate x DSC of	140.56%	X	\$42,534.18	=	\$59,786.04
Fixed Fee (FF)					
FF Rate x DSC of	30.00%	X	\$42,534.18	=	\$12,760.25
Reimbursables					
Mileage (miles)	2,000	X	\$0.625		\$0.00
Courier		X			Totals
Parking		X			\$1,250.00
Inspections (TBD)	1	LS	\$10,000.00		\$10,000.00
Subtotal					\$11,250.00
Subconsultant Total:					\$126,330.48

EXHIBIT E-1

KPG

**CONSULTANT FEE DETERMINATION
SUMMARY OF COST
GREEN RIVER TRAIL IMPROVEMENTS**

Classification	Total Hours	X	Rate	=	Cost
Senior Survey Tech	20.00	X	\$45.12	=	\$902.40
Urban Design Manager	77.00	X	\$66.02	=	\$5,083.54
Project Landscape Architect	90.00	X	\$49.85	=	\$4,486.50
Landscape Technician	104.00	X	\$33.48	=	\$3,481.92
Senior Illumination Engineer	56.00	X	\$70.35	=	\$3,939.60
Project Illumination Engineer	70.00	X	\$56.59	=	\$3,961.30
CADD Tech	22.00	X	\$45.34	=	\$997.48
Office Admin	10.00	X	\$32.24	=	\$322.40
DSC Subtotal					\$23,175.14
Overhead (OH) Cost					
OH Rate x DSC of	136.59%	X	\$23,175.14	=	\$31,654.92
Fixed Fee (FF)					
FF Rate x DSC of	30.00%	X	\$23,175.14	=	\$6,952.54
Reimbursables					
Mileage (miles)	200	X	\$0.625		\$125.00
Courier	4	X	\$75.00		\$300.00
Parking	0	X	\$20.00		\$0.00
(Blank)	0		\$0.00		\$0.00
Subtotal					\$425.00
Subconsultant Total:					\$62,207.61

EXHIBIT B-1
 Tukwila Green River Trail Improvements
 09/12/22

KPFF

	Description	Notes	Principal	Project Manager	Lead Civil Engineer	Structural Engineer	Design Engineer	CADD Manager	Project Coordinator	Total Hours	Total Direct Salary Cost	OH (1.4056)	Fee (0.3)	Total Cost per Sub Task
Task 1.0	Project Management		R Leimkuhler	L Wind	T Guebert	B Erickson	A Rempe	K Weber	S Pier					
1.01	Project Schedule		1	4						5	\$ 383.25	\$ 538.70	\$ 114.98	\$ 1,036.92
1.02	Subconsultant Agreements		1	8					8	17	\$ 948.21	\$ 1,332.80	\$ 284.46	\$ 2,565.48
1.03	Progress Reports			4	8				4	16	\$ 866.56	\$ 1,218.04	\$ 259.97	\$ 2,344.56
1.04	Invoicing		2	7					15	24	\$ 1,172.32	\$ 1,647.81	\$ 351.70	\$ 3,171.83
1.05	Team Meetings		2	12	8		4	4		30	\$ 1,859.10	\$ 2,613.15	\$ 557.73	\$ 5,029.98
Task 2.0	Basemap Creation													
2.1	Develop new basemap		1	12	4			24		41	\$ 2,388.97	\$ 3,357.94	\$ 716.69	\$ 6,463.60
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
Task 3.0	Project Workshop													
3.01	Kickoff Meeting		2	4	2		2	4		14	\$ 841.90	\$ 1,183.37	\$ 252.57	\$ 2,277.84
3.02										0	\$ -	\$ -	\$ -	\$ -
3.03										0	\$ -	\$ -	\$ -	\$ -
Task 4.0	Environmental and Permitting Services													
4.01	Team and Agency Pre-application Meeting									0	\$ -	\$ -	\$ -	\$ -
4.02	Shoreline Permit Submittal									0	\$ -	\$ -	\$ -	\$ -
4.03										0	\$ -	\$ -	\$ -	\$ -
Task 5.0	Civil Engineering													
5.01	Site Prep and Demo			2	2		4	4		12	\$ 616.10	\$ 865.99	\$ 184.83	\$ 1,666.92
5.02	Horizontal and Vertical Control and Layout		1	8	16		4	8		37	\$ 2,102.09	\$ 2,954.70	\$ 630.63	\$ 5,687.41
5.03	Grading and Paving		1	2	4		8	8		23	\$ 1,154.17	\$ 1,622.30	\$ 346.25	\$ 3,122.72
5.04	Temporary Erosion and Sedimentation Control			1			2	4		7	\$ 352.22	\$ 495.08	\$ 105.67	\$ 952.97
5.05	Utilities			1	2			4		7	\$ 380.38	\$ 534.66	\$ 114.11	\$ 1,029.16
5.06										0	\$ -	\$ -	\$ -	\$ -
5.07	Temporary Traffic Control		1	2	4		8	2		17	\$ 860.29	\$ 1,209.22	\$ 258.09	\$ 2,327.60
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
Task 6.0	Structural Engineering													
6.01	Trail Elements					4		2		6	\$ 409.96	\$ 576.24	\$ 122.99	\$ 1,109.19
6.02	Miscellaneous Structures					4		2		6	\$ 409.96	\$ 576.24	\$ 122.99	\$ 1,109.19
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -

EXHIBIT B-1
Tukwila Green River Trail Improvements
09/12/22

KPFF

	Description	Notes	Principal	Project Manager	Lead Civil Engineer	Structural Engineer	Design Engineer	CADD Manager	Project Coordinator	Total Hours	Total Direct Salary Cost	OH (1.4056)	Fee (0.3)	Total Cost per Sub Task
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
Task 7.0	Illumination, Urban Design, and Landscape													
7.01	Illumination			1						1	\$ 76.88	\$ 108.06	\$ 23.06	\$ 208.01
7.02	Trail Urban Design			1						1	\$ 76.88	\$ 108.06	\$ 23.06	\$ 208.01
7.03	Landscape and Irrigation			0						0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
Task 8.0	Right-of-Way Services													
8.01	Temporary Construction Easement Documentation			4						4	\$ 307.52	\$ 432.25	\$ 92.26	\$ 832.03
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
										0	\$ -	\$ -	\$ -	\$ -
Task 9.0	Cost Estimate													
9.01	Cost Estimate									0	\$ -	\$ -	\$ -	\$ -
	draft 100 percent		1	2	8	8				19	\$ 1,283.81	\$ 1,804.52	\$ 385.14	\$ 3,473.48
	Construction Working Days Duration 100 percent		1	2	8	8				11	\$ 659.81	\$ 927.43	\$ 197.94	\$ 1,785.18
	Final		1	2	8	8				19	\$ 1,283.81	\$ 1,804.52	\$ 385.14	\$ 3,473.48
				2	8	8				18	\$ 1,208.08	\$ 1,698.08	\$ 362.42	\$ 3,268.58
Task 10.0	Specifications													
10.1	Specification Preparation									0	\$ -	\$ -	\$ -	\$ -
	Contract Boilerplate			1	2					3	\$ 184.46	\$ 259.28	\$ 55.34	\$ 499.07
	Bid Proposal Form			1	2					3	\$ 184.46	\$ 259.28	\$ 55.34	\$ 499.07
	Division 10			1	4					5	\$ 292.04	\$ 410.49	\$ 87.61	\$ 790.14
	WSDOT GSP			2	8					10	\$ 584.08	\$ 820.98	\$ 175.22	\$ 1,580.29
	Special Provisions		1	4	16				4	25	\$ 1,372.61	\$ 1,929.34	\$ 411.78	\$ 3,713.73
Task 11.0	Bid Support Services													
11.01	Response to Bidder Questions			2	4					6	\$ 368.92	\$ 518.55	\$ 110.68	\$ 998.15
11.02	Addendum Preparation			4	8					12	\$ 737.84	\$ 1,037.11	\$ 221.35	\$ 1,996.30
11.03										0	\$ -	\$ -	\$ -	\$ -
11.04										0	\$ -	\$ -	\$ -	\$ -
11.05										0	\$ -	\$ -	\$ -	\$ -
11.06										0	\$ -	\$ -	\$ -	\$ -
11.07										0	\$ -	\$ -	\$ -	\$ -

EXHIBIT B-1
Tukwila Green River Trail Improvements
09/12/22

KPFF

	Description	Notes	Principal	Project Manager	Lead Civil Engineer	Structural Engineer	Design Engineer	CADD Manager	Project Coordinator	Total Hours	Total Direct Salary Cost	OH (1.4056)	Fee (0.3)	Total Cost per Sub Task	
Task 12.0	Construction Support Services														
12.01	Construction Meetings			8	16					24	\$ 1,475.68	\$ 2,074.22	\$ 442.70	\$ 3,992.60	
12.02	Site Field Visit			4	8					12	\$ 737.84	\$ 1,037.11	\$ 221.35	\$ 1,996.30	
12.03	Submittal Review			4	16		40			60	\$ 2,756.56	\$ 3,874.62	\$ 826.97	\$ 7,458.15	
12.04	RFI		4	8	16			16		44	\$ 2,562.28	\$ 3,601.54	\$ 768.68	\$ 6,932.50	
12.05	Punchlist			4	4					8	\$ 522.68	\$ 734.68	\$ 156.80	\$ 1,414.16	
										0	\$ -	\$ -	\$ -	\$ -	
										0	\$ -	\$ -	\$ -	\$ -	
										0	\$ -	\$ -	\$ -	\$ -	
										0	\$ -	\$ -	\$ -	\$ -	
Task 13.0	Construction Management														
13.01										0	\$ -	\$ -	\$ -	\$ -	
13.02										0	\$ -	\$ -	\$ -	\$ -	
13.03										0	\$ -	\$ -	\$ -	\$ -	
13.04										0	\$ -	\$ -	\$ -	\$ -	
13.05										0	\$ -	\$ -	\$ -	\$ -	
13.06										0	\$ -	\$ -	\$ -	\$ -	
13.07										0	\$ -	\$ -	\$ -	\$ -	
13.08										0	\$ -	\$ -	\$ -	\$ -	
13.09										0	\$ -	\$ -	\$ -	\$ -	
13.1										0	\$ -	\$ -	\$ -	\$ -	
13.11										0	\$ -	\$ -	\$ -	\$ -	
Total Hours per Person			20	124	186	32	72	82	31	547	\$ 31,421.72	\$ 44,166.37	\$ 9,426.52	\$ 85,014.61	
Current Hourly Rates			\$ 75.73	\$ 76.88	\$ 53.79	\$ 78.00	\$ 39.71	\$ 48.98	\$ 32.18	Sub-Totals					
Direct Salary Cost (DSC)			\$ 1,514.60	\$ 9,533.12	\$ 10,004.94	\$ 2,496.00	\$ 2,859.12	\$ 4,016.36	\$ 997.58	\$ 31,421.72					
Overhead Cost (1.4056 of DSC)			140.56%	\$ 2,128.92	\$ 13,399.75	\$ 14,062.94	\$ 3,508.38	\$ 4,018.78	\$ 5,645.40	\$ 1,402.20	\$ 44,166.37				
DSC+OH				\$ 3,643.52	\$ 22,932.87	\$ 24,067.88	\$ 6,004.38	\$ 6,877.90	\$ 9,661.76	\$ 2,399.78	\$ 75,588.09				
Fee (0.3 of DSC)			30%	\$ 454.38	\$ 2,859.94	\$ 3,001.48	\$ 748.80	\$ 857.74	\$ 1,204.91	\$ 299.27	\$ 9,426.52				
Fully Burdened Cost				\$ 4,097.90	\$ 25,792.81	\$ 27,069.37	\$ 6,753.18	\$ 7,735.64	\$ 10,866.66	\$ 2,699.05	\$ 85,014.61				
Sub-Total Burdened Labor Cost				\$ 4,097.90	\$ 25,792.81	\$ 27,069.37	\$ 6,753.18	\$ 7,735.64	\$ 10,866.66	\$ 2,699.05	\$ 85,014.61				
REIMBURSABLES															
Direct Expenses (KPFF Civil Only)			Quantity	Unit	Unit Cost									Totals	
Mileage			200	Mile	\$ 0.625									\$ 125.00	
Courier			4	Each	\$ 75.00									\$ 300.00	
Parking			0	Each	\$ 20.00									\$ -	
Reproduction				LS										\$ -	
Sub-Total Direct Expenses														\$ 425.00	
KPFF Total Project Costs														\$ 85,439.61	

EXHIBIT B-1
 Tukwila Green River Trail Improvements
 08/15/22

KPFF SPD

	Description	Notes	Project Manager	Assistant Project Manager	Daily Site Inspector	Project Coordinator		Total Hours	Total Direct Salary Cost	OH (1.4056)	Fee (0.3)
Task 1.0	Project Management										
Task 13.0	Construction Management										
13.01	Pre-Construction Services		3			3		6	\$ 259.62	\$ 364.92	\$ 77.89
13.02	Contract Administration		64	8		32		104	\$ 4,805.76	\$ 6,754.98	\$ 1,441.73
13.03	Weekly Progress Meetings		32	16		32		80	\$ 3,519.36	\$ 4,946.81	\$ 1,055.81
13.04	Submittal Review / Recommendations			42		8		50	\$ 2,245.92	\$ 3,156.87	\$ 673.78
13.05	Changed Conditions / RFI / Change Orders		32	12		8		52	\$ 2,500.96	\$ 3,515.35	\$ 750.29
13.06	Contractor Payment Applications		32	8				40	\$ 2,036.48	\$ 2,862.48	\$ 610.94
13.07	Site Construction Observation				640			640	\$ 25,478.40	\$ 35,812.44	\$ 7,643.52
13.08	Special Inspection / Testing			8				8	\$ 375.04	\$ 527.16	\$ 112.51
13.09	Substantial Completion / Final Inspection / Physical Completion			12				12	\$ 562.56	\$ 790.73	\$ 168.77
13.10	As-Built Drawings			8				8	\$ 375.04	\$ 527.16	\$ 112.51
13.11	Project Closeout Documentation / Completion Date			8				8	\$ 375.04	\$ 527.16	\$ 112.51
	Total Hours per Person		163	122	640	83	0	1008	\$ 42,534.18	\$ 59,786.04	\$ 12,760.25
	Current Hourly Rates		\$ 51.92	\$ 46.88	\$ 39.81	\$ 34.62		Sub-Totals			
	Direct Salary Cost (DSC)		\$ 8,462.96	\$ 5,719.36	\$ 25,478.40	\$ 2,873.46	\$ -	\$ 42,534.18			
	Overhead Cost (1.4056 of DSC)	140.56%	\$ 11,895.54	\$ 8,039.13	\$ 35,812.44	\$ 4,038.94	\$ -	\$ 59,786.04			
	DSC+OH		\$ 20,358.50	\$ 13,758.49	\$ 61,290.84	\$ 6,912.40	\$ -	\$ 102,320.22			
	Fee (0.3 of DSC)	30%	\$ 2,538.89	\$ 1,715.81	\$ 7,643.52	\$ 862.04	\$ -	\$ 12,760.25			
	Fully Burdened Cost		\$ 22,897.38	\$ 15,474.30	\$ 68,934.36	\$ 7,774.43	\$ -	\$ 115,080.48			
	Sub-Total Burdened Labor Cost		\$ 22,897.38	\$ 15,474.30	\$ 68,934.36	\$ 7,774.43	\$ -	\$ 115,080.48			

REIMBURSABLES

Direct Expenses (KPFF Civil Only)	Quantity	Unit	Unit Cost	Totals
Mileage	2000	Mile	\$ 0.625	\$ 1,250.00
Special Inspections & Testing by Subconsultant (TBD)	1	Allowance	\$ 10,000.00	\$ 10,000.00
				\$ -
				\$ -
Sub-Total Direct Expenses				\$ 11,250.00
KPFF SPD Total Project Costs				\$ 126,330.48

Total Cost per Sub Task
\$ 702.43
\$ 13,002.46
\$ 9,521.98
\$ 6,076.56
\$ 6,766.60
\$ 5,509.90
\$ 68,934.36
\$ 1,014.71
\$ 1,522.06
\$ 1,014.71
\$ 1,014.71
\$ 115,080.48

EXHIBIT B-1
 Tukwila Green River Trail Improvements
 08/12/22

KPG

	Description	Notes	Senior Survey Tech	Urban Design Manager	Project Landscape Architect	Landscape Technician	Senior Illumination Engineer	Project Illumination Engineer	CADD Tech	Office Admin	Total Hours	Total Direct Salary Cost	OH (1.3659)	Fee (0.3)	Total Cost per Sub Task
Task 1.0	Project Management														
1.01	Project Schedule										0	\$ -	\$ -	\$ -	\$ -
1.02	Subconsultant Agreements			2						2	4	\$ 196.52	\$ 268.43	\$ 58.96	\$ 523.90
1.03	Progress Reports			3							3	\$ 198.06	\$ 270.53	\$ 59.42	\$ 528.01
1.04	Invoicing			8						8	16	\$ 786.08	\$ 1,073.71	\$ 235.82	\$ 2,095.61
1.05	Team Meetings			6	8	6	6	6			32	\$ 1,757.44	\$ 2,400.49	\$ 527.23	\$ 4,685.16
Task 2.0	Basemap Creation														
2.1	Develop new basemap										0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 3.0	Project Workshop														
3.01	Kickoff Meeting			2	2		2	2			8	\$ 485.62	\$ 663.31	\$ 145.69	\$ 1,294.61
3.02											0	\$ -	\$ -	\$ -	\$ -
3.03											0	\$ -	\$ -	\$ -	\$ -
Task 4.0	Environmental and Permitting Services														
4.01	Team and Agency Pre-application Meeting										0	\$ -	\$ -	\$ -	\$ -
4.02	Shoreline Permit Submittal										0	\$ -	\$ -	\$ -	\$ -
4.03											0	\$ -	\$ -	\$ -	\$ -
Task 5.0	Civil Engineering														
5.01	Site Prep and Demo										0	\$ -	\$ -	\$ -	\$ -
5.02	Horizontal and Vertical Control and Layout										0	\$ -	\$ -	\$ -	\$ -
5.03	Grading and Paving										0	\$ -	\$ -	\$ -	\$ -
5.04	Temporary Erosion and Sedimentation Control										0	\$ -	\$ -	\$ -	\$ -
5.05	Utilities										0	\$ -	\$ -	\$ -	\$ -
5.06	Channelization and Signing										0	\$ -	\$ -	\$ -	\$ -
5.07	Temporary Traffic Control										0	\$ -	\$ -	\$ -	\$ -
5.08	Land Use										0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 6.0	Structural Engineering														
6.01	Trail Elements										0	\$ -	\$ -	\$ -	\$ -
6.02	Miscellaneous Structures										0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -

EXHIBIT B-1
Tukwila Green River Trail Improvements
08/12/22

KPG

	Description	Notes	Senior Survey Tech	Urban Design Manager	Project Landscape Architect	Landscape Technician	Senior Illumination Engineer	Project Illumination Engineer	CADD Tech	Office Admin	Total Hours	Total Direct Salary Cost	OH (1.3659)	Fee (0.3)	Total Cost per Sub Task
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 7.0	Illumination, Urban Design, and Landscape														
7.01	Illumination						28	36	6		70	\$ 4,279.08	\$ 5,844.80	\$ 1,283.72	\$ 11,407.60
7.02	Trail Urban Design			20	24	40			6		90	\$ 4,128.04	\$ 5,638.49	\$ 1,238.41	\$ 11,004.94
7.03	Landscape and Irrigation			20	24	40			6		90	\$ 4,128.04	\$ 5,638.49	\$ 1,238.41	\$ 11,004.94
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 8.0	Right-of-Way Services														
8.01	Temporary Construction Easement Documentation		20								20	\$ 902.40	\$ 1,232.59	\$ 270.72	\$ 2,405.71
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 9.0	Cost Estimate														
9.01	Cost Estimate										0	\$ -	\$ -	\$ -	\$ -
	draft 100 percent			2	4	4	2	4			16	\$ 832.42	\$ 1,137.00	\$ 249.73	\$ 2,219.15
	Construction Working Days										0	\$ -	\$ -	\$ -	\$ -
	100 percent				2	4		4			10	\$ 459.98	\$ 628.29	\$ 137.99	\$ 1,226.26
	Final			2	2	2	2	2			10	\$ 552.58	\$ 754.77	\$ 165.77	\$ 1,473.12
Task 10.0	Specifications														
10.1	Specification Preparation										0	\$ -	\$ -	\$ -	\$ -
	Contract Boilerplate										0	\$ -	\$ -	\$ -	\$ -
	Bid Proposal Form										0	\$ -	\$ -	\$ -	\$ -
	Division 10										0	\$ -	\$ -	\$ -	\$ -
	WSDOT GSP										0	\$ -	\$ -	\$ -	\$ -
	Special Provisions			8	16		16	12			52	\$ 3,130.44	\$ 4,275.87	\$ 939.13	\$ 8,345.44
Task 11.0	Bid Support Services														
11.01	Response to Bidder Questions			2	4			2			8	\$ 444.62	\$ 607.31	\$ 133.39	\$ 1,185.31
11.02	Addendum Preparation			2	4	8		2	4		20	\$ 893.82	\$ 1,220.87	\$ 268.15	\$ 2,382.83
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
											0	\$ -	\$ -	\$ -	\$ -
Task 12.0	Construction Support Services														
12.01	Construction Meetings										0	\$ -	\$ -	\$ -	\$ -

