

**CITY COUNCIL AGENDA ITEM**  
CITY OF SHORELINE, WASHINGTON

<b>AGENDA TITLE:</b>	Authorizing the City Manager to Execute an Amendment to the Professional Services Agreement with KPFF Consulting Engineers in the Amount of \$1,765,210 for Construction Management Support for the 148 <sup>th</sup> Street Non-Motorized Bridge Project
<b>DEPARTMENT:</b>	Public Works
<b>PRESENTED BY:</b>	Elizabeth Kelly, Interim City Engineer
<b>ACTION:</b>	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Discussion <input type="checkbox"/> Public Hearing

**PROBLEM/ISSUE STATEMENT:**

Construction of Phase 1 of the 148<sup>th</sup> Street Non-Motorized Bridge project will begin this spring. The City does not have the resources to manage a construction project of this magnitude and complexity and consultant services are needed to manage construction of this project. Staff have negotiated a supplemental agreement to the existing contract with KPFF Consulting Engineers to support construction management for Phase 1 construction. This supplemental agreement in the amount of \$1,765,210 will provide construction management and construction support services. Council authorization is needed to enter the supplemental agreement with KPFF Consulting Engineers.

**RESOURCE/FINANCIAL IMPACT:**

This project is currently funded in the 2023-2028 CIP. Final design and Phase 1 construction are currently fully funded. A summary of currently estimated project expenditures and revenues is shown below:

**Summary of Project Costs:**

<b>DESIGN</b>		
DESIGN (KPFF DESIGN ENGINEERS)		
PRELIMINARY DESIGN CONTRACT	\$	897,854
FINAL DESIGN CONTRACT	\$	2,147,473
CUL-DE-SAC AMENDMENT	\$	173,935
CITY STAFF & OTHER RESOURCES	\$	350,000
CONTINGENCY (10%)	\$	350,000
<b>SUBTOTAL</b>	<b>\$</b>	<b>3,917,633</b>

<b>CONSTRUCTION – PHASE 1</b>		
CONSTRUCTION COST*	\$	6,852,435
*INLCUDES CONTINGENCY (10%)		
<b>CONSTRUCTION MANAGEMENT (KPFF)</b>	<b>\$</b>	<b>1,765,210</b>
CITY STAFF & OTHER RESOURCES	\$	300,000
CONTINGENCY (10%)	\$	200,000
<b>SUBTOTAL</b>		<b>\$ 9,117,645</b>

**Summary of Secured Project Revenues:**

<b>DESIGN</b>		
GENERAL FUND	\$	232,633
STP NON-MOTORIZED	\$	2,055,000
ST SYSTEM ACCESS	\$	1,180,000
ST OVERLAP AGREEMENT	\$	450,000
<b>SUBTOTAL</b>		<b>\$ 3,917,633</b>
<b>CONSTRUCTION - PHASE 1</b>		
ST SYSTEM ACCESS	\$	2,520,000
KING COUNTY PARKS LEVY	\$	4,750,000
LEAP FUNDING	\$	1,847,645
<b>SUBTOTAL</b>		<b>\$ 9,117,645</b>

There is adequate funding for this contract amendment.

**RECOMMENDATION**

Staff recommends that the City Council authorize the City Manager to execute a supplemental agreement to the professional services contract with KPFF Consulting Engineers in the amount of \$1,765,210 for the 148<sup>th</sup> Street Non-Motorized Bridge Project.

Approved By:            City Manager **BE**    City Attorney **MK**

## **BACKGROUND**

On June 24, 2019, the City Council authorized the City Manager to enter into a contract with KPFF, Inc. for the preliminary design services for the N 148<sup>th</sup> Street Non-Motorized Bridge project. The initial contract with KPFF was for work up to and including 30% design and environmental review. The staff report for the Council authorization to enter into this contract can be found at the following link: [June 24, 2019 Staff Report](#).

On June 1, 2020, staff presented results of a [Type, Size and Location Analysis](#) with recommended preferred design and project delivery approach options to the City Council. The recommended options were formally authorized and subsequently advanced to 30% design. The staff report for this Council discussion can be found at the following link: [June 1, 2020 Staff Report](#).

On March 29, 2021, the City Council authorized the City Manager to enter into a contract with KPFF, Inc. for the final design services for the 148<sup>th</sup> Bridge Project. The staff report for the Council authorization to enter into this contract can be found at the following link: [March 29, 2021 Staff Report](#).

## **DISCUSSION**

The 148<sup>th</sup> Street Non-Motorized Bridge Project is preparing to begin Phase 1 construction. The City does not have the resources to manage a construction project of this magnitude and complexity. Consultant services are needed to support construction management of this project. The scope of work for KPFF Consulting Engineers is attached to this staff report as Attachment A. Work to be completed under this scope includes construction management services and construction management support.

The alternative to authorizing the award of this contract is to not award the supplement to the contract, in which case the City would be unable to effectively manage Phase 1 construction of the 148<sup>th</sup> Street Non-Motorized Bridge project. Staff does not recommend this alternative.

## **COUNCIL GOAL(S) ADDRESSED**

This project supports the City Council Goal 3: “Continue preparation for regional mass transit in Shoreline.”

## **RESOURCE/FINANCIAL IMPACT**

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	<b><i>SUBTOTAL</i></b>		<b><i>\$ 9,117,645</i></b>

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**RECOMMENDATION**

Staff recommends that the City Council authorize the City Manager to execute a supplemental agreement to the professional services contract with KPFF Consulting Engineers in the amount of \$1,765,210 for the 148<sup>th</sup> Street Non-Motorized Bridge Project.

**ATTACHMENTS**

Attachment A - KPFF Consulting Engineers Supplemental Agreement Scope of Services

## Attachment A Scope of Work

### City of Shoreline N 148<sup>th</sup> Street Non-Motorized Bridge Project Phase 1 Construction Management and Construction Support Services

#### **PROJECT DESCRIPTION**

The City of Shoreline has conducted a feasibility analysis to evaluate and recommend a preferred alignment alternative for a new pedestrian and bicycle bridge crossing Interstate 5 (I-5) linking the west side of freeway to the planned Sound Transit Shoreline South/148th light rail station. The preferred trail and bridge alignment connects to 1st Ave NE along NE 148th where it crosses I-5 and lands at the northern plaza of the station.

This project is one of many that will improve the area serving the future Shoreline South/145th Station which is expected to open in 2024.

This phase of the project will provide Construction Management and Design Support services for Phase 1 construction activities.

#### **PROJECT OBJECTIVES**

The primary objectives of this work are to:

1. Provide Construction Management services
2. Provide Construction Support Services

#### **ANTICIPATED SCHEDULE**

Construction of Phase I of this project is anticipated to occur between April 2023 and August 2024.

#### **PROJECT TEAM**

The project team includes:

Owner	City of Shoreline (City)
Prime Consultant	KPFF Consulting Engineers (KPFF)
<u>Construction Management Team:</u>	
Construction Manager	KPFF
<i>Subconsultants:</i>	
Lead Inspector/Resident Engineer	WSP
On-Site Construction Observation	Red Barn Engineering; DBE, WBE
Special Inspections & Testing	HWA Geosciences; DBE, MWBE
Document Control	Tarr Whitman Group
Steel & Rebar Inspection	AAR Testing; DBE, MBE

Design Team:

Structural Engineering  
Civil Engineering

KPFF  
KPFF

Subconsultants:

Urban Design/Landscape/Electrical

KPG Psomas Inc. (KPG)

**SCOPE OF WORK****TASK 1: PRE-CONSTRUCTION SERVICES****SUBTASK 1.1 Pre-Bid and Pre-Con**

KPFF will develop an agenda, invite potential contractors, and facilitate the pre-bid meeting. 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.

Prepare and submit a PM/CM Plan for the City. Prepare a project risk register.

**TASK 2: CONSTRUCTION MANAGEMENT SERVICES**

KPFF will provide full service construction management during the construction phase, including the following tasks.

**SUBTASK 2.1 Contract Administration**

Perform project management functions including contract administration, communications with City of Shoreline, coordination of staff and subconsultants, and invoice preparation.

Provide Construction Management and point of contact for Owner and Contractor. Provide interpretation of the plans and contract provisions and verify Contractor's conformance with these documents, in conjunction with the design team.

Review and monitor the Contractor's construction plan / schedule and track contract working days with respect to contract requirements and changes.

Facilitate communications and maintain an accurate record of correspondence with City of Shoreline, Contractor, and stakeholders. KPFF will prepare and distribute correspondence to City of Shoreline, Contractor, and design team, as needed.

Develop project tracking logs specific to this contract.

**SUBTASK 2.2 Document Management**

KPFF will maintain the construction project filing system through the use of VPO (“Virtual Project Office”). This task includes maintenance of electronic log of all correspondence, submittals, and other project documentation, maintenance and management of all hard copy document files, preparation of documents for electronic archiving, to include scanning and indexing, at the close of the Project, maintaining and distributing tracking and monitoring logs, and VPO training for all project personnel.

**SUBTASK 2.3 Weekly Progress Meetings**

Prepare agenda and facilitate weekly virtual construction meetings with the Contractor. Facilitate schedule updates from Contractor, tracking against contract milestones. Prepare and distribute the meeting minutes to Owner, Contractor, and stakeholders.

**SUBTASK 2.4 Submittal Review / Recommendations**

Construction Management team will provide preliminary review of submittals or conformance with the Plans and Contract Provisions, and distribute to design team for review (Contractor shop drawings, product information and material samples).

**SUBTASK 2.5 Changed Conditions / RFI / Change Orders**

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

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.

**SUBTASK 2.6 Contractor Payment Applications**

Prepare and approve progress payment applications. Verify that Contractor is maintaining redline drawings and that they are current at the time of pay application. Make recommendation and submit required paperwork to Owner for payment to the Contractor.

**SUBTASK 2.7 Site Construction Inspection**

This task includes the utilization and maintenance of competent and sufficient inspection team personnel to provide Quality Assurance for the project.

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 the 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.

### **SUBTASK 2.8 Geotech and Materials Inspection / Testing**

KPFF will provide geotechnical testing and 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.



Special inspections and testing to include:

- Sampling and testing for Gravel Borrow, CSBC, CSTC, and Native soils; acceptance based on estimated quantities
- Inspection and testing of compacted backfill for trenches, utilities, walls, changing grades, pathway subgrade, etc.
- Pervious concrete inspection, including preconstruction meeting, observation/unit weight testing during placement and infiltration testing/coring 7 days after placement
- Geotechnical observation/inspection for drilled shafts at Pier 3. Work includes field report and shaft logs drafted at end of drilling
- Concrete inspection and testing for Pier 3 shafts, LW Fill Protection Slab, CIP Concrete Barrier, luminaire pole foundations, and pathway. Testing including: slump, air and fabrication of compressive strength specimens
- Rebar and steel inspections

### **TASK 3: PROJECT CLOSEOUT**

#### **SUBTASK 3.1 Substantial Completion / Final Inspection / Physical Completion**

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 AHJs.

#### **SUBTASK 3.2 As-Built Drawings**

Coordinate and deliver to City of Shoreline a set of the Contractor's As-Built Drawings. The Contractor will 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 City of Shoreline.

**SUBTASK 3.3 Project Closeout Documentation / Completion Date**

Complete and 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 351 working day construction contract plus preconstruction services prior to start of construction and two months of contract closeout, and administrative services throughout. Consultant assumes substantial completion to occur in July of 2024.
- Construction working days are assumed to be Monday through Friday. KPFF will provide full-time site presence during construction.
- Project meetings include (1) prebid walkthrough, (1) bid opening, (1) preconstruction conference, (70) weekly construction progress meetings, and (2) close-out walkthroughs. KPFF will facilitate all meetings including development and distribution of agendas and minutes.
- KPFF will track certified payroll submittals and performing wage interviews with laborers.
- VPO will be invoiced on a monthly basis at \$250.00/month.
  
- KPFF assumes a job trailer will be provided for our use on site (either through the Contractor or provided by the City).

## **TASK 4: DESIGN TEAM CONSTRUCTION SUPPORT SERVICES**

### **SUBTASK 4.1 Project Coordination & Invoicing**

KPFF and the Design Team will perform general coordination with the City and CM team during the construction.

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

Subconsultants will prepare monthly invoices for work completed. KPFF will compile the invoices into a single document to be submitted to the City. The overall team monthly invoices will be formatted to provide the billing per project task and include percentage completion and billings to date.

#### Assumptions:

- None

#### Deliverables:

- Monthly process reports and invoices (assume 12)

### **SUBTASK 4.2 Bid Support**

#### *Pre-Bid Meeting & Bidder Questions*

The KPFF Design Project Manager will attend the pre-bid meeting (See Subtask 1.1) to provide a summary of the project and answer any bidder questions.

KPFF and the Design Team will answer up to ten (10) official questions asked by potential bidders during the advertisement period. Responses to these questions will be sent to the City who will issue the official response.

#### *Addenda*

KPFF and the Design Team will issue up to four (4) addenda to the contract documents (e.g. plans and specifications) based upon questions and/or clarifications requested from potential bidders. Updated contract documents will be provided to the City who will issue the official addenda. Plan and specification addenda will be stamped and sealed by the engineer of record (EOR) of the original bid document. For the purposes of this scope, the following number of addenda are assumed for each Design Team member:

- Structural: four (4) sheet revisions, two (2) specification revisions

- Civil: six (6) sheet revisions, three (3) specification revisions
- Urban Design/Landscape/Electrical: six (6) sheet revisions, three (3) specification revisions

Assumptions:

- The City will collect and distribute bidder questions and the responses to/from potential bidders
- The City will collect and distribute addenda to/from potential bidders

Deliverables:

- Responses to bidder questions (email)
- Addenda to the Plans and Specifications (PDF)

**SUBTASK 4.3 Submittal Review**

KPFF and the Design Team will review and respond to submittals received during construction. Below is a list of anticipated submittals that will be reviewed by Design Team member:

- 1) Structural
  - a) Noise Wall Plan, Type 2E, 2-02.3(2)A3
  - b) Concrete Mix Designs, 6-02.3(2)A
    - i) Shaft Concrete, Class 5000P
    - ii) Pier Wall Concrete, LW Fill Protection Slab Concrete, Class 4000
  - c) Reinforcing Shop Drawings (Pier Wall, LW Fill Protection Slab, Translucent Barrier Footing, Chain Link Fence Footing), Special Provisions 6-02.3(24)
  - d) Precast Concrete Fascia Panel Shop Drawings, 6-02.3(9)A
  - e) Fall Protection Railing Shop Drawings, Type 2, 6-06.3(2)
  - f) Bridge Railing Type Throw Barrier Anchor Assembly Shop Drawing, Type 2, 6-06.3(2)
  - g) Pedestrian Railing Shop Drawing Submittal, Type 2, 6-22.3
  - h) Wall Plans (Wall 2, Wall 3, Wall 4), Type 2E, 6-14.3(2)

- i) Column Silo, Silo Cover, and Footing Shop Plans, 6-50
- j) Shaft Construction Submittal, Type 1 and 2, 6-19.3(2)
- k) Shaft Steel Reinforcing and Assembly Shop Drawing, 6-19.3(5)
- l) Shaft Completed Uniform Yield Form for Each Shaft (2 each), 6-19.3(7)H
- m) Shaft Nondestructive Quality Assurance (QA) Tests (2 each), Type 2E, 6-19.3(9)D
- n) Request for Approval of Material (RAM)
  - i) Bearing Anchor Bolts, S161
  - ii) Bridge Railing Type Throw Barrier Anchor Plate and Bolts, S509
  - iii) Anti-Graffiti Coating for Concrete Surfaces, Special Provisions 6-02.2
  - iv) Concrete Pigmented Sealer, 9-08.3(1)
  - v) Perforated Sheet Metal and Concrete Screws, S614
  - vi) Noise Wall Grout, S631, 9-20.3
  - vii) Noise Wall Nuts and Washers, S631/632, 9-06.5(1)
  - viii) Fall Protection Railing Epoxy Resin, S641, 9-26
  - ix) Bike Runnel Epoxy Resin, S701, 9-26
  - x) Bike Runnel Resin Bonded Anchor, S701, Special Provisions 6-02.2
  - xi) Column Silo Bolts, S702/800
  - xii) Column Silo Resin Bonded Anchor, S800, Special Provisions 6-02.2
  - xiii) Expanded Polystyrene, 9-04.6
- o) Miscellaneous/Unanticipated Submittals, 4 each
- 2) Civil
  - a) Storm Drainage
  - b) TESC
  - c) Traffic Control
  - d) Geofoam

- e) Split Casing (2)
  - f) HMA
  - g) Concrete sidewalk
  - h) Aggregate Base Course
  - i) Trenching and backfill
  - j) Underdrain
- 3) Urban Design
- a) Retaining wall decorative form liner & pigmented sealer color
  - b) Stair handrail, pedestrian railing & stair pedestrian railing: paint sample, shop drawings
  - c) Bike runnel
  - d) Wayfinding signage
  - e) Accent bollard lighting: product and paint sample
  - f) Temporary vertical elements: temporary chain link fence & gate, temporary translucent barrier
  - g) Flatwork: decorative cement concrete node treatment, engraving treatment and accent band treatment
- 4) Landscape
- a) Irrigation parts & materials
  - b) Landscape materials, including topsoil, mulch, seed, metal edging, river rock and boulders
  - c) Plant material

Electrical/Lighting material submittals will include electrical service cabinet, light poles and luminaires, accent bollard lighting, junction boxes, conduit, wiring, fusing, splicing kits, pedestrian rail lighting and associated components.

Assumptions:

- The CM team will collect and distribute submittals and responses to/from the Contractor

Deliverables:

- Review and response of submittals (PDF)

**SUBTASK 4.4 Requests for Information (RFI) Review & Response**

KPFF and the Design Team will review and respond to RFIs received during construction. For the purposes of this scope, the following number of RFIs are assumed for each Design Team member:

- Structural: 15
- Civil: 15
- Urban Design: 15
- Landscape/Irrigation: 4
- Electrical: 15

Assumptions:

- The CM team will collect and distribute RFIs and responses to/from the Contractor

Deliverables:

- Review and response of RFIs (PDF)

**SUBTASK 4.5 Meetings, Site Visits & Punchlist Walkthrough**

KPFF and the Design Team will attend meetings, perform site visits (as needed), participate in a punchlist walkthrough and provide punchlist items during the construction phase of the project. Below is a total number of assumed meetings, site visits and punchlist walkthroughs:

*Meetings:*

- KPFF Design PM – 6
- Structural Lead – 6
- Civil Lead – 6
- Urban Design/Landscape/Irrigation Lead – 4
- Electrical/Lighting Lead – 3

*Site Visits:*

- KPFF Design PM – 6
- Structural Lead – 3
- Civil Lead – 3
- Urban Design Lead – 5
- Landscape/Irrigation Lead – 5
- Electrical/Lighting Lead – 3

*Punchlist Walkthrough:*

- KPFF Design PM – 1
- Structural Lead – 1
- Civil Lead – 1
- Urban Design/Landscape Lead – 1
- Electrical/Lighting Lead – 1

Assumptions:

- The CM team will coordinate and schedule meetings with the Design Team and the Contractor
- Meetings are assumed to last one (1) hour and will occur via tele/videoconference



- Site visits will occur on an as-needed basis and will be coordinated by the CM team

Deliverables:

- Attendance to meetings, site visits and punchlist walkthrough
- Punchlist items (PDF)

**SUBTASK 4.6 Record Drawings**

As-built red-lines will be provided to KPFF and the Design Team from the CM Team and the Contractor (See Subtask 3.2). These red-lines will be used by KPFF and the Design Team to create Record Drawings. The Record Drawings will be prepared in accordance with the City's requirements and will not contain the stamp and seal of the engineer.

Assumptions:

- The CM team will compile a complete red-line set of the Contractor's as-built drawings to distribute to the Design Team
- The Record Drawings will be subject to one round of review by the City prior to begin finalized

Deliverables:

- Draft Record Drawings (PDF)
- Final Record Drawings (PDF)