

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

| | |
|----------------------|--|
| AGENDA TITLE: | Authorize the City Manager to Execute Contract 10565 with David Evans & Associates, Inc. in the Amount of \$271,825 for Engineering Design Services for the N 175th Street Sanitary Sewer Replacement Project. |
| DEPARTMENT: | Public Works |
| PRESENTED BY: | Samuel Supowit, Wastewater Systems Engineer |
| ACTION: | <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:

The City's 175th Street Corridor Improvements Project (175th Corridor Project) will widen the roadway and construct pedestrian and cyclist improvements from Stone Avenue N to I-5, and improve the intersection at N 175th Street and Meridian Avenue N. The 175th Corridor Project is currently at the 60% design stage, with the first phase of construction expected to start by 2025.

Recent sanitary sewer modeling results revealed a need to improve capacity of the sewer system within the 175th Corridor Project area. Staff determined the best approach to design the new sewer infrastructure along the Corridor is to initiate a new consulting contract and conducted an administrative selection for David Evans & Associates, Inc., (DEA) to provide design services.

RESOURCE/FINANCIAL IMPACT:

The N 175th Street Sanitary Sewer Replacement Project is fully funded by Wastewater funds under the Wastewater Capital Improvement Program (CIP), including this proposed consulting contract amount of \$271,825 and subsequent construction effort estimated to cost between \$1.5 million and \$2 million.

RECOMMENDATION

Staff recommends that the City Council authorize the City Manager to execute a contract with David Evans & Associates Inc. in the amount of \$271,825 for engineering design services for the City of Shoreline N 175th Street Sanitary Sewer Replacement.

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

BACKGROUND

DEA, the City's on-call wastewater engineering consultant, updates the sewer system hydraulic model when the City receives permit requests from developers. The model is used to predict the impact of developments to the system, which is then used to prioritize pipeline replacement projects. Portions of the N 175th St sewer main pipes in N 175th corridor already flow full during the winter, and others are anticipated to be overcapacity between 2022 and 2024 as a result of development. The N 175th St sewer main between I-5 and Meridian is anticipated to receive new flow from several apartment complexes in development along N 185th Street. The addition of hundreds of new housing units upstream will put a strain on the collection system along 175th, necessitating replacement/upsizing of pipelines.

The 175th Corridor project is at 60% design status. It is currently anticipated that construction on the road may not begin until 2025, after the time that the hydraulic model indicates sewer pipes in this area may be overcapacity. To prevent digging up the new road after it is constructed, the 175th sewer main should either be improved during or prior to construction of the 175th Corridor project.

DISCUSSION

DEA has been the long time District Engineer for Ronald Wastewater District. While the assumption has been completed, DEA still provides critical support to the City on hydraulic modeling, capital project design and other activities. Based on DEAs history, knowledge, and the project schedule, staff has administratively selected DEA to perform the design of this project.

The contract with DEA is being presented to Council tonight for review and approval. Contract work will begin in early 2023 and the 100% design deliverable is expected within approximately 12 months of contract execution. Scope of Work and contract fees are provided under Attachment A. The contract will have four phases: survey, preliminary design, final design, and bidding support.

The alternative is to not award this contract which would lead to two options:

1. Do not proceed with the design and do not make the improvements to the sewer line, which may result in the line being over capacity in the next 2-5 years.
2. Issue a formal Request for Qualifications (RFQ) and potentially select a different consultant to perform the design. This process would take several months and would delay the start of the design which could jeopardize the completion of the work prior to the N 175th St corridor project.

By awarding this contract, the project will be coordinated with the design of the 175th Corridor project.

COUNCIL GOAL(S) ADDRESSED

This item implements City Council Goal No 2, and is directly related to Action Step12:

Goal 2. Continue to deliver highly-valued public services through management of the City's infrastructure and stewardship of the natural environment.

Action Step 12. Complete 90% design of the N 175th Street Corridor Project from Interstate-5 to Stone Avenue N

RESOURCE/FINANCIAL IMPACT

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ATTACHMENTS

Attachment A: Scope of Work



**DAVID EVANS
AND ASSOCIATES INC.**

November 23, 2022

Ms. Tricia Juhnke
The City of Shoreline
Interim Public Works Director
17500 Midvale Ave N
Shoreline, Washington 98133
tjuhnke@shorelinewa.gov (via email only)

*RE: City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering Design Services - Scope of Work **DRAFT***

Dear Ms. Juhnke,

We are grateful for the opportunity to continue our relationship with The City of Shoreline (City) and appreciate your interest in David Evans and Associates, Inc. (DEA) providing Consultant Civil Engineering Design Services for delivery of the City's N 175th Street Sanitary Sewer Replacement project (Project).

We are pleased to present the following scope of work for your review.

UNDERSTANDING

The City is the owner and operator of the sanitary sewer system generally within the City right-of-way. Also, the City is presently in the design stages of a capital improvement project to improve the roadway along the N 175th Street corridor generally between Aurora Avenue and Interstate 5; the 175th Street Corridor Project (Corridor).

There are City sanitary sewer facilities located within the boundaries of the impending Corridor project. The associated sewer works facilities (Facilities) are located generally within the project boundaries within the N 175th Street and Meridian Ave N rights-of-way. Some of these Facilities have been identified by the City's Sanitary Sewer Operations and Maintenance (O&M) department as needing replacement due to pipe condition concerns (pipe sags, slipped and/or broken joints, and other pipe condition concerns). Some of the Facilities have also been identified as candidates for replacement due to future capacity concerns as a result of the City's latest hydraulic sewer model iteration, which has been updated since the City's 2021 Comprehensive Sewer Plan (refer to our Hydraulic Sewer Model 2022 Update package of technical memorandums for information on the updates made to the sewer model). Because the Facilities have been identified as having both O&M and future capacity concerns, coupled with the upcoming roadway Corridor project, the City has chosen to replace the Facilities. The Project can be prepared to be released in conjunction with the Corridor project or as a standalone sanitary sewer project.

The key drivers for the Project are the need to address O&M and future capacity concerns of the Facilities and the construction of the Corridor project. It has been reported to us during meetings regarding the Corridor project that the City sees value in performing any upgrades required in the near-future to the Facilities to be performed in conjunction with the Corridor Project to reduce risk

City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering Design Services - Scope of Work

of future disturbance to the improvements installed with the Corridor project. However, it was reported that the City would like the flexibility to release the Project as a standalone sanitary sewer project.

Preliminary discussions indicate the Project will replace, and may relocate, the following segments of sanitary sewer main that range from 8" to 24" in size:

| | | |
|----------------|----------------|----------------|
| G4055 to G4056 | G4051 to G4052 | F4100 to F4114 |
| G4056 to G4049 | G4052 to G3002 | F4113 to F4114 |
| G4049 to G4050 | G4045 to G4046 | F4099 to F4100 |
| G3001 to G4049 | G4046 to F4100 | F4098 to F4099 |
| G4048 to G4050 | G3002 to G3003 | F4097 to F4098 |
| G4050 to G4051 | F4114 to G4052 | F4088 to F4098 |

These segments are located in N 175th Street generally between I-5 and Meridian Ave N, in Meridian Ave N adjacent to Ronald Bog Park and in Meridian Ave N between N 175th Street and N 177th Street, with larger diameter pipe and upgraded structures and appurtenances.

It is not yet known if the Project will be administered as a standalone project or if the Project will be incorporated into the first phase of the Corridor project. This Scope and Fee Estimate is presented in a fashion that allows the Project to be bid as a standalone sanitary sewer project or incorporated into the aforementioned roadway project.

The overall Project Team (Team) and anticipated roles are as follows:

- City Project Manager: Leif Johansen, P.E., or Laura Reiter, P.E., or Sam Supowit, Ph.D., P.E., The City of Shoreline
- Consultant Project Manager: Scott Christensen, P.E., DEA
- Consultant Project Lead: Tucker Collins, P.E., DEA
- Consultant Quality Control: Rodney Langer, P.E., DEA

As the Consultant, DEA will provide civil engineering design of site demolition, temporary erosion and sediment control (TESC), and sanitary sewer system replacement. DEA will also perform/provide technical specification preparation, cost estimate preparation, and bid administration support. Milestones: 30% drawing set and AACE Class 3 cost estimate; 60% drawing set, technical specifications, and AACE Class 2 cost estimate; 90% drawing set, technical specifications, and AACE Class 1 cost estimate; and 100% construction plans, technical specifications, and final engineer's estimate.

The anticipated scope of work for DEA to provide Consultant Civil Engineering Design Services is summarized directly below and outlined in detail in the following section:

1. Project Management and Administration
2. Data Acquisition and Review
3. Permitting Support
4. Preliminary Design
5. Design
6. Bidding support
7. Management reserve

SCOPE OF WORK – Consultant Civil Engineering Design Services

The following summarizes the scope of work that DEA anticipates under our role of Consultant.

Please note that this proposal is based on design of replacement of the pipe segments listed above and that additional segments of sewer main to be replaced will be cause for an amendment to the scope and budget for this task.

Given the ongoing Covid-19 related restrictions and DEA's goal of efficient resource use, some meetings will be videoconference / teleconference and all deliverables (memo, letters, reports, RFP, etc.) will be provided electronically through email and cloud repository exchange.

TASK 1. PROJECT MANAGEMENT AND ADMINISTRATION

DEA will perform project management, invoicing and schedule updates, coordination, and closeout tasks related to the execution of this scope of work.

1.1. Planning and Milestone Development

Work for this task includes time for project planning and milestone development, schedule development and related earned value management which commenced in late July of 2022 and completes on the date of this Scope.

1.2. Kickoff meeting

Work for this task includes time for one kickoff meeting attended by the DEA project team as listed above. This task covers cost of labor hours associated with organizing and attending the kickoff meeting in person at the Shoreline City Hall and via video teleconference (Zoom or Teams).

1.3. Invoicing and schedule updates

Work for this task includes managing project scope, schedule, and budget, and providing monthly invoices and status reports, and periodic schedule updates.

1.4. DEA team coordination and management

Work for this task includes internal DEA design meetings and other coordination and management related to design.

1.5. Project Coordination – City of Shoreline

Work for this task includes design meetings and other coordination including correspondence via in-person, email, telephone and internet-based meetings related to design with the City of Shoreline. Work for this task also includes one (1) site visit attended by DEA personnel.

1.6. Project coordination – Roadway Designer (allowance, as needed)

Work for this task includes design meetings and other coordination including correspondence via in-person, email, telephone and internet-based meetings related to design with the City of Shoreline's Corridor project design team regarding information related to sewer location (relocation) and interference between sewer and Corridor project improvements. Work for this task also includes one (1) site visit attended by DEA personnel.

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

1.7. Subconsultant coordination

Work for this task includes coordination with the subconsultants for location of existing utilities for data acquisition and design basemap preparation. Work includes subcontracting negotiations and related coordination and scheduling utility locate work.

1.8. Closeout

Work for this task includes internal project closeout procedures for final billing and invoicing and final records review, completion checks and filing.

Assumptions:

- Duration to complete scope is approximately fourteen and a half (14.5) months (from contract execution to contract end date).
- Site visits will be attended by members of the DEA project team listed above and recruited from within DEA during the Project.
- Site visits will be four (4) hours each with an additional two (2) hours for preparation and debrief of site visits

Deliverables:

Monthly project invoices and progress updates for the duration of the scope.

TASK 2. DATA ACQUISITION AND REVIEW

DEA will perform tasks related to data acquisition, review, and incorporation of acquired data into project design. This task includes site visits, topographic survey, preparation of utility locate maps and potholing plans, requesting existing utility information from utility providers within the project area and reviewing and incorporating the acquired data into the project design.

2.1. Site Visits

Work for this task includes two (2) site visits for existing site investigation from the design team.

2.2. Topographic Survey

Work for this task includes preparation of a Topographic Survey to support design of the Project. The coordinate basis for the survey will be NAD 83/91 Washington North and elevations will be based on Vertical Datum NAVD 88. DEA will obtain location of the following improvements with elevations:

- Existing structures and finish floor elevations.
- Edge of asphalt, gravel, and other surface improvements.
- Any fences or retaining walls.
- Catch basins, culverts, wells, sewer/septic manholes, fire hydrants, valve boxes, power poles, and other utilities which are observable from surface exploration that effect the Project.
- Trees 12" or greater in diameter.
- Survey markers.

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

2.3. Utility Locate Maps and Potholing Plans

Work for this task includes preparation of maps to be utilized for utility locate request; these maps will be showing project area and boundaries of the area for utilities to be located. We do not anticipate potholing for existing utilities to be performed as a part of design.

2.4. Utility Data Requests

Work for this task includes coordination and requests to COSH and other third-party utilities with facilities in the project area for existing utility information. Work for this task also includes that needed to generate utility and base maps.

2.5. Utility Locates

Work for this task includes coordination and execution of utility locates in the project area for design purposes. It is anticipated that a third-party utility locate service will be subcontracted through DEA.

2.6. Data Review

Work for this task includes engineer review of information acquired from tasks 2.1 to 2.5. for compilation into a Project design basemap including existing utilities and existing surface improvements.

Assumptions:

- Topographic survey will be limited to the area needed for design of this Project and includes the full width of right of way at the location of the sewer segments listed in the Understanding section above. Distance from centerline of right of way to edge of right of way is 30' to 40' for the majority of the alignment and survey will extend 50' maximum from right of way centerline.
- City to provide coordination and assistance regarding site access and access to facilities.
- Exclusion of resolution of physical encroachments/occupation that may be disclosed by field survey.
- Exclusion of discovery of easements or other matters materially affecting the property which are not disclosed by the title report.
- Utility locate service for all franchise facilities will be provided by DEA or their subcontractor prior to DEA survey.
- A published and acceptable benchmark exists within 1/2 mile of the project, and within 250 total vertical feet.
- Site visits will be attended by members of the DEA project team listed above and recruited from within DEA during the Project.
- Site visits will be four (4) hours each with an additional two (2) hours for preparation and debrief of site visits

Deliverables:

- None. Information retrieved from the work in this task to be included in other deliverables.

TASK 3. PERMITTING SUPPORT

DEA will perform tasks to support the City's permitting efforts related to the project.

3.1. Environmental Permitting Support

Work for this task includes preparation of a technical memorandum requesting categorical exemption from other environmental permitting requirements. This task may also include the following, as directed:

- Preparation of a SEPA checklist for transmittal to the City for their use and preparation of a Determination of Non-significance.
- Preparation of Construction Stormwater General Permit (CSWGP) application form and supporting documents for transmittal to the City for their use and submittal to Washington Department of Ecology.

Deliverables:

- Populated SEPA Checklist (as needed)
- Populated CSWGP application (as needed)
- Technical memorandum requesting categorical exemption from other environmental permitting requirements

Assumptions:

- The Project will be exempt from all environmental permitting requirements on the grounds of the project type being defined as existing utility maintenance other than the SEPA process and the CSWGP.

TASK 4. PRELIMINARY DESIGN

DEA will complete the preliminary civil engineering plans and supporting technical information for the cover sheet, supporting information sheet and plan and profile sheet for City review. The general notes and accompanying legend, abbreviations, pipe schedule, vicinity maps, etc. will be presented in support of the rest of the preliminary civil engineering design. DEA will also prepare a preliminary construction cost estimate based on the preliminary civil engineering plans.

4.1. Basemap Preparation

Work for this task includes compiling the collected existing utility base maps, correlating with the surveyed utilities and preparing a utility base map. Work for this task also includes incorporating the utility basemap into the topographic survey of existing improvement to create the Project's design basemap.

4.2. Preliminary 30% Design

Work for this task includes preparation of the 30% design drawings to include a cover sheet, sheet index, general notes, legend, abbreviations, pipe schedule, vicinity map, existing site map, demolition plan, and plan and profile sheets for submittal to the City. Work for this task also includes preparation of a 30% OPCC/AACE Class 3 cost estimate for submittal to the City.

Deliverables:

- 30% Design Plans
- 30% OPCC/AACE Class 3 Cost Estimate

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

Assumptions:

- AutoCAD Civil 3D version 2019 will be used to generate the base map.
- The City will not review the base map prior to the preliminary design deliverable.
- The work for this task includes the DEA internal project quality management plan, quality control practices, and implementation of quality reviews of project deliverables prior to submittal to the City, as needed.
- 30% design drawings will exclude details.
- 30% design submittal will exclude specifications.

TASK 5. DESIGN

DEA will complete the civil engineering plans, engineer's construction cost estimate and technical specification for City use and issue for public bid. The sheets will include a cover sheet, supporting technical information sheet, existing conditions sheet, demolition plan sheet, temporary erosion and sediment control plans and details sheets, sanitary sewer plan and profile sheets and sanitary sewer details sheets. DEA will also prepare an engineer's construction cost estimate based on the civil engineering plans. DEA will also prepare a specification to include special provisions and technical specifications.

5.1. 60% Design

Work for this task includes preparation of the 60% design drawings to include a cover sheet, sheet index, general notes, legend, abbreviations, pipe schedule, vicinity map, existing site map, demolition plan, temporary erosion and sediment control plan and details sheet, and sanitary sewer plan and profile sheets and sanitary sewer details sheets for submittal to the City. The general notes and accompanying legend, abbreviations, pipe schedule, vicinity maps, etc. will be presented in support of the rest of the civil engineering design. The demolition plans and details will present an overview of the existing infrastructure to be removed or abandoned. The TESC plan will present temporary stormwater management measurements to be employed during construction, and will include details, notes, sequencing, and site-specific items. The sanitary sewer plans, profiles and details will present the design of the sewer main replacement and associated structures and appurtenance improvements. Work for this task also includes preparation of a 60% OPCC/AACE Class 2 cost estimate for submittal to the City. Work for this task also includes preparation of 60% specifications to include special provisions and technical specifications in WSDOT format for submittal to the City.

5.2. 90% Design

Work for this task includes preparation of the 90% design drawings to include a cover sheet, sheet index, general notes, legend, abbreviations, pipe schedule, vicinity map, existing site map, demolition plan, temporary erosion and sediment control plan and details sheet, and sanitary sewer plan and profile sheets and sanitary sewer details sheets for submittal to the City. The general notes and accompanying legend, abbreviations, pipe schedule, vicinity maps, etc. will be presented in support of the rest of the civil engineering design. The demolition plans and details will present an overview of the existing infrastructure to be removed or abandoned. The TESC plan will present temporary stormwater management measurements to be employed during construction, and will include details, notes, sequencing, and site-specific items. The

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

sanitary sewer plans, profiles and details will present the design of the sewer main replacement and associated structures and appurtenance improvements. Work for this task also includes preparation of a 90% OPCC/AACE Class 1 cost estimate for submittal to the City. Work for this task also includes preparation of 90% specifications to include special provisions and technical specifications in WSDOT format for submittal to the City.

5.3. 99% Check Set

Work for this task includes preparation of the 99% design drawings to include a cover sheet, sheet index, general notes, legend, abbreviations, pipe schedule, vicinity map, existing site map, demolition plan, temporary erosion and sediment control plan and details sheet, and sanitary sewer plan and profile sheets and sanitary sewer details sheets for submittal to the City. The general notes and accompanying legend, abbreviations, pipe schedule, vicinity maps, etc. will be presented in support of the rest of the civil engineering design. The demolition plans and details will present an overview of the existing infrastructure to be removed or abandoned. The TESC plan will present temporary stormwater management measurements to be employed during construction, and will include details, notes, sequencing, and site-specific items. The sanitary sewer plans, profiles and details will present the design of the sewer main replacement and associated structures and appurtenance improvements. Work for this task also includes preparation of 99% specifications to include special provisions and technical specifications in WSDOT format for submittal to the City.

5.4. 100% Design Bid Package

Work for this task includes preparation of the 100% design drawings to include a cover sheet, sheet index, general notes, legend, abbreviations, pipe schedule, vicinity map, existing site map, demolition plan, temporary erosion and sediment control plan and details sheet, and sanitary sewer plan and profile sheets and sanitary sewer details sheets for submittal to the City for bidding. The general notes and accompanying legend, abbreviations, pipe schedule, vicinity maps, etc. will be presented in support of the rest of the civil engineering design. The demolition plans and details will present an overview of the existing infrastructure to be removed or abandoned. The TESC plan will present temporary stormwater management measurements to be employed during construction, and will include details, notes, sequencing, and site-specific items. The sanitary sewer plans, profiles and details will present the design of the sewer main replacement and associated structures and appurtenance improvements. Work for this task also includes preparation of a 100% Engineer's cost estimate for submittal to the City for bidding. Work for this task also includes preparation of 100% specifications to include special provisions and technical specifications in WSDOT format for submittal to the City for bidding.

Deliverables:

- 60% Design Plans
- 60% Specifications
- 60% OPCC/AACE Class 2 Cost Estimate
- 90% Design Plans
- 90% Specifications
- 90% OPCC/AACE Class 1 Cost Estimate
- 99% Check Set
- 100% Bid Package

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

Assumptions:

- AutoCAD Civil 3D version 2019 will be used to generate the design drawings.
- Sheet counts are provided in separate spreadsheet attached hereto.
- City review time of deliverables is anticipated to be four weeks or less per review cycle.
- The work for this task includes the DEA internal project quality management plan, quality control practices, and implementation of quality reviews of project deliverables prior to submittal to the City, as needed.
- The City will provide a geotechnical report that analyzes soils beneath the proposed sewer facilities, specifically addresses sewer facility construction and gives constraints for dewatering, shoring, foundation materials and backfill materials, at a minimum.
- Specifications will be WSDOT standard specifications with special provisions customized to the project.

TASK 6. BIDDING SUPPORT

DEA will provide the City with bidding administration support including addenda preparation, request for information review and response preparation, request for substitution review and response, pre-bid meeting coordination and attendance and bid opening support.

6.1. Addenda preparation

Work for this task includes preparing and submitting to the City for issuance bid package addenda prior to bid opening.

6.2. RFI and RFS review and response preparation

Work for this task includes review RFIs and RFSs submitted by potential project bidders and preparing and submitting to the City for issuance RFI and RFS responses prior to bid opening.

6.3. Pre-Bid Meeting

Work for this task includes coordinating and attending an on-site pre-bid meeting with the DEA's project team, the City's project team (including Corridor project team), and potential bidders.

6.4. Bid Opening

Work for this task includes attending the bid opening at City Hall, reviewing all bids for accuracy and preparing and distributing the certified tabulation of bids received.

Deliverables:

- Addenda
- RFI and RFS responses
- Certified Tabulation of Bids Received

Assumptions:

- A maximum of three (3) addenda
- A maximum of three (3) RFIs
- A maximum of three (3) RFSs
- The pre-bid meeting will be attended by all DEA project personnel listed above.
- The pre-bid meeting will be four (4) hours with an additional two (2) hours for preparation and debrief of meeting
- The bid opening will be attended by all DEA project personnel listed above.

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

- The bid opening will be four (4) hours with an additional two (2) hours for preparation and debrief of meeting.

TASK 7. MANAGEMENT RESERVE

DEA will hold ten percent (10%) of the estimated fee estimate total in reserve for unforeseen costs and contingencies. These funds shall only be utilized with written authorization by the City Project Manager.

SCHEDULE

The estimated schedule, including City review time, is outlined below:

| | |
|----------------------------|---|
| January 10, 2022 | Assumed date of City of Shoreline notice to proceed |
| January 17, 2022 | Kickoff meeting |
| May 1, 2023 | 30% Plans |
| August 1, 2023 | 60% Plans, Special Provisions, and Cost Estimate |
| October 13, 2023 | 90% Plans, Special Provisions, and Cost Estimate |
| January 5, 2024 | 100% Bid Package |
| February 1– March 15, 2024 | Bidding Support |

BUDGET

For the scope of work outlined above, DEA proposes the following not to exceed fee of:

| | | BUDGET |
|----------------|--|---------------------|
| TASK 1. | PROJECT MANAGEMENT AND ADMINISTRATION | \$35,940.00 |
| TASK 2. | DATA ACQUISITION AND REVIEW | \$35,580.00 |
| TASK 3. | PERMITTING SUPPORT | \$6,740.00 |
| TASK 4. | PRELIMINARY DESIGN | \$25,715.00 |
| TASK 5. | DESIGN | \$130,255.00 |
| TASK 6. | BIDDING SUPPORT | \$11,520.00 |
| TASK 7. | MANAGEMENT RESERVE | \$24,575.00 |
| | | Expenses |
| | | \$1,500 |
| | | TOTAL |
| | | \$271,825.00 |

(Expenses include costs for mileage including but not limited to survey, site visits, and meetings and include cost for reproduction of materials including but not limited to plans, specifications and figures.)

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

PROJECT SHEET LIST

| Section | Number | Name | 30% deliverable | 60%/90%/100% deliverables |
|---------|--------|--|-----------------|---------------------------|
| G | 001 | Cover, Sheet Index | x | x |
| G | 002 | Symbols, legend, abbreviations | x | x |
| G | 003 | General notes | | x |
| V | 101 | Existing Site Conditions | x | x |
| V | 102 | Existing Site Conditions | x | x |
| C | 001 | Demo Plan | x | x |
| C | 002 | TESC plans | | x |
| C | 101 | Sanitary Sewer plan and profile F4088-F4098, F4098-F4099 | x | x |
| C | 102 | Sanitary Sewer plan and profile F4097-F4098 | x | x |
| C | 103 | Sanitary Sewer plan and profile F4099-F4100, F4100-F4114 | x | x |
| C | 104 | Sanitary Sewer plan and profile F4045-F4046, F4046-F4100 | x | x |
| C | 105 | Sanitary Sewer plan and profile F4113-F4114 | x | x |
| C | 106 | Sanitary Sewer plan and profile F4114-G4052, G4052-G4051 | x | x |
| C | 107 | Sanitary Sewer plan and profile G4051-G4050, G4050-G4048, G4050-G3001 | x | x |
| C | 108 | Sanitary Sewer plan and profile G4050-G4056 | x | x |
| C | 109 | Sanitary Sewer plan and profile G4056-G4055 | x | x |
| C | 110 | Sanitary Sewer plan and profile G4052-G3002 | x | x |
| C | 111 | Sanitary Sewer plan and profile G3002-G3003 | x | x |
| C | 501 | TESC notes and details | | x |
| C | 502 | Civil details | | x |
| C | 503 | Civil details | | x |
| C | 504 | Civil details | | x |
| C | 505 | Civil details | | x |
| C | 506 | Civil details | | x |

*City of Shoreline N 175th Street Sanitary Sewer Replacement - Consultant Civil Engineering
Design Services - Scope of Work*

Thank you again for this opportunity to work with you as the Consultant on the delivery of the City's Project. We truly appreciate your consideration, and we look forward to continuing our relationship with you and the City of Shoreline.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Tucker Collins, P.E.
Civil Engineer III

Scott Christensen, P.E.
Project Manager

Encl: Consultant Civil Engineering Design Services Fee Estimate (1 page)



DAVID EVANS
AND ASSOCIATES INC.

| | |
|---|--|
| Project Fee Estimate | |
| The City of Shoreline N 175th Street Corridor Sanitary Sewer Replacement | |
| David Evans and Associates, Inc. Estimated Labor Consultant Civil Engineering Design Services | |

| | |
|--------------|-------------|
| Project Ref: | NA |
| Date: | 11/23/2022 |
| Prepared By | THCO / SXCH |

| Task/Subtask (1) | | | Estimate of Effort | | | | | | | | | | | Labor | | |
|------------------|---------------------------------------|--|------------------------------------|------------------|-----------------|--------------------|------------------|----------------|----------------------|----------------------|---------------------|------------------|------------------|-------------|----------------|---------------|
| | | | Personnel Positions and Est. Hours | | | | | | | | | | | Total Hours | Total Est. Fee | |
| | | | Project Manager | Project Engineer | Design Engineer | CAD/GIS Technician | Admin. Assistant | Survey Manager | Public Land Surveyor | Survey Technician II | Survey Technician I | Two Person Field | Admin. Assistant | | | Subcontractor |
| | | | \$ 240.00 | \$ 170.00 | \$ 140.00 | \$ 135.00 | \$ 100.00 | \$ 210.00 | \$ 180.00 | \$ 110.00 | \$ 100.00 | \$ 220.00 | \$ 100.00 | \$ 135.00 | | |
| 1 | Project Management and Administration | | 84 | 74 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 190 | \$35,940.00 |
| | 1.1 | Planning & Milestones | 8 | 12 | | | 4 | | | | | | | | 24 | \$4,360.00 |
| | 1.2 | Kickoff meeting | 6 | 6 | | | | | | | | | | | 12 | \$2,460.00 |
| | 1.3 | Invoicing & schedule updates | 24 | 4 | | | 24 | | | | | | | | 52 | \$8,840.00 |
| | 1.4 | DEA Team coordination and management | 12 | 12 | | | 4 | | | | | | | | 28 | \$5,320.00 |
| | 1.5 | Project Coordination - City of Shoreline | 12 | 12 | | | | | | | | | | | 24 | \$4,920.00 |
| | 1.6 | Project Coordination - Roadway Designer | 12 | 12 | | | | | | | | | | | 24 | \$4,920.00 |
| | 1.7 | Subconsultant coordination | 2 | 2 | | | | | | | | | | | 4 | \$820.00 |
| | 1.8 | Closeout | 8 | 14 | | | | | | | | | | | 22 | \$4,300.00 |
| 2 | Data Acquisition and Review | | 20 | 56 | 0 | 8 | 0 | 4 | 16 | 0 | 30 | 48 | 2 | 20 | 204 | \$35,580.00 |
| | 2.1 | Site visits | 12 | 12 | | | | | | | | | | | 24 | \$4,920.00 |
| | 2.2 | Topographic survey | | | | | | 4 | 16 | | 30 | 48 | 2 | | 100 | \$17,480.00 |
| | 2.3 | Utility locate maps and potholing plans | 4 | 16 | | 4 | | | | | | | | | 24 | \$4,220.00 |
| | 2.4 | Utility data requests | | 12 | | | | | | | | | | | 12 | \$2,040.00 |
| | 2.5 | Utility locates (APS) | | | | | | | | | | | | 20 | 20 | \$2,700.00 |
| | 2.6 | Data review | 4 | 16 | | 4 | | | | | | | | | 24 | \$4,220.00 |
| 3 | Permitting Support | | 8 | 22 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | \$6,740.00 |
| | 3.1 | Environmental permitting support | 8 | 22 | | 8 | | | | 0 | 0 | | | | 38 | \$6,740.00 |
| 4 | Preliminary Design | | 28 | 76 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | \$25,715.00 |
| | 4.1 | Base map preparation | 4 | 14 | | 9 | | | | 0 | 0 | | | | 27 | \$4,555.00 |
| | 4.2 | 30% design | 24 | 62 | | 36 | | | | | | | | | 122 | \$21,160.00 |
| 5 | Design | | 132 | 371 | 0 | 263 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 766 | \$130,255.00 |
| | 5.1 | 60% design | 48 | 132 | | 88 | | | | | | | | | 268 | \$45,840.00 |
| | 5.2 | 90% design | 48 | 132 | | 88 | | | | | | | | | 268 | \$45,840.00 |
| | 5.3 | 99% check set plans | 24 | 71 | | 60 | | | | | | | | | 155 | \$25,930.00 |
| | 5.4 | 100% bid package | 12 | 36 | | 27 | | | | | | | | | 75 | \$12,645.00 |
| 6 | Bidding Support | | 18 | 36 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | \$11,520.00 |
| | 6.1 | Addenda | 2 | 12 | | 4 | | | | | | | | | 18 | \$3,060.00 |
| | 6.2 | RFIs and RFQs | 4 | 12 | | 4 | | | | | | | | | 20 | \$3,540.00 |
| | 6.3 | Pre-bid meeting | 6 | 6 | | | | | | | | | | | 12 | \$2,460.00 |
| | 6.4 | Bid opening | 6 | 6 | | | | | | | | | | | 12 | \$2,460.00 |
| 7 | Management Reserve | | 29 | 64 | 0 | 33.2 | 4 | 1 | 2 | 0 | 3 | 5 | 1 | 2 | 140.9 | \$24,575.00 |
| | 7.1 | Management reserve (10%) | 29 | 63.5 | 0 | 33.2 | 3.2 | 0.4 | 1.6 | 0 | 3 | 4.8 | 0.2 | 2 | 140.9 | \$24,575.00 |
| Total | | | 319 | 699 | 0 | 365.2 | 36 | 5 | 18 | 0 | 33 | 53 | 3 | 22 | 1487.9 | \$270,325.00 |

| | |
|---------------------------|---------|
| Estimated Direct Expenses | |
| Mileage and Production | \$1,500 |
| | |
| | |
| Total | \$1,500 |

| | |
|--|--------------|
| Project Fee Estimate Summary and Total | |
| Total Estimated Labor | \$270,325.00 |
| Total Estimated Expenses | \$1,500.00 |
| Total Fee Estimate | \$271,825.00 |

Notes and Assumptions:

- (1) See detailed Scope of Work dated November 23, 2022
- (2) Hours and Rates shown are approximate, actual hours and rates will be based on assigned staffing and may decrease or increase. However, DEA will not exceed the Total Fee Estimate without the client's written authorization.
- (3) The DEA project manager may transfer budget between tasks or from estimated expenses to labor and vice versa, with the City project manager's written permission and as the DEA project manager may determine as appropriate. Work will be billed on a time and expense basis, subject to the limit of the not-to-exceed Total Fee Estimate value.
- (4) Client shall be responsible for direct payment of all permit, agency review, advertisement, service or other project expenses not expressly included in the Project Fee Estimate and/or Scope of Work.