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190976

Ordinance

Authorize contract with WSP USA, Inc. to provide professional engineering and design services for the Carolina Work Zones 01 & 03 Rehabilitation Project, No. E11004, in the amount of \$4,950,303

Passed

The City of Portland ordains:

Section 1. The Council finds:

1. The Bureau of Environmental Services (BES) maintains the Carolina Trunk sewer system, located in SW Portland. It was constructed in the 1930s and has deteriorated after 90 years of service.
2. BES needs to design and construct approximately 1600 linear feet of combined sewer trunk rehabilitation to improve capacity, eliminate structural risk, and provide continuity of sewer service to existing properties.
3. BES needs to add infrastructure to accommodate future stormwater separation for conveying stormwater from the upper Carolina Basin to the Willamette River.
4. The services were advertised under RFP 00001821 and three responsive proposals were received. The selection committee reviewed and scored these proposals in accordance with PCC Chapter 5.68 and selected WSP USA, Inc. as the successful Proposer.
5. BES desires to enter into a Design Services contract with WSP USA, Inc. with a not-to-exceed contract amount of \$4,950,303. The level of confidence is high.
6. The COBID participation in this contract is 33.78%.
7. The established cost is \$4,950,303. Funds are available in the Sewer System Operating Fund, FY2022-23 and FY2022-23 Budget, Bureau of Environmental Services, WBS element E11004.

NOW, THEREFORE, the Council directs:

Introduced by

[Commissioner Mingus Mapps](#)

Bureau

[Environmental Services](#)

Contact

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Project Manager

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Design Manager

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Requested Agenda Type

Regular

A. The Chief Procurement Officer is authorized to execute a contract, attached as Exhibit A, with WSP USA, Inc., for the purposes described in Section 1, in an amount not to exceed \$4,950,303, provided the contract has been approved as to form by the City Attorney.

B. The Mayor and City Auditor are hereby authorized to pay for the contract from the Sewer System Operating Fund Budget when demand is presented and approved by the proper authority.

Documents and Exhibits

 [Exhibit A](#) (207.22 Kb)

An ordinance when passed by the Council shall be signed by the Auditor. It shall be carefully filed and preserved in the custody of the Auditor (City Charter Chapter 2 Article 1 Section 2-122)

Passed by Council

August 24, 2022

Auditor of the City of Portland

Mary Hull Caballero

Impact Statement

Purpose of Proposed Legislation and Background Information

The purpose of this legislation is to authorize the City to award the design phase PTE contract to WSP USA. The design engineering firm was selected through a competitive procurement process. The design engineer will join the project team which consists of an Owner's Agent, and a future Construction Manager/General Contractor (CM/GC), selected through a separate competitive procurement process.

The Carolina Trunk Work Zone 01 & 03 Rehabilitation Project will rehabilitate the existing deteriorated Carolina Trunk to provide reliable sanitary sewer service. The project also includes the design and construction of a new trunk parallel to the existing trunk to allow for a future separation of stormwater flow from the sanitary sewer system, thereby preserving overall capacity in the combined system.

The Carolina Trunk is in SW Portland, between SW Slavin Rd and S Macadam Avenue. The project includes three hundred feet of the trunk crossing under Highway I-5. The trunk was constructed in the 1930s and has deteriorated after 90 years of service. Condition assessment on Carolina Trunk disclosed many structural defects in the pipe needing rehabilitation and replacement to extend its service life. Approximately 1,600 ft of the existing 42" and 36" pipes will be rehabilitated and approximately 800 ft of new large diameter pipe will be installed in the project. Several deep shafts will be constructed for access to complete rehabilitation and trenchless piping work.

Preliminary geotechnical investigation indicates challenging underground conditions along the pipe alignment, including high groundwater, multiple layers of soil and rock types, and potentially loose soil. Expertise and experience of deep shaft excavation and trenchless piping is required for construction with these complex subsurface conditions.

Carolina Trunk mainly runs on private properties or within ODOT ROW. Therefore, trunk rehabilitation requires work on private properties. Construction of shafts and pipes in ODOT ROW requires night work to minimize impact on highway traffic. Additionally, there is an environmental zone and a wetland in the project boundary. Mitigation measures for construction in these areas are required.

Financial and Budgetary Impacts

Project construction is estimated to cost approximately \$20 million. This is a Class 5 AACE estimate based on alternative analysis completed in project development phase, which provide order of magnitude costs with a broad range of accuracy of +100 percent to -50 percent of actual costs. Design work has not started, and the level of confidence is "Low" according to Class 5 AACE estimates. This project is part of BES' Large Scale Sewer Rehabilitation Program, which is in BES' FY 2022-FY2026 Capital Improvement Plan (CIP).

This legislation will neither generate nor reduce current or future revenue. No current positions will be affected, and no positions will be created, eliminated, or reclassified as a result of this legislation.

Community Impacts and Community Involvement

This project is currently entering the design phase. However, the community impacts and community involvement activities identified in the CM/GC solicitation remain the same as follows:

The area impacted by this project is relatively limited, however there are significant equity considerations due to the presence of a significant Home Forward (the Local Public Housing Authority) housing development within the project area. The project team is currently working with Home Forward staff and property management. In the next phase of this project, outreach to residents will begin in earnest once staff has a better understanding of potential impacts to the area.

Since 2019, Environmental Services staff has conducted community outreach in the area regarding the goals of the project, investigative activities during the design phase such as soil sampling and utility location, and what to expect during construction. Significant work has been done to work with individual property owners to research private and public sewer connections and determine how best to meet local needs.

Outreach has included:

- Development of and updates to the project webpage
- Focused outreach to the impacted property owners and occupants in the project vicinity

- Focused outreach to property owners to coordinate work on private property, including the significant Home Forward facility in the area
- Situational email, mail, and phone correspondence to answer community questions, take input, and address concerns

Note: now that predesign/research work has proceeded to a point where enough information is known to identify potential project impacts, BES PI staff will conduct extensive outreach in the area, including

- Project updates mailed to property owners, renters, businesses, and public and private agencies
- Email and Social Media (Nextdoor.com) updates sent to the affected area
- Public presentations to Home Forward Residents and neighbors in appropriate languages with assistance from the CELs program

BES project information is available in multiple languages online. Fliers communicating what to expect during construction have been translated into 11 different languages. Future outreach will include work to identify underserved or low English proficiency stakeholders (LEP) impacted by construction and to develop and implement an equity work plan that may include translating notification materials with site-specific messages and use of translators or Community Engagement Liaisons.

Aaron Abrams, Environmental Services, has been the contact for Community Outreach and Public Involvement throughout design and will remain the contact throughout construction with support from JLA Public Involvement Inc.

100% Renewable Goal

- This project will neither increase nor decrease the City's total energy use.
- This project neither contributes nor takes away from the City's goal of meeting 100 percent of community-wide energy needs with renewable energy by 2050.

Budget Office Financial Impact Analysis

The established cost for this contract is \$4,950,303. Funds are available in BES's FY 2022-23 budget in the Sewer System Operating Fund. Total project construction is estimated to cost approximately \$20 million. This is a Class 5 AACE estimate based on alternative analysis completed in project development phase, which provide order of magnitude costs with a broad range of accuracy of +100 percent to -50 percent of actual costs. Design work has not started, and the level of confidence is "Low" according to Class 5 AACE estimates. This project is part of BES' Large Scale Sewer Rehabilitation Program, which is in BES' FY 2022-26 Capital Improvement Plan (CIP).

Agenda Items

699 Regular Agenda in [August 3, 2022 Council Agenda](#)

Passed to second reading

Passed to second reading August 24, 2022 at 9:30 a.m.

725 Regular Agenda in [August 24, 2022 Council Agenda](#)

Passed

Commissioner Jo Ann Hardesty Absent

Commissioner Mingus Mapps Yea

Commissioner Carmen Rubio Yea

Commissioner Dan Ryan Yea

Mayor Ted Wheeler Yea