FACILITIES
UNIVERSITY of WASHINGTON

April 8, 2021

REQUEST FOR QUOTE:
INFORMAL SOLICITATION

QUOTES DUE: April 26, 2021

Project
South Campus Force Main Leak Repair (SCFM), MW1921 Project #207452

Background
UW Facilities (UWF) is seeking quotes from an experienced contractor to provide means and methods to repair a leak in an 8-inch cast iron sanitary sewer force main at the University of Washington Seattle Campus (UW). The force main is located in the South Campus area near Harris Hydraulic Laboratory (HHL) at 1510 NE San Juan Road, Seattle, WA 98195.

The approximately 1,400 lineal foot force main is supplied, controlled and pressurized to approximately 40 psi by UW Lift Station #4 (LS4) located in the landscape south of South Campus Center (SCC) at 1601 NE Columbia Road, Seattle, WA 98195, UW Facility # 1308. The approximate flow rate is 108,000 gallons per day in dry weather and up to 202,000 gallons per day in wet weather given upstream combined systems. The leak appears minor, intermittently surfacing through cracks in an asphalt parking area, and is contained with spill blankets and A sand berm. The exact leakage location, extent, and causes are unknown and need to be identified. The sanitary sewer force main is approximately 5 feet deep to the top of pipe under the paved parking lot.

UWF would like repair solutions as soon as possible. Owner's budget estimate for the base bid is $50,000.

Contact Information:
- RFQ Coordinator: Aleksondra Jordan, UWF Procurement & Sourcing (P&S), uwfbuy@uw.edu
- Technical Questions and Project Information: Brian Davis, Project Manager, UW Facilities Maintenance & Construction (M&C), 206 510-6013, bkdavis@uw.edu

Job Walk
A job walk is highly encouraged for all contractors interested in submitting a quote. Interested contractors should email Project Manager Brian Davis at bkdavis@uw.edu to confirm participation by **Wednesday, April 14, 2021**. The date and time of the job walk will be communicated via email.

Prospective bidders should follow social distancing guidelines, including keeping 6 feet apart between individuals and wearing appropriate personal protection equipment. P&S will provide addition information in advance of the meeting.

The project site is not restricted. Bidders may visit the site outside of the University hosted job walk.

Scope of Work and Bid Item Descriptions

1. **Base bid**
    a. Sewer Leakage Investigation

        Contractor shall investigate, locate, and identify the sewer leakage location and extent. The investigation work shall include traffic control per Attachment A; spill prevention for worst case scenario; demolition; excavation; removal and disposal of dry sewage-impacted soil and fill, semi-solid

sewer saturated soil and fill, liquid sewage, and construction waste & other debris; imported bedding and backfill; surface restoration; clean up; mobilization & demobilization; safety measures; and any other tasks as necessary to perform and complete the investigation work. Sewage-impacted soil and fill removal is limited to excavation extents as required for the leakage repair. Surface restorations shall match the existing surface and base materials in kind. Contractor shall secure temporary conditions to avoid risk of breach and discharge at the completion of the investigation and prior to repairs, provide UW with a repair solution for review within (2) business days, and execute approved repairs within (5) business days from completion of investigation; this applies to Alternate bids as well.

Contractor will be paid by lump sum for this work task. Payment for this item shall be full compensation including all costs for materials, equipment, labor, tools, and incidentals as necessary to complete this work task.

b. Leakage Repair

Based on the leakage investigation results, Contractor shall provide a recommended repair plan for UW to review. The repair plan shall include a repair design and a detailed project schedule. For proposed products for pipe repairs, provide product catalogs for UW review prior to installation. After UW approves the repair plan, contractor shall perform the leakage repair work.

Leakage repair shall include all items listed in Base Bid 1.a above.

Sewer services provided by this force main cannot be shut down or interrupted during leakage repair. This sewer force main is fed by LS4. Contractor shall provide for temporary sewer service from the start of exploratory work thru the completion of repairs and testing, and be able to immediately activate this service if it is necessary to shut down LS4. Contractor to coordinate with UW Project Manager for UW Shops to perform all LS4 operations including shutdowns and re-starts. A suggested temporary sewer service solution for this bid is to collect sewerage at Lift Station 4 and transport to a sewer manhole on NE Pacific Street or Pend Oreille Road NE for disposal as shown in Appendix 10 and Appendix 11, respectively. See Appendix 14, Lift Station 4 Pre-Design Report for flow data.

For the bidding purpose, assume pipe replacement is not required. Assume the leakage is caused by a loose or segregated joint or a small hole/crack on the pipe that can be fixed without replacing a pipe section. Assume the leakage is at one single location.

Contractor will be paid by lump sum for this work task. Payment for this item shall be full compensation including all costs for materials, equipment, labor, tools, and incidentals as necessary to complete this work task.

2. Alternate bids

a. Alternate No.1 – Off-Site Sewer Disposal

Provide transportation and dispose of sewerage to an off-site facility (outside UW Campus) in lieu of manholes in the UW campus as shown in Appendix 10 or Appendix 11. Dispose of sewerage to a legal disposal facility. Comply with local, state, and federal codes and requirements.

The Alternate bid amount is the price difference between these two disposal locations (on campus vs. off-site).

b. Alternate No.2 – Pipe Replacement

Alternate No.2 includes work for replacement of one stick of the force main pipe (18 feet, 8 inches in diameter, ductile iron, Class 52, restrained) to repair the leakage. Besides providing one stick of pipe,

the alternate shall include all items in Base Bid including bedding and testing the replaced piping and joints under working pressure and other elements not covered in the Base Bid. It shall also include additional temporary sewer service during construction.

The Alternate bid amount is the price difference between the base bid repair and this pipe replacement solution.

c. Alternate No. 3 – Video Investigation

Provide a video inspection of the sewer force main conditions from the sewer leakage location, assuming a section of the pipe for the leakage repair is removed. Go downstream and upstream both directions to as far as the camera can reach. Jet-clean the pipes before video inspections.

Provide UW two copies of the inspection video files along with detailed written reports. The videos shall indicate the camera traveling directions and clearly show the pipe conditions (360 degree along pipe section circumference) with a distance indicator measuring from the start point. Include a map showing the inspected pipe locations and extents.

Provide traffic control per Attachment A, safety measures, clean up, and any other tasks as necessary to perform and complete the video inspection. Provide temporary sewer service as needed.

See Appendix 15 – Video Pipe Inspection Requirements for more information.

For the budgeting purpose, assume inspection of 400 feet of pipe minimum (200 feet minimum each direction) but not exceeding one day of work in total for both jet cleaning and video inspection.

The Alternate bid amount is the total price for the work of the Alternate.

Contractor will be paid by lump sum for each of these alternate bids. Payment for these items shall be full compensation including all costs for materials, equipment, labor, tools, and incidentals as necessary to complete these work tasks.

Contractor Responsibility Criteria:

1. Contractors must meet responsibility criteria defined in RCW 39.04.350
2. Supplemental Responsibility Criteria: Contractors must be a current Registered Side Sewer Contractor (RSSC) with the City of Seattle.

Quote Submission and Evaluation

Please submit your quote to uwfbuy@uw.edu before 5 pm on **the deadline date** for consideration.
UWF will evaluate quotes submitted from experienced contractors which are submitted on the provided form and contain all the requirements listed in this solicitation. UWF reserves the right to accept or reject any quote, from any contractor, that is not complete or have not demonstrated experience and met the responsiveness and responsibility criteria.

Questions

Questions are due (4) business days prior to the Quote Due Date: Questions received after are not guaranteed to be addressed.

Form of the Contract and Terms and Conditions

The successful bidder agrees to enter into a public works contract with the UW. Terms and Conditions will be incorporated by reference.

Attachments

Multiple attachments are provided to guide quoting and discuss discovery and historical information on the existing sewer infrastructure. Contractors can use as reference to scope and plan work.

A: Additional Project Requirements
B: Appendices

-END OF REQUEST-

ATTACHMENT A: ADDITIONAL PROJECT REQUIREMENTS

GENERAL:

1. Contractor's bid price must remain firm for 90 calendar days from the due date
2. The work is subject to prevailing wage requirements in accordance with RCW 39.12 and the rules and regulations of the WA Department of Labor and Industries.
3. The UW encourages participation by firms certified as small businesses, minority-owned businesses, women-owned businesses, and other historically marginalized businesses, referred to as Business Equity Enterprises (BEE). However, no preference will be given to Quotes who include BEEs, and no minimum level of BEE participation shall be required.
4. Site Specific Safety Plan and COVID-19 Prevention Plan are required prior to issuance of the Notice to Proceed. Contractor must ensure that all equipment including vacuum trucks and pumps will not aerosolize Sars-CoV-2.
5. All work and materials shall comply with City of Seattle Standards Specifications for Road, Bridge, and Municipal Construction (Seattle Standard Specifications) http://www.seattle.gov/Documents/Departments/SPU/Engineering/2020_Standard_Specifications-DRAFT.pdf and City of Seattle Standard Plans for Municipal Construction, 2020 edition, https://www.seattle.gov/utilities/construction-resources/design-standards/standard-specs-and-plans and UW Facilities Design Standards https://facilities.uw.edu/planning/design-standard
6. Imported backfill shall be structural fill according to Seattle Standard Specifications Section 9-03.12, Mineral Aggregate Type 17, Bank Run Gravel. Place and compact fill materials in continuous layers not exceeding 12 inches loose depth. Compaction: 90 percent in landscape areas and 95 percent in other areas according to ASTM D1557.
7. Replaced sewer force main shall be restrained (both pipe and joints):
    a. Ductile Iron Pipe: Centrifugal cast in 18-foot nominal lengths conforming to AWWA C151; cement-mortar lined conforming to AWWA C104; bituminous exterior coating conforming to AWWA C151. Standard Thickness: Class 52.
    b. Restrained Mechanical Joints: MEGALUG and Uni-Flange.
    c. Transition and Flexible Couplings: Romac or Ford constructed of ductile iron sleeves and ductile or malleable iron followers. Corrosion resistant in accordance with AWWA C111 for bolts and nuts. Factory finish, fusion bonded epoxy or Plascoat PPA 571 thermoplastic coating.
8. Pipe bedding material: Seattle Standard Specifications Section 9-03.10(3), Gravel and Sand Backfill for Pipe Bedding, Mineral Aggregate Type 9, 3/8-inch washed gravel.
9. Asphalt paving: HMA Class ½, PG 58-22 in accordance with Seattle Standard Specifications Section 5-04, Hot Mix Asphalt. Seal joints between existing and new asphalt with a uniform, overlapping bead of rubberized crack seal. Do not use sanded asphaltic resin.
10. Asphalt pavement gravel base: Crushed aggregate according to Seattle Standard Specifications Section 9-03.7 (3), ¾-inch Minus Crushed Rock, Mineral Aggregate No.1, Top Course.
11. For pavement patching and restoration, match existing pavement material, thickness, color, and finishing.
12. Contractor should obtain a Side Sewer permit from City of Seattle if required.
13. Transport and dispose of sewage-impacted-materials plan per Seattle SDCI SW manual volume 4 – source control. Confirm material receiver requirements. For example, Waste Management requires UW to mix lime into sewage-impacted soil and fill during excavation and place the material into lined roll off bins for transport to a standard landfill. No on-site stockpiling is allowed for excavated soil and fill, construction materials and debris, or backfill materials.
14. A spill prevention and stormwater system protection plan per Seattle SDCI SW manual volume 2 – construction SW control including but not limited to covering all vulnerable storm drains and sand berms in pathways to shoreline in work areas. Contractor must reasonably ensure that no stormwater will leave the project site by installing temporary berms and blocking nearby catch basins. Stormwater shall be collected and removed from the site; the selected sewage disposal waste stream may be used for this purpose.

15. Provide traffic control plan based on the Manual on Uniform Traffic Control Devices (MUTCD) for construction and maintain accesses to all roads, parking lots, fire hydrants, and facilities during construction.

ATTACHMENT B: APPENDIX

1. http://www.seattle.gov/Documents/Departments/SPU/Engineering/2020_Standard_Specifications-DRAFT.pdf
2. https://www.seattle.gov/utilities/construction-resources/design-standards/standard-specs-and-plans
3. Seattle SDCI SW manual volume 1 - project minimum requirements (side sewer requirements)
4. Seattle SDCI SW manual volume 2 – construction SW control
5. Seattle SDCI SW manual volume 4 – source control
6. King County treatment facility
7. Snip UW 805RU-01, Sanitary Sewer Distribution, Rev. G, 5-18-20
8. Snip of above 805RU-01, enlarged
9. Snip 875RU-E, Composite Utilities, Sheet E, 5-18-20
10. Alternative Disposal Site #1 Map via UW sanitary sewer manholes at UW Henderson Hall/Applied Physics Lab loading dock area on Cowlitz Road, map snip from City of Seattle (COS) Development Services Office (DSO) Water & Sewer Map
11. Alternative Disposal Site #2 Map via UW sanitary sewer manholes at TBD, map snip from COS DSO Water & Sewer Map
12. 1963 Utilities & Tunnel Extension, pipe size/type, detail 1 relationship to gravity SS and SD, attached.
13. 2015 Lift Station #4 C01 pump replacement, bypass pumping plan – FOR REFERENCE ONLY, attached.
14. 2016 Lift Station #4 Pre-Design Report, pp. 1-18 including flow data – FOR REFERENCE ONLY, attached.
15. Video pipe inspection requirements.

NOTE: UW Record Drawings can be furnished upon request or for rough scaling, use Google Earth, COS DSO Water & Sewer Map, or measure on site.