



Council Item 274

Authorize Price Agreements for Professional Engineering Solutions for Large-Scale Sewer Rehabilitation Program

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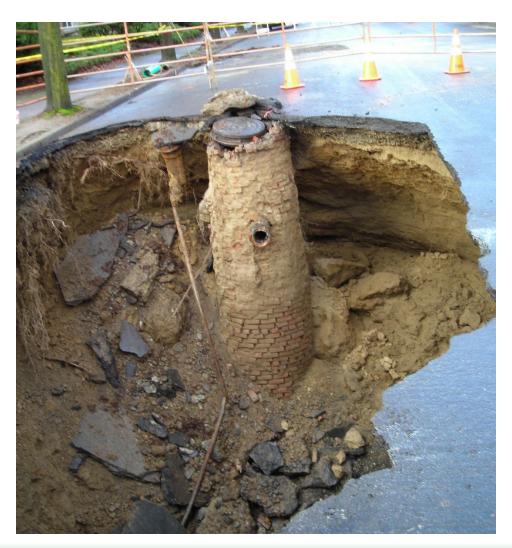


Mingus Mapps, Commissioner Dawn Uchiyama, Director



Program Requirements – Sewer Rehabilitation

- Support BES standard work
- Managing 2,500 miles of sanitary and combined sewer pipe
- Addressing aging system: one-third of pipes are 80 years old or older
- Preventing pipe failure: substantial inconvenience, property damage, permit violations, and risks to
 human health



Program Objectives – Sewer Rehabilitation

- Continue systematic, riskbased approach
- Deliver planned, costeffective work
- Manage assets through ongoing condition assessments
- Understand Likelihood of Failure
- Act on Consequences of
 Failure



Program Overview – Sewer Rehabilitation

- Sewer Rehab Program Initiated in 2011
- Staff and On-call consultants working together on Phase 3 projects (SW Portland) and Phase 4 projects (N/NE Portland)
- Small Diameter (neighborhoods)

Completing Phase 3 projects in SW Portland
Initiating Phase 4 projects in Piedmont, Woodlawn, King neighborhoods
Capacity to respond to emerging issues as they arise

Large Diameter Trunks

Addressing defects on Woods Trunk South (SW) & Beech Trunk (N/NE)

Downtown Old Town

Replacing all clay pipes in downtown and Old Town between 2020-2035, including seismic resilience considerations around maintenance holes

Program Overview – Augmented Services Required

- Sewer condition assessment
- Survey
- Utility location & coordination
- Hydraulic modeling
- Geotechnical engineering
- Structural engineering
- Specialized pipe investigations
- Sewer Design
- Rehabilitation technology assessment
- Cost estimating



- Public Involvement
- Construction support
- Urban forestry
- Program support/ advisement



Selection Process – 3-Year Price Agreements

- "Fourth generation" price agreements—previous solicitations in 2011, 2014, and 2018
- Task-based expertise: design engineering for sewer rehabilitation
- Task-order limits of \$500,000
- 3-year price agreements, \$4M per price agreements
- Qualifications based process
- Four firms selected
 - Jacobs Engineering Group
 - Leeway Engineering Solutions
 - Parametrix, Inc.
 - WSP USA, Inc
 - Associated subconsultants provide related services

DMWESB Participation

- Established at Task Order Level
- Goal: 30% utilization per price agreement
- Programmatic support for Prime/Subconsultant collaboration during task order development
- Programmatic support for small firm mentoring in project management, administration and increased technical services
- Program evolution: price agreement awarded directly to MBE
- Program and consultant track record with DMWESB Services
 - Design
 - Public involvement support
 - Geotechnical engineering

- Surveying
- Drafting
- Hydraulic modeling



Questions



Thank you

