



April 26, 2011

To: 1st Tier CBE Engineering Firms

Re: Non-exclusive Professional Services for the Replacement/Rehabilitation of a 72-inch Sanitary Sewage Force Main along NW/NE 159th Street between NW 17th Ave and NE 10th Ave

Project No.: E12-WASD-02

The above-referenced project is being considered for competition solely among Community Business Enterprise (CBE) firms. If you are interested in participating as a 1st CBE Prime Consultant to perform work in connection with this project, **please complete and return the attached Verification of Availability form and provide examples of work your firm has completed (required) on similar projects as outlined in the attached project description, by 12:00pm, Tuesday May 1st, 2012.**

Please review the attached project description and requirements. These specifications are being reviewed and are subject to change.

The Verification of Availability form and required examples of previous work may be sent via facsimile transmission (305) 375-3160 or email to walterv@miamidade.gov. If you have any questions, please contact me at (305) 375-3138.

Sincerely,

A handwritten signature in black ink, appearing to read "Vivian O. Walters, Jr." with a stylized flourish at the end.

Vivian O. Walters, Jr.,
Contract Development Specialist 2
Sustainability, Planning & Economic Enhancement Dept. (SPEED)
Small Business Development Division

Attachments

DESCRIPTION OF PROJECT

Project Title: Non-exclusive Professional Services for the Replacement/Rehabilitation of a 72-inch Sanitary Sewage Force Main along NW/NE 159th Street between NW 17th Ave and NE 10th Ave

Project Number: E12-WASD-02

Department: Water & Sewer

Estimated Cost: \$500,000.00

Technical Categories:

TC No.	Description	Percentage	Amount
6.01	Water Distribution & Sanitary Sewage (Prime)	65	\$325,000
17.00	Engineering Construction Management (Prime)	5%	\$25,000
10.05	Environmental Engineering – Contamination Assessment & Monitoring	5%	\$25,000
11.00	General Structural Engineering	5%	\$25,000
15.01	Land Surveying	10%	\$50,000
16.00	General Civil Engineering	10%	\$50,000
Total Estimated Consultant Fees		100%	\$500,000.00

Overall Project Description

At this time, WASD needs to replace/rehabilitate the 3.5 miles of 72-inch force main between Northwest 17th Avenue and Northeast 10th Avenue. In order to do so, WASD requests that the results of the pipeline condition assessment performed by Pure Technologies be reviewed and used as the basis of design (no additional condition assessment will be performed as part of this Work Order) for the rehabilitation/replacement of this portion of the force main; recommendations for the rehabilitation/replacement of force main be submitted; and a design build criteria package contract document for the renewal rehabilitation/replacement of the force main be prepared, procured and awarded.

The selected consultant will develop contract documents to a level sufficient for the procurement and award of a design-build contract for the rehabilitation/replacement of the 72-inch force main. WASD anticipates the following services to be provided: evaluating the rehabilitating/replacement alternatives for the 72-inch force main; identifying permits required and maintenance of traffic issues during the construction; surveying; coordinating with other utilities, governmental agencies and/or municipalities, and other professional consultants; preparation of design reports, contract documents, design drawings, specifications; cost estimates and project schedules; provide assistance as needed during contract procurement and construction phases of the project.

*Minimum Requirements

- **Prime must be certified in both 6.01 and 17.00.**

The **Prime** consultant selected must have **all** of the experience listed below:

- Design and post design services of a minimum of three (3) pipeline projects, including pressurized pipeline design, within the last five (5) years.

Do you have prior experience satisfying the above stated? Yes ___ No ___

- Design and post design services of at least one (1) project with a 48-inch diameter pressurized main within the last five (5) years.

Do you have prior experience satisfying the above stated? Yes ___ No ___

- Prior experience in trenchless design and rehabilitation of large diameter pipes within the last five (5) years.

Do you have prior experience satisfying the above stated? Yes ___ No ___

CBE firms are required to provide the project names, dollar values, and contact names of the projects worked on (satisfying the above stated requirements).

***This information is REQUIRED along with the signed Verification Form**

GENERAL OVERVIEW OF SERVICES

The Mayor of Miami-Dade County, pursuant to Section 287.055, Florida Statutes, Sections 2-8.1 and 2.10.4 of the Miami-Dade County Code and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (WASD) will require a design criteria professional to prepare a design criteria package for the rehabilitation/replacement of a 72-inch sanitary sewer force main. This project requires highly specialized engineering expertise and other technical services including but not limited to, development of design criteria package, compliance review of contract documents, post design services during construction, and project coordination services on an as-needed basis for the duration of the project. The selected consultant will be responsible for completing a Pipeline Rehabilitation/Replacement Report, recommend a pipeline rehabilitation method(s), prepare the Design-Build Criteria Package for the selected alternative, assist the County during the Design/Build Contractor selection process, and provide compliance reviews and support services during the design and construction phases of the replacement/rehabilitation of the 72-inch force main along Northwest/Northeast 159th Street between Northwest 17th Avenue and Northeast 10th Avenue.

The 72-inch force main Interceptor Number-9 is approximately 5 miles long and conveys wastewater along Northwest/Northeast 159th Street to the North District Wastewater Treatment Plant. The material for this segment of the 72-inch force main is Prestressed Concrete Cylinder Pipe or Embedded Cylinder Pipe which was installed in the late 1970's.

On June 18th, 2010, a portion of the 72-inch Prestressed Concrete Cylinder Pipe force main experienced a catastrophic failure just west of Northwest 17th Avenue. The corresponding failed pipe, along with an adjacent pipe segment, were removed and replaced at that time.

A forensic analysis of the failed and adjacent pipes prepared by Lewis Engineering and Consulting, Inc. suggested the primary mode of failure to be loss of structural integrity resulting from corrosion-induced hydrogen embrittlement of the Class IV prestressing steel wires. It was further suggested that the pipe section may have had pre-existing wire break damage and that a pressure transient, or surge event, could have increased the pressure inside the 72-inch force main, causing the failure. Due to concerns over the condition of the pipeline, and the risk associated with an additional failure, WASD contracted Pure Technologies in November, 2010 to conduct an internal inspection and a condition assessment of the 72-inch force main's prestressed wires.

Pipeline inspection, engineering analysis, and condition assessment of the 72-inch force main were conducted between January and February 2011.

Based on the results of these inspections, approximately 1.5 miles of the force main between Northwest 32 Avenue and Northwest 17 Avenue were rehabilitated by slip lining the existing 72-inch force main with high density polyethylene pipe.