

Memorandum



Date: January 27, 2014

To: Lester Sola, Director
Internal Services Department

From: John W. Renfrow, P.E., Director
Miami-Dade Water and Sewer Department

Subject: Review Item: Design of Upgrades for Water Distribution and Sanitary Sewage
Collection and Transmission Systems - Project No. E13-WASD-10

The Miami-Dade Water and Sewer Department (WASD) is requesting that the subject project be reviewed for Community Business Enterprise (CBE) measures, in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD intends to retain two (2) qualified firms under two (2) separate Non-Exclusive Professional Services Agreements. The maximum compensation for each contract is five million dollars (\$5,000,000.00) plus contingency in accordance with Ordinance 00-65. The term of the contract is for a five (5) year period.

WASD is seeking engineering services for utility design, including planning, permitting assistance and design services during construction for system upgrades to water and sewer pipelines.

The firms providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

PRIME

- 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 17.00 Engineering Construction Management

PRIME AND/OR SUBCONSULTANTS

- 9.02 Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services
- 10.05 Environmental Engineering – Contamination Assessment and Monitoring
- 15.01 Surveying and Mapping – Land Surveying
- 16.00 General Civil Engineering

Technical Categories	Description	Percent	CBE %
6.01	Water Distribution and Sanitary Sewage Collection and Transmission Systems	65	5
9.02	Soils, Foundations and Material Testing-Geotechnical and Materials Engineering Services	5	4
10.05	Environmental Engineering Contamination Assessment and Monitoring	2	1
15.01	Surveying and Mapping—Land Surveying	13	5
16.00	General Civil Engineering	10	2
17.00	Engineering Construction Management	5	2
	TOTAL	100%	19%

Minimum Experience and Qualifications

The Prime Consultant should demonstrate their successful experience with the planning, design, specifications and contract development, permitting and post-design services during procurement and construction of various types of pipe materials including polyvinyl chloride (PVC), high density polyethylene (HDPE), concrete pressure pipe, and ductile iron pipe (DIP) and various types of pipe installation and rehabilitation methods. The Prime Consultant should also demonstrate their successful design experience with large diameter pipelines (36-inch and greater). The Prime Consultant team should demonstrate their successful design experience with both micro-tunneling and horizontal directional drilling, with the Prime providing the experience in at least one (1) of the aforementioned trenchless technologies.

The Prime Consultant must have experience with the following:

- At least one (1) successfully designed, constructed and operating major new or upgraded water transmission pipeline and wastewater collection and wastewater transmission pipeline in which the Prime Consultant has served as the designer within the past ten (10) years from the date of solicitation.

The Subconsultants must have experience with the following:

- At least one (1) project that is relevant to this scope of work within the past ten (10) years from the date of this solicitation specific to their proposed responsibilities.

WASD is recommending a nineteen percent (19%) CBE goal participation for this Professional Services Agreement. Attached is WASD's Departmental Input Worksheet and the Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty David, Acting Chief, Intergovernmental Affairs Section at pattyd@miamidade.gov or (786) 552-8040.

Attachments

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Contract/Project Title: Design of Upgrades for Water Distribution and Sanitary Sewage Collection and Transmission Systems

Contract/Project No. E13-WASD-10

Description: Design of Upgrades for Water Distribution and Sanitary Sewage Collection and Transmission Systems

DEPARTMENT: Miami-Dade Water and Sewer Department

CONTACT: Patty David

PHONE: (786) 552-8040

Estimated Cost: \$5 million each under two separate contracts

Funding Sources: Water Renewal & Replacement Fund, and Future WASD Revenue Bonds

ANALYSIS

Commodity/Service No. _____ SIC: _____
Trade/Commodity/Service Opportunities

Contract/Project History of Previous Purchases for Previous Three (3) Years
 Check Here if this is a New Contract/Purchase with no Previous History

	<u>Existing</u>	<u>2nd Year</u>	<u>1st Year</u>
Contractor _____	_____	_____	_____
Ethnicity/Race _____	_____	_____	_____
Gender _____	_____	_____	_____
Contract Value _____	_____	_____	_____

COMMENTS: _____

RECOMMENDATIONS

CBE GOAL
19 %

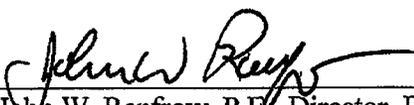
BID PREFERENCE

NO MEASURE

Analysis for Goal Recommendation

<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>	<u>Availability</u>
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
Total:	\$ _____	_____	_____

Basis for Recommendation: WASD proposes that the goal can be achieved with CBE firms assisting with 6.01 – 5%, 9.02 – 4%, 10.05 – 1%, 15.01 – 5%, 16.00 – 2%, 17.00 – 2%


 By: John W. Renfrow, P.E., Director Date: _____

1/27/2014 01/27/14
 Internal Services Department Date: _____

**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
MIAMI-DADE WATER AND SEWER DEPARTMENT
DESIGN OF UPGRADES FOR WATER DISTRIBUTION AND SANITARY SEWAGE
COLLECTION AND TRANSMISSION SYSTEMS
PROJECT NO. E13-WASD-10**

The County Mayor, of Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, Sections 2-8.1 and 2-10.4 of the Miami-Dade County Code, Implementing Order 3-34, and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional engineering services from two (2) qualified consultants for Design of Upgrades for Water Distribution & Transmission and Sanitary Sewage Collection and Transmission Systems.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of almost 2.3 million, making it among the largest water and wastewater utilities in the United States. WASD owns and maintains approximately 5,800 miles of water distribution and transmission pipelines and 4,100 miles of wastewater collection and transmission pipelines. The water system infrastructure averages 45 years with the oldest pipes in the system dating back to the mid 1920's. Similarly, the wastewater infrastructure averages 55 years with the oldest pipes in the system dating back to the 1930's. WASD is seeking engineering services for utility design, including planning, permitting assistance and design services during construction for system upgrades to water and sewer pipelines.

The scope of services consists of complete design services, which will include but not be limited to, performing preliminary route analysis, site investigations, surveying, geotechnical services, maintenance of traffic plans, hydraulic analysis, coordination with other utilities, coordination with other municipalities and the public, preparation of design reports, preparation of drawings, specifications and contract documents, preparation of design-build criteria packages, permitting and post design assistance during the procurement and construction phases. Engineering support during construction is anticipated to include, but not be limited to, periodic site inspections, and attendance at meetings. Support will also require the review of: shop drawings, requests for information, potential claims and change orders, contract schedules, schedule of values and as-built drawings, among others as needed. Project coordination services are anticipated to include, but are not limited to, establishing a plan to implement projects, establish and track project schedules, budgets and deadlines, prepare status reports and attend meetings as requested.

Some of the anticipated future pipeline design needs include, but are not limited to, the following:

Water:

- Small diameter water main replacement: There is approximately 1,000 miles of small diameter (4-inch and less) water distribution mains in the County which should be replaced. As a point of reference, the proposed Shenandoah Neighborhood Design-Build Project, which is currently being managed in-house, has approximately 15 miles of pipe replacement. The small diameter water main replacement program is scheduled to be more aggressive in the capital budget.

- Water Master Plan Projects which are generally larger than 24-inch diameter transmission mains.
- Projects which will be identified by the Comprehensive Infrastructure Assessment and Replacement Program (IAARP) for water transmission and distribution mains.

Sewer:

- Wastewater Master Plan Projects which are generally larger than 24-inch diameter transmission mains.
- Projects identified to relieve sewer capacity issues due to regional development or re-development, such as the Doral forcemain and Brickell Basin forcemain projects.
- Projects which will be identified by the Comprehensive IAARP for wastewater collection and transmission mains.

WASD intends to retain two (2) qualified firms under two (2) separate Non-Exclusive Professional Services Agreements. The two (2) highest ranked firms will be selected and forwarded to the County Mayor for approval to negotiate and award. The term of each contract is for a five (5) year period. Maximum compensation for each contract is five million dollars (\$5,000,000.00) plus contingency in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion.

Minimum Experience and Qualifications

The Prime Consultant should demonstrate their successful experience with the planning, design, specifications and contract development, permitting and post design services during procurement and construction of various types of pipe materials including polyvinyl chloride, high density polyethylene, concrete pressure pipe, and ductile iron and various types of pipe installation and rehabilitation methods. The Prime Consultant should also demonstrate their successful design experience with large diameter pipelines (36-inch and greater

). The Prime Consultant team should demonstrate their successful design experience with both micro-tunneling and horizontal directional drilling, with the Prime providing the experience in at least one (1) of the aforementioned trenchless technologies. The successful experience on the above items should be demonstrated within the last ten (10) years from the date of this solicitation. The Prime Consultant shall provide a list of members of the proposed design team, identifying the overall Design Manager(s), and the team leaders for key design specialties.

The Prime Consultant shall provide descriptions of at least one (1) successfully designed, constructed and operating major new or upgraded water transmission pipeline and wastewater collection and wastewater transmission pipeline in which the Prime Consultant has served as the designer within the past ten (10) years from the date of solicitation. For projects which the Respondent has served as the design consultant, the Respondent shall provide the name and contact information for a Utility Executive with the Utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the prime firm, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized), and a client reference and contact information.

The Subconsultants shall provide a description of at least one (1) project that is relevant to this scope of work within the past ten (10) years from the date of this solicitation specific to their proposed responsibilities. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Subconsultant firm, the project's achievements, and client reference with contact information.

A/E TECHNICAL CERTIFICATION REQUIREMENTS

PRIME

- 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 17.00 Engineering Construction Management

PRIME AND/OR SUBCONSULTANTS

- 9.02 Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services
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BREAKDOWN

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17.00 PRIME	Engineering Construction Management	5	2
	TOTAL	100%	19%