

Memorandum



Date: August 3, 2015

To: Tara C. Smith, Director
Internal Services Department

From: Lester Sola, Director
Miami-Dade Water and Sewer Department 

Subject: Review Item: Engineering Design and related Services for the Design of Large Diameter Water and Wastewater Pipelines for the Water and Sewer Department's Wastewater and Water Collection, Transmission and Distribution System – Project No. E15-WASD-01

The Miami-Dade Water and Department (WASD) is requesting that the subject project be reviewed for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E) and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD is seeking seven (7) engineering firms to provide engineering design and related services for the design of large diameter water and wastewater pipelines for WASD's wastewater and water collection, transmission and distribution system. A detailed scope of services is attached as "Notice to Professional Consultants." The term for each Non-Exclusive Professional Services Agreement (PSA) is six (6) years. Maximum compensation is \$5,000,000, plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum work or compensation will be assured to the retained consultants.

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

Technical Category (TC)	Description	Percentage (%)	SBE %
6.01 Prime	Water Distribution and Sanitary Sewage Collection and Transmission Systems	69%	7%
15.01	Surveying and Mapping – Land Surveying	5%	5%
16.00	General Civil Engineering	15%	5%
17.00 Prime	Engineering Construction Management	11%	3%
	TOTAL	100%	20%

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WASD is recommending a twenty percent (20%) SBE A/E goal participation. There are no goods and services that will be utilized under this PSA. Attached are 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, Chief, Intergovernmental Affairs Section at pattyd@miamidade.gov or (786) 552-8040.

Attachments

c: Gary Hartfield, Assistant Director, Small Business Development

**DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Contract/Project Title: Engineering Design and related Services for the Design of Large Diameter Water and Wastewater Pipelines for the Water and Sewer Department's Wastewater and Water Collection, Transmission and Distribution Systems

Contract/Project No. E15-WASD-01

Description: Engineering Design and related Services for the Design of Large Diameter Water and Wastewater Pipelines for the Water and Sewer Department's Wastewater and Water Collection, Transmission and Distribution Systems

DEPARTMENT: Miami-Dade Water and Sewer Department (WASD) **CONTACT:** Patty David
PHONE: (786) 552-8040

Estimated Cost: Seven (7) contracts at \$5,000,000 each, plus a 10% contingency allowance in accordance with Ordinance 00-65.

Funding Sources: WASD Revenue Bonds Sold 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

<u>SBE GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>20</u> %	_____	_____
	<u>Analysis for Goal Recommendation</u>	
	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>
<u>Sub-Trade</u>	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
Total:	\$ _____	_____
		<u>Availability</u>

Basis for Recommendation: WASD proposes that the goal can be achieved with SBE firms assisting with 6.01-7%; 15.01-5%; 16.00-5%; and 17.00-3%

Lester Sola
By: Lester Sola, Director Date: 7/31/15

Internal Services Department Date: _____

**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
ENGINEERING DESIGN AND RELATED SERVICES FOR THE DESIGN OF LARGE
DIAMETER WATER AND WASTEWATER PIPELINES FOR THE WATER AND
SEWER DEPARTMENT'S WASTEWATER AND WATER COLLECTION,
TRANSMISSION AND DISTRIBUTION SYSTEM
PROJECT NO. E15-WASD-01**

The County Mayor of Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1, 2-8.2.12 and 2-10.4 of the Miami-Dade County Code, Administrative Order 3-39 and Ordinance 14-77, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional engineering services from seven (7) qualified Consultants to provide design and related services for the design of large diameter pipelines (36-inch or larger in diameter) for water transmission and distribution, as well as sanitary sewer force mains and sanitary sewer gravity interceptors related to WASD's capital improvement needs identified in the Multi-Year Capital Improvement Plan.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of over 2.3 million, making it among the largest water/wastewater utilities in the United States. WASD has developed a Multi-Year Capital Improvement Program (CIP) to upgrade its infrastructure system throughout the County in order to renew and replace its existing deteriorated system, and to ensure efficient, reliable water and wastewater systems throughout the County in order to accommodate future growth and development or redevelopment. WASD recognizes the need for design services for large pipeline design and implementation of critical projects which are an integral part of the CIP.

Scope of Services

WASD will require engineering services for utility design, including planning and permitting assistance during construction for system upgrades to large water and sewer pipelines. The projects could be for the rehabilitation or replacement or for new large pipeline facilities.

The scope of services consists of complete design services, which includes but is not limited to, performing preliminary route analysis, site investigations, surveying, maintenance of traffic plans, hydraulic analysis, coordination with other utilities, coordination with other municipalities and the public, preparation of design reports, preparation of drawings and contract specifications, preparation of design-build criteria packages, assistance during the permitting and procurement phases, and engineering support during construction. Engineering support during construction is anticipated to include, but is not limited to periodic site inspections, attendance at meetings, review of shop drawings, responding to requests for information, reviewing claims and potential change orders, reviewing contract schedules and schedule of values, and reviewing as-built drawings. Project coordination services are anticipated to include, but are not limited to, establishing a plan to implement projects, establishing and track project

schedules, budgets and deadlines, preparing status reports and attending meetings as requested.

Experience and Qualifications

1. The Prime Consultant submitting shall be a full service engineering firm experienced in the design, permitting and construction management of water transmission systems, and wastewater transmission systems.
2. The Prime Consultant should demonstrate their successful experience with design, permitting and construction management of various types of pipe materials including polyvinyl chloride, high density polyethylene, concrete pressure pipe, and ductile iron.
3. The Prime Consultant should also demonstrate their successful design experience with large diameter pipelines (36-inch or larger in diameter). The Consultant team should demonstrate their successful design experience with both micro-tunneling and horizontal directional drilling, with the Prime Consultant providing their experience in at least one (1) of the aforementioned trenchless technologies. 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.
4. 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. For projects which the Prime Consultant has served as the design consultant, the Prime Consultant 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.
5. The Subconsultants shall provide a description of at least one (1) project that is relevant to this Scope of Work 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 and contact information.

A/E TECHNICAL CERTIFICATION REQUIREMENTS

Prime

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

Prime and/or Subconsultants

- 15.01 Surveying and Mapping – Land Surveying
- 16.00 General Civil Engineering

BREAKDOWN LIST

Technical Category (TC)	Description	Percentage (%)	SBE %
6.01 Prime	Water and Sanitary Sewer Systems - Water Distribution and Sanitary Sewage Collection and Transmission Systems	69%	7%
15.01	Surveying and Mapping – Land Surveying	5%	5%
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17.00 Prime	Engineering Construction Management	11%	3%
	TOTAL	100%	20%

WASD intends to retain seven (7) qualified firms under seven (7) separate Professional Services Agreements (PSA). The proposals received for this project will be reviewed and ranked by the Competitive Selection Committee (CSC) members. The seven (7) highest ranked, responsive and responsible firms will be selected and forwarded to the County Mayor or the Mayor’s designee for negotiations and award. The term of each PSA is six (6) years. Maximum compensation for each contract is \$5,000,000, plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant(s). 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.