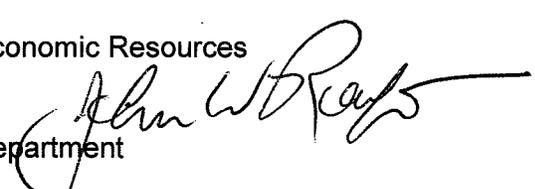


Memorandum MIAMI-DADE COUNTY

Date: September 14, 2012

To: Jack Osterholt, Director
Department of Regulatory and Economic Resources

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

Subject: Recommendation for Non-Exclusive Professional Services for a Program Management Consultant and related services to establish a Comprehensive Infrastructure Assessment and Replacement Program for water transmission and distribution mains including preparation of condition evaluations, forensic analysis, risk assessments and renewal option protocols - Project No. E12-WASD-03

It is recommended that the Department of Regulatory and Economic Resources review the attached request for Community Business Enterprise (CBE) measures for this project, in order to proceed with the advertisement and subsequent consultant selection for this contract.

The scope of services consists of a Program Management Consultant (PMC) and related services to establish a Comprehensive Infrastructure Assessment and Replacement Program for water transmission and distribution mains including the preparation of condition evaluations, forensic analysis, risk assessments and renewal option protocols. The PMC will provide professional services as specified in the attached Notice to Professional Services.

The proposed professional service agreement will be for a three (3) year period with the maximum compensation of two million dollars (\$2,000,000), plus contingency in accordance with Ordinance 00-65.

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

Technical Category No.	Description	Percentage	CBE Percentage/ Amount	Amount
6.01 PRIME	Water Distribution and Sanitary Sewage Collection and Transmission Systems	22	3	\$60,000
6.02 PRIME	Major Water and Sanitary Sewage Pumping Facilities	18	3	\$60,000
6.03 PRIME	Water and Sanitary Sewage Treatment Plant	18		
9.01	Drilling, Subsurface Investigations	1		

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	and Seismographic Services			
9.02	Geotechnical and Materials Engineering Services	1		
10.05	Contamination Assessment and Monitoring	1		
11.00 PRIME	General Structural Engineering	10		
15.01	Land Surveying and Mapping	3		
15.02	Aerial Photogrammetry	2		
15.03	Underground Utility Location	2	1	\$20,000
16.00	General Civil Engineering	3		
17.00 PRIME	Engineering Construction Management	11	3	\$60,000
19.06	Value Analysis, Water and Sanitary Systems	8		
	TOTAL	100	10	\$200,000

The Prime consultant must hold the following Technical Categories: **6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems, 6.02 Major Water and Sanitary Sewage Pumping Facilities, 6.03 Water and Sanitary Sewage Treatment Plant, 11.00 General Structural Engineering; and 17.00 Engineering Construction Management.**

Interested Professional Consulting Firms must have four (4) years of similar work experience as delineated in the attached Notice to Professional Consultants (attached) as listed below. The expertise can be met by any qualified individual(s) of the consultant's team (prime or subconsultant).

- Documented experience in conducting the evaluation of the condition of utility assets using state of the art technologies such as electromagnetic testing.
- Team members shall also have participated in a program management effort at a major utility which included identifying, prioritizing and rehabilitating deteriorated pipelines and facilities for a period of at least four (4) years.

WASD is recommending a 10% CBE participation goal. Attached is WASD's Departmental Input Worksheet for your review and approval.

Should you have any questions, please contact Patty David, A/E Professional Services Manager at pattyd@miamidade.gov or (786) 552-8040.

Attachments

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Contract/Project Title: Program Management Consultant and related services to establish a Comprehensive Infrastructure Assessment and Replacement Program for Water Transmission and Distribution Mains including Preparation of Condition Evaluations, Forensic Analysis, Risk Assessments and Renewal Option Protocols

Contract/Project No. E12-WASD-03

DESCRIPTION: Program Management Consultant and related services to establish a Comprehensive Infrastructure Assessment and Replacement Program for Water Transmission and Distribution Mains including Preparation of Condition Evaluations, Forensic Analysis, Risk Assessments and Renewal Option Protocols

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

ESTIMATED COST: \$2 million **FUNDING SOURCE:** 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

Existing 2nd Year 1st Year

Contractor	_____	_____	_____
Ethnicity/Race	_____	_____	_____
Gender	_____	_____	_____
Contract Value	_____	_____	_____

COMMENTS: _____

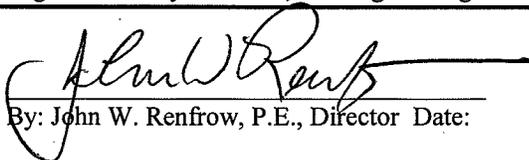
RECOMMENDATIONS

<u>CBE GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>10 %</u>	_____	_____

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 the CBE firm assisting with – 3% 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems; 3% Major Water and Sanitary Sewage Pumping Facilities ; 1% Underground Utility Location; 3% Engineering Construction Management


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

Date: Regulatory and Economic Resources

MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
MIAMI-DADE WATER AND SEWER DEPARTMENT

**PROGRAM MANAGEMENT CONSULTANT AND RELATED SERVICES TO ESTABLISH A
COMPREHENSIVE INFRASTRUCTURE ASSESSMENT AND REPLACEMENT PROGRAM
(IAARP) FOR WATER TRANSMISSION AND DISTRIBUTION MAINS INCLUDING
PREPARATION OF CONDITION EVALUATIONS, FORENSIC ANALYSIS, RISK ASSESSMENTS
AND RENEWAL OPTION PROTOCOLS
PROJECT NO. E12-WASD-03**

The County Mayor, Miami-Dade County (County), pursuant to Chapter 287.055, Florida Statutes, Sections 2-8.1 and 2.10.4 of the County Code and Administrative Orders 3-34 and 3-39, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional engineering services from one (1) qualified consultant to devise and establish a comprehensive program for pipeline infrastructure evaluation and renewal; including condition assessment, risk determination, project identification and prioritization of necessary water main remediation projects of all diameters. The renewal criteria may be based on pipeline material, age, size, maintenance history, condition, area impacted or other criteria identified in the appraisal. The evaluation/prioritization protocol will propose a method, utilizing an accepted model (such as the American Water Works and Research Foundation (AWWARF) model KANEW model), to relate the probability of failure to the consequences of failure and to establish the overall priority of the project being evaluated. This task will also include investigating various Renewal and Replacement (R&R) methods available and establishing protocols to determine the most cost effective method to be utilized in any given situation. It is intended that the program established will make full use of the numerous condition assessment, leak detection and trenchless rehabilitation technologies for potable water applications including visual inspection, limited exterior inspection, and electromagnetic testing (EMT) which have emerged in recent years. The program will provide the organizational structure required for implementation of the rehabilitation of the County's water system for the next thirty (30) years while maximizing the impact of available funding.

The second phase of this project will entail the utilization of the program plan to administer, through the Program Management Team, the actual evaluation and rehabilitation of the deteriorated assets. The Program Management Team will consist of consultants and WASD personnel working in parallel functions as a team to provide the various program management functions such as design and construction management (both in-house and contract), record keeping, asset allocation and overall program organization. Over time the consultant's role is to be diminished and WASD's role increased until the program is solely administered by WASD staff.

Engineering services are anticipated to include, but not be limited to, generating evaluation criteria for the various pipe materials and sizes in the WASD system, creating protocols for utilization of alternative R&R technologies, coordinating and training WASD personnel, preparing design reports, drawings and contract specifications and permitting and procurement activities. Construction management services are required to provide technical support during construction. Technical support during construction is anticipated to include, but not be limited to, periodic site inspections and attendance at meetings, review shop drawings, respond to information requests, review claims and potential change orders, review contract schedules and schedule of values, review as-built drawings. Project coordination services are anticipated to include, but not be limited to, establishing a plan to implement projects, establish and track project schedules, budgets and deadlines, prepare status reports and attend meetings as requested.

The prime and/or the sub consultants are required to have documented experience in conducting the evaluation of the condition of utility assets using state of the art technologies such as electromagnetic testing. Team members shall also have participated in a program management effort at a major utility which included identifying, prioritizing and rehabilitating deteriorated pipelines and facilities for a period of at least four (4) years.

Prime consultants may only submit one proposal for this project; the highest ranking firm selected will be forwarded to the County Mayor for approval to negotiate and award.

WASD intends to retain one (1) qualified firm under a non-exclusive Professional Services Agreement. The term of the contract is for a three (3) year period. Maximum compensation for the contract is two million dollars (\$2,000,000) 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 reduce the scope work of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion. The consultant coordinator for this project is _____ who may be contacted via e-mail at _____ or fax at _____ with copy to the Clerk of the Board.

TECHNICAL CERTIFICATION REQUIREMENTS

Prime

- 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 6.02 Major water and Sanitary Sewage Pumping Facilities
- 6.03 Water and Sanitary Sewer Treatment Plant
- 11.00 General Structural Engineering
- 17.00 Engineering Construction Management

Prime and/or Sub consultants

- 9.01 Drilling, Subsurface Investigations and Seismographic Services
- 9.02 Geotechnical and Materials Engineering Services
- 10.05 Contamination Assessment and Monitoring
- 15.01 Land Surveying
- 15.02 Aerial Photogrammetry
- 15.03 Underground Utility Location
- 16.00 General Civil Engineering
- 19.06 Value Analysis, Water and Sewer Systems

CBE Goal – 10%

BREAKDOWN LIST

	<u>%</u>	<u>CBE%</u>
6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems	22	3
6.02 Major water and Sanitary Sewage Pumping Facilities	18	3
6.03 Water and Sanitary Sewer Treatment Plant	18	
9.01 Drilling, Subsurface Investigations and Seismographic Services	1	

9.02 Geotechnical and Materials Engineering Services	1	
10.05 Contamination Assessment and Monitoring	1	
11.00 General Structural Engineering	10	
15.01 Land Surveying	3	
15.02 Aerial Photogrammetry	1	
15.03 Underground Utility Location	2	1
16.00 General Civil Engineering	3	
17.00 Engineering Construction Management	10	3
19.06 Value Analysis, Water and Sewer Systems	8	
TOTAL	100%	10%