

Memorandum



Date: October 1, 2013

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

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

Subject: Review Item: Non-Exclusive Professional Services Agreement for
Engineering Services for Geographic Information Systems Utility Backlog
Required by the Consent Decree - Project Number E13-WASD-07

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 one (1) qualified firm under a Non-Exclusive Professional Services Agreement (PSA). The total maximum compensation budgeted for the solicitation is nine million dollars (\$9,000,000.00), plus contingency in accordance with Ordinance 00-65. The term of the contract is four (4) year period.

WASD is seeking assistance to complete the backlog of donation and system betterment projects and to research and correct reported problems in the Geographic Information System (GIS). This type of work requires specialized and qualified engineering personnel with the required training and experience to evaluate and interpret information related to engineering drawing, perform research, and to be able to enter, manipulate, edit, and update WASD's GIS Geodatabase.

The selected Consultant shall work closely with WASD to provide skilled resources and monthly progress reports documenting progress, pending items, issues, and problem resolution. Resource responsibilities will include: interpreting as-builts, survey field logs, sewer TV inspection videos, donation plans and other documents used to accurately update the GIS with utility location and asset properties; use of WASD systems to research and resolve data inconsistencies in the GIS, which may include DOLFIN, PCTS, CC&B, DSI, Engineering database, and others; quality assure completed work prior to promoting to production.

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	Description	%	CBE %
6.01 PRIME	Water Distribution and Sanitary Sewage Collection and Transmission Systems	35	15
6.02 PRIME	Major Water and Sanitary Sewage Pumping Facilities	33	0
6.03 PRIME	Water and Sanitary Sewage Treatment Plants	32	0
	TOTAL	100	15

Minimum Experience and Qualifications

The Prime Consultant must have experience with the following:

- ESRI ArcGIS 10 – Geographic Information Systems.
- Infor EAM - Asset Management System.
- Ten (10) years of minimum experience with WASD water and wastewater projects.
- Proven experience GIS data maintenance using ArcSDE water and wastewater geometric networks.
- Knowledgeable of WASD's water and wastewater specifications and procedures.

The Subconsultants must have experience with the following:

- ESRI ArcGIS 10 – Geographic Information Systems.
- Ten (10) years of minimum experience with WASD water and wastewater projects.
- Proven experience GIS data maintenance using ArcSDE water and wastewater geometric networks.
- Knowledgeable of WASD's water and wastewater specifications and procedures.

WASD is recommending a 15 percent (15%) CBE goal participation for this PSA. Attached is WASD's Departmental Input Worksheet and Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty David, Acting Chief, Intergovernmental Affairs Section pattyd@miamidade.gov or (786) 552-8040.

Attachments

**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
MIAMI-DADE WATER AND SEWER DEPARTMENT
GEOGRAPHIC INFORMATION SYSTEMS UTILITY BACKLOG
AS REQUIRED BY THE CONSENT DECREE
PROJECT NO. E13-WASD-07**

The County Mayor, Miami-Dade County (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 a qualified Consultant for updating the Geographic Information Systems (GIS) Utility Backlog as required by the Consent Decree.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of almost 2.3 million. On May 21, 2013, the Board of County Commissioners approved the Consent Decree (CD) negotiated with the United States Environmental Protection Agency (EPA), the United States Department of Justice (DOJ) and the State of Florida Department of Environmental Protection (FDEP). One of the items requires WASD to bring their backlog of over 1,700 GIS plans and more than 2,000 Active As-built Supplemental Information System (AASIS) tickets up to date within 3.5 years.

WASD's GIS is one of the key enterprise systems used on a daily basis by WASD and other County departments for proper planning, locating assets, performing maintenance activities, ensuring regulatory compliance and many others. The GIS is integrated with enterprise systems such as the Enterprise Asset Management System (EAMS), Proliance Project Control and Tracking System (PCTS), Oracle Customer Care & Billing (CC&B) and other departmental systems. Over 740,000 records are tracked in the utility GIS with special care to accuracy (positional and attribute). In order to provide accurate information additional skilled resources are required to use WASD's in-house GIS Atlas Maintenance System (GAMS) and related applications to complete the backlog.

WASD is seeking assistance to complete the backlog of donation and system betterment projects and to research and correct reported problems in the GIS. This type of work requires specialized and qualified engineering personnel with the required training and experience to evaluate and interpret information related to engineering drawing, perform research, and to be able to enter, manipulate, edit, and update WASD's GIS Geodatabase.

The Consultant shall work closely with WASD to provide skilled resources and monthly progress reports documenting progress, pending items, issues, and problem resolution. Resource responsibilities will include: interpreting as-builts, survey field logs, sewer TV inspection videos, donation plans and other documents used to accurately update the GIS with utility location and asset properties; use of WASD systems to research and resolve data inconsistencies in the GIS, which may include DOLFIN, PCTS, CC&B, DSI, Engineering database, and others; quality assure completed work prior to promoting to production.

Minimum Experience and Qualifications

The Prime Consultant must have proven experience with the following:

- ESRI ArcGIS 10 – Geographic Information Systems.
- Infor EAM - Asset Management System.

- Ten (10) years of minimum experience with WASD water and wastewater projects.
- Proven experience GIS data maintenance using ArcSDE water and wastewater geometric networks.
- Knowledgeable of WASD's water and wastewater specifications and procedures.

The Subconsultants must have proven experience with the following:

- ESRI ArcGIS 10 – Geographic Information Systems.
- Ten (10) years of minimum experience with WASD water and wastewater projects.
- Proven experience GIS data maintenance using ArcSDE water and wastewater geometric networks.
- Knowledgeable of WASD's water and wastewater specifications and procedures.

WASD intends to retain one (1) qualified Consultant under a Non-Exclusive Professional Services Agreement for a four (4) year contract term under this solicitation. The maximum compensation is nine million dollars (\$9,000,000.00), 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.

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

A/E 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 Sewage Treatment Plants

Prime and/or Subconsultants

- 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems

BREAKDOWN LIST

		%	CBE %
6.01	Water Distribution and Sanitary Sewage Collection and Transmission Systems	35	15
6.02	Major Water and Sanitary Sewage Pumping Facilities	33	0
6.03	Water and Sanitary Sewage Treatment Plants	32	0
	TOTAL	100	15

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Contract/Project Title: Geographic Information Systems Utility Backlog as required by the Consent Decree

Contract/Project No. E13-WASD-07

Description: Geographic Information Systems Utility Backlog as required by the Consent Decree

DEPARTMENT: Miami-Dade Water and Sewer Department

CONTACT: Patty David

PHONE: (786) 552-8040

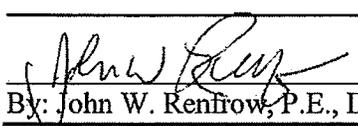
Estimated Cost: \$9 million

Funding Source: Operating Revenues

ANALYSIS

Commodity/Service No. _____	SIC: _____	
<u>Trade/Commodity/Service Opportunities</u>		
<p>Contract/Project History of Previous Purchases for Previous Three (3) Years Check Here if this is a New Contract/Purchase with no Previous History</p>		
<u>Existing</u>	<u>2nd Year</u>	<u>1st Year</u>
Contractor <input type="checkbox"/>	_____	_____
Ethnicity/Race _____	_____	_____
Gender _____	_____	_____
Contract Value _____	_____	_____
COMMENTS: _____		

RECOMMENDATIONS

<u>CBE GOAL</u> 15 %	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>Analysis for Goal Recommendation</u>		
<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
Total:	\$ _____	_____
Basis for Recommendation: WASD proposes that the goal can be achieved with CBE firms assisting with 6.01 – 15%		
<p>By:  <u>John W. Renfrow, P.E., Director</u> Date: <u>10-1-13</u> Regulatory and Economic Resources Date: _____</p>		