

Memorandum



Date: February 4, 2014

To: Gary T. Hartfield, Division Director
Internal Services Department
Small Business Development Division

From: Jose Vilaboy
Contract Compliance Specialist II
Miami Dade Water & Sewer

Subject: Replacement of Finish Water Meter #1 at the Alexander Orr Water Treatment Facility,
PCTS No. 12577, RPQ P0138 ✓

Miami-Dade Water and Sewer Department (WASD) respectfully requests that you review the attached recommendation for "5 % CSBE Participation". Part of the work of this project consist of removing and connecting to large diameter concrete pipe. This work is required to be done by pipe installation crews that have significant experience with large diameter concrete pipe.

Problems that may result from an inexperienced Contractor include the following:

1. Damage to additional joints of PCCP Pipe during pipe removal. Cost of each additional pipe length is up to \$80,000 per length.
2. Interference with the operation of the principal water plant. The work needs to be done in a timely manner as this work is within a water plant that provides water to over half of Miami-Dade County.
3. Larger equipment is needed to install the concrete pipe. Contractors that do this type of work all the time have the equipment and are capable of operating this equipment.
4. Damage to other plant utilities. An inexperienced Contractor excavating at the water plant may damage a critical duct bank, main or other utilities causing the loss of water and fire flow capacity to large sections of Miami-Dade County.
5. Alignment may require joints to match. Concrete pipe does not deflect as easily as ductile iron. A Contractor not experienced with this pipe may not get the joints to match.

There are plenty of Contractors that lay ductile iron pipe but concrete pipe installation should only be done by those with experience in concrete pipe installation. Most 7040 Contractor's do not have this capability.

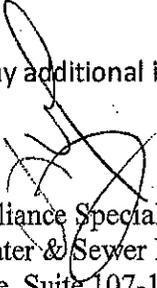
1.01 MINIMUM CONSTRUCTION EXPERIENCE OF THE CONTRACTOR

- A. With his bid, the successful Bidder shall submit proof that his/her firm has at least the minimum successful contract experience as required below for the RPQ being bid. Such proof shall consist of a list of projects, completed prior to the bid date, with the names and telephone numbers of the owners or representatives WASD can call and confirm the listed experience.

In addition to submittal requirements stated elsewhere, to qualify for work on this RPQ the Bidder must have successfully completed the installation of at least 1,000 feet of 48-inch diameter or larger concrete pressure pipe in the United States for the bid to be acceptable. The experience of key senior personnel with other firms may be counted toward the experience requirement, if acceptable to the Engineer. Should such evidence not be satisfactory to the Engineer, whose decision shall be final, the bid will be considered non-responsive, and the second low bidder will be considered for award. The qualifying proof shall be submitted in a separate sealed envelope with the bid.

Community Workforce Program is not applicable to this project.

If you require any additional information, please contact:



Jose Vilaboy
Contracts Compliance Specialist 2
Miami-Dade Water & Sewer Department
3071 SW 38 Ave, Suite 107-14, Miami, FL 33146
(786) 552-8056 (Phone) (786) 552-8885 (Fax).

Cc: Leo Vargas.

DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

To: Gary T. Hartfield, Division Director
Internal Services Department
Small Business Development Division

From: Leo Vargas, OCI Supervisor
Procurement Section.

Department: Miami-Dade Water and Sewer Department

Contract Title: Replacement of Finish Water Meter #1 at the Alexander Orr Water Treatment Facility PCTS No. 12577 RPQ P0138

Contract No.: MCC-7360.

Estimate Amount: \$292,600 Construction + \$52,700.00 Contingencies]

Account Funds: WASD Water Revenue Bond

RECOMMENDATION
CSBE GOAL - 0% (No availability) 5% CSBE <i>VA</i>

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	Removal of existing Venturi water meter, pipes and fittings, demolishing existing concrete vault, furnishing and installing proposed 48" ductile iron pipe and fittings, valves and meter.	\$277,970.00	86	
2	Electrical Work	\$14,630.00	4.5%	
3	Base Estimated Cost	\$292,600.00		
4	Contingency Allowance (10% of Base)	\$29,260.00		
5	Dedicated Allowance	\$52,700.00		
	TOTAL	\$374,560.00		

Department Head or Authorized Agent.



RC Date:

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: **P0138**

*Reference corresponding project number when submitting a work order

Contract/Project Title: **Replacement of Finish Water Meter #1 at the Alexander Orr Water Treatment Facility**

Description/Scope of Work: The work consists of furnishing all materials, labor, and equipment necessary to install a new water meter, including, but not limited to, excavation, demolition and modification work including: removal of existing Venturi meter, valves, piping and fittings; demolishing existing concrete vault; furnishing and ER W016683 01010 - 3 installing proposed 48-inch ductile iron pipe and fittings; furnishing and installing two 48-inch resilient seated wedge gate valves; furnishing and installing new electromagnetic flow meter, furnishing and installing access manholes; including installing new electrical piping and wiring as shown on the drawings; complying with security restrictions; restoring the existing vault walls and hand rails; cleaning, testing and disinfecting the installation; site restoration; and other appurtenant and miscellaneous work for a complete, satisfactory and functional installation.

Estimated Cost: **\$345,300.00** Funding Source: **General funds**

Location of Project (street address or beginning and ending points)
6800 SW 87 Avenue

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments: _____

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: **CSBE Goal - 0% (Not Availability)**.

Date submitted to DBD:
 Contact Person: **Jose Vilaboy**
 Telephone No.: **786-552-8056**

SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Work Included: This Section describes the project in general, and provides an overview of the extent of the work to be performed under this Contract. Detailed requirements and extent of work is stated in the applicable Specification sections and shown on the Contract Plans. The Contractor shall, except as otherwise specifically stated herein or in any applicable parts of the Contract Documents, provide and pay for all labor, materials, equipment, tools, construction equipment, and other facilities and services necessary for proper execution, testing, and completion of the work under this Contract.

1.02 MINIMUM CONSTRUCTION EXPERIENCE OF THE CONTRACTOR

- A. With his bid, the successful Bidder shall submit proof that his/her firm has at least the minimum successful contract experience as required below for the RPQ being bid. Such proof shall consist of a list of projects, completed prior to the bid date, with the names and telephone numbers of the owners or representatives WASD can call and confirm the listed experience.
- B. In addition to submittal requirements stated elsewhere, to qualify for work on this RPQ the Bidder must have successfully completed the installation of at least 1,000 feet of 48-inch diameter or larger concrete pressure pipe in the United States for the bid to be acceptable. The experience of key senior personnel with other firms may be counted toward the experience requirement, if acceptable to the Engineer. Should such evidence not be satisfactory to the Engineer, whose decision shall be final, the bid will be considered non-responsive, and the second low bidder will be considered for award. The qualifying proof shall be submitted in a separate sealed envelope with the bid.
- C. In the event a firm is established by executives, supervisors and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, the Miami-Dade Water and Sewer Department reserves the right to qualify the firm based on WASD's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm.

1.03 SPECIFICATIONS

- A. The Specifications included in these Contract Documents establish the minimum performance and quality requirements for materials and equipment together with the minimum standards for quality of workmanship and appearance. Generally, there has been no attempt to separate the Specification sections into groups for the work of separate subcontractors, or

for work to be performed by the various trades. Should there be any question as to the interpretation of any particular Specification section or part of Specification section, such question should be directed to the Department prior to the submittal of a proposal for the work under this Contract.

- B. The work shown on the Plans is intended to be comprehensive and descriptive, not an exact and complete representation of the actual finished work. Installed work shall include fittings, joints, supports, nuts, bolts, and all other accessories required to provide complete and satisfactory systems as specified, even though some items may not be specifically shown on the Plans.
- C. It is the intent of the Department to obtain a complete functional, and satisfactory installation under this project, and any items of labor, equipment or materials which may be reasonably assumed as necessary to accomplish this end shall be supplied whether or not they are specifically shown on any plans which may be supplied or stated herein. The Contractor shall provide all materials for the project unless they are specifically called out in these specifications as being supplied by the Department. The Contractor shall also supply all sheeting, shoring, bracing and all other labor, material or equipment required to preclude damage to, or loss of functionality of, any existing facility or system.
- D. No request for additional compensation or Contract time (except for a non-compensable time extension at the sole discretion of the Engineer, whose decision shall be final) resulting from encountering utilities or structures not shown, or differing in location or elevation from that shown, will be considered. The Contractor shall explore sufficiently ahead of the Work to allow time for any necessary adjustments without delay to the progress of the installation. Costs due to delays occasioned by encountering underground utilities or structures which could have or should have been discovered by timely exploration ahead of the Work shall rest solely with the Contractor.

1.04 REASONABLY IMPLIED PARTS OF THE WORK SHALL BE DONE THOUGH ABSENT FROM SPECIFICATIONS

- A. Any part of the work which is not mentioned in the Specifications but is shown on the Plans, or any part not shown on the Plans but described in the Specifications, or any part not shown on the Plans nor described in the Specifications, but which is necessary or normally required as a part of such work, or is necessary or required to make each installation satisfactorily and legally operable, shall be performed by the Contractor as incidental work without extra cost to the Department, as if fully described in the Specifications and shown on the Plans, and the expense thereof shall be included in the applicable unit prices or lump sum bid for the work.

1.05 DESCRIPTION OF WORK

- A. The work consists of furnishing all materials, labor, and equipment necessary to install a new water meter, including, but not limited to, excavation, demolition and modification work including: removal of existing Venturi meter, valves, piping and fittings; demolishing existing concrete vault; furnishing and

installing proposed 48-inch ductile iron pipe and fittings; furnishing and installing two 48-inch resilient seated wedge gate valves; furnishing and installing new electromagnetic flow meter, furnishing and installing access manholes; including installing new electrical piping and wiring as shown on the drawings; complying with security restrictions; restoring the exiting vault walls and hand rails; cleaning, testing and disinfecting the installation; site restoration; and other appurtenant and miscellaneous work for a complete, satisfactory and functional installation.

1.06 TESTING

- A. Testing procedures shall be submitted to the Engineer as shop drawings and will be subject to review and approval. The Department reserves the right to require test procedure and equipment changes and revisions to the extent considered appropriate by the Engineer whose decision shall be final. The Contractor is advised that all testing shall be carried out in accordance with the best practices of the trade, Best Management Practices (BMP) and as recommended in writing by the Engineering/technical/test staff of the manufacturer of the equipment and he should plan and price his test work accordingly. In no case will test recommendations of a manufacturer's sales or management groups be considered sufficient. All necessary temporary power sources, load banks, test materials, test instrumentation, qualified test personnel including manufacturer's representatives, fuels and lubricants shall be provided by the Contractor and shall be as approved by the Engineer and, if not approved, the Contractor shall change the item(s) to the satisfaction of the Engineer. Where required by the Engineer, testing shall be carried out utilizing Contractor-supplied power sources and load banks prior to any connection with FPL. The Contractor shall include in his prices bid all costs for testing and no extra compensation will be allowed.
- B. Factory testing of equipment is in all cases required and test data from these tests shall be provided to the Engineer prior to shipment. At times the Department will want witnessed testing by Department personnel or representatives and at other times this will not be required. To establish a base line for pricing, the Bidder will assume that any piece of equipment with an invoice cost to the Contractor of twenty thousand dollars (\$20,000.00) or more will require witnessed testing. The MDWASD will try in all cases to note which items in the Specifications will require witnessed testing. However, absent such list the Bidder shall use the \$20,000 level for pricing purposes. In all cases during the cost breakdown process, the Contractor shall agree with the Engineer on the amount of a credit to the MDWASD for each item to be witness tested in the instance such test is canceled. All costs for factory testing will be included in the prices bid and no extra compensation will be allowed.
- C. On site testing shall conform with the protocol previously approved by the Engineer and shall include testing and calibration prior to energizing of individual cubicles followed by testing and calibration as a whole system or group of systems. The Contractor shall supply via his own resources coordinated with those provided under the Emerson/Bristol subcontract, all material, equipment, power, time, and fully qualified specialist personnel to perform all system integration work as necessary to provide systems that talk to one another and correctly react to one another, including systems that must communicate with and react to existing systems and systems, being or to be,

installed by others. It is an absolute requirement that upon completion, all systems installed in the Work be able to correctly communicate and react to one another and to systems, in existence, being, or to be, installed external to the Work. Final testing and calibration will be performed with the equipment energized and will only take place when the Engineer is satisfied with the results of earlier tests. Full written reports of tests and results shall be furnished by the Contractor to the MDWASD. All costs for this testing, calibration, system integration and reporting including the costs for factory and specialist personnel required during testing, calibration and system integration shall be included in the prices bid and no extra compensation will be allowed. Any delays or costs occasioned by test procedures or results not being satisfactory to the Engineer shall rest solely with the Contractor and no extra time or compensation will be allowed. All on site testing shall be witnessed by MDWASD and the Contractor shall make timely arrangements and fully coordinate tests with the Engineer.

- D. After installation is completed, the Contractor shall provide records of non-destructive electrical insulation tests performed by a certified institution and approved by the Engineer, witnessed by MDWASD personnel and attesting that the dielectric condition of the equipment and wiring is acceptable.

PART 2 PRODUCTS NOT USED

PART 3 EXECUTION NOT USED

END OF SECTION