

**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.:** **P0223R**

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:**    **Upgrade Sewage Pump Station No. 0014**

**Description/Scope of Work:**    **See Attached**

**Estimated Cost:** **1843140** **Funding Source:** **Other (specify)**

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.

**Pump Station 14 is located at 8340 NW 54TH Street, in Section 22, Township 53, Range 40 East, City of Doral, Florida 33174**

**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:Specialized mechanical work involving submersible sewage pumps with variable frequency drive units and controls. The project is required pursuant to Resolution R-819-18 (attached).

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)**    See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
<b>Construction</b>	\$165,799	9.00%	
<b>G &amp; S</b>	\$25,052	1.36%	
	\$	0%	

**RECOMMENDATION**

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

**Basis for Recommendation:** **(See attached).**

**Date submitted to DBD:** **05/04/21**

**Contact Person:** **Isaac Smith**

**Telephone No.:** **786-552-8989**

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Chief  
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: Upgrade Sewage Pump Station No. 0014

Contract No.: P0223R

SBE Estimate: \$1,843,140.20 (\$1,675,582 Construction & \$176,558.20 Contingency)

Funding Source: EW 667, WASD Revenue Bonds Sold

<b>Small Business Enterprise – Construction – 9.0%</b> <b>Analysis for Recommendation (Attached)</b>
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Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This project was previously bid as RPQ# P0223, but was Terminated for Convenience. This project supports the Downtown Doral area and is being constructed pursuant to R-819-18. (Attached)

The work consists of furnishing all materials, labor, and equipment necessary for the Upgrade of existing wastewater raw sewage pump station referred to as Miami Dade Water and Sewer Department Pump Station No. 0014. The facility is located at 8340 NW 54TH Street, in Section 22, Township 53, Range 40 East, City of Doral, Florida 33174.

The Upgrade Sewage Pump Station No. 0014, consisting of convert the existing wet pit/dry pit configuration to a Submersible Pump Station with Stand By Generator including, but not limited to, excavation, demolition and modification work including: Abandon existing dry well; removal of existing dry well chimney; remove of existing pumps, motors, valves, piping (suction and discharge) and fittings; Removal of all internal items from existing Wet Well; Removal of existing generator building, concrete slab, and non structural element including a licensed Asbestos Abatement Contractor as an OSHA Work providing a Class II activity requiring adherence to the OSHA controls documentation, work practices, etc.; removal, transport, salvage and legal disposal of demolition material and equipment; Removal of existing 6-feet wall and replace it for 6' high fence with one (1) 34-feet slide gate as shown on plans; Remove existing underground gas tank and gas meter including abandon and cap the gas supply line; Remove and Relocate and/or as required and shown on plans: palm tree, bush, existing water meter and connect line to existing service, relocate existing RTU panel, antenna assembly and SCADA; furnish, install, operate, maintenance and removal of temporary sewage effluent by-pass pumps, providing 24 hours manned bypass pumping with primary and backup pumps (diesel drive); make arrangements with FPL to install a temporary and new service, including install conducts from existing electrical hand hole at the base of the FPL pole to Pump Station site (crossing NW 54th St) as shown on plans. The project also consist of refurbish the existing 10-feet Wet Well and Manhole including the rehabilitation of the existing

influent sewer line as required; coating to existing wet well and manhole including adjust manhole ring to match final pavement elevation as shown on plans, constructing concrete slab for discharge piping and fittings; furnish and install new wet well concrete top slab; furnish and install aluminum access hatches for existing wet well as shown on plans, emergency connection; furnish and install a concrete protecting coating; complete and operable as shown on plans; furnish and install three (3) new 60HP submersible pumps and related equipment; motor at 1775 RPM drive by a VFD and related equipment; furnish and install electromagnetic flowmeter system and related equipment in the 10-inch and 8-inch discharge pipe; furnish and install air release valve with drain to wet well; furnish and install new meter and main disconnect; furnish and install the proposed power/control system inclusive of the necessary electrical panel, enclosure, telemetry system and related equipment; install electrical conduits and junction boxes; install R.T.U. panel and S.C.A.D.A. equipment furnished by the Department; furnish and install a generator enclosure and sub-base tank system (1800 gallons of diesel fuel) and provide all equipment necessary in order to provide proper operation including all required synchronizing and transfer functions of the system but not necessarily be limited to, muffler, exhaust pipe and supports, engine, generator; access stairwells, and platform, (reinforcement concrete slab upon the manufacturer's recommendations) and restraint system and fuel supply and return piping to/from the diesel fuel day tank as shown on the Contract Drawings; electrical work; mechanical work; furnish all materials, equipment and supplies necessary for pump station startup and testing; furnish and install sewage force main pipe and fittings; connection to existing 16-inch sewage force main; replacement any existing irrigation system, new sod, new sidewalk and driveway, pavement damaged during construction; construction of new sidewalk and driveway as shown on plans; site restoration; new landscaping as shown on plans and other appurtenant and miscellaneous items for a complete, satisfactory and functional installation.

**LICENSES:** The types of licenses required are: State General Contractor (Prime), General Engineering Contractor (Prime), General Mechanical(sub), Demolition(Sub), Air Conditioning(Sub), Paving (Sub, Plumbing – Master (Sub), Underground Utility Excavation (Sub), Electrical (High Voltage) (Sub), Asbestos Abatement Contractor (Sub) and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

**SPECIAL CONDITIONS:**

- A. The Contractor should be aware of the presence of Asbestos Containing Material (ACMs). The contractor must provide the FDEP with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of ACM and/or RACM must be conducted by a State of Florida licensed asbestos abatement contractor.
- B. Contractor shall coordinate the removal and inspection of all existing (ACM) and provide the services of a qualified and licensed Asbestos Abatement Contractor to safely and legally remove all the existing asbestos-containing material.
- C. Contractor is advised of the proximity of the existing building to the proposed dry well/ wet well structures. The shoring system shall be designed by a professional Engineer and constructed by a specialty contractor. Contractor shall submit shop drawing and calculations signed and sealed by a state of Florida Licensed Professional Engineer.

**COMMUNITY WORKFORCE PROGRAM**

**CWP PARTICIPATION: Not Applicable, project is not located in a DTA.**

## **MINIMUM CONTRACTOR EXPERIENCE**

- 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 this Contract 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 the Department can call and confirm the listed experience.
- B. In addition to submittal requirements stated elsewhere, to qualify for work on this Contract the Bidder shall be experienced in raw sewage pump station construction, including the installation of submersible pumps, medium voltage electrical power systems, and standby diesel generators. The Bidder shall also be experienced in the cutting of concrete structures in selective demolition settings and construction methods to minimize noise, dust, and other impacts to surrounding residential neighborhoods.
- C. The Bidder must have successfully completed the refurbishment of a minimum of two (2) hydraulic structures within the last five (5) years meeting the following requirements:
  - 1. Refurbishment of a tank and/or wet well that included the cutting of concrete structures that existed within the internal portions of the tank and/or wet well without damaging the overall integrity of the tank and/or wet well
- D. The Bidder or Bidder's By-passing Pumping Vendor or Subcontractor shall have established, operated and maintained at least three (3) successful by-pass pumping operations. The Contractor shall have had primary responsibility for the by-pass operation and the operation shall have been completed successfully without spills or overflow. Submit experience history with the Bid Package. A Prime Contractor may bid the project with a qualified subcontractor that will be responsible for the bypass pumping operation. The qualifications of the subcontractor shall be submitted with the bid. The Prime Contractor shall be responsible for having the qualified subcontractor for the duration of the project, no change to the qualified subcontractor used for bypass pumping shall be made without the approval of the Engineer.
- E. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of one (1) project demonstrating experience with medium voltage power supply and standby diesel generators within the last five(5) years meeting the following requirements:
  - 1. Minimum generator size 250 kW.
  - 2. Medium voltage switchgear
- F. 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.
- G. 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 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.

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Chief  
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: Upgrade Sewage Pump Station No. 0014

Contract No.: P0223R

SBE Estimate: \$1,843,140.20 (\$1,675,582 Construction & \$176,558.20 Contingency)

Funding Source: EW 667, WASD Revenue Bonds Sold

**Small Business Enterprise – Goods & Services – 1.36%**

**Analysis for Recommendation (Attached)**



Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This project is one in a series of projects that are being processed under Section 2-8.2.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The work consists of furnishing all materials, labor, and equipment necessary to rehabilitate Pump Station 014 which includes two (2) 3,100 gpm centrifugal vertical non-clog pumps and two (2) 150 HP, 900 RPM, 480 Volts motors and Variable Frequency Drives (VFDs). Pumping Station No.14 is located at 8340 NW 54TH Street, in Section 22, Township 53, Range 40 East, City of Doral, Florida 33174.

**CONSIDERATIONS FOR ANALYSIS:**

1. The project involves construction and upgrades to an existing very large sewage pump station. This undertaking includes furnishing and installation of very large, expensive equipment, such as: 150 horsepower pumps and motors with variable frequency drives, medium voltage switchgear and motor control centers
2. The project involves the synchronization of multiple processes, remote telemetry and providing the services of a systems integrator.
3. The upgrade of Pump Station 14 requires highly skilled trades with special equipment. However, the Small Business Opportunities identified for this project include general site work (i.e., site clearing, grubbing and grading), yard piping, landscaping, masonry walls, roofing, doors, painting, plumbing, fence, sodding, sidewalk, pavement and HVAC.

4. The Department has evaluated the project for possible opportunities for participation in the area of SBE – Goods and Services. Based on the scope and nature of the work, we have concluded that there are several opportunities for participation on this project. Please find an analysis and recommended areas of participation for SBE Goods & Services providers:

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	<b>GOODS:</b> 150 Horsepower Pumps Pump Motors Mechanical Equipment Electrical Switchgear Variable Frequency Drives Instrumentation & Controls Piping & Fittings Drainage & Catch Basins Sod Fence Sidewalk Pavement	X X X X X X X X X X X X	X X X X X X X X X X X X X	X X X X X X X X X X X X X
2.	<b>SERVICES</b> Structural Electrical Instrumentation Testing & Compaction Demolition Civil Site work Systems Integration Utility Piping Concrete Restoration Finishing Painting Plumbing Masonry	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X