

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Manager  
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: CONVERSION OF SEWAGE PUMP  
STATION NO. 418 TO BOOSTER STATION

Contract No.: S-758R

**RESUBMITTAL**

Estimate Amount: \$5,987,000 (See Breakdown below)

[\$4,900,000 Construction + \$490,000 Contingency + \$597,000 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds

**Small Business Enterprise – Construction – 13.43%**

**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 2-8.1.12 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 for the conversion of Sewage Pump Station 418 to a Booster Station, located at 3330 W 76<sup>th</sup> Street, in Miami-Dade County, Florida. The project includes, but is not limited to, construction of an addition to the existing pump station structure for an electrical control room and generator; selective demolition and modification work; removal and disposal of existing underground fuel tank; removal and disposal of indicated equipment and accessories including, but not limited to, removal of existing pumps, controls and equipment; installing three (3) 450 HP centrifugal sewage pumps, motors and shafts furnished by the Department; furnishing and installing variable frequency drives; furnishing and installing two (2) 1,500 KW diesel standby generators, 10,000 gallon above-ground fuel tank and two (2) day tanks; rehabilitation and conversion of the existing wet well into dry well; furnishing and installing hydraulic accumulator system; furnishing and installing three 24-inch plug valves, three 20-inch plug valves and three 16-inch ball valves with hydraulic actuators inside the pump station; furnishing and installing one 24-inch swing check valve, three 24-inch plug valves and one 24-inch gate valve outside the pump station; furnishing and installing 5KV switchgear, transformer, main distribution panelboards, disconnects, control panels, and ancillary electrical materials, equipment and accessories; furnishing and installing two (2) 10 Ton air conditioning units, ductwork and accessories; furnishing and installing two (2) 2-ton trolley beams, hoist and trolley and rehabilitation of 4-ton crane systems to 5-ton capacity; paving restoration; electrical work; mechanical work; and other appurtenant and miscellaneous items and work for a complete and fully functional installation.

**CWP PARTICIPATION: Not Applicable, as Project is not in a DTA**

<b>Analysis for SBE - Construction</b>				
<b>Recommendation – 13.43% SBE Construction</b>				
<b>Item</b>	<b>Description</b>	<b>Estimated Cost</b>	<b>% of Item to Base Bid</b>	<b>CSBE Availability</b>
1	<u>GENERAL CONDITIONS</u> a) Mobilization	\$ 143,000	2.65%	
2	<u>SITWORK</u> a) Drainage/Underground Utilities \$ 41,500 b) Paving, Site Prep & Fill \$ 34,000 b) Tree & Hedges \$ 10,000	\$ 85,500	1.59%	CSBE
3	<u>STRUCTURAL</u> a) Switchgear Room Expansion \$ 235,500 b) Generator Room Expansion \$ 104,000 c) Electrical Room Expansion \$ 145,000 c) Crane & Hoist \$ 45,000	\$ 529,500	9.82%	CSBE
4	<u>INSTRUMENTATION/CONTROLS</u> a) Switchgear, Variable Frequency Drives, Control Panel, Transformer & Disconnect \$ 1,624,500	\$ 1,624,500	30.14%	
5	<u>FUEL &amp; GENERATOR</u> a) Fuel Tank & Equip. Demolition \$ 75,000 b) New Fuel Tanks & Accessories \$ 91,000 c) 1,500 KW Generator Set \$ 893,000	\$ 1,059,000	19.65%	
6	<u>MECHANICAL</u> a) Inst'l Owner Furnished 450 Hp pumps \$ 198,500 b) Hydraulic Accumulator System & pump station interior accessories & equip. \$ 682,500 c) Pneumatic actuators & Flow Control \$ 282,000 d) Wetwell conversion & Meters \$ 196,500	\$ 1,359,500	25.22%	
7	<u>MECHANICAL – A/C</u> a) HVAC \$ 99,000	\$ 99,000	1.62%	CSBE
	<b>SUBTOTAL</b>	\$ 4,900,000		
	CONTINGENCY (10%)	\$ 490,000	9.09%	
	<b>SBE - TOTAL</b>	\$ 5,390,000		<b>CSBE TOT. 13.43%</b>
	<b>DEDICATED ALLOWANCES</b>	\$ 597,000		
	<b>PROJECT GRAND TOTAL</b>	\$ 5,987,000		

**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.:** S-758R

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:** Conversion of Sewage Pump Station No. 418 to Booster Station

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

**Estimated Cost:** 5987000 **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.  
3330 West 76 St, Hialeah, FL

**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: Not Applicable, Project is not in a DTA.

**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:** Availability among CSBE subcontractors.

**Date submitted to DBD:** 10/02/2015

**Contact Person:** Isaac Smith

**Telephone No.:** 786-552-8255

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Funding Source: EW 658, WASD Revenue Bonds

**Small Business Enterprise – Goods & Services – 2.77%**

*Isaac Smith*

Department Head or Authorized Agent

**SBE-GOODS AND SERVICES:**

The Department has evaluated the project for possible opportunities for participation in the area of SBE-Goods and Services. The possible areas of subcontracting are in the area of Structural, Electrical, Instrumentation, Sitework, Earthwork, Landscaping and HVAC. For Goods we recommend: earthwork, landscaping, plug and check valves. For Services we recommend: Sitework, Earthwork, Landscaping and HVAC.

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	<b>GOODS:</b> Mechanical Equipment Electrical Switchgear Instrumentation & Controls Power Generator System Above Ground Fuel Tanks Plug Vales & Check Valves Landscaping	X X X	X X X X	X X
2.	<b>SERVICES</b> Structural Electrical Instrumentation Landscaping Earthwork Sitework HVAC	X	X X X X X	X X X X

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## White Jr., Tyrone (ISD)

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**From:** Smith, Isaac (WASD)  
**Sent:** Tuesday, October 06, 2015 1:16 PM  
**To:** Etienne, Eddy (ISD)  
**Cc:** White Jr., Tyrone (ISD)  
**Subject:** RE: S-758R - Contractor Requirments  
**Attachments:** image001.png

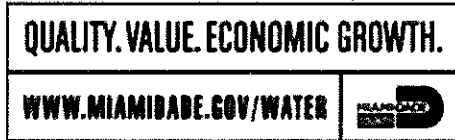
Good Afternoon Eddy,

Yes, within the last ten (10) years would be acceptable.

Thanks,

**Isaac Smith**, Manager, Construction Contracts  
**Miami-Dade Water and Sewer Department**  
3071 SW 38 Ave, Suite 560B, Miami, Florida 33146  
Tel. (786) 552-8255 Fax (786) 268-5186  
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**From:** Etienne, Eddy (ISD)  
**Sent:** Tuesday, October 06, 2015 1:11 PM  
**To:** Smith, Isaac (WASD)  
**Cc:** White Jr., Tyrone (ISD)  
**Subject:** RE: S-758R - Contractor Requirments  
**Importance:** High

Good afternoon Isaac,

Thank you very much for sending the requested information and for your time on the telephone earlier this morning.

In reference of the installation of dry pit vertical turbine non-clog (minimum 150 horsepower), would Miami Dade Water and Sewer Department (WASD) accepts that the Bidder or his electrical subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with variable frequency drives, medium voltage power supply and standby diesel generators within the last ten (10) years meeting the following requirements:

1. Minimum generator size: 1,250 kW
2. Medium voltage switchgear

Any questions, please feel free to contact me.

Thank you very much in advance for your understanding, cooperation and accepting the recommendation.

Sincerely,

**Eddy V. Etienne Jr., MBA, LEED® AP BD+C**  
Construction Project Manager  
**Miami-Dade County Internal Services Department**  
Small Business Development  
111 N.W. 1st Street, 19th Floor  
Miami, Florida 33128  
Office: (305) 375-3709  
Fax: (305) 375-3160

[EETIENN@miamidade.gov](mailto:EETIENN@miamidade.gov)  
*"Delivering Excellence Every Day"*

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**From:** Smith, Isaac (WASD)  
**Sent:** Tuesday, October 06, 2015 10:42 AM  
**To:** White Jr., Tyrone (ISD)  
**Cc:** Etienne, Eddy (ISD)  
**Subject:** S-758R - Contractor Requirements

Good Morning Tyrone,

Please find below the contractor licensing and experience requirements applicable to this project:

License Requirements:

One of the following licenses are required: State General Contractor, General Engineering, and/or any other category as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

Experience Qualifications:

The Bidder must have successfully completed the installation of a minimum of three (3) hydraulic structures within the last ten (10) years meeting the following requirement:

- 1) Structure ground floor a minimum of 10 feet below the average ground water level elevation.

The Bidder shall have successfully completed the installation of a minimum of three (3) raw sewage pump stations within the last ten (10) years meeting the following requirement:

- 1) Installation of dry pit vertical turbine non-clog pumps (minimum 150 horsepower)

The Bidder or his electrical subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with variable frequency drives, medium voltage power supply and standby diesel generators within the last five (5) years meeting the following requirements:

- 1) Minimum generator size: 1,250 kW
- 2) Medium voltage switchgear

Thanks,

**Isaac Smith, Manager, Construction Contracts**  
**Miami-Dade Water and Sewer Department**  
3071 SW 38 Ave, Suite 560B, Miami, Florida 33146  
Tel. (786) 552-8255 Fax (786) 268-5186