

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-903

*Reference corresponding project number when submitting a work order

Contract/Project Title: CD 5.12 UPGRADE OF SEWAGE PUMP STATION NO. 0187

Description/Scope of Work: See Attached

Estimated Cost: 5005000 **Funding Source:** Other (specify)

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
1 Northwest Blvd, Miami, FL 33126

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:08/19/2016

Contact Person:Isaac Smith

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**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: CD 5.12 UPGRADE OF SEWAGE PUMP STATION NO. 0187

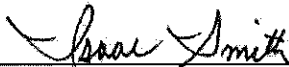
Contract No.: S-903

Estimate Amount: \$5,005,000 [\$4,550,000 Construction + \$455,000 Contingency]

Funding Source: EW 685, Revenue Bonds Sold

Small Business Enterprise – Construction – 4.30% Small Business Enterprise – Goods & Services – 1.00%
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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 Project consists of furnishing all materials unless otherwise specified in the specifications, all labor, and all equipment necessary to rehabilitate Booster Pump Station 0187, located in unincorporated Miami Dade County at 1 Northwest Blvd, Miami, FL 33126. The County will pre-order and furnish certain long-lead equipment for the Department including the Vertical Pumps with Motors, Plug Valves with MOV, and Ball Control Valves with Hydropneumatic Accumulator System. The construction work includes installation and startup of the pre-ordered equipment including four (4) new 450 HP pumps with 4160 V motors, four (4) new 20" ball control valves with one Hydropneumatic Accumulator System, our (4) new 42" plug valves with electric MOV, and four (4) new 20" plug valves with electric MOV. The construction work includes furnishing and installing new ductile iron piping, new pressure sensing, new electrical building expansion, new electrical equipment (i.e., switchgear, VFDs, control panel, and miscellaneous), new overhead bridge crane, upgraded HVAC, and upgraded lighting.

SBE-Construction Considerations:

Pump Station 0187 rehabilitation requires highly skilled trades with special equipment for the electrical rehabilitation work, the mechanical demolition, the mechanical pipe/valve/pump installation, and the reinforced concrete work. The electrical rehabilitation involves specialized 4,160 volt power for electrical equipment, variable frequency drives for pump control, and controls integration for communication between major equipment and switchgear. The mechanical work includes heavy 42" and 20" ductile iron pipe, and 450 HP pumps with very heavy motors. The building expansion work involves specialized augercast piles and reinforced concrete work.

The Small Business Opportunities identified for this project include general site work (i.e., site clearing, earthwork, grading, erosion control), excavation (for the exterior plug valve and ductile iron pipe installation), landscaping, demolition, masonry walls, miscellaneous metal, roofing, doors, painting, and HVAC. All other work requires special equipment and/or highly skilled trades.

LICENSES: The types of licenses required are: General Engineering, General Building Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

COMMUNITY WORKFORCE PROGRAM

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

Miami Dade Water and Sewer
Project # S-903
Consent Decree Project CD 5.12, Pump Station 0187
Analysis of SBE Opportunities

	QTY	UNIT	Unit Price	County Furnished Material	CONSTRUCTION CONTRACT	CSBE/SBE-G/S Cost	Trade/ Category
General Conditions	1	LS			\$ 1,345,000.00		
Mobilization	1	LS			\$ 160,000.00		
Site Clearing/Grading/Erosion Control	1	LS	\$ 10,000.00		\$ 10,000.00	\$ 10,000.00	SBE - Const
Excavation	1	LS	\$ 20,000.00		\$ 20,000.00	\$ 20,000.00	SBE - Const
Landscaping (Palm Tree Relocation/Seeding/Sod)	1	LS	\$ 15,000.00		\$ 15,000.00	\$ 15,000.00	SBE - Const
Demolition (Structural, Electrical)	1	LS	\$ 40,000.00		\$ 40,000.00	\$ 40,000.00	SBE - Const
Demolition (Mechanical w/ large pipe, valves, pumps)	1	LS	\$ 20,000.00		\$ 20,000.00		
Augercast Piles	1	LS	\$ 230,000.00		\$ 230,000.00		
Reinf. Concrete (pile caps, SOG, beams, pump pad, roof slab/	1	LS	\$ 95,000.00		\$ 95,000.00		
Masonry (scaffolding, CMU walls, stucco)	1	LS	\$ 15,000.00		\$ 15,000.00	\$ 15,000.00	SBE - Const
Misc Metals (alum ladder, grating, handrail)	1	LS	\$ 50,000.00		\$ 50,000.00	\$ 50,000.00	SBE - G/S
Roofing (carpentry, scupper/downspouts, BUR, flashing)	1	LS	\$ 10,000.00		\$ 10,000.00	\$ 10,000.00	SBE - Const
Doors	1	LS	\$ 10,000.00		\$ 10,000.00	\$ 10,000.00	SBE - Const
Painting (walls, doors, sealants, DIP, misc piping)	1	LS	\$ 10,000.00		\$ 10,000.00	\$ 10,000.00	SBE - Const
HVAC (louvers, AHUs, exhaust fans, ductwork)	1	LS	\$ 85,000.00		\$ 85,000.00	\$ 85,000.00	SBE - Const
Furnish 42" & 20" Plug Valves (w/ electric MOV & Floorstand)	1	LS	\$ 1,242,400.00	\$ 1,242,400.00	\$ -		
Instali 42" & 20" Plug Valves (w/ electric MOV & Floorstand)	1	LS	\$ 15,000.00		\$ 15,000.00		
Furnish 20" Ball Valves with Hydropneumatic Actuator/System	1	LS	\$ 736,000.00	\$ 736,000.00	\$ -		
Install 20" Ball Valves with Hydropneumatic Actuator/System	1	LS	\$ 15,000.00		\$ 15,000.00		
DIP suction/discharge	1	LS	\$ 650,000.00		\$ 650,000.00		
Furnish Vertical Pumps/Motors	1	LS	\$ 1,992,390.00	\$ 1,992,390.00	\$ -		
Install Vertical Pumps/Motors	1	LS	\$ 20,000.00		\$ 20,000.00		
Process Piping (DIP suction/discharge, pressure sensors, sum	1	LS	\$ 40,000.00		\$ 40,000.00		
Overhead Bridge crane	1	LS	\$ 15,000.00		\$ 15,000.00		
Electrical	1	LS	\$ 1,680,000.00		\$ 1,680,000.00		
Sub Total				\$ 3,970,790.00	\$ 4,550,000.00		
				10% Contingency	\$ 455,000.00		
				County Material	Construction Contract	SBE Goal	
				SBE Total	\$ 3,970,790.00	\$ 5,005,000.00	\$ 265,000.00
				Small Business Participation			
				SBE-Const + SBE-G/S	\$ 265,000.00		5.29%
				SBE - Const	\$ 215,000.00		4.30%
				SBE - G/S	\$ 50,000.00		1.00%

SBE- Goods & Services:

The rehabilitation of Pump Station 0187 requires highly skilled trades with special equipment for the electrical rehabilitation work, the mechanical demolition, the mechanical pipe/valve/pump installation, and the reinforced concrete work. The building expansion work involves the installation of augercast piles and reinforced concrete work. The Small Business Opportunities identified for this project include general site work (i.e., site clearing, earthwork, grading, erosion control), excavation (for the exterior plug valve and DIP installation), landscaping, demolition, masonry walls, miscellaneous metal, roofing, doors, painting, and HVAC. All other work requires special equipment and/or highly skilled trades.

Our recommendation is in the area of Goods for providing Miscellaneous Metals.