<u>DEPARTMENT INPUT</u> CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

PROJECT INFORMATION See attachment Contract/Project/*Work Order No.: \$.940 *Reference corresponding project number when submitting a work order Contract/Project Title: CD Project 5.9 - Upgrade/Replace Pump Station 0301 Description/Scope of Work: See Attached Estimated Cost: \$901767 Funding Source: Other (specify) Location of Project (street address or beginning and ending points) i.e. 12345 NE 23 rd Ct or Starts at 135 St. ends at 145 St. 350 Sumny Isles Boulevard, Sunny Isles Beach, Florida 33160 PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment Engineer/Department or Agency's estimated required workforce for Project	Check applicable Ordinance(s)): 🛭 90-143 Responsib	ole Wage and Benefits	□ 03-237 (for	merly 03-1) Community Workforce Program	
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Trade/Skills Required Est. # of workforce required per trade	PROJEC	T ANALYSIS FOR	GOAL RECOMME	NDATION (CV	<u>VP)</u> See	attachment 🖂	
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Construction \$1,181,276	Sub-Trade	Fst Cost	% of Item to Base B	id	Availabili	Availability	
Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure Basis for Recommendation: This project is located on a heavily traveled roadway on the north and a waterway connecting to Biscayne Bay on the South. The importance of a well coordinated project is essential to prevent the uinintended release of raw sewage into the area. Also this project is for the construction of a regional pump station				14	2 i vanaom	.,	
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Date submitted to DBD:<u>02/06/2019</u> Contact Person:<u>Isaac Smith</u> Telephone No.:<u>786-552-8989</u>

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: CD 5.9 UPGRADE AND REPLACEMENT OF

REGIONAL PUMP STATION NO. 0301

Contract No.: S-940

Estimate Amount: \$8,901,767.60 [\$8,092,516.00 Construction + \$809,251.60 Contingency]

Funding Source: EW 660, WASD Revenue Bonds Sold

Small Business Enterprise – Construction – 13.27%

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.

In general, the project consists of furnishing all materials, labor, and equipment necessary to replace Regional Pump Station 0301 (PS 0301) with a new station. PS 0301 is located at 350 Sunny Isles Blvd.in the City of Sunny Isles Beach, Florida.

The work consists of furnishing materials, labor, and equipment necessary for the construction of a new regional pump station. The new facility will replace the existing pump station. This project consists of demolition of the existing pump station and the furnishing and installing the following: Trench wet well construction; Four (4) 110 Horsepower Pumps & VFD motors, piping, and equipment into the wet well; Valves, piping and fitting (including stainless steel plug and check valves); Flow meter and flow control; Manholes; Odor control; Electrical and generator building; Generator Set and Aboveground Fuel Tank; Hoist and Trolley systems, including monorail support system; Wooden Perimeter fence and access gate; and all required By-pass pumping.

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).and/or other categories as applicable by Chapter 489 of the Florida

Statutes or Chapter 10 of Miami-Dade County Code.

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

MININUM QUALIFICATION:

This regional sewage pumping station is a critical facility for WASD and is located in an environmentally sensitive area between a State Highway and a tributary of the Intracoastal Canal. Therefore, in addition to license requirements above, bidders shall also meet the minimum experience listed below:

- a) The relevant experience of directing/managing Bidder shall demonstrate specialty contractors such as structural, electrical and instrumentation subcontractors by listing a least three (3) projects completed as the prime contractor within the last ten (10) years at sewage facilities, with a minimum total construction cost of three million dollars (\$3,000,000) or more each.
- b) The Bidder, as prime contractor, shall have successfully completed the installation or removal and replacement of pumps and motors for at least one (1) raw sewage pump station within the last ten (10) years which included the Installation of submersible centrifugal pumps (minimum 100 horsepower)
- The Bidder or Bidder's Electrical Subcontractor shall have successfully completed at least one (1) project demonstrating experience with 460 VAC power supply and pump station controls/integration within the last ten (10) years meeting the following requirements:
 - 1. 460 VAC switchgear
 - 2. 460 VAC variable frequency drives
 - 3. PLC auxiliary control panel
 - 4. Pump Station Control System Integrator
- d) The Prime Contractor or Subcontractor responsible for installing new wet well shall have completed at least three (3) projects within the past ten (10) years demonstrating:
 - 1. Experience with deep excavations, dewatering and concrete placement near coastal/marine waterways
 - 2. Experience mitigating environmental issues raise during construction near wetlands/marine/coastal waterways

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, COUNTY reserves the right to qualify the firm based on the COUNTY's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm. The experience of key senior personnel with other firms may be counted towards 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 lowest bidder will be considered for award. The qualifying proof shall be submitted in a separate sealed envelope with the bid.

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: CD 5.9 UPGRADE AND REPLACEMENT OF

REGIONAL PUMP STATION NO. 0301

Contract No.: S-940

Estimate Amount: \$8,901,767.60 [\$8,092,516.00 Construction + \$809,251.60 Contingency]

Funding Source: EW 660, WASD Revenue Bonds Sold

Small Business Enterprise – Goods & Services – 5.25%

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.

In general, the project consists of furnishing all materials, labor, and equipment necessary to replace Regional Pump Station 0301 (PS 0301) with a new station. PS 0301 is located at 350 Sunny Isles Blvd.in the City of Sunny Isles Beach, Florida.

The work also includes upgrades to replace equipment that has reached its useful life. The project includes, but is not limited to, replacement of pumps, piping, valves, appurtenances, modified bitumen roofing system, doors, windows, louvers, HVAC and ventilation equipment, plumbing, field instruments, site work and by pass pumping. The work also includes replacement of an existing generator set, Aboveground fuel storage stank, constructing an electrical room and generator building. Site work includes erosion control, landscaping, paving, grading and drainage. Electrical work includes switchgear; MCCs, VFDs; electrical equipment and instrumentation. The project also includes installing auger cast piles and maintaining a by-pass pumping system. The services of a Systems Integrator shall be provided for systems integration, control and instrumentation.

CONSIDERATIONS FOR ANALYSIS:

The project involves construction and replacement of an existing regional sewage pump station.
This undertaking includes furnishing and installation of very large, expensive equipment, such as:
110 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 work requires highly skilled trades with special equipment. However, the Small Business Opportunities identified for this project include demolition, general site work (i.e., site clearing, grubbing and grading), drainage, landscaping, masonry walls, roofing, doors, painting 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:

Analysis for Small Business Enterprise – Goods and Services Recommendation								
Item	Goods & Services	Prime Contractor	Sub- Contractor	SBE Availability				
1.	GOODS: 110 Horsepower Pumps Pump Motors Mechanical Equipment Electrical Switchgear Variable Frequency Drives Instrumentation & Controls Piping, Valves & Fittings Drainage Stainless Steel Valves PVC C900 Piping & Fittings Stainless Steel Piping & Fittings Wooden Fence & Gate	X X X X X	X X X X	X X X X				
2.	SERVICES Structural & Piling Electrical Instrumentation Testing & Compaction Demolition Civil Site work Systems Integration Utility Piping Concrete Restoration Finishing Painting Landscaping Masonry	X X X	X X X X X X X X	X X X X X X				

SBE ANALYSIS FOR
CONTRACT NO.S-940 - NEW PUMP STATION NO. 0301

Item No.	Item Description	Item Price	% of SBE Total	SBE Construction Availability	SBE Construction Percent (%)	SBE - G & S Availability	SBE - G & S Percent (%)
1	Mobilization & Demob.	\$411,450.00	4.62%	\$ -		\$ -	
2	Sitework: clearing, grubbing, excavating, etc.	\$277,950.00	3.12%	\$ 27,795.00	0.31%	\$ -	
3	Demolition, hauling and disposal	\$496,840.00	5.58%	\$ 245,790.00	2.76%	\$ -	
	Concrete pavement and grading of parking lot and driveway entrance	\$90,500.00	1.02%	\$ 81,450.00	0.91%	\$ -	
5	Constructing masonry walls, stucco, thermal and moisture protection, doors, decorative screen, and roofing for the electrical building	\$245,320.00	2.76%	\$ 180,760.00	2.03%	\$ 24,385.00	0.27%
6	HVAC equipment and materials	\$105,260.00	1.18%	\$ 94,734.00	1.06%	\$ -	
7	Odor control equipment and material	\$291,930.00	3.28%	\$ -		\$ -	
8	Miscellaneous metals	\$201,790.00	2.27%	\$ 181,611.00	2.04%	\$ -	
9	Painting and coating of the electrical building	\$87,990.00	0.99%	\$ 79,191.00	0.89%	\$ -	
10	Auger-cast piles and reinforced concrete structural elements	\$474,080.00	5.33%	\$ -		\$ -	
11	Coating of the sewage wet well	\$188,570.00	2.12%	\$ 169,713.00	1.91%	\$ -	
12	Landscaping	\$41,830.00	0.47%	\$ 37,647.00	0.42%	\$ -	
13	Furnishing Stainless Steel Plug & Check Valves	\$262,680.00	2.95%	\$ -		\$ 236,412.00	2.66%
14	Installing Stainless Steel Plug & Check Valves	\$168,440.00	1.89%	\$ -		\$ -	
15	Hoist and Trolley systems, structural monorail support system	\$101,110.00	1.14%	\$ -		\$ -	
16	Flow Meter & Flow Control	\$148,710.00	1.67%	\$ -		\$ -	
17	Furnish & Install 110 HP Submersible Sewage Pumps	\$564,646.00	6.34%	\$ -		\$ -	
18	Trench wet well	\$517,450.00	5.81%	\$ -		\$ -	
19	Furnishing HDPE piping and fittings	\$127,420.00	1.43%	\$ -		\$ 114,678.00	1.29%
20	Installing HDPE piping and fittings	\$94,150.00	1.06%	\$ -		\$ -	
21	Furnishing all stainless steel piping and fittings	\$315,235.00	3.54%	\$ -			
22	Installing all stainless steel piping and fittings	\$216,130.00	2.43%	\$ -		\$ -	
23	Furnishing all C900 PVC piping and fittings	\$64,300.00	0.72%	\$ -		\$ 57,870.00	0.65%
24	Installing all C900 PVC piping and fittings	\$43,940.00	0.49%	\$ 40,545.00	0.46%	\$ -	
25	Mechanical work & Specialities	\$92,960.00	1.04%	\$ -		\$ -	
26	Control System Integrator (CSI) and PLC Auxiliary Panel	\$291,800.00	3.28%	\$ -		\$ -	
27	Furnish & Install Variable Frequency Drives (VFD) units	\$754,050.00	8.47%	\$ -		\$ -	
	Electrical panel boards, switchgear, MCCs and all other electrical and Control equipment and materials						
	Sewer By-pass Pumping System	\$604,520.00	6.79%			\$ -	
	Generator set, complete with fuel storage tank & appurtenances	\$92,045.00	1.03%			\$ -	
50	French drain, inlets, drainage piping	\$419,690.00	4.71%		0.47%	\$ -	0.200/
31	Sanitary Sewer Manholes greather than 10 ft. deep	\$84,080.00	0.94%	-	0.47%		0.38%
32	Subtotal	\$215,650.00 \$8,092,516.00	2.42%	Φ -		\$ -	
		, ,		\$ 1,181,276.00	13.27%	\$ 466,977.00	5.25%
	Contingency Allowance		9.09%		SBE		SBE
	SBE TOTAL	<u>\$8,901,767.60</u>	<u>100.00%</u>		Construction		G&S