

**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-945**

\*Reference corresponding project number when submitting a work order

**Contract/Project Title: 60-INCH FORCE MAIN (NL-1A) (WEST SEGMENT) ALONG NW 162ND STREET FROM NW 6 AVENUE TO NE 8 AVENUE**

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

**Estimated Cost: 24150231      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.  
**From NW 159 St. and NW 6 Ave. along NW 162 St. to NE 163 St. and NE 8 Ave., in Section 13, Township 41S, Range 52E, and Section 18, Township 42S, Range 52E, un-incorporated Miami-Dade County and in the City of North Miami Beach, Miami-Dade County, Florida**

**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
<b>Construction</b>	\$1,141,125	4.73%	
<b>G &amp; S</b>	\$242,465	1.00%	
	\$	0%	

**RECOMMENDATION**

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

**Basis for Recommendation: This project involves furnishing and installation of a very large diameter precast cylinder concrete pipe, several 60-inch plug valves, several connections and full width pavement restoration, providing limited participation for Small Business Enterprise firms.**

**Date submitted to DBD: 1/23/2020**

**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

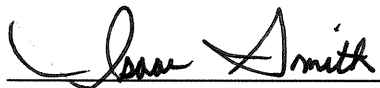
Contract Title: 60-INCH FORCE MAIN (NL-1A) ) (WEST SEGMENT) ALONG NW 162ND STREET  
FROM NW 6 AVENUE TO NE 8 AVENUE

Contract No.: S-945

Estimate Amount: \$24,150,231.51 [\$21,954,755.92 Construction + \$2,195,475.59 Contingency]

Funding Source: EW 660, WASD Revenue Bonds Sold

<b>Small Business Enterprise – Construction – 4.73%</b> <b>Analysis for Recommendation (Attached)</b>
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\_\_\_\_\_  
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. It is required in compliance with the State of Florida’s Ocean Outfall Legislation (OOL).

The project is for the construction of a 60-inch Prestressed Concrete Cylinder Pipe (PCCP) (ECP) force main within unincorporated Miami-Dade County and the City of North Miami Beach, that connects to an existing 72-inch force main at NW 159th Street and NW 6th Avenue continues along the specified alignment shown in the plans up to NE 163<sup>rd</sup> Street and NE 8th Avenue, located in Section 13, Township 41S, Range 52E, and Section 18, Township 42S, Range 52E, un-incorporated Miami-Dade County and in the City of North Miami Beach, Miami-Dade County, Florida.

The scope of work includes, but is not limited to, the furnishing and installation of approximately 10,000 linear feet of 60- inch PCCP with T-Lock lining, including the corresponding fittings and valves; connection to existing 72-inch PCCP slip-lined with 63” HDPE force main at intersection of NW 159th Street and NW 6th Avenue and connection to a proposed 60-inch PCCP force main (being constructed by others under Contract No. S-944) at NE 161st St and NE 8th Ave and leaving a stub out for future connection at NW 162nd Street and NW 2nd Avenue; furnishing and installing Automatic Air Release Valves; furnishing and installing required Flanged Plug valves; valve access manholes; access manholes; temporary pavement installation and removal; pavement restoration, surface and sodding restoration; tree relocations; pavement markings restoration; MOT and public outreach coordination.

For most of the route, the rights-of-way are 50 feet in width with existing asphalt concrete paved cross sections that generally vary between 16 and 20 feet in width. It is anticipated that all or most of the

pavement, as well as the existing base, will be removed to install the proposed force main. Where required and depicted on the Drawings, temporary pavement will be provided to facilitate access for the residents. Access for residents must be provided at all times. Also, as detailed in the geotechnical report, the soil consists of mostly sand, which will require sheeting and shoring along the route for excavations

**MINIMUM CONTRACTOR EXPERIENCE:**

In addition to licensing requirements, Bidders shall be experienced in the installation of large diameter force mains (i.e. greater than 48-inch inside diameter).

Bidders shall submit proof that their firm (which can include the experience of key supervisory employees that would man the project) has successfully completed at least three (3) comparable projects meeting the following criteria:

1. For each project listed, the pipe installation shall have been completed and accepted by the project owner prior to the bid submittal date.
2. Each project shall be for a minimum of 48-inch nominal inside diameter or larger.
3. At least two (2) projects shall be for the installation of a concrete water or sanitary sewer main of at least 1,000 feet each of a minimum of 48-inch diameter pipe or larger.

**CONSIDERATIONS FOR ANALYSIS:**

1. This project involves installation of a large diameter force main involving PCCP, which requires the use of large equipment and capable of deeper trench installations. Trench line shoring and use of highly specialized divers to guide installation will be necessary.
2. The project also involves an interconnection to an existing 72-inch diameter PCCP force main slip-lined with 63" HDPE force main at intersection of NW 159th Street and NW 6th Avenue and connection to a proposed 60-inch PCCP force main (being constructed by others under Contract No. S-944).

**LICENSES:** The types of licenses required are: General Engineering, State Underground, Pipeline 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.**

**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

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Funding Source: EW 660, WASD Revenue Bonds Sold

**Small Business Enterprise – Goods & Services – 1.00%**

**Analysis for Recommendation (Attached)**



Department Head or Authorized Agent

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**CONSIDERATIONS FOR ANALYSIS:**

1. This project involves installation of large diameter (60-inch) force main involving Prestressed Concrete Cylinder Pipe (PCCP).
2. The project also involves an interconnection to existing 72-inch Prestressed Concrete Cylinder Pipe (PCCP) and proposed 60-inch force main being constructed by others.
3. The construction required for this project requires the use of very large machinery to accommodate the depth and trench widths required for large concrete pipe installation.

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 are very limited opportunities for participation in this project.
5. The possible areas of subcontracting are in the area of Maintenance of Traffic, Pavement Marking, Milling, Paving, concrete driveway restorations, concrete curb and gutter restoration, stormwater pollution prevention and public outreach.
6. Therefore, for SBE- Goods and Services the recommended participation goal of 1.00%

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
<b>Item</b>	<b>Goods &amp; Services</b>	<b>Prime Contractor</b>	<b>Sub-Contractor</b>	<b>SBE Availability</b>
1.	<b>GOODS:</b>  Prestressed Concrete Cylinder Pipe (PCCP) PCCP Fittings Automatic Air Release Valves Limerock Base and Subbase Concrete Access Manholes Sod Replacement	  X  X X X X	    X X X X	      X X X
2.	<b>SERVICES</b>  Concrete Pipe Installation Furnishing Traffic Control Replacing Pavement Markings Milling and Paving Public Outreach	  X X X	   X X X X	   X

**ANALYSIS FOR SBE PARTICIPATION - CONTRACT NO. S-945**

<b>Item</b>	<b>Description</b>	<b>Cost</b>	<b>Availability</b>	<b>SBE (%)</b>	<b>G&amp;S(%)</b>
1	Mobilization & demobilization	\$ 1,026,609.62	4.25%		
2	Furnishing 60" PCCP Force Main Pipe	\$ 9,178,710.00	38.01%		
3	Installing 60" PCCP Force Main Pipe	\$ 1,874,150.00	7.76%		
4	Furnishing 60" Plug Valves	\$ 1,750,000.00	7.25%		
5	Installing 60" Plug Valves	\$ 250,000.00	1.04%		
6	Constructing Automatic ARV Assemblies	\$ 300,000.00	1.24%	1.24%	
7	Furnishing & installing Plug Valve Manhole	\$ 115,000.00	0.48%		
8	Constructing concrete access manhole	\$ 180,000.00	0.75%	0.75%	
9	Making connection to existing 72" FM	\$ 180,000.00	0.75%		0.18%
10	Pavment Markings	\$ 35,000.00	0.14%	0.14%	
11	Removal of Unsuitable Backfill Materials	\$ 88,900.00	0.37%	0.37%	
12	Furnishing Additional Suitable Backfill Material	\$ 73,968.00	0.31%		0.31%
13	Pavement Overlay 1" to 3", Superpave 9.5	\$ 5,016,440.00	20.77%		
14	Cold Milling Roadway Surface 1" to 1.5"	\$ 138,916.70	0.58%		
15	Limerock Base - All Roads	\$ 169,065.00	0.70%	0.70%	
16	Concrete Driveway, Curb & Gutter Restoration	\$ 244,350.00	1.01%	1.01%	
17	For Restoring Sodded Area	\$ 17,232.60	0.07%		0.07%
18	For Replacing tiles/bricks pavement in driveways	\$ 40,000.00	0.17%	0.17%	
19	Type "I" Asphaltic Concrete	\$ 83,810.00	0.35%		
20	Construction limerock base for Type "I"	\$ 83,810.00	0.35%	0.35%	
21	Providing Sheeting & Shoring	\$ 21,000.00	0.09%		
22	Installing Trench Overcut	\$ 60,000.00	0.25%		
23	Furnish Traffic Control for MOT	\$ 720,000.00	2.98%		
24	For Stormwater Pollution Prevention Plan	\$ 200,000.00	0.83%		
25	For providing public outreach	\$ 107,794.00	0.45%		0.45%
	<b>Subtotal</b>	\$ 21,954,755.92	90.91%	SBE-Cons	SBE-G&S
	<b>Contingency (10%)</b>	\$ 2,195,475.59	9.09%	\$ 1,141,125.00	\$ 242,465.02
	<b>SBE Total</b>	\$ 24,150,231.51	100.00%	4.73%	1.00%