

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-919

*Reference corresponding project number when submitting a work order

Contract/Project Title: INSTALLATION OF 14" NOMINAL PIPE SIZE HDPE SEWAGE FORCE MAIN CANAL CROSSING (C-102N) VIA H.D.D. AT OLD DIXIE HIGHWAY & NORTH OF SW 232 STREET

Description/Scope of Work: THIS PROJECT IS OF A CRITICAL NATURE AND TIME IS OF THE ESSENCE. The scope of work consists of trenchless construction of approximately 320 LF of 14-inch HDPE by HDD method
• **Location: The proposed work is under Canal C-102N culvert right-of-way under Old Dixie Hwy north of SW 232nd Street, at Section 14, Township 56 and Range 39.**

PARTICIPATION IS LIMITED TO PRE-QUALIFIED FIRMS UNDER RTQ-00298, TRENCHLESS TECHNOLOGY POOL.

Estimated Cost: 178667 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.
Old Dixie Hwy north of SW 232nd Street

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:Funding Source EW 621

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:Participation is limited only to Pre-Qualified Firms under RTQ-00298.

Date submitted to DBD: 03/12/2018

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, Manager
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: INSTALLATION OF 14" NOMINAL PIPE SIZE HDPE SEWAGE FORCE MAIN CANAL CROSSING (C-102N) VIA H.D.D. AT OLD DIXIE HIGHWAY & NORTH OF SW 232 STREET

Contract No.: S-919

Estimate Amount: \$ 178,667.50 [\$162,425.00 Construction + \$16,242.50 Contingency]

Funding Source: EW 621

"No Measure" Recommendation for Both SBE-Cons & SBE-G&S
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Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

THIS TRENCHLESS REHABILITATION PROJECT IS OF AN URGENT NATURE AND TIME IS OF THE ESSENCE. INVITATION TO BID ON THIS PROJECT SHALL BE TO FIRMS PREQUALIFIED UNDER RTQ-00298,

The project consists of completing the final design and furnishing and installing a 14" Nominal Pipe Size (DIPS OD) DR-11.0, PE 4710 HDPE pipe employing horizontal directional drilling method under Canal C-102N culvert right-of-way under Old Dixie Hwy north of SW 232nd Street, at Section 14, Township 56 and Range 39.

Additionally, the work consists of, including mobilization and demobilization, furnishing all material, labor and equipment necessary for the work of this project; completing design plans and calculations for directional drill pull; furnishing 14" Nominal Pipe Size (DIPS OD) DR-11.0, PE 4710 HDPE pipe; fusing HDPE pipe and testing prior to pull; constructing approximately 320 linear feet of directional drill; pressure testing installation to 100 psi; furnishing and installing transition piece with stainless steel stiffeners; making two cut-in connections; removal of approximately 130 linear feet of existing force main above the canal culvert and within the canal right-of-way; cutting and plugging the existing force main that is to remain in place; dewatering the existing force main that is to be removed; providing as-built record documents; milling, temporary and permanent pavement repairs, installing pavement markings and signing; and any other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

The means and methods utilized in this rehabilitation shall be proposed by the contractor and must meet the requirements established in the Performance Criteria Package (PCP). The PCP provides the desired performance characteristics of the subject force main at the end of the project to allow prospective bidders to develop their respective bid packages utilizing the most cost effective means and methods at their disposal.

NOTE, THE FOLLOWING REQUIREMENT FOR PARTICIPATION:

PARTICIPATION ON THIS SOLICITATION SHALL BE BY PRE-APPROVED BIDDERS UNDER RTQ-00298, TRENCHLESS PIPE INSTALLATION AND PIPE REHABILITATION SERVICES, GROUP 1.

CONSIDERATIONS FOR ANALYSIS:

1. This project involves the critical trenchless construction of a 12-inch sewage forcemain under the C-102N canal via horizontal directional drilling, which is a highly specialized trenchless technology construction method. The project is being bid out as a Performance Specification where the technology utilized to install the pipe will be up to the contractor and his professional engineer shall submit the design.
2. The force main being rehabilitated transverses under the C-102N canal culvert at SW 232 street, within the South Florida Water Management District's Right-of-Way. The construction of this project impact processing of all other Department permits from the SFWMD. (See attached correspondence.)
3. **Due to the nature of the work and lack of availability among Small Business Enterprise firms, a "No Measure" recommendation is being suggested by WASD.**

LICENSES: The types of licenses required are: General Contracting, 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, repair location will be completed in less than 30 days.

Analysis for SBE-Construction				
	Recommendation – No Measure			
Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	For performing preparatory work and operations in mobilizing for beginning the work of the Project	\$ 12,890	7.21	
2.	For furnishing and installing a 14" Nominal Pipe Size (DIPS OD) DR-11.0, PE 4710 HDPE pipe employing horizontal directional drilling method	\$ 85,000	47.57	
3.	For making connections to existing 12-inch DIP force main	\$ 10,000	5.60	
4.	For all permanent pavement and surface restoration	\$ 23,900	13.38	
4.	For roadway milling 1-inch	\$ 10,000	5.60	
4.	For furnishing traffic control	\$ 6,455	3.61	
4.	For providing Engineering Services by a Professional Engineer	\$ 14,180	7.94	
	SUB-TOTAL	\$ 162,425.00		
	Contingency (10%)	\$ 16,242.50	9.09	
	TOTAL FOR CSBE (Subtotal & Contingency)	\$ 178,667.50	100.00	

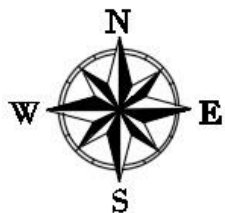
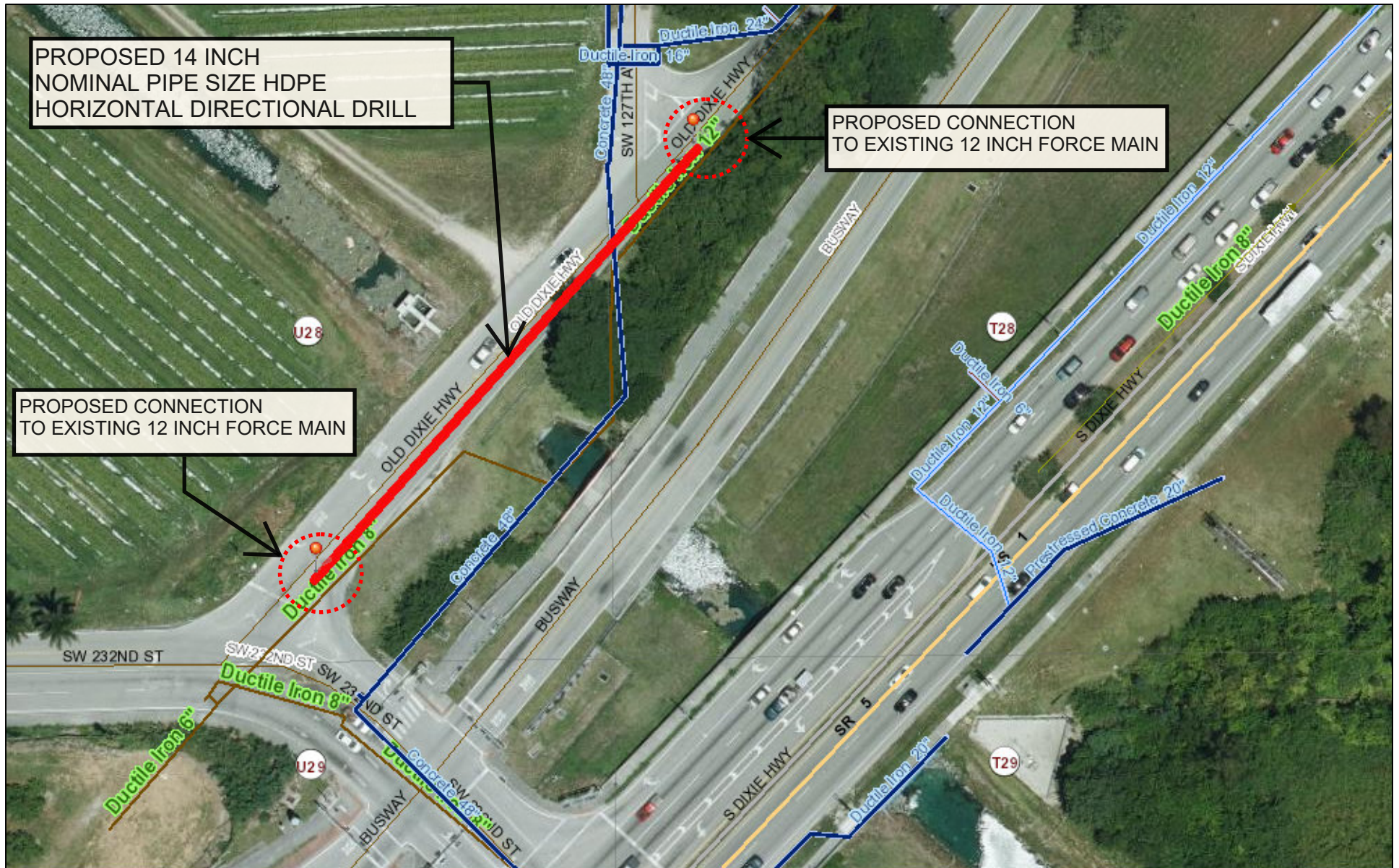
Small Business Enterprise – G&S
Recommendation – No Measure

CONSIDERATIONS FOR ANALYSIS:

1. This project involves rehabilitation of a gravity sewage main through the use of a highly specialized trenchless technology. The project is being bid out as a Performance Specification where the technology utilized to rehabilitate the pipe will be up to the contractor (Lowest cost for a system that meets all requirements of Performance Specification). These systems typically involve digging an entry and retrieval pit, line with steel sheet piling and a tremmie concrete bottom to provide a dry environment for the work.
2. 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 no opportunities for participation in this project.
3. Our recommendation for SBE-G & S “No Measure”.

Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: High Density Polyethylene	X		
2.	SERVICES HDD Engineering Design Trenchless Pipe Installation Maintenance of Traffic Pavement Restoration	X X	X X	

INSTALLATION OF 14" NOMINAL PIPE SIZE HDPE SEWAGE FORCE MAIN CANAL CROSSING (C-102N)
VIA HORIZONTAL DIRECTIONAL DRILL AT OLD DIXIE HIGHWAY & NORTH OF SW 232 STREET (PCTS 15684)



Project Location:
SFWMD Canal C-102N, SW 232 and Old Dixie Highway

Sec. 14, Twp. 56, Rge. 39
Commissioner Districts: 8
Unincorporated Miami-Dade County

