

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-916

*Reference corresponding project number when submitting a work order

Contract/Project Title: REHABILITATION OF 54-INCH PCCP FORCEMAIN ON WEST FLAGLER STREET FROM SW 78 PLACE TO METER STATION EAST OF SW 72 AVE

Description/Scope of Work: See Attached

Estimated Cost: 3289676 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.
On West Flagler Street between 781 Place and PS #187

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, Pipe Rehabilitation highly specialized work utilizing minimal workforce

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment ☒

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
Paving	\$	%	Trade Set-a-Side
Hauling	\$	%	Trade Set-a-Side
	\$	%	

RECOMMENDATION

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

Basis for Recommendation: This is a rehabilitation project involving the relining of an existing 54-inch force main. Project is being bid out under a performance specification, to prequalified Group 2 contractors under RTQ #00298, where means and methods will be determined by contractor. Recommend Trade Set-a-Side for paving and hauling as required.

Date submitted to DBD: _____

Contact Person: Isaac Smith

Telephone No.: 786-552-88989

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Sr. Program Manager
Miami-Dade Water and Sewer Department

Department: Miami-Dade Water and Sewer Department

Contract Title: REHABILITATION OF 54-INCH PCCP FORCEMAIN ON WEST FLAGER STREET FROM
SW 78 PLACE TO METER STATION EAST OF SW 72 AVE.

Contract No.: S-916

Estimate Amount: \$3,289,676.50 [\$2,990,615 Construction + \$299,061.50 Contingency]

Funding Source: EW 621, WASD Revenue Bonds Sold

Analysis for Recommendation SBE – CONS – Trade Set Aside #1 for Paving SBE – G/S – Trade Set Aside #2 for Hauling
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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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The project consists of rehabilitation and replacement of approximately 3,850 LF of existing underground 54" PCCP force main and approximately 220 feet of aboveground aerial 54" PCCP Force Main canal crossing. The work includes the following: bypassing, creating access pits, dewatering and interior cleaning of the force main; removing any protrusions and obstructions with potential impact to the lining operations; furnishing all material, labor and equipment necessary for the rehabilitation, relining or coating varying lengths of the force main with a material and methodology that will meet all pressure testing requirements stated in the Performance Criteria Package; furnishing all material, labor and equipment necessary for the removal and replacement of varying lengths of the force main; milling, installing pavement markings, signing, and temporary and permanent pavement repairs; and any other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

Bidders will be required as part of their bids to submit detailed design documentation prepared, signed and sealed by a professional engineer including design calculations demonstrating that the intended rehabilitation product or products meets or exceeds the requirements of this performance specification. The successful proposer will be required to have all submittals signed and sealed by a licensed State of Florida Professional Engineer prior to award.

The successful Bidder will prepare and submit design details for:

- Furnishing and installing complete slip line plans for the force main rehabilitation (or other trenchless method)
- Replacing/reconnecting pipe segments disturbed by the installation of access pits;
- Termination of rehabilitation materials;
- Restoring penetrations for pump station inlets, access manholes, air release valves;
- Rehabilitation of all 45 and 90 degree bends;
- Rehabilitation of the aerial 54-inch canal crossing.

NOTE: THIS PROJECT WILL BE BID OUT UNDER RTQ-00298 PRE-QUALIFICATION FOR TRENCHLESS TECHNOLOGIES, FOR COMPETITION AMONG ALL GROUP 2 BIDDERS.

CONSIDERATIONS FOR SBE-CONS ANALYSIS:

1. This project involves rehabilitation of a large diameter sewage force 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 and detailed cleaning of the force main with specialized equipment. Since all of this work is done in a confined space in the right-of-way (i.e. within the main), all personnel involved are specially trained to function in this environment.
2. As stated above, this is highly specialized pipe rehabilitation work. The only opportunity for SBE-Construction participation is in the roadway restoration of the pit areas used to access the pipe. On a more limited basis, hauling contractors may be required depending on the method proposed by the contractor.
3. **Therefore, this project is recommended for Trade Set Aside for paving and hauling.**

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, as each repair will completed in less than 30 days.

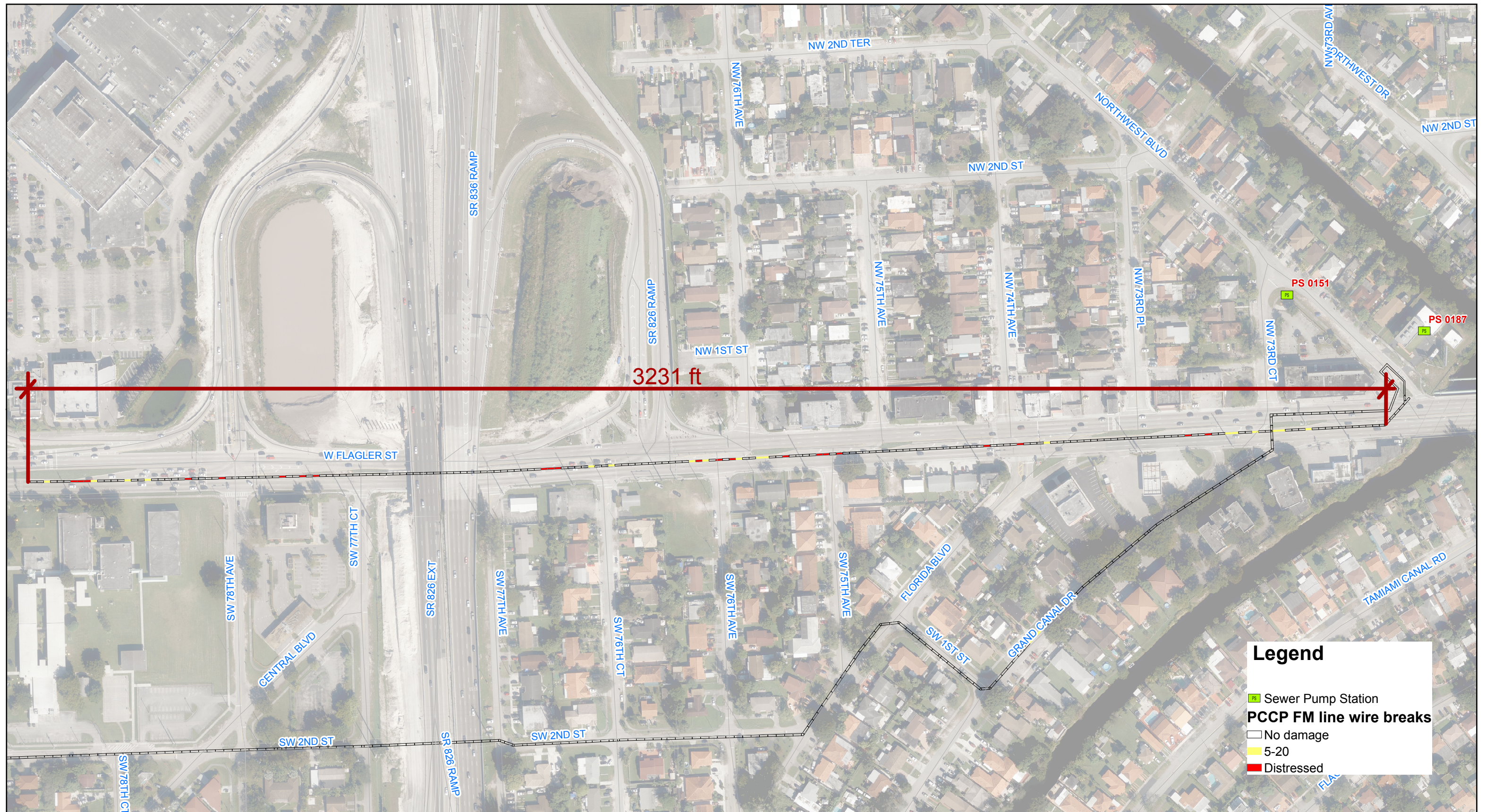
CONSIDERATIONS FOR SBE-G/S ANALYSIS:

1. This project involves rehabilitation of a large diameter sewage force 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, detailed cleaning of the force main with specialized equipment, and the installation of a slip liner or resin saturated liner. Since all of this work is done in a confined space in the right-of-way (i.e. within the main), all personnel involved are specially trained to function in this environment.
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 limited opportunities for participation in this project. The possible areas of subcontracting are in the area of Maintenance of Traffic, Pavement Marking, Milling, Pavement Restoration and Hauling (depending on the technology utilized).
3. Our recommendation is in the area of Services for providing Paving and Hauling for the project, thereby supporting the prior recommendation for Trade Set Aside (in the areas of paving and hauling).

Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: PCCP Fittings	X		
2.	SERVICES Pipeline Rehabilitation Pavement Markings Milling & Paving Trenchless Pipe Installation Maintenance of Traffic Hauling	X	 X X X X X	 X X

MIAMI-DADE WATER AND SEWER DEPARTMENT
MIAMI-DADE COUNTY
REHABILITATION OF 54-INCH PCCP FORCEMAIN ON W FLAGLER STREET
FROM SW 78TH PLACE TO SW 71ND AVENUE
CONTRACT NO. S-916

COST ESTIMATE								Bid Date:	
BIDDERS				ENGINEER'S ESTIMATE					
Item No.	Est. Quantity		Description	Unit Cost	Extended Value	Unit Cost	Bid Amount	Unit Cost	Bid Amount
1	1	Aggregate Sum	General Requirements: For performing preparatory work including setting up temporary facilities, preparing shop drawing submittals, supplies, materials, personnel, safety equipment and first aid supplies, etc.; including the costs of bonds, required insurance, and other preconstruction expenses; excluding the actual cost of permits, which are paid under a separate dedicated allowance excluding the costs of materials which are paid under other bid items, the aggregate sum of	\$ 264,000.00	\$ 264,000.00				
2	1	Aggregate Sum	Mobilization: Includes initial mobilization, site shifts, and all associated services for the duration of the project, the aggregate sum of	\$ 225,500.00	\$ 225,500.00				
3	1	Aggregate Sum	Maintenance of Traffic: including permitting, barricades, flagmen, etc.) for the aggregate sum of	\$ 35,000.00	\$ 35,000.00				
4	1	Aggregate Sum	For dewatering of 54-inch sewage force main (including transporting and disposal of waste material at WASD upstream manhole), the aggregate sum of	\$ 205,000.00	\$ 205,000.00				
5	1	Aggregate Sum	Pre and Post Construction CCTV Inspection, the aggregate sum of	\$ 41,600.00	\$ 41,600.00				
6	1	Aggregate Sum	For all system bypassing as required to allow for work at the target sites while maintaining services of those connected to the system. This includes all temporary trucking and hauling of flows that are unable to be re-routed within the system for the aggregate sum of	\$ 81,600.00	\$ 81,600.00				
7	1	Aggregate Sum	Construction of Access Points (pits) (Including excavation, sheet pile, dewatering, backfill and compaction, pavement restoration, sodding, new 54" PCCP, striping, etc.), the aggregate sum of	\$ 375,000.00	\$ 375,000.00				
8	1	Aggregate Sum	Pipe Lining with Designated Proposed Material (Product), the aggregate sum of	\$ 1,248,680.00	\$ 1,248,680.00				
9	1	Aggregate Sum	For cleaning, inspection and evaluation of the 54-inch aerial canal crossing, the aggregate sum of	\$ 38,440.00	\$ 38,440.00				
10	5	Each	Rehabilitate through or replace existing 54" - 90 Degree elbows, wye or tees, both horizontal and vertical	\$ 22,655.00	\$ 113,275.00				
11	2	Each	Rehabilitate thoroughly or replace existing 54"x45 Degree elbows, both horizontal and vertical	\$ 20,810.00	\$ 41,620.00				
12	7	Each	Remove and replace with new contractor furnished Air Relief Valves	\$ 7,350.00	\$ 51,450.00				
13	9	Each	Remove existing access manholes. Furnish and install new access manholes at locations shown on plans, or where directed by the Engineer in the files, complete as shown per Standard Details	\$ 22,650.00	\$ 203,850.00				
14	1	Aggregate Sum	Pressure Testing System, the aggregate sum of	\$ 54,600.00	\$ 54,600.00				
15	1	Aggregate Sum	Provide two days of inspector training for up to 10 inspectors per specification, the aggregate sum of	\$ 11,000.00	\$ 11,000.00				
16	1	Aggregate Sum	Miscellaneous Items (Please Specify):		\$ -				
17	1	Aggregate Sum	Miscellaneous Items (Please Specify):		\$ -				
18	1	Aggregate Sum	Miscellaneous Items (Please Specify):		\$ -				
19	1	Aggregate Sum	Miscellaneous Items (Please Specify):		\$ -				
20	Subtotal, the total of item Nos. 1 through 19, the sum of				\$2,990,615.00				
21	1	Dedicated Allowance	For all costs of required permits, fees, impact fees, inspections and tipping fees, if ordered by the Engineer, the sum of 2% of the Subtotal, Item 20, (0.02 X Subtotal Item 20)		\$59,812.30				
22	1	Contingency Allowance	For unforeseen conditions, for minor construction changes and for quantity adjustments, if ordered by the Engineer, the sum of 10% of the Subtotal, Item 20, (0.1 x Subtotal, Item 20)		\$299,061.50				
23	1	Contingency Allowance	For rehabilitation of approximately 210 feet of 54-inch aerial canal crossing by slip-lining or other approved trenchless method if ordered by the Engineer, the aggregate sum of		\$85,000.00				
23	The total of item Nos. 20, 21, 22 and 23 , the sum of				\$3,135,427.30				



MDWASD NOTICE

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