

**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 4.8 REHABILITATION OF 54-INCH PCCP FM FROM THE INTER. OF  
NW 11 ST. AND NW 37 AVE. TO THE INTER. NW 2 ST. AND NW 67 AVE.

Contract No.: S-899

Estimate Amount: \$21,679,408 [\$19,708,553 Construction + \$1,970,855 Contingency]

Funding Source: EW 658, WASD Revenue Bonds Sold

**Small Business Enterprise – Construction – TRADE SET ASIDE (Paving & Hauling)  
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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The project consists of rehabilitation of approximately 19,000 LF of the existing 54" prestressed concrete cylinder pipe (PCCP) force main. The work includes the following: bypassing, 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 and relining or coating varying lengths of the force main per the Performance Specification Guidelines for the Installation of Cured-In-Place Pipe (CIPP); 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.

The project begins at the intersection of NW 2<sup>nd</sup> Street and NW 67<sup>th</sup> Avenue and ends at the intersection of NW 11<sup>th</sup> Street and NW 37<sup>th</sup> Avenue. The force main being rehabilitated transits a combination of high density residential and commercial property along the route shown below.

**NOTE: THIS PROJECT WILL BE BID OUT UNDER RTQ-00298 PRE-QUALIFICATION FOR TRENCHLESS TECHNOLOGIES, IF AVAILABLE. IF THIS PRE-QUALIFICATION IS NOT IN PLACE, THIS PROJECT WILL BE BID THROUGH THE STANDARD CONSTRUCTION CONTRACTING PROCESS.**



## **CONSIDERATIONS FOR 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 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. 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.**



Miami-Dade Water and Sewer Department  
 CD Project #: 4.8, PCTS #: 13157  
 Planning Level Opinion of Probable Cost (OPC)

Rehabilitation of 54-Inch PCCP Force Main from NW 2nd Street / 67th Avenue to NW 11th Street / 37th Avenue

Item	Description	Qty	Units	\$/Units	PMCM Total
A	Rehabilitate 54" PCCP (WASD estimate)	10,560	L.F.	\$ -	\$ -
1	Furnish & Install 54-Inch CIPP (includes cleaning, dewatering and by-pass if req'd.)	20,000	L.F.	\$ 670.00	\$ 13,400,000
2	54-Inch 90° Bend	6	E.A.	\$ 35,948.00	\$ 215,688
3	54-Inch 45° Bend	4	E.A.	\$ 33,310.00	\$ 133,240
4	72" Micro Tunnel with 54" DIP carrier pipe, including pits at NW 57th Avenue (SR 87062)	200	LF	\$ 4,250.00	\$ 850,000
	Acceleration contingency		25%		\$ 3,649,732
<b>SUB-TOTAL 1</b>					<b>\$ 18,248,660</b>
5	Furnish Traffic Control, (3% of Subtotal #1) Complete (including off-duty Police Officer)		Aggr. Sum (Divided four payments)		\$ 547,460
6	Mobilization and demobilization estimated 5% of Sub-Total 1.		Aggr. Sum		\$ 912,433
<b>Construction Bid Amount SUB-TOTAL 2</b>					<b>\$ 19,708,553</b>
7	For Unforeseen conditions for minor construction changes and for quantity adjustments, if ordered by the engineer		Allowance Acc. (10%)		\$ 1,970,855
<b>SUB-TOTAL 3</b>					<b>\$ 21,679,408</b>

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2. The Department has evaluated the project for possible opportunities for participation in the area of SBE – Goods and Services. The work consists of the rehabilitation of approximately 19,000 linear feet of 54-inch sewage force main by utilizing highly specialized trenchless technology. The project also involves a trenchless pipe crossing under a State Road. Based on the scope and nature of the work, we have concluded that are limited opportunities for participation in this project. The possible areas of subcontracting are in the area of Micro-Tunneling, 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).

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	<b>GOODS:</b> PCCP Fittings 72-Inch Casing	X X X		
2.	<b>SERVICES</b> Pipeline Rehabilitation Pavement Markings Milling & Paving Trenchless Pipe Installation Maintenance of Traffic Hauling	X	X X X X X	X X