

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.: P0213

*Reference corresponding project number when submitting a work order

Contract/Project Title: One-Year County-Wide Contract for Rehabilitation of Manholes, Inflow and Infiltration Repair, RPO# P0213

Description/Scope of Work: See Attached

Estimated Cost: 944242 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.
Countywide, throughout Miami-Dade County

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
Construction	\$108,287.85	11.50%	
G & S	\$	0%	
	\$	0%	

RECOMMENDATION

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

Basis for Recommendation: In general, the project consists of furnishing all labor, material and equipment for rehabilitation of approximately 500 manholes anywhere within the limits of Miami-Dade County, Florida, as ordered by the Department during a one year period. The work shall be executed on existing sanitary sewer structures that are in service but expereincing inflow and/or infiltration. Prior to rehabilitation, contractor shall drill through the structure and inject chemical grout to seal the manhole.

Date submitted to DBD: 05/08/18

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: One-Year County-Wide Contract for Rehabilitation of
Manholes, Inflow and Infiltration Repair

Contract No.: RPQ# P0213

Estimate Amount: \$944,242.20 [\$858,402.00 Construction + \$85,840.20 Contingency]

Funding Source: WASD Operating Revenues

Small Business Enterprise – Construction – 11.50% Analysis for Recommendation (Attached)

Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

The Project consists of furnishing all labor, material and equipment for rehabilitation of approximately 500 manholes anywhere within the limits of Miami-Dade County, Florida, as ordered by the Department during a one year period. The work of the manhole rehabilitation shall include, but not be limited to, furnishing and installing concrete protective coating; high pressure cleaning; pre-resurfacing and post-rehabilitation video inspection; surface preparation; sealing leaks with chemical injection grout by drilling thru the manhole; sand blasting, if required; concrete repair and restoration; restoring manhole to the original shape or as otherwise approved by the Engineer; grouting voids; cleaning and restoring exposed reinforcing; applying cement underlayment; restoring manhole bench and flow channels; removing broken steps and repairing holes in manholes with broken steps; rehabilitate underside of flat-top manholes; replace misaligned, broken or missing frame seals; furnishing and installing plugs, thru plugs and thru pipe as required; bypass pumping of sewage, if necessary; traffic control; legal disposal of debris; furnishing and utilizing all required safety equipment; and all other miscellaneous and appurtenant work for a complete manhole rehabilitation.

QUALIFICATIONS OF BIDDERS:

The Contractor shall have completed a minimum of 150 manhole rehabilitations or similar structures within the past 10 years. Verifiable references are required with Project Name, Organization Name, Contact Person, Phone Number, Date of Work and Work Performed. Submit experience history with references on the two most recent Contracts along with the bid. The work shall have been completed with the Contractor's own forces or key personnel.

The experience of key senior personnel with other firms may be counted toward 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 low bidder will be considered for award.

In the event a firm consists of executives, supervisors and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, the Miami-Dade Water and Sewer Department reserves the right to qualify the firm based on WASD's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm.

LICENSES: The types of licenses required are: General Engineering, Pipelines Engineering Contractor, Underground Utility and Excavation 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, each repair will be completed in less than 30 days.

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1	For rehabilitation of deteriorated manholes where structure is repaired to greater than 2.0-inches in depth, to include cleaning, surface preparation, concrete restoration and installing concrete protective coating (no steel replacement), the price per square foot of	\$18,200.00	1.93%	0.50%
2	For rehabilitation of deteriorated manholes where structure is repaired to greater than 2.0-inches in depth, to include repairing corroded steel within manholes at locations determined by the Engineer, cleaning, surface preparation, concrete restoration and installing concrete protective coating, the price per square foot of	\$2,900.00	0.310%	0.15%
3	For the rehabilitation of deteriorated manholes where the structure is repaired in the range of 0.51-inch to 2.0-inches in depth, to include cleaning, surface preparation, concrete restoration and installing concrete protective coating, the price per square foot of	\$500,000.00	52.95%	6.25%
4	For the rehabilitation of deteriorated manholes identified as minimally corroded, where the structure is repaired less than 0.50-inches in depth), cleaning surface preparation, concrete patching and installing concrete protective coating, the price per square foot of	\$11,952.00	1.27%	0.60%
5	For cost of sealing leaks by drilling through the manhole structure and filling the underground void with a chemical injection grout, the price per each manhole of	\$25,500.00	2.70%	
6	For rehabilitation of manholes base, bench including the surface preparation and coating, the price per square foot of	\$42,000.00	4.45%	1.5%
7	For repairing manholes base, bench with rebuilding of channels to include surface preparation, removal and legal disposal of debris, forming new channel and coating, the price per square foot	\$72,000.00	7.63%	2.5%
8	Supplemental costs for performing rehabilitation work on the manholes with exposed brick, the supplemental price per exposed brick manhole of	\$22,100.00	2.34%	
9	Supplemental costs of removing steps and sealing holes in manholes with broken steps, the supplemental price per steps removed in each manhole of	\$7,500.00	0.79%	

10	Supplemental costs for realigning seal frame in manholes that are broken or misaligned, the supplemental price per frame repaired in each manhole of	\$14,000.00	1.48%	
11	Supplemental costs for additional work required in rehabilitating underside of flat top manholes, the supplemental price per each repaired manhole of	\$6,000.00	0.64%	
12	For supplemental cost in manhole repairs in residential backyard easements to include all additional costs for logistics, accessibility and other required work, the price per lot (paid only once independent of quantity of crew duration)	\$16,000.00	1.69%	
13	Supplemental costs for performing rehabilitation work on access manholes above sewage interceptors (24-inches or larger mains)	\$51,000.00	5.40%	
14	For a pre and post-work video inspection of manholes	\$25,000.00	2.65%	
15	Supplemental cost for removal and legal disposal of existing lining materials from manholes	\$23,250.00	2.46%	
16	Furnish Traffic Control for the project, complete, the aggregate sum of	\$8,000.00	0.85%	
17	For bypass pumping of sewage manholes with gravity systems of 8-inches and larger, the price per manhole bypass of	\$5,000.00	0.53%	
18	For repair of an existing manhole with a fiberglass insert (the cone shall be removed and reinstalled by the Department forces), the price per vertical foot of	\$8,000.00	0.85%	
19	SUB-TOTAL, SUM OF ITEMS #1 – 18 >>>>>>	\$858,402.00		
20	Contingency allowance for unforeseen conditions, minor construction changes & quantity adjustments (10% of Sub-Total) >>	\$85,840.20	9.09%	
21	SBE-TOTAL, SUM OF ITEMS 19 AND 20	\$944,242.20	100%	11.50%

**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

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Funding Source: WASD Operating Revenues

Small Business Enterprise – “No Measure” Analysis for Recommendation (Attached)
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Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

In general, the project consists of furnishing all labor, material and equipment for rehabilitation of approximately 500 manholes anywhere within the limits of Miami-Dade County, Florida, as ordered by the Department during a one year period.

This is a non-exclusive contract, and as such, the Department does not guarantee that the full amount of the Contract will be issued to the Contractor. The actual amount of Work Orders assigned will be the prerogative of the Department in its sole discretion and dependent only upon its needs.

CONSIDERATIONS FOR ANALYSIS:

1. The main element of the project includes the rehabilitation of manholes that are experiencing inflow and infiltration conditions.
2. The work shall be executed on existing sanitary sewer structures. The extent of the rehabilitation shall be established in the field after the structure has been high pressure cleaned and televised.
3. It is required that active leaks be treated as part of the repair. The contractor shall drill through the structure and inject chemical grout to seal the manhole.
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 no opportunities for participation on this project.

