

## SBD - CM Review Form

<b>To:</b>	Project Review & Analysis - Construction		
<b>From:</b>	SBD Engineer - Eric Perez		
<b>Department:</b>	Miami Dade Water & Sewer Department	<b>Contact:</b>	Paul Adams
<b>Date:</b>	10/10/2022	<b>Resubmittal:</b>	

<b>PROJECT NUMBER:</b>	S-984
<b>PROJECT TITLE:</b>	Water and Wastewater Services to Commercial Properties - Green Tech Corridor – Basin S-2, Phase 1, East Side of NW 27th Avenue
<b>PROJECT LOCATION:</b>	Miami- Dade County

<b>SCOPE OF WORK/DESCRIPTION:</b>	1. This project involves installation of a ductile iron water main including service and sanitary sewer collection system, including precast manholes. 2. The project involves the construction of gravity sanitary sewer at deep cut depths and the installation of precast manholes, which require the use of large equipment and capable of deeper trench installation. 3. The work also includes the installation of water main and connections of existing water main.
<b>LICENSES:</b>	1. 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.

**SPECIAL REQUIREMENTS:** 1. In addition to the license requirements, the Bidder must have a minimum of three (3) years of experience, under its current business name (which can include the experience of key supervisory employees that would man the project), in the construction of roadway/ horizontal projects of similar scope and scale involving public right-of-way construction/ installation/ repair/ replacement of water main distribution systems and/or sanitary sewer main collection systems, and maintenance of vehicular traffic, supported by references for three (3) projects completed within the past five (5) years. Submitted reference Projects must demonstrate that the Bidder served as the Prime Contractor for the referenced Projects provided.

2. The Bidder must demonstrate that it has full-time personnel with the necessary experience to perform the Project's Scope of Work. This experience shall include work in successfully completed projects performed

by the identified personnel whose bulk of work performed in the public right-of-way is similar in detail to the Project's Scope of Work described in these Solicitation Documents. Demonstrate the experience requirement by:

a. Providing a detailed description of at least at least three (3) projects similar in detail to the Project's Scope of Work described in these Solicitation Documents and in which the Bidder's identified personnel is currently engaged or has completed within the past five (5) years. List and describe the aforementioned projects and state whether the work was performed for the County, other government clients, or private entities.

For each project listed, the pipe installation shall have been completed and accepted by the project owner prior to the bid submittal date.

The description must identify for each project:

- 1) The identified personnel and their assigned role and responsibilities for the listed project
- 2) The client name and address including a contact person and phone number for reference
- 3) Description of work
- 4) Total dollar value of the contract
- 5) Contract duration
- 6) Statement or notation of whether Bidder's referenced personnel is/was employed by the prime contractor or subcontractor, and
- 7) For completed projects, provide letters of certification of final acceptance or similar project closure documentation issued by the client and available Contractor's performance evaluations.

3. The County reserves the right to request additional information and/or contact listed persons pertaining to bidder's experience.

This Project might be considered a multiple trade project. None of the primary trade related work shall be subcontracted. Only ancillary work required to complete this Project may be subcontracted with prior approval from the Department.

In the event a firm is established by executives, supervisors, and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, OWNER reserves the right to qualify the firm based on OWNER's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm. The experience of key senior personnel with other firms may be counted towards 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 lowest bidder will be considered for award. The qualifying proof shall be submitted in a separate sealed envelope with the bid.

TRADES/SUBTRADES	AMOUNT		COMMENTS
General Contractor/ General Engineering Contractor/Pipelines			

TRADES/SUBTRADES	AMOUNT		COMMENTS
For performing preparatory work and operations in mobilizing for beginning the work of the Project, including preparation and acceptance of MOT	\$325,000.00		*Possible opportunities for Small Businesses
For furnishing and delivering to the Department 16-inch zinc-coated ductile iron pipe and fittings for water main	\$333,600.00		
For installing 16-inch zinc-coated ductile iron pipe and fittings for water main	\$236,300.00		
For furnishing and delivering to the Department 12-inch zinc-coated ductile iron pipe and fittings for water main	\$8,280.00		
For installing 12-inch zinc-coated ductile iron pipe and fittings for water main	\$7,200.00		
For furnishing and delivering to the Department 8-inch zinc-coated ductile iron pipe, fittings and valves for water main	\$23,400.00		
For installing 8-inch zinc-coated ductile iron pipe, fittings and valves for water main	\$25,200.00		
For furnishing and delivering to the Department 6-inch zinc-coated ductile iron pipe, fittings and valves for water main	\$4,550.00		
For installing 6-inch zinc-coated ductile iron pipe, fittings and valves for water main	\$4,550.00		
For furnishing and delivering to the Department 4-inch ductile iron pipe, fittings and valves for water main	\$900.00		
For installing 4-inch zinc-coated ductile iron pipe, fittings and valves for water main	\$1,000.00		
For furnishing and delivering to the Department 16-inch mechanical joint resilient seated gate valves for water main, complete	\$33,750.00		
For installing 16-inch M. J. resilient seated gate valve. Complete valve box, lid and riser pipe.	\$10,800.00		
For furnishing and delivering to the Department fire hydrant assemblies with guard posts	\$38,500.00		
For installing fire hydrant assemblies with guard posts, complete	\$17,500.00		
For removing and salvaging existing fire hydrant assemblies with elbow/shoe and guard posts, complete	\$500.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
For furnishing and installing 1-inch single service short, including reconnection of customer's service pipe and meter transfer, complete	\$2,500.00		*Possible opportunities for Small Businesses
For furnishing and installing 1-inch single service long, including reconnection of customer's service pipe and meter transfer, complete	\$2,500.00		
For furnishing and installing 1-inch dual service short, including reconnection of customer's service pipe and meter transfer, complete	\$22,500.00		
For furnishing and installing 2-inch single service long, complete	\$5,000.00		
For constructing Flushing Valve Outlet Assemblies (FVOs) at the locations shown on the plans, complete	\$10,000.00		
For constructing Air Release Valve Assemblies (ARVs) for water mains at the locations shown on the Plans, complete	\$12,500.00		
For trench overcut in 1-foot depth increments, for any size pipe	\$12,240.00		
For sheeting and shoring ordered left in place by the Engineer	\$21,840.00		
For removal, transport and legal disposal of excess suitable backfill, unsuitable backfill and debris, including tipping fees, required by construction of the work.	\$2,160.00		
For furnishing and installing additional suitable backfill material, as directed by the Engineer	\$35,700.00		
For replacing traffic detection loop assemblies, complete	\$50,400.00		
For restoring sodded area	\$3,240.00		
For furnishing and delivering to the Department standard pre-cast concrete manholes with frames and covers, 0-6 feet deep	\$15,000.00		
For installing standard pre-cast concrete manholes, 0-6 feet	\$13,500.00		
For furnishing and delivering to the Department standard pre-cast concrete manholes with frames and covers, 6-8 feet deep	\$13,800.00		
For installing standard pre-cast concrete manholes, 6-8 feet	\$36,000.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
For furnishing and delivering to the Department standard pre-cast concrete manholes with frames and covers, 8-10 feet deep	\$33,000.00		
For installing standard pre-cast concrete manholes, 8-10 feet	\$36,000.00		
For furnishing and delivering to the Department standard pre-cast concrete manholes with frames and covers, 10-12 feet deep	\$16,500.00		
For installing standard pre-cast concrete manholes, 10-12 feet	\$18,000.00		
For furnishing and delivering to the Department standard pre-cast concrete manholes with frames and covers, 12-14 feet	\$22,000.00		
For installing standard pre-cast concrete manholes, 12-14 feet	\$24,000.00		
For sell and delivering to the Department standard 8-inch zinc-coated ductile iron	\$480,360.00		
For installing 8-inch ductile iron gravity sewer pipe and fittings for depths of 6 feet to 8 feet	\$95,400.00		
For installing 8-inch ductile iron gravity sewer pipe and fittings for depths of 8 feet to 10 feet	\$186,000.00		
For installing 8-inch ductile iron gravity sewer pipe and fittings for depths of 10 feet to 12 feet	\$52,080.00		
For installing 8-inch ductile iron gravity sewer pipe and fittings for depths of 12 feet to 14	\$15,470.00		
For sell and delivering to the Department standard 10-inch zinc-coated ductile iron	\$47,680.00		
For installing 10-inch ductile iron gravity sewer pipe and fittings for depths of 6 feet to 8	\$71,520.00		
For sell and delivering to the Department standard 15-inch PVC	\$62,400.00		
For installing 15-inch PVC (C900) gravity sewer pipe and fittings for depths of 12 feet to 14	\$104,000.00		
For furnishing and delivering to the department 6-inch P.V.C. and fittings	\$65,100.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
For installing 6-inch P.V.C. and fittings complete with cleanout and lids	\$108,500.00		*Possible opportunities for Small Businesses
For making pipe connections to existing MH-6 at NW 84th St.	\$1,800.00		
For furnishing traffic control	\$211,954.32		
Additional supplement cost for installing 16-inch ductile iron pipe, valves, fittings	\$88,000.00		
For removal, transport and legal disposal of excess excavated materials determined to be contaminated	\$3,000.00		
For furnishing and installing additional suitable backfill material for pipe bedding	\$2,160.00		
Pipelines Tapping Specialist			
For making tapping connections to existing 16-inch water mains at: NW 27 Ave. (STA 34+28±) including furnishing and installing tapping sleeves (stainless steel) and tapping valves, as shown on the Plans, complete	\$14,500.00		
For making tapping connections to existing 8-inch water mains at: NW 87 St. (STA 63+10±) NW 87 St. (STA 76+60±) including furnishing and installing tapping sleeves (stainless steel) and tapping valves, and cutting and capping existing main(s), as shown on the Plans, complete	\$22,000.00		
For removing existing plugs and connecting to existing 16-inch water mains at: NW 27 Ave. STA. 25+56 NW 27 Ave. STA. 31+44.0 including furnishing and installing all fittings necessary for connections, and cutting and capping existing main(s), as shown on the Plans, complete	\$6,000.00		
For making cut-in connections to existing 6-inch water mains at: NW 88 St. STA. 49+28 NW 88 St. STA. 50+54.3 including furnishing and installing all fittings necessary for connections, as shown on the Plans, complete	\$4,000.00		
Structural/Concrete			

TRADES/SUBTRADES	AMOUNT		COMMENTS	
For constructing 8-inch reinforced concrete protective slab, per Department Standard Detail GS 1.2, in areas of low ground cover, as ordered by the Engineer	\$1,520.00			
Paving/Site Prep				
For constructing limerock base for Type "I" permanent pavement repairs	\$36,960.00		*Possible opportunities for Small Businesses	
For constructing Type "I" asphaltic concrete surface course permanent pavement repairs	\$46,200.00			
For constructing limerock base for Type "II" permanent pavement repairs	\$98,750.00			
For constructing Type "II" asphaltic concrete surface course permanent pavement repairs	\$205,400.00			
For cold milling roadway surface course for permanent pavement repairs (nominal 1 inch thick) (area as shown on	\$61,830.00			
For constructing Type "V" permanent pavement repairs for roadway (nominal 1 inch thick)	\$103,050.00			
For cold milling FDOT roadway surface course for permanent pavement repairs (nominal 1-1/2 inch thick) (area as shown on Plans)	\$117,168.00			
For constructing Type "V" permanent pavement repairs for FDOT roadway (nominal 1-1/2 inch thick machine-laid asphaltic concrete wearing surface overlay Friction Course 9.5 with rubber), (area as shown on Plans)	\$156,224.00			
For replacing pavement markings damaged, removed or obliterated by the Contractor's operation	\$55,000.00			
For furnishing and installing V-Bio polyethylene encasement for any size ductile iron fitting, valve, or mechanical joint restraint	\$45,450.00			
For constructing concrete sidewalk restoration to match existing	\$62,400.00			*Possible opportunities for Small Businesses
For constructing concrete curb and gutter restoration to match existing	\$43,200.00			*Possible opportunities for Small Businesses
<b>BASE TOTAL</b>	\$4,164,486.32	83.11%		
Contingency Allowance (10% of Base Estimate)	\$416,448.63	8.31%		
Dedicated Allowance (industrial hygenist, police, permits)	\$429,934.59	8.58%		
<b>TOTAL AMOUNT</b>	\$5,010,869.54	100.00%		

TRADES/SUBTRADES	AMOUNT		COMMENTS
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Small Business Development Signature: Eric Perez Date: 10/24/2022

**\*Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM**

**WASD is recommending 10.89%**