

**SBD – CM REVIEW FORM**

**To:** Business Opportunity Support Division - **Construction**  
**From:** SBD CM – Vivian Forhat-Diaz  
**Department:** WASD **Contact:** Patty David  
**Date:** 02/18/14 **RESUBMITTAL:** No

**PROJECT NUMBER:** DB14-WASD-01  
**PROJECT TITLE:** Design-Build Services for Replacement/Rehabilitation of 72-Inch Sanitary Sewer Force Main along Northwest/Northeast 159th Street between Northwest 17th Avenue and Northeast 10th Avenue.  
**PROJECT LOCATION:** NW 159<sup>th</sup> Street between NW 17<sup>th</sup> Ave & NE 10<sup>th</sup> Ave.

- SCOPE OF WORK/DESCRIPTION:** Includes all permitting and supervision, labor, material, and equipment for the:
- Removal and salvage of the existing 60-inch inline valves and Installation of two (2) new 60-inch inline valves along NW 159<sup>th</sup> St.
  - Reconfigure or shutdown of Booster Pump Station 1310, to allow discharge towards the suction header of Booster Pump Station 300. Pump Station 300 is to be evaluated to confirm ability to receive Design-Builder's proposed flow (based on his construction approach) and if necessary reconfigure to receive the additional flow from Booster Pump Station 1310;
  - Installation of 8-inch temporary bypass for the existing North Miami Beach 8-inch force main connection to the existing 72-inch force main located at the intersection of NW 16<sup>th</sup> Ct. with NW 155<sup>th</sup> Ter.
  - Installation of 8-inch temporary bypass for the existing City of North Miami 8-inch force main connection to the existing 72-inch force main located at the intersection NW 2<sup>nd</sup> Ave. with NW 159<sup>th</sup> St.
  - Installation of 16-inch temporary bypass for the existing WASD 16-inch force main connection to the existing 72-inch force main located at the intersection of North Miami Ave. with NW 159<sup>th</sup> St.
  - Cure in Place Pipe (CIPP) application to approximately 6,400 linear feet of Class IV fully structural, (act as a separate pipe with the existing pipe acting as merely a right-of-way for the installation), between North Miami Ave. & NE 10<sup>th</sup> Ave.
  - Slip lining with high density polyethylene (HDPE) application to approximately 8,860 linear feet of Class IV fully structural (act as a separate pipe with the existing pipe acting as merely a right-of-way for the installation) continuous between NW 17<sup>th</sup> Ave. & North Miami Ave.
  - Open cut construction to approximately 1,800 linear feet to install a 60-inch pipe installation to interconnect slip lining operations between NW 17<sup>th</sup> Ave. & NE 2<sup>nd</sup> Ave

**SPECIAL REQUIREMENTS: Lead Contractor:** Must demonstrate related minimum project experience within the last 10 years, including projects that are at least 50% complete; **Lead Contractor** may qualify for one (1) or more of the following minimum requirements: If performing the Cure In Place Pipe (CIPP) work, must have constructed at least two (2) CIPP projects consisting of Class IV fully structural for pressure pipe, one of which was a minimum of 1000 linear feet and a minimum 48-inch internal diameter; If performing the pit/shaft construction, shall have constructed at least two (2) pits/shafts that were each at least 15-foot deep (below grade); If performing the installation of the continuous slip lining, must have constructed at least two (2) continuous slip lining projects with Class IV fully structural fusible high density polyethylene (HDPE) for pressure pipe, one of which was a minimum of 1000 linear feet, and a minimum 48-inch internal diameter; If performing the open cut installation of 60-inch pipe, shall demonstrate having performed two (2) projects utilizing the open cut method with pipe of minimum 48-inches inside diameter, including one for a total installed length of at least 1,000 linear feet.

**Design-Builder:** Must demonstrate related minimum project experience within the last 10 years, including projects that are at least 50% complete; shall demonstrate that it has performed and/or managed as a Prime contractor or Design-Builder the construction of at least two (2) pipeline rehabilitation projects, one of which was a minimum length of 1000 linear feet with a minimum 48-inch diameter. Design-Builder may also qualify for any of the Lead Contractor or Lead Designer requirements. Design-Build Team includes a firm having demonstrated experience with one (1) project of tapping into an operating sewer system pipe, of reasonably similar size and type.

TRADES/SUB-TRADES	Amount	COMMENTS
		<b>PRIME</b>
Open Cut Pipe Installation	\$1,614,000.00	Primary scope of work includes all line items noted. Must meet special requirements mentioned above. *Possible Subcontracting opportunities
Pits/Shaft Construction	\$960,000.00	
Slip lining	\$5,091,050.00	
Cure In Place (CIPP)	\$7,975,000.00	

Small Business Development Signature: Vivian Forhat-Diaz Date: 02/21/14.

**\*Trades/Sub-trades identified for possible subcontracting opportunities by SBD – CPM**  
**WASD is recommending 10% goal CSBE participation**

Project No. DB14-WASD-01 (Continuation)

TRADES/SUB-TRADES	Amount	COMMENTS
		General Engineering Contractor
Mobilization & Restoration	\$1,015,230.00	*Possible Subcontracting opportunities
		Underground Utility Contractor
Utility Relocation	\$395,450.00	*Possible Subcontracting opportunities
<b>Total Base Construction Cost</b>	<b>\$17,050,730.00</b>	
<b>Contingency Allowance (5% of Base)</b>	<b>\$852,536.50</b>	
<b>Sub-Total</b>	<b>\$17,903,266.50</b>	
<b>Dedicated and Other Allowances</b>		
Dedicated Allowance	\$600,000.00	
Permitting Fees (3%)	\$511,522.00	
<b>Total Construction Cost</b>	<b>\$19,014,788.50</b>	

WASD is recommending 10% goal CSBE participation



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**Department:** WASD

**Date:** 02/18/14

**Contact:** Patty David

**RESUBMITTAL:** No

**PROJECT NUMBER:** DB14-WASD-01

**PROJECT TITLE:** Design-Build Services for Replacement/Rehabilitation of 72-Inch Sanitary Sewer Force Main along Northwest/Northeast 159th Street between Northwest 17th Avenue and Northeast 10th Avenue.

**PROJECT LOCATION:** NW 159<sup>th</sup> Street between NW 17<sup>th</sup> Ave & NE 10<sup>th</sup> Ave.

**SCOPE OF WORK/DESCRIPTION:** Provide Engineering, design, testing and commissioning services for the implementation of the Replacement/Rehabilitation of the 72-Inch Sanitary Sewer Force Main along NW/NE 159<sup>th</sup> St. between NW 17<sup>th</sup> Ave. and NE 10<sup>th</sup> Ave. The design services rendered by the Design-Builder shall result in a complete, functional, and operable piping project with a minimum 80 year design life. The Project shall consist of the following main elements:

- Removal and salvage of the existing 60-inch inline valves and Installation of two (2) new 60-inch inline valves along NW 159<sup>th</sup> St.
- Reconfigure or shutdown of Booster Pump Station 1310, to allow discharge towards the suction header of Booster Pump Station 300. Pump Station 300 is to be evaluated to confirm ability to receive Design-Builder's proposed flow (based on his construction approach) and if necessary reconfigure to receive the additional flow from Booster Pump Station 1310;
- Installation of 8-inch temporary bypass for the existing North Miami Beach 8-inch force main connection to the existing 72-inch force main located at the intersection of NW 16<sup>th</sup> Ct. with NW 155<sup>th</sup> Ter.
- Installation of 8-inch temporary bypass for the existing City of North Miami 8-inch force main connection to the existing 72-inch force main located at the intersection NW 2<sup>nd</sup> Ave. with NW 159<sup>th</sup> St.
- Installation of 16-inch temporary bypass for the existing WASD 16-inch force main connection to the existing 72-inch force main located at the intersection of North Miami Ave. with NW 159<sup>th</sup> St.
- Cure in Place Pipe (CIPP) application to approximately 6,400 linear feet of Class IV fully structural, (act as a separate pipe with the existing pipe acting as merely a right-of-way for the installation), between North Miami Ave. & NE 10<sup>th</sup> Ave.
- Slip lining with high density polyethylene (HDPE) application to approximately 8,860 linear feet of Class IV fully structural (act as a separate pipe with the existing pipe acting as merely a right-of-way for the installation) continuous between NW 17<sup>th</sup> Ave. & North Miami Ave.
- Open cut construction to approximately 1,800 linear feet to install a 60-inch pipe installation to interconnect slip lining operations between NW 17<sup>th</sup> Ave. & NE 2<sup>nd</sup> Ave.

**SPECIAL REQUIREMENTS:** Lead Designer must hold Technical Categories 6.01 and 16.00, and must demonstrate related minimum project experience within the last 10 years, including projects that are at least 50% complete. Lead Designers may qualify for one (1) or more of the following minimum requirements: If designing the Cure In Place Pipe (CIPP), Lead Designer must have designed at least two (2) CIPP projects consisting of Class IV fully structural for pressure pipe, one of which was a minimum of 500 linear feet and a minimum 48-inch internal dia.; If designing of the continuous slip lining, Lead Designer must have designed at least two (2) with Class IV fully structural fusible HDPE for pressure pipe, one of which was a minimum of 500 linear feet and a minimum 48-inch internal diameter; If designing the open cut installation of 60-inch pipe, the Lead Designer must have designed at least two (2) projects utilizing the open cut method with pipe of minimum 48-inches inside diameter, including one for a total installed length of at least 1,000 linear feet; If designing for the pits/shaft, shall have designed one (1) deep pit/shaft project to support a rehabilitation operation of at least 15-foot deep (below grade).

**Design-Builder:** Design-Builder: Must demonstrate related minimum project experience within the last 10 years, including projects that are at least 50% complete; shall demonstrate that it has performed and/or managed as a Prime contractor or Design-Builder the construction of at least two (2) pipeline rehabilitation projects, one of which was a minimum length of 1000 linear feet with a minimum 48-inch diameter. Design-Builder may also qualify for any of the Lead Constructor or Lead Designer requirements.

CATEGORIES	Percentage	COMMENTS
		<b>PRIME</b>
6.01 Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems	38%	Must meet special Requirements. * Possible Small Business Participation
16.00 General Civil Engineering	15%	

Small Business Development Signature: *Vivian Forhat-Diaz* Date: 02/21/14.

\*Technical Categories identified for possible Small Business participation by SBD – CPM

WASD is recommending 25% goal CBE participation

Project No. DB14-WASD-01 (Continuation)

CATEGORIES	Percentage	COMMENTS
		SUB-CONSULTANTS
9.01 Soils, Foundations and Material Testing – Drilling, Subsurface Investigation and Seismographic Services	2%	*Possible Subcontracting opportunities
9.02 Soils, Foundations and Material Testing – Geotechnical and Material Engineering Testing	2%	
9.03 Soils, Foundations and Material Testing – Concrete and Asphalt Testing Services	1%	
9.04 Soils, Foundations and Material Testing – Non Destructive Testing and Inspection	1%	
10.05 Environmental Engineering – Contamination Assessment and Monitoring	5%	
11.00 General Structural Engineering	27%	
15.01 Survey and Mapping – Land Surveying	2%	
15.03 Survey and Mapping- Underground Utility Location	2%	
17.00 Engineering Construction Management	5%	
	100%	
<b>Total Estimated Base Cost</b>	<b>\$1,705,073.00</b>	
<b>Contingency Allowance (10% of Base)</b>	<b>\$170,507.30</b>	
<b>Total Design Cost</b>	<b>\$1,875,580.30</b>	

WASD is recommending 25% goal CBE participation