SBD - CM Review Form

To:

Project Review & Analysis - Construction

From:

SBD CM - Eddy V. Etienne Jr.

Department: Miami Dade County Water & Sewer Department

Date:

12/11/2017

Contact: Isaac Smith

Resubmittal: No

PROJECT NUMBER:

W-938

ALEXANDER ORR JR. WATER TREATMENT PLANT EAST HIGH SERVICE PUMP NO. 6

PROJECT TITLE:

REPLACEMENT

PROJECT LOCATION:

6825 SW 87th Avenue, Miami, Florida 33173

SCOPE OF WORK/DESCRIPTION: This project is one in a series of projects that are being processed under Section 2-8.2.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance. In general, the project consist of the replacement of High Service Pump No. 6 in the East Pump Room at the Alexander Orr Jr. Water Treatment Plant, located 6825 SW 87th Avenue, Miami-Dade County, Florida 33173.

The project consists of furnishing all materials, labor, and equipment necessary to replace High Service Pump No. 6 which includes one new pump and engine rated at 2,000 – 2,500 horsepower, new pump control valves and piping, and a new power distribution enclosure to install new motor control center, UPS and batteries. Contractor to furnish and install new natural gas engine and gear reducer, complete with new emissions and exhaust system; furnish and install new horizontal split case pump, with and a dedicated water supply from system for hydraulic accumulator operation. Piping work includes replacement of 48" suction and 42" discharge piping and valves. Contractor to replace suction and discharge butterfly valves which will require separate shutdowns. Replacement of suction side butterfly valve will require a diver to install a temporary plug in existing reservoir. Architectural improvements include renovation of existing office space to serve as new power distribution center to accommodate the electrical upgrades, and modification of operations room for new Pump No. 6 engine controls. Structural improvements include modifications to pump room floor in order to install new pump and engine. Partial demolition of masonry walls, concrete floors and concrete equipment supports is required. Contractor to furnish and install insulated metal panels above existing overhead door. Furnish and install new and modified access grating, handrails and ladders as required to access the pump, engine, piping and valves around the pump and in the piping trenches. Furnish and install new MCCs, UPS and batteries in renovated power distribution center (PDC). Install new circuit breaker and circuit to power equipment within the PDC. Install new pump No. 6 engine control panel. Furnish and install vibration monitoring system for pumps. Modify the existing I/O to the plant monitoring system to accommodate electrical changes. Replace the pressure transmitters/Interconnection wiring and conduit between engine, pump, cone valve, control valves, junction boxes, instrumentation and auxiliary devices. The Contractor shall be responsible, through furnishing a single qualified Control System Integrator (CSI), for the pump instrumentation and control systems (PSICS) to ensure system uniformity, subsystem compatibility and coordination of system interfaces.

SPECIAL REQUIREMENTS: The types of licenses required are: General Engineering, General Building Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

Initial:

Date: 12-11-17

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
		Company of the same of the sam	Prime Contractor
Mobilization	\$166,800.00	1.97%	Must meet Project Special Requirments. *Possible opportunities for Small Businesses
Division No. 1 - Special Conditions	\$63,000.00	0.74%	
Division No. 2 - Sitework	\$1,100.00	0.01%	
Division No. 3 - Concrete	\$11,600.00	0.14%	
Division No. 5 - Metals	\$105,000.00	1.24%	
Division No. 6, 7 & 8 - Wood & Plastics, Thermal and Moisture Protection, Doors and Windows	\$18,500.00	0.22%	
Division No. 10 - Specialties	\$600.00	0.01%	
Division No. 11 - Equipment - Horizontal Split Case Pump	\$828,000.00	9.76%	
Division No. 11 - Equipment - Duel Fuel Pump Engine with Gear Reducer	\$5,150,000.00	60.70%	
Receiver & Piping	\$17,250.00	0.20%	
Division No. 13 - Speical Construction - Vibration Monitoring Panel & RTD's	\$66,700.00	0.79%	
Division No. 13 - Speical Construction - Fiberoptic Line inside East Pump Room	\$9,200.00	0.11%	
Division No. 15 - Mechanical - Pipe & Fittings	\$163,200.00	1.92%	
Division No. 15 - Mechanical - Control Valves	\$316,250.00	3.73%	
Division No. 16 - Electrical - Transformers	\$385,250.00	4.54%	
Division No. 16 - Electrical - Electrical Conductor, Raceway and Ductwork	\$7,500.00	0.09%	
Division No. 16 - Electrical - Instrumentation &	agravam strata era era era era era era era era era er		
Control	\$132,250.00	1.56%	
		0.740/	Subcontractor
Division No. 1 - Special Conditions	\$60,000.00	0.71%	od dominica i krajiva se vina s
Division No. 2 - Sitework	\$2,400.00	0.03%	
Division No. 3 - Concrete	\$15,000.00	0.18%	
Division No. 5 - Metals	\$65,000.00	0.77%	
Division No. 6, 7 & 8 - Wood & Plastics, Thermal and Moisture Protection, Doors and Windows *Possible opportunities for Sn 52,000.00 0.02%			*Possible opportunities for Small Businesses
Division No. 9 - Finishes	\$800.00	0.01%	enger-annickventen ing en vers
Division No. 15 - Mechanical - Pipe & Fittings	\$76,000.00	0.90%	
Division No. 16 - Electrical - Electrical Conductor,	\$7.0,000.00 	V.JU/0	
Raceway and Ductwork	\$50,000.00	0.59%	
BASE TOTAL		90.91%	The state of the s
Contingency Allowance (10% of Base Estimate)	\$771,340.00	9.09%	all of the control of
TOTAL AMOUNT	\$8,484,740.00	100.00%	AND THE PROPERTY OF THE PROPER

Small Business Development Signature:

Date: 12-11-17

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

WASD is recommending 3.20% SBE/Construction

Initial: EE

Date: 12-11-17