

SBD - CM Review Form

To:	Project Review & Analysis - Construction		
From:	SBD CM - Eddy V. Etienne Jr.		
Department:	Miami-Dade Water and Sewer Department	Contact:	Isaac Smith
Date:	10/27/2016	Resubmittal:	No

PROJECT NUMBER:	S-870
PROJECT TITLE:	CDWWTP Industrial Injection Well Surface Facilities
PROJECT LOCATION:	3989 Rickenbacker Causeway, Miami FL 33149

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 consists of furnishing and installing surface facilities for existing industrial injection wells at the Central District Wastewater Treatment Plant (CDWWTP), located in Virginia Key, 3989 Rickenbacker Causeway, Section 16, Township 54, Range 42, Miami-Dade County, Florida 33149.

The scope of work consists of furnishing all materials, labor and equipment necessary to construct an Industrial Injection Well Pump Station, equip two existing industrial injection wells with wellhead piping, equip a monitoring well with wellhead piping, and install piping and flow interceptor boxes to convey waste stream flows from five separate sources to the Injection Well Pump Station and to convey the pump station discharge to the two injection wells, and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation of the project. The pump station is a two-story building with two below grade wetwells and influent channel. Construction of the below grade wetwells will require design and construction of a cofferdam. The proposed pump station will have a pump room that will house four medium voltage (4160 volt) vertical turbine pumps and associated piping, valves, and controls; an air conditioned transformer room that houses four high voltage (13.2 KV) transformers; and an air conditioned electrical room on the second floor that houses switchgear, MCCs, VFDs, and other electrical and control panels. Surge protection for the injection well system is provided by two hydropneumatic surge tanks with associated air compressor system. Pump discharge is controlled by 30" rotary pump control valves with electric/hydraulic valve actuator that is operated by a hydraulic valve accumulator system. The injection wells consist of a slab on grade with 24" ductile iron pipe, valves, magnetic flow meter, and air release valve. High and medium voltage ductbanks will be installed to connect to the new pump station to the existing Main Switchgear Building.

SPECIAL REQUIREMENTS: Bidders shall submit proof that his/her firm has at least the minimum successful contract experience as requested below:

A. In addition to submittal requirements stated elsewhere, to qualify for award on this Contract the Bidder shall be experienced in raw sewage pump station construction, including installation of dry pit vertical non-clog pumps, medium voltage electrical power systems, and standby diesel generators. The Bidder shall also be experienced in construction of structures on piles, coffer cell and tremie seal design and construction, and construction methods to minimize noise, dust, and other impacts to surrounding residential neighborhoods.

B. The Bidder must have successfully completed the installation of a minimum of three (3) hydraulic structures within the last ten (10) years meeting the following requirements:

1. Construction of a wetwell or structure ground floor a minimum of 10 feet below the average ground water level elevation.
2. Structure construction required installation of sheet piling, coffercell, and tremie seal with a minimum tremie seal volume of 200 cubic yards.
3. The Bidder shall have successfully completed the installation of a minimum of three (3) large pump stations within the last ten (10) years meeting the following requirements:
 1. Installation of medium voltage pumps, minimum 500 horsepower
4. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with medium voltage power within the last five (5) years meeting. These three (3) projects shall include installation of a minimum of two of the following items:
 1. Medium voltage transformers
 2. Medium voltage switchgear
 3. Medium voltage variable frequency drives
 4. Medium voltage motors

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

Initial: EE

Date: 10-27-16

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
			Prime
Mobilization	\$2,706,600.00	8.83%	Must meet Special Requirements *Possible opportunities for Small Businesses
Pump Station Foundation	\$1,903,800.00	6.21%	
Pump Station	\$4,973,100.00	16.22%	
Centrifugal Pumps	\$7,551,900.00	24.63%	
Pump Installation	\$1,005,100.00	3.28%	
Pump Control	\$1,658,500.00	5.41%	
Instrumentation & Misc. Equip	\$852,800.00	2.78%	
Pump Station Interior Piping	\$546,600.00	1.78%	
Waste Stream Structures	\$2,167,300.00	7.07%	
Injection Well Wellhead	\$410,400.00	1.34%	
Pump Station Electrical	\$1,969,900.00	6.43%	
Systems Integration	\$834,000.00	2.72%	
General Sitework	\$66,300.00	0.22%	*Possible opportunities for Small Businesses
Site Civil	\$86,000.00	0.28%	
Architectural (Finishes)	\$363,300.00	1.18%	
General Electrical	\$245,000.00	0.80%	
Paving Work	\$530,600.00	1.73%	
BASE TOTAL	\$27,871,200.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$2,787,120.00	9.09%	
TOTAL AMOUNT	\$30,658,320.00	100.00%	

Small Business Development Signature:  Date: 10-27-16
 *Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM
 WASD is recommending 4.21%