

SBD - CM Review Form

To:	Project Review & Analysis - Construction		
From:	SBD Engineer - Eric Perez		
Department:	Miami Dade Water & Sewer Department	Contact:	Issac Smith
Date:	4/16/2021	Resubmittal:	

PROJECT NUMBER:	RPQ No. S-930B
PROJECT TITLE:	ST-2D-B SOUTH DISTRICT WASTEWATER TREATMENT PLANT SUBSTATIONS 5-6 & 15-16
PROJECT LOCATION:	8950 SW 232nd St, Miami, FL 33190.

SCOPE OF WORK/DESCRIPTION:In general, the project consists of furnishing all materials, labor, and equipment necessary for the construction of two new substation 5/6 and 15/16 along with its electrical equipment, and load redistribution from existing Substation 5/6 and 15/16, including all ductbank design and installation at the South District Wastewater Treatment Plant (SDWWTP), located at 8950 SW 232nd Street Miami, Florida.

The scope of work includes, but is not limited to:

Construction of new Electrical Substation 5/6:

- a. New feeders from Electrical Distribution Building (EDB)1 to provide temporary power.
- b. New 13.2kV-480V transformers 5 and 6.
- c. New 480V arc-resistant Switchgear fed from transformers 5 and 6.
- d. New 480V feeders from new switchgear to Oxygenation Trains 1-4, Headworks 1, Filtrate Station, and EDB1 building service loads.
- e. Removal and disposal of asbestos containing material and lead based paint as noted in the Asbestos and Lead Survey (Sub-Stations 5&6) report (ATC, December 2020).
- f. Temporary power to be transferred from EDB1 to permanent power from EDB3.
- g. Connect substation 5/6 controllers (GE RX3i programmable logic controllers) to the nearest RTU for incorporation into SCADA.
- h. Electrical room and transformer vaults to be air conditioned.

Construction of new Electrical Substation 15/16:

- a. New feeders from EDB1 to provide temporary power.
- b. New 13.2kV-480V transformers 15/16.
- c. New 480V arc-resistant Switchgear feed from Substation 15/16.
- d. New 480V feeders from the Switchgear to Oxygenation Trains 5-7 and future Oxygenation Train 8.
- e. Removal and disposal of asbestos containing material and lead based paint as noted in the Asbestos and Lead Survey (Sub-Stations 15&16) report (ATC, December 2020).
- f. Temporary power to be transfer from EDB1 to permanent power from EDB3.
- g. Connect substation 15/16 controllers (GE RX3i programmable logic controllers) to the nearest RTU for incorporation into SCADA.

h. Electrical room and transformer vaults will be air conditioned.

i. Modification of the existing Substation 15 - 16.

Construction of Electrical Ductbank System:

a. Connect the existing Electrical Distribution Building 2 with the new Substations 5-6 and 15-16.

b. Furnishing and installation of new 480V Duct banks.

c. Furnishing and installation of new Signal Duct banks.

LICENSES: 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.

SPECIAL REQUIREMENTS:1. With the bid, the successful Bidder shall submit proof that the firm has at least the minimum successful contract experience as required below for this Contract. Such proof shall consist of a list of projects, completed prior to the bid date, with the names and telephone numbers of the Department's or representatives that the Department can contact to confirm the listed experience.

2. The Bidder or Bidder's Subcontractor shall be experienced in substations, procurement and installation of main electrical equipment, including medium and low voltage electrical power systems, and instrumentation and controls including connections into an existing SCADA. The experience may be demonstrated by the general contractor or a specialty sub-consultant for their discipline work). The BIDDER shall be experienced in performing WORK while maintaining operations of a wastewater facility

SPECIAL FUNDING SOURCES & REQUIREMENTS: Funding has been approved from the Water Infrastructure Finance Innovation Act (WIFIA) Program, which requires the use of Davis Bacon Wages. Bidders shall take into consideration and be prepared to fully comply with the requirements provided in the Florida Department of Environmental Protection Supplementary Conditions.

TRADES/SUBTRADES	AMOUNT		COMMENTS
General Building Contractor/ General Engineering			
General Requirements:includes all preconstruction services and expenses; home/field office overhead; general and administrative cost, etc.	\$2,431,000.00		
Mobilization:includes all preparatory work required in mobilizing to the project site all of the contractor's construction equipment, supplies, materials and labor	\$210,200.00		*Possible opportunities for Small Businesses
Engineer's Field Office:includes providing the Engineer's Field Office Trailer, including design, construction and installation of trailer, including utility connections	\$140,400.00		
Structural			
Construction of new Electrical Substation 5/6	\$3,260,500.00		*Possible opportunities for Small Businesses
Construction of new Electrical Substation 15/16	\$3,160,500.00		*Possible opportunities for Small Businesses
General Civil			
Plantwide Civil:includes providing all general site civil; yard piping; storm drain piping and structures; furnishing and installing retaining walls and related work, as shown on the Plans	\$3,560,500.00		*Possible opportunities for Small Businesses
General Electrical			
Plantwide Ductbanks:includes providing all labor, materials and equipment for the installation of required ductbanks, manholes and conduits at all locations shown on the plans throughout the plant	\$308,400.00		*Possible opportunities for Small Businesses
Plantwide Electrical:includes providing and installing all plantwide electrical, fiber optic cables at all locations shown on the plans; including all required testing	\$7,276,050.00		*Possible opportunities for Small Businesses
BASE TOTAL	\$20,347,550.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$2,034,755.00	9.09%	
TOTAL AMOUNT	\$22,382,305.00	100.00%	

Small Business Development Signature: Eric Perez Date: 4/16/2021

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

WASD is recommending 11.85%