

ST-1B: Step Feed & Oxygenation Trains Rehabilitation

SDWWTP - 8950 SW 232ND STREET MIAMI, FLORIDA, 33190.

CLIENT NAME

Miami-Dade Water and Sewer
Department

CONTRACT NUMBER

S-935

TIMELINE

SCHEDULED ADVERTISEMENT

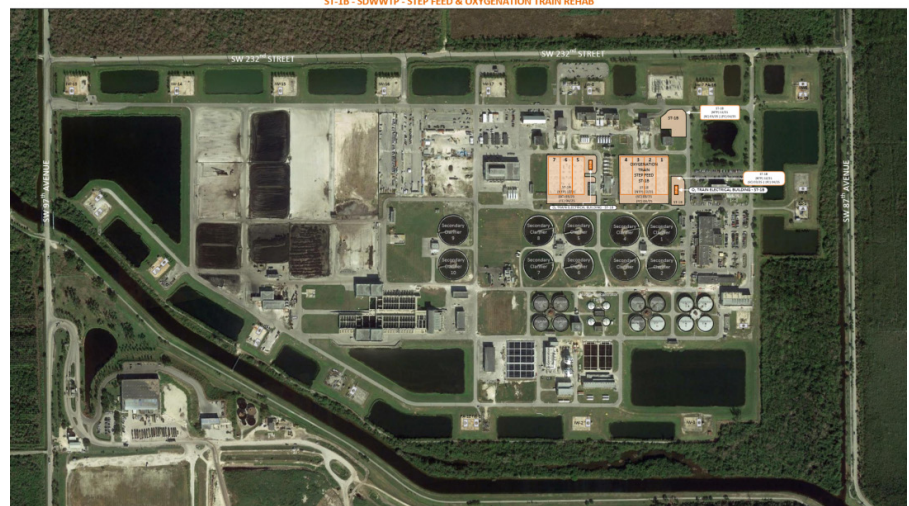
February 2021

SCHEDULED BID OPENING

April 2021

SCHEDULED PROJECT AWARD

September 2021



Contact Information

For additional information please call Mr. Isaac Smith at (786) 552-8989 or send electronic mail to: Isaac.Smith@miamidade.gov.

NOTE: AFTER THE ADVERTISEMENT DATE, THIS PROJECT IS UNDER THE CONE OF SILENCE (Pursuant to MDC Section 2-11.1 (t)) ANY E-MAILS SENT TO MR. ISAAC SMITH MUST ALSO COPY THE CLERK OF THE BOARD AT Clerk.Board@miamidade.gov.

PROJECT SCOPE

In general, includes improvements to existing oxygenation trains (oxygenation train 1 to oxygenation train 7), construction of new electrical buildings, and improvements to the potable water and fire water, at the South District Wastewater Treatment Plant (SDWWTP), located at 8950 SW 232nd Street Miami, Florida, 33190.

Specifically, the work includes but is not limited to:

1. Demolition - Site
 - a. Demolition of existing piping, pavement, conduits and duct banks.
2. Demolition - Oxygenation Trains (Ox. Trains) 1 to 7
 - a. Demolition of existing pipe penetrations into ox trains 1 to 7.
 - b. Enlargement of existing baffle wall openings.
 - c. Demolition of existing effluent weirs.
 - d. Demolition of existing 36-inch RAS pipelines at Ox. Trains 1 to 4 and Ox. Trains 5 to 7.
 - e. Removal and salvage of existing flowmeters and knife gate valves.
 - f. Demolition of existing 48-inch process water connections at Ox. Trains 1 to 7.
 - g. Demolition of existing low-pressure oxygen pipeline as indicated in the contract documents.
 - h. Demolition of existing mechanical aerators.
 - i. Demolition of existing electrical conduits to equipment in the existing concrete slab of oxygenation trains 1 to 4 and 5 to 7
 - j. Demolition of existing electrical equipment in UNOX Electrical building 1-4 and 5-8 related to the existing oxygenation system in oxygenation trains 1 to 4 and 5 to 7.
3. Construction - Oxygenation Trains 1 to 7:

Project Scope (Continued)

- a. Retrofitting of oxygenation trains with step feed capability.
 - b. Perform structural rehabilitation repairs of ox trains 1 to 7.
 - c. Construction of new concrete slab with electrical conduits and access ramps over existing concrete slab of oxygenation trains 1 to 4 and 5 to 7.
 - d. Furnishing and installation of new mechanical aerators for all 7 oxygenation trains, blowers, gates, valves, and other process mechanical equipment.
 - e. Furnishing and installation of new sensors, including flowmeters, gas samplers, wastewater analyzers, and gas detection.
4. Construction - 02 Trains 1-4 and 5-8 New Electrical Buildings
- a. Construction of two (2) new electrical buildings for oxygenation trains 1 to 4 and 5 to 7.
 - b. Furnishing and installation of new fire alarm system, electrical systems, SCADA system (supply of select SCADA equipment by SCADA Equipment Supplier), conduits, MCCs, VFDs, control panels, and lighting systems.
 - c. Furnishing and installation of new HVAC systems, water source heat pumps (WHPs) cooling water pumps (CWP), cooling towers (CTs), fans, air ducts and air purification system.
 - d. Furnishing and installation, doors, windows and roll up doors and all plumbing.
5. Construction - Site and Yard Piping
- a. Site grading and construction of new yard piping and electrical conduits to connect new structures to the SDWWTP existing electrical, water, sewer, process water, fire alarm and SCADA systems.
 - b. Construction of new pavement and sidewalks around new structures.
 - c. Contractor shall expose all tie-in locations prior to preparation of Shop Drawings.
 - d. Contractor is responsible for groundwater dewatering as well as any dewatering and disposal of dewatered fluids from the pipe itself for all tie-ins.
6. The Contractor shall furnish, start-up and commissioning services including individual equipment startup and testing; piping testing; providing the services of field technicians and personnel by the Suppliers to provide the services for installation, startup, and training; coordination with the Department, Engineer, other contractors, and regulatory agencies.