



PROJECT DESCRIPTION

The City of Palm Bay, incorporated January 16, 1960, is a political subdivision of the State of Florida. The legislative branch of the City is composed of five elected Council Members, one of which is the Mayor. The City Manager is responsible for the execution of Council's established and adopted policy. The City, with a population of over 130,000 residents, is the largest incorporated area in Brevard County.

(Please visit our official website, www.palmbayflorida.org).

Introduction

The City of Palm Bay is seeking qualifications from Construction Manager at Risk (CMAR) firms for the phased construction of a Reverse Osmosis (RO) Water Treatment Plant, raw water lines, deep wells, and related infrastructure.

Background

The City of Palm Bay operates a potable water treatment and distribution system serving approximately 42,945 connections and a wastewater collection and treatment system serving approximately 21,630 connections.

Water System Overview

- Two water treatment facilities (North Regional Water Treatment Plant and South Regional Water Treatment Plant).
- 41 source water wells from the surficial and Floridan aquifers.
- A repump station with on-site storage.
- An aquifer storage and recovery well.
- Approximately 690 miles of pipes ranging from 2 to 36 inches in diameter.

Wastewater System Overview

- Three wastewater treatment facilities.
- Two deep injection wells for effluent disposal.
- Reuse processing and pumping equipment.
- 235 miles of gravity sewer mains.

- 123 lift stations and 130 private lift stations.
- 103 miles of force mains.

Project Overview

The project includes the following phases:

North Reverse Osmosis, Phase 1:

- Construction of a 3.3 MGD Reverse Osmosis (RO) Water Treatment Plant.
- Installation of raw water lines from source wells to the plant.
- Site work and demolition of existing structures on the RO plant site.
- CMAR to review Tetra Tech's task order (provided as an attachment) and adjust to any amendments made by the City to the scope or design of Phase 1.

North Reverse Osmosis, Phase 2:

- Expansion of the RO plant capacity from 3.3 MGD to 6.6 MGD.
- Extension or addition of raw water lines to support the expanded capacity.
- Addition of a Control Room, Office, and Bathrooms for operational staff.
- Coordination with the City's selected engineering firm for any additional amendments to the design.

North Reverse Osmosis, Phase 3:

- Expansion of the RO plant capacity from 6.6 MGD to 10 MGD.
- Installation of additional raw water infrastructure to support the expanded capacity.

South Regional Water Treatment Plant Expansion

- Expansion of the RO plant capacity from 8 MGD to 10 MGD.
- Installation of additional raw water infrastructure to support the expanded capacity.
- Coordination with the City's selected engineering firm for any additional amendments to the design.

South Regional Water Reclamation Facility, Phase 1

- Expansion of the WRF plant capacity from 1 MGD to 2 MGD.
- Installation of additional infrastructure to support the expanded capacity.
- Coordination with the City's selected engineering firm for any additional amendments to the design.

South Regional Water Reclamation Facility, Phase 2

- Expansion of the WRF plant capacity from 2 MGD to 3 MGD.
- Installation of additional infrastructure to support the expanded capacity.

- Coordination with the City's selected engineering firm for any additional amendments to the design.

Site Work for Field Service Buildings

- Site work for two unrelated field service buildings.
- Work must be completed prior to the demolition of current buildings on the RO site.