Clark Regional Wastewater District



General Facilities

Fleet & Facilities

Capital Improvement Project

Developer Reimbursement Program

Restoration & Replacement – Gravity \Box Restoration & Replacement – PS & FM \boxtimes

Restoration & Replacement Project ⊠

Restoration & Replacement – Fleet & Facilities □

District Installed Infrastructure \Box

Septic Elimination Program

Knoll Ridge South Pump Station Replacement (CIP 2-1001B)

Location: <u>Central</u> Number: <u>26-2015-0094</u> GL Number: <u>407-000-189-00-01-40</u>

Phase: Design

Project Manager: Jerry Barnett

GSP Basin: Knoll Ridge - 2-1001

Project Definition:

<u>Background.</u> The current pump station is a silo station with pumps, and valves in the same structure. This configuration requires confined space entry procedures for any maintenance or inspection of the mechanical components of the pump station.

As part of the General Sewer Plan, a pump station risk assessment was completed that assigned a risk profile score of 1.5, making it the 5th highest ranking pump station. Based on the condition of the pump station, risk profile score, and safety concerns, the General Sewer Plan recommended this pump station be replaced. An updated assessment was completed in 2022 that resulted in a risk score of 2.1, reflecting an increase in risk, making it the highest ranking pump station. The sewer basin served by the pump station is already built out, so no capacity upgrade is required.

<u>Objective.</u> Replace the existing pump station to meet current District standards to increase safety and reliability, while decreasing maintenance risks/costs.

<u>Scope of Work.</u> Abandon existing silo pump station. Relocate new station with new wetwell, pumps, valve vault, electrical and control panels, piping, and other appurtenances. Install 25 feet of 8-inch gravity sewer and 45 feet of 4-inch pressure main to accommodate new pump station location.

Project Statistics. Gravity Sewer – 25 feet of 8-inch gravity sewer. Force main – 45 feet of 4-inch force main.

Pump Station – 5 hp duplex submersible pumps for 130 gpm capacity; wetwell; single phase electrical service; control panel; valve vault.

Photos: (Map of area on the reverse side)

Clark Regional Wastewater District

Six-Year Capital Program Capital Project Profile



Budget Information:

Project Cost Estimate: Total Project Cost: Construction Cost: Basis of Estimate: Date of Estimate:

\$910,000
\$750,000
Design
Sept. 2022

Schedule Information:

<u>Activity</u>	Year
Predesign	2020
Permitting	2020
Real Property/ROW	2020
Design	2020-2022
Bid	2022
Construction	2023

