



# LAUDERTRAC



## INFRASTRUCTURE UPDATE

Tracking Progress on Fort Lauderdale Commission Priorities for 2021

June 2021

### INVESTING IN OUR FUTURE

The City Commission's Infrastructure top priority covers a breadth of topics and this month's update will touch on infrastructure improvements being made to the wastewater collection system, water distribution system, and the Fiveash Water Treatment Plant.



Photo Victoria Park Small Watermain Replacement

#### Victoria Park Small Watermain Replacement

The Victoria Park Small Watermain Project has reached substantial completion, with only roadway striping remaining. This project included replacing approximately 69,000 linear feet of aging 2-inch cast iron watermains in the Victoria Park Neighborhood with 6-inch high density polyethylene (HDPE) pipe. The new pipe will provide improved service, increased water pressure and has an extended life in comparison to the previous cast iron. In an effort to minimize the impact on the neighborhood and expedite the project, the replacement was completed using horizontal directional drilling and pipe bursting technologies. In addition to replacing the existing watermain, nearly 1,600 service lines which connect properties to the watermain were replaced, and 154 new fire hydrants were installed. Finally, 13 miles of roadway, where the new watermain and services were installed, have been repaved.

#### Rio Vista Sewer Basin Rehab

The Rio Vista Sewer Basin Rehab Project focuses on rehabilitating the mainline and lateral sewers in the Rio Vista Neighborhood. This project entails the use of pipe lining technology to seal any cracks or deficiencies in the pipe from the inside. Most recently, the City's contractor completed the lining of all mainline and lateral pipes on SE 15th Street, east of Cordova Road, and repaved this same section of roadway. This



Before and after pictures of the Diesel Engine Air Start System

project is approximately 89% complete and is part of the City's plan to address Infiltration and Inflow (I&I), impacting the City's wastewater collection system.

#### Continuing Fiveash Water Treatment Plant Reliability Upgrade:

The Fiveash Water Treatment Plant (Plant) is permitted to treat 70 million gallons of water a day and provides an average of over 31 million gallons of treated drinking water to our residents, visitors, and businesses each day. Public Works staff has recently completed projects to improve both the reliability of the Plant as well as the quality of the water produced by the Plant.

To improve water quality, staff replaced the existing delivery system that transports the chemical solution (Slaked Lime) the plant uses to remove impurities and adjust the pH level of the water. This new system improves reliability of the Plant, adding redundancies to the delivery system to allow for greater operational flexibility. Additionally, Public Works staff replaced the Diesel Engine Air Start System used to start the backup pumps during a power outage. This system uses compressed air, instead of a battery bank, which provides greater reliability and requires less maintenance. Completing the replacements with Public Works staff resulted in a savings of approximately \$4 Million compared to consultant estimates.