



LAUDERTRAC

INFRASTRUCTURE UPDATE FORT LAUDERDALE

Tracking Progress on Commission Priorities for 2020



September/October 2020

INVESTING IN OUR FUTURE



Record-Setting Pipe Pull puts Sewer Main Project on Brink of Reaching Major Milestone

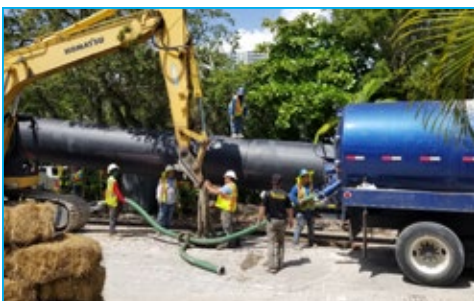
The City of Fort Lauderdale's Redundant Force Main Project is close to 50% complete thanks to a record-setting pipe pull that was recently completed by David Mancini & Sons, Inc. The contractor successfully installed 3,100 feet of pipe along NE 11 Avenue from SE 2 Street to NE 6 Street just east of downtown.



According to Mancini, the half-mile segment of 54-inch high density polyethylene (HDPE) pipe set a world record for the longest and largest directionally drilled pressurized sewer pipe installation, surpassing the company's previous record of 3,000 feet that was set in Miami Beach. The Fort Lauderdale operation required more than 23 sections of pipe to be fused together as it was being pulled underground.



With the record-setting pipe pull completed, more than 3.5 miles of the City's new sewer main is now in the ground and an additional 1.25 miles of pipe is currently under construction. In total, the \$65 million project will include 7.5 miles of new force main that will stretch from the lift station located near Bayview Drive and NE 37 Street to the G.T. Lohmeyer Wastewater Treatment Plant on SE 18 Street.

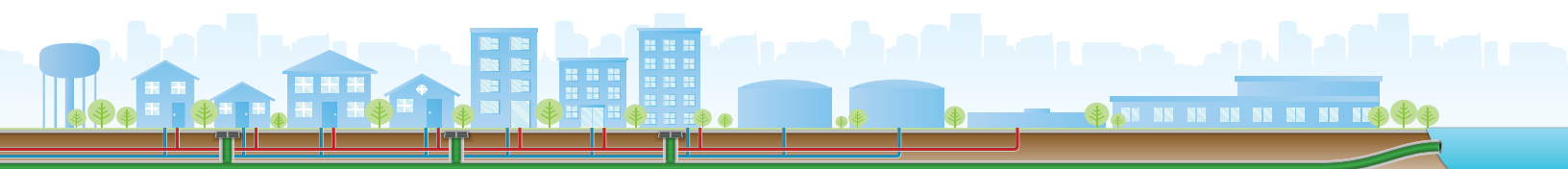


Two contractors are working on the project simultaneously to fast-track construction. Murphy Pipeline is installing the northern portion of the pipe and David Mancini & Sons, Inc. is installing the southern portion. Both companies are using directional boring, which expedites installation by eliminating the need to dig up entire streets, minimizes disruption to the neighborhoods and traffic flow, and decreases the amount of time needed for restoration work.

In addition to the downtown pipe pull, David Mancini & Sons has installed 1,000 feet of pipe along SE 10 Avenue between SE 12 Street and SE 14 Court in the Harbordale neighborhood, with an additional 400 feet under construction.

On the northern end of the project, Murphy Pipeline has completed fusing 1,100 feet of pipe that will be installed on NE 18 Street between NE 15 and NE 17 Terrace, and is mobilizing to begin drilling a pilot hole that will serve as the initial underground pathway for the pipe. In addition, crews are continuing to drill an underground pathway along Bayview Drive from NE 30 Street to NE 37 Street in preparation for the installation of 2,600 feet of pipe.

Upon completion of the new force main, the City plans to rehabilitate the existing 54-inch sewer main, which will create full redundancy, enhance reliability, and improve service to neighbors.



The City of Fort Lauderdale has over 150 infrastructure projects in the active stages of planning, design, bidding and construction.

Following is a snapshot of a variety of projects that are underway. To view more projects, visit LauderWorks at www.fortlauderdale.gov/lauderworks.

- 1. Fiveash Water Treatment Plant Improvements**
Address: 4321 NW 9th Avenue
This project will make numerous upgrades to the Fiveash Water Treatment Plant including improvements to the controls for transfer pumps and high service pumps, lime fill system, slaked lime delivery system, carbon dioxide injection system, storm water drainage system, weather resistance of the buildings, emergency generators, main control system, and other enhancements to maintain operational reliability. Investment: \$17 million; Status: Rehabilitation work has begun; estimated project completion in June 2022
- 2. NE 65th Court Pump Station Replacement**
Address: 3701 NE 65th Court
This project will replace the existing wastewater pump station with a new duplex station with two submersible pumps. Investment: \$687,000; Status: Design; estimated project completion in May 2021
- 3. NE 23rd Avenue Stormwater Improvements**
Address: 4848 NE 23rd Avenue
Crews have successfully completed installing new stormwater infrastructure to address flooding issues at the site. Investment: \$425,000; Status: Completed
- 4. NE 25th Avenue 24-Inch Force Main Replacement**
Address: NE 25th Avenue from Commercial Boulevard to Oakland Park Boulevard
This project will replace approximately 5,500 linear feet of 24-inch sewer force main. Investment: \$4.78 million; Status: Design; estimated project completion in December 2022
- 5. NE 38th Street 42-Inch Force Main Replacement**
Address: along NE 38th Street between N. Dixie Highway and Coral Ridge Country Club and along NE 19th Avenue between NE 38th Street and NE 32nd Street
The first phase of this project will consist of replacing approximately 8,000 linear feet of 42-inch sewer force main. Investment: \$11 million; Status: Design; estimated project completion in June 2023
- 6. Bermuda Riviera Water Main Improvements**
Address: 63 Fort Royale Isle
This project is replacing existing water mains with approximately 25,000 linear feet of new 8-inch water mains. Investment: \$4.9 million; Status: Construction; the project is 98% complete and is estimated to be finished in September 2020
- 7. Coral Shores Water Main Improvements**
Address: 2884 NE 21st Street
This project will replace existing water mains with approximately 6,200 linear feet of new 6-inch water mains. Investment: \$1.8 million; Status: Bidding; estimated project completion in October 2021
- 8. Victoria Park North Water Main Improvements**
Address: NE 7th Street and NE 19th Avenue
Crews have successfully replaced approximately 26,500 linear feet of existing water mains with new 6-inch and 8-inch water mains and improved fire hydrant coverage. Investment: \$6 million; Status: Completed
- 9. Victoria Park South Water Main Improvements**
Address: the area generally bounded by NE 6th Street, Broward Boulevard, Federal Highway, and Victoria Park Road
This project is replacing approximately 29,000 linear feet of existing water mains with new 6-inch and 8-inch water mains and improving fire hydrant coverage. Investment: \$7 million; Status: Construction; estimated project completion in January 2021
- 10. Victoria Park Sewer Basin Rehabilitation**
Address: 625 NE 19th Avenue
This project is rehabilitating mainline sewers, manholes, and service laterals in Victoria Park. Investment: \$7 million; Status: Construction; estimated project completion in December 2020
- 11. Isle of Palms Seawall Replacement**
Address: Isle of Palms Drive
This project is replacing the Isle of Palms seawall which was identified in the Seawall Master Plan as the top priority seawall replacement within the City. Investment: \$2.8 million; Status: Completed
- 12. Flagler Heights Sewer Basin Laterals**
Address: 630 NE 2nd Avenue
This project is rehabilitating sewer laterals in the Flagler Heights Sewer Basin. Investment: \$2.6 million; Status: Construction; estimated project completion in December 2020
- 13. Bridge Replacement at South Ocean Drive**
Address: South Ocean Drive
This project will replace an existing bridge on South Ocean Drive in the Harbor Beach area. Investment: \$3.6 million; Status: Bidding; estimated project completion in August 2021
- 14. Bridge Replacement at Coconut Isle**
Address: Coconut Isle Drive
This project is replacing the existing Coconut Isle Bridge in the Las Olas Isles neighborhood. Investment: \$2 million; Status: Construction; estimated project completion in January 2021
- 15. Dorsey-Riverbend Sanitary Sewer Collection System Rehabilitation**
Address: 1410 NW 4th Street
This project is rehabilitating the sanitary sewer collection system located in the Dorsey-Riverbend neighborhood. The project scope includes relining the sanitary sewer collection mains and laterals. Investment: \$8 million; Status: Construction; estimated project completion in November 2020
- 16. Riverland Road Area Pump Station Replacements**
Address: Riverland Road area at SW 37th Avenue and Fairfax Drive
This project will replace the existing pumps at the Riverland Road Pump Station with higher capacity models. Station piping valves and the wet well will be upgraded as necessary. Investment: \$350,000; Status: Design; estimated project completion in February 2022
- 17. Effluent Pumps Standby Generator & Administration Building Improvements**
Address: 1765 SE 18th Street
This project will make significant upgrades to the George T. Lohmeyer Wastewater Treatment Plant including installing a 10 megawatt emergency generator to operate the effluent pumps. Investment: \$15 million; Status: Project initiation and planning; estimated project completion in October 2023
- 18. Harbour Inlet Area Force Main Upsizing**
Address: Harbour Inlet Drive from A1A to Barbara Drive and along Barbara Drive from Harbour Inlet Drive to the Stranahan River
This project will replace the existing 8-inch and 10-inch force mains with approximately 2,000 linear feet of new 12-inch force main. Investment: \$1.5 million; Status: Bidding; estimated project completion in November 2024
- 19. Tarpon River Sewer Basin Rehabilitation**
Address: 112 SW 7th Street
This project includes the rehabilitation of main line sewers utilizing trenchless technology, as well as road restoration and landscaping. The project is part of the Wastewater Conveyance System Long Term Remediation Program. Investment: \$11 million; Status: Design; estimated project completion in June 2021

20. 1716 SE 7th Street Stormwater

Improvements

Address: 1716 SE 7th Street
This project includes the installation of stormwater infrastructure which will enhance drainage and help alleviate stormwater flooding. Investment: \$382,000; Status: Project initiation and planning; estimated project completion in Summer 2021

Bayview Drive and NE 37th Street Crews are installing a new 7.5 mile wastewater transmission line from the wastewater lift station near Bayview Drive and NE 37th Street to the G.T. Lohmeyer Wastewater Treatment Plant (GTL) on SE 18th Street. Investment: \$65 million; Status: Construction; estimated project completion in June 2021

24. Central New River Water Main River

Crossings

Address: SE 1st Avenue
This project includes replacing submerged water mains that run under portions of the New River. Investment: \$1.8 million; Status: Design; estimated project completion in January 2021

21. Rio Vista Emergency Force Main Replacement

Address: SE 9th Avenue and SE 10th Street Crews successfully installed a new force main in the Rio Vista neighborhood and connected it to the existing 54-inch line. Investment: \$3.5 million; Status: Completed

23. River Oaks Stormwater Park

Address: 2101 SW 19th Avenue
A stormwater park is being constructed on nine acres of undeveloped land in the River Oaks neighborhood that includes water control basins and an underground conveyance system to improve drainage and decrease flooding. Investment: \$7.7 million; Status: Construction; estimated project completion in December 2020

25. Cordova Road Seawall Replacement

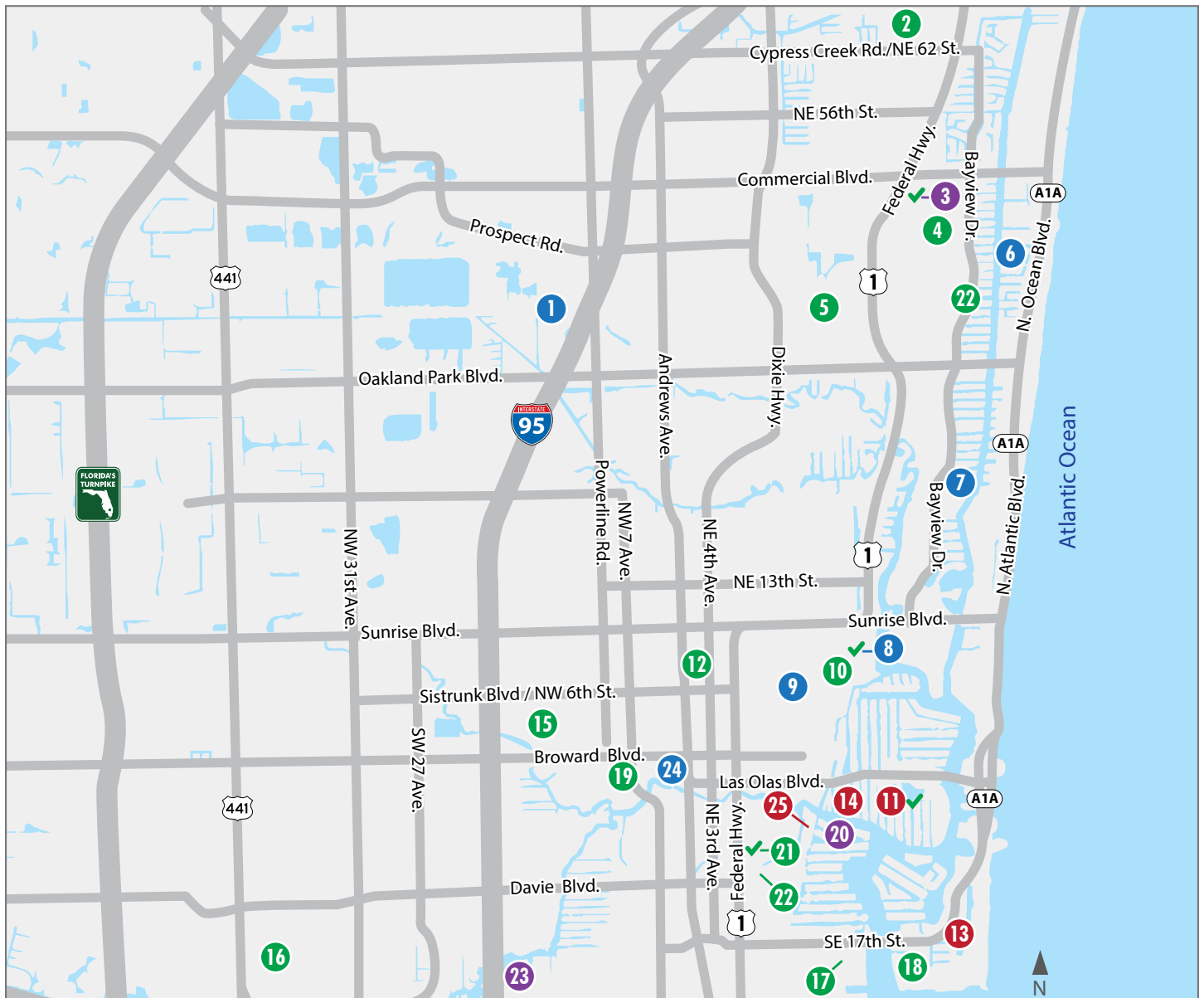
Address: Cordova Road from SE 7th Street to SE 12th Street
This project includes installing 2,500 linear feet of seawall along Cordova Road between SE 7th Street and SE 12th Street to strengthen resiliency and help decrease flooding. Investment: \$5.7 million Status: Construction; estimated project completion in December 2020

22. Redundant Sewer Force Main Project

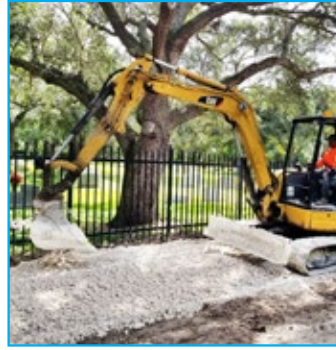
Address: From 1765 S.E. 18th Street to

INFRASTRUCTURE PROJECT MAP

- Sewer Projects
- Water Projects
- Stormwater Projects
- Other Projects



CHARTING OUR PROGRESS



Stormwater Improvements on NE 23 Avenue

More than \$425,000 in stormwater improvements have been completed in the 4800 block of NE 23 Avenue in the Coral Ridge County Club Estates neighborhood. Crews have successfully installed 13 new stormwater structures, 360 feet of exfiltration trench, and 260 feet of stormwater pipe to address flooding issues.

Bermuda Riviera Water Main Improvements

Crews have substantially completed a \$4.9 million water main improvement project in the Bermuda Riviera neighborhood, which included replacing more than 25,000 linear feet of undersized and deteriorated water mains with new 8-inch high density polyethylene (HDPE) pipe. The contractor is addressing final details and the project is expected to be fully complete by the end of the month.

Seawall Replacements on Isle of Palms and Cordova Road

A new 900-foot seawall on Isle of Palms has been completed. The new seawall stands three feet higher than the original wall, is reinforced with sheet piles, and includes added drainage features to reduce flooding. Crews have installed 2,100 feet of sheet pile and 900 feet of concrete seawall cap as part of the construction of the new Cordova Road Seawall between SE 7 Street and SE 12 Street. The project is expected to be completed in December 2020. Read more about the seawall projects in this month's Resiliency Newsletter at bit.ly/ftlresil.

Dorsey-Riverbend Sewer Improvements

Crews are in the final stage of upgrading the sanitary sewer collection system in the Dorsey-Riverbend neighborhood. The \$8 million project, which includes the complete relining of sanitary sewer collection mains and laterals, is 90% complete and is expected to be finished in November 2020.

Coconut Isle Bridge

Progress continues on construction of the new Coconut Isle Bridge in the Las Olas Isles neighborhood. The \$2 million project is expected to be completed in January 2021.

GET INFORMATION AND UPDATES



CITY OF FORT LAUDERDALE

24-hour Neighbor Call Center: 954-828-8000

Website: www.fortlauderdale.gov/infrastructure

LauderWorks: www.fortlauderdale.gov/lauderworks

Email Updates: www.fortlauderdale.gov/enews

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