

City of North Miami

BREEZESWEPT FORCE MAIN & PUMP STATION IMPROVEMENTS

Public Informational Meeting

Thursday, June 27, 2024



Agenda



Project Background



Anticipated Construction Impacts



Project Description



Project Status and Schedule



Preliminary Design Plan



Questions

Meet the Project Team



YADLY ST FORT, CIVIL ENGINEER

*City of North Miami Public Works Department
City Project Manager*

NICHOLAS J. FERNANDEZ, PE

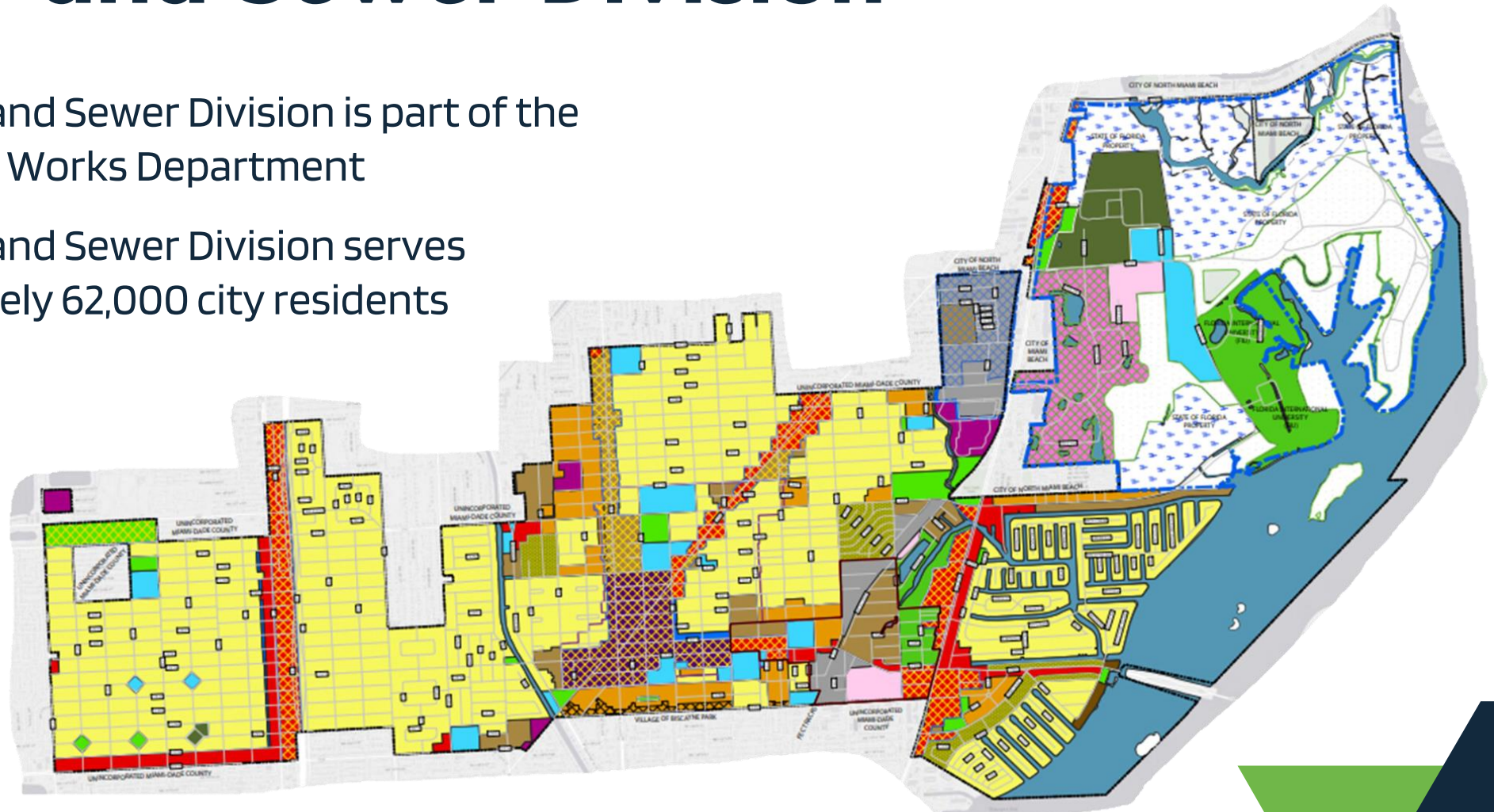
*300 Engineering Group
Consultant Project Manager*

PROJECT BACKGROUND



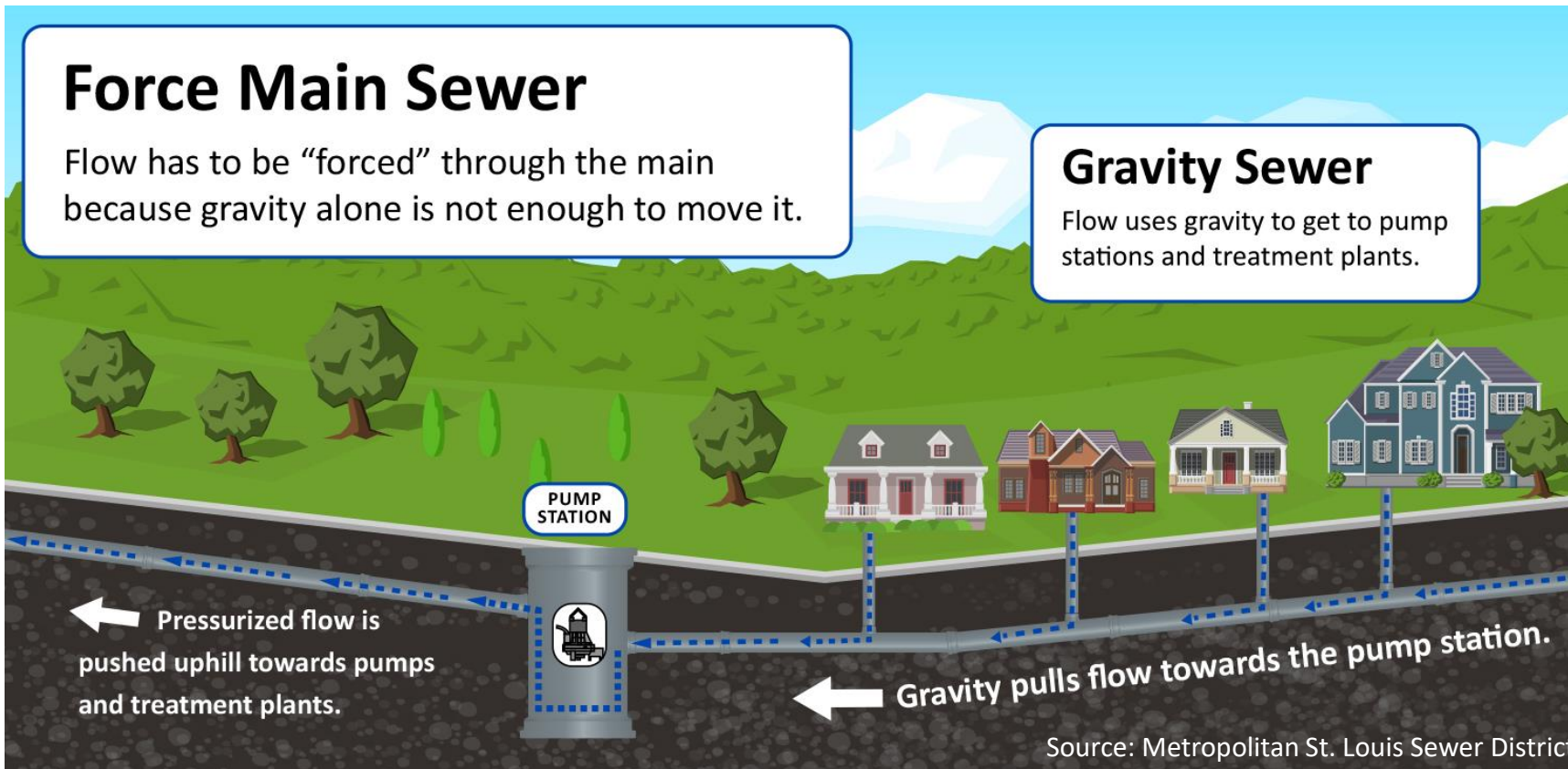
City of North Miami Water and Sewer Division

- The Water and Sewer Division is part of the city's Public Works Department
- The Water and Sewer Division serves approximately 62,000 city residents

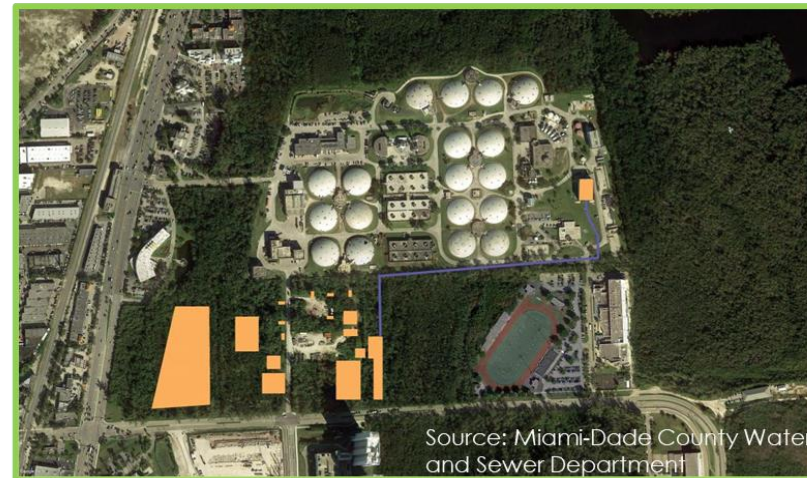


What is a Force Main?

- A sanitary sewer system is a network of pipes that run underground and collect and transport wastewater from our homes and carry it to treatment plants. There are two main types of sanitary sewer systems: **force main sewers** and **gravity sewers**.



About Breezeswept



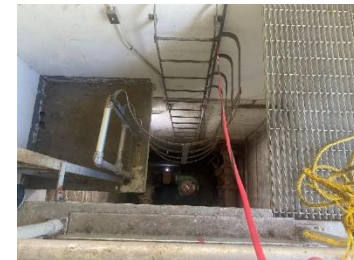
North District Wastewater Treatment Plant (NDWWTP)

Breezeswept Service Area covers:
 653 properties
 28,500 LF gravity pipeline
 115 manholes



Reasons for the Project

- The Breezeswept Pump Station has reached the end of useful service life.
- Upgrades to the force main are needed to support projected growth in the city.
- The poor condition of the pump station and force main is leading to increased maintenance costs.



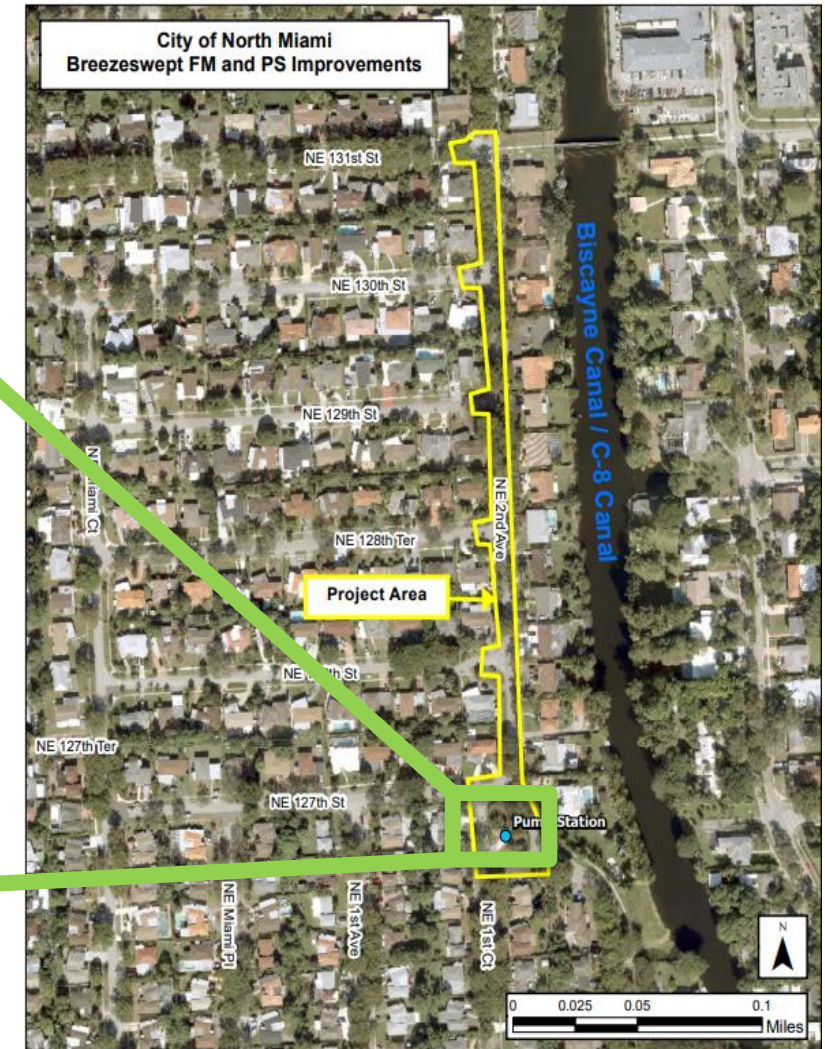
PROJECT DESCRIPTION



Project Quick Facts

- Design Start: September 2023
- Design Engineer: 300 ENGINEERING GROUP, LLC
- Contractor: To Be Determined
- Construction Start: June 2025
- Estimated Completion: March 2026
- Construction cost: \$2,250,000 (30% Design Cost Estimate)

Breezeswept Force Main & Pump Station



- The project limits are along NE 2nd Avenue from north of NE 131st Street to south of NE 127th Street.

Proposed Improvements



DEMOLISH OLD PUMP STATION BUILDING

A new pump station building will be installed to replace the old one.



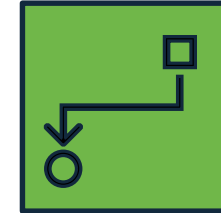
UPGRADE PUMP STATION COMPONENTS

Replace pumps, motors, valves, piping, electrical/control panel, and instrumentation.



INSTALL NEW 12-INCH FORCE MAIN

Approximately 1,485 linear feet of new force main will be installed.



ABANDON EXISTING 8-INCH FORCE MAIN

Cap and leave the existing force main in place underground.



RESTORE EXISTING DRIVEWAY

Driveway will be restored in its current location



INSTALL WATER RESISTANT HATCHES

Water-resistant hatches prevent potential water intrusion and damage



INSTALL ELEVATED CONCRETE SLAB FOR CONTROL PANEL

The elevated control panel will protect the system against flooding and sea level rise.



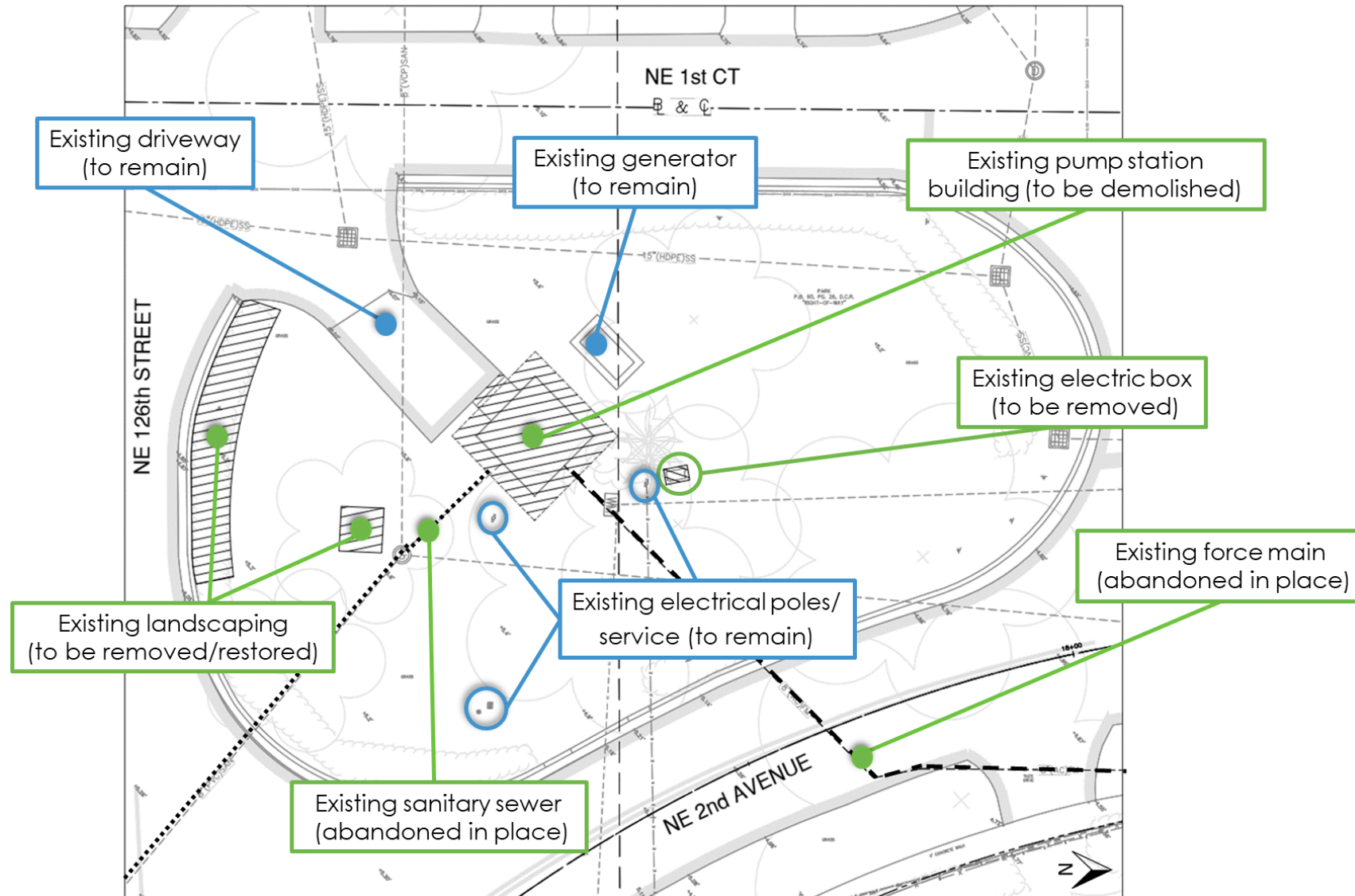
LANDSCAPING

Upgrade and restore landscaping within the roundabout median

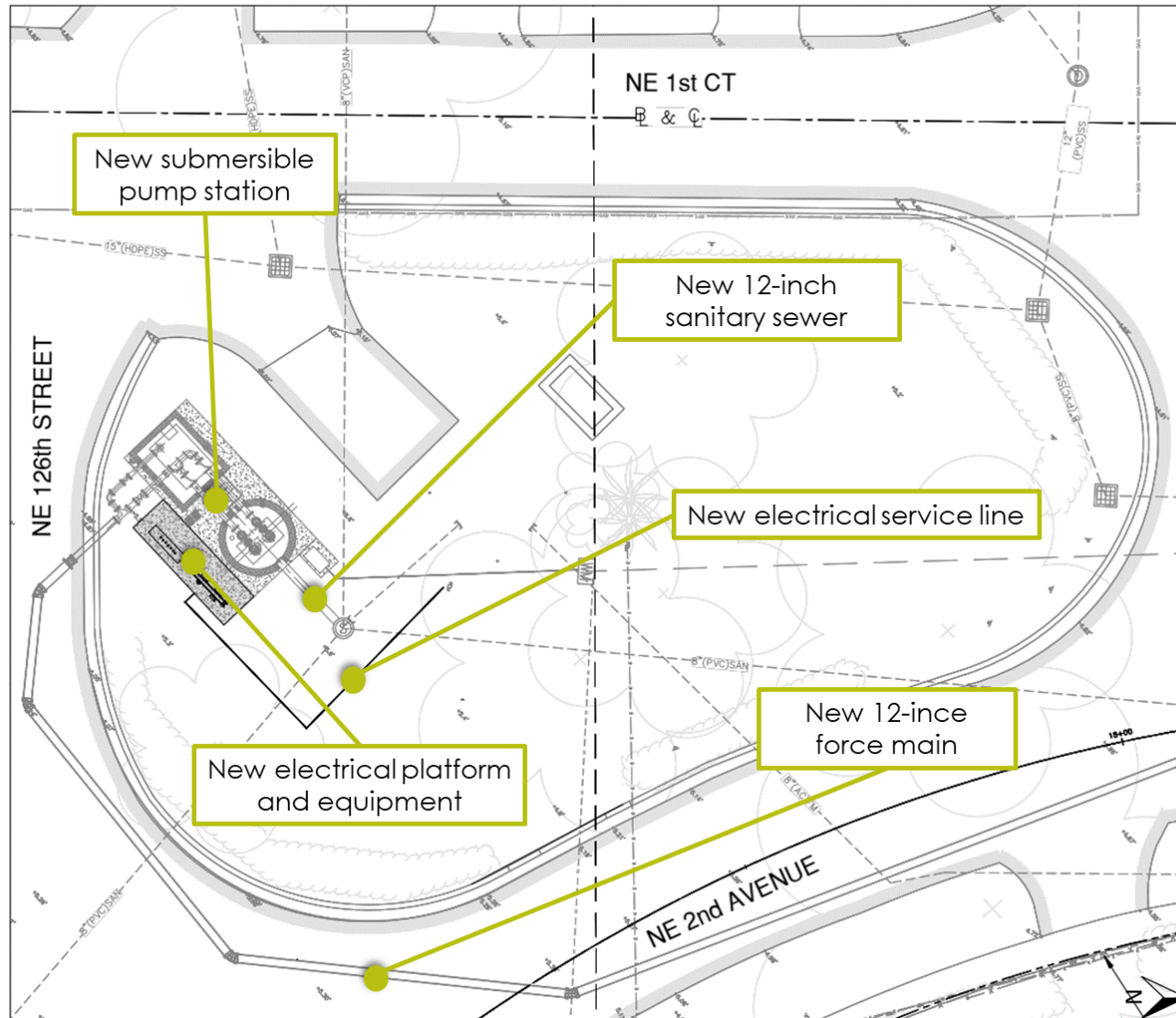
PRELIMINARY DESIGN PLAN



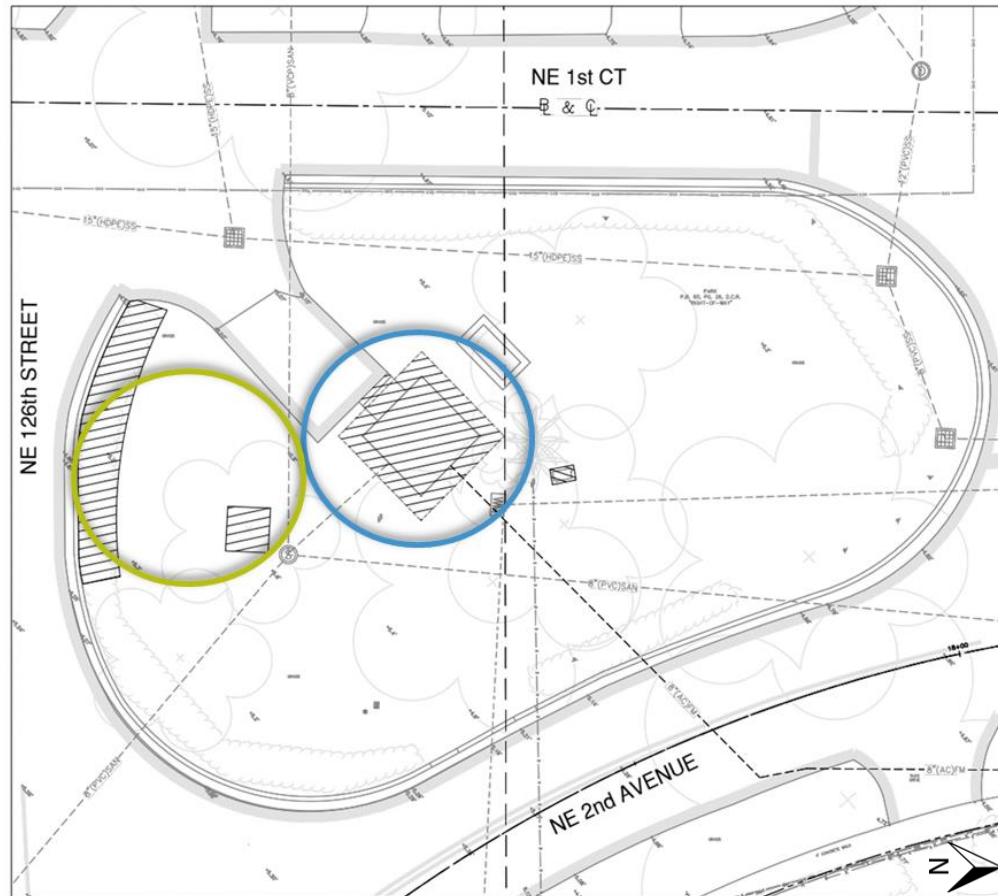
Existing Pump Station



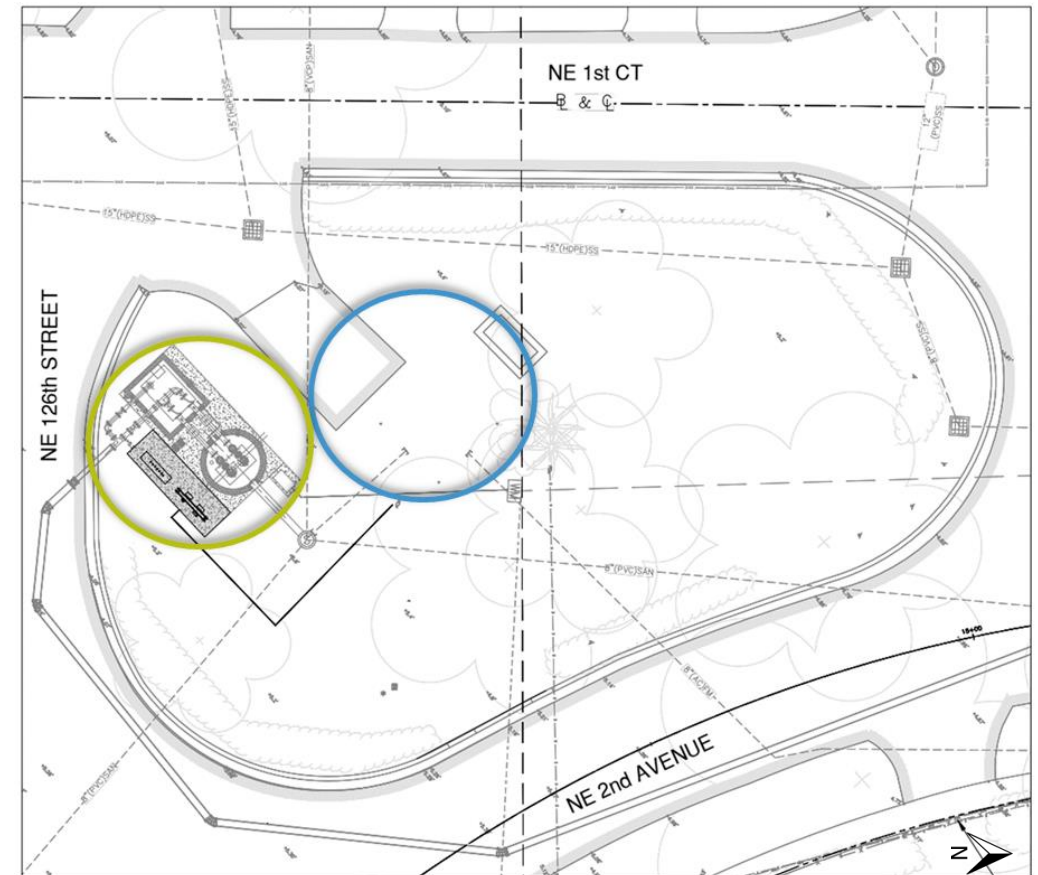
New Pump Station Design



Existing Pump Station



New Pump Station Design



New Force Main Design

- Existing 8-inch force main (shown in red) will be abandoned in place.
- Approximately 1,485 linear feet of new 12-inch force main will be installed (shown in blue).
- The new force main will be installed by open cut trenching.



ANTICIPATED CONSTRUCTION IMPACTS



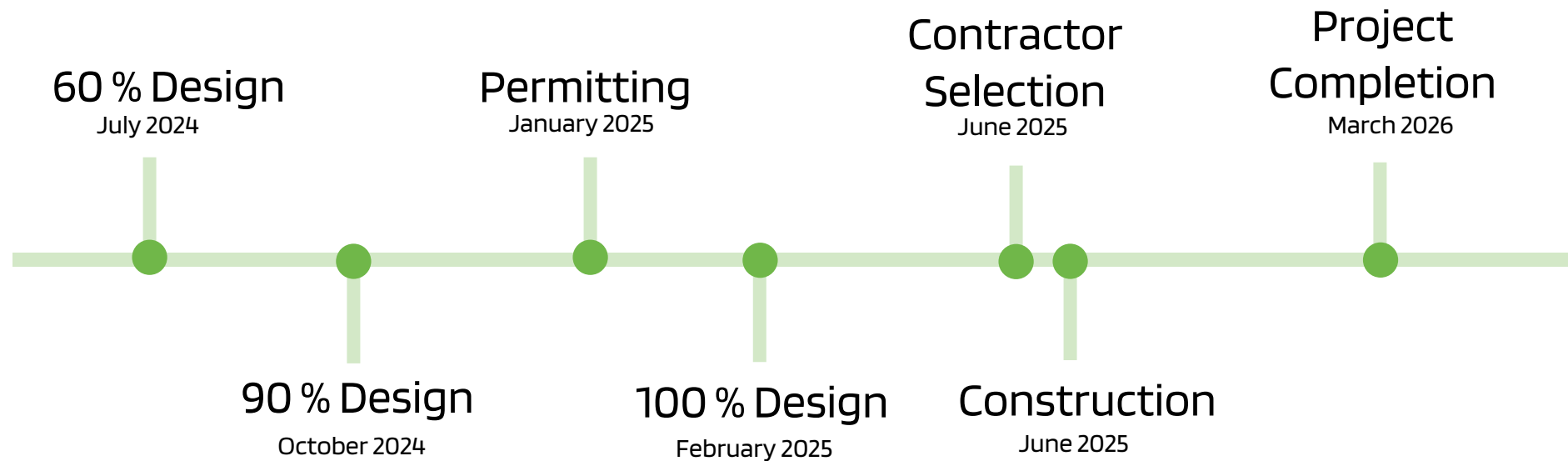
What to Expect During Construction

- Construction will be contained within the city's right-of-way.
- Open cut trenching involves the use of heavy machinery to excavate trenches in the ground.
- Temporary lane closures and detours will be necessary to facilitate installation of the new force main. The force main installation will be staged, and road restoration will be performed as the stages are completed.
- The contractor will be required to maintain access to homes within the construction area. They will also maintain access for solid waste collection, mail services, and emergency vehicles.
- Noise related to construction activities can be expected. The contractor will be required to comply with the city's noise control ordinances.
- Dust and debris during construction may be observed. The contractor will be required to minimize dust by applying water and replacing the road pavement as soon as practical. They will also remove extraneous construction debris daily.
- Minimal interruption in sanitary sewer services may be expected.

PROJECT STATUS AND SCHEDULE

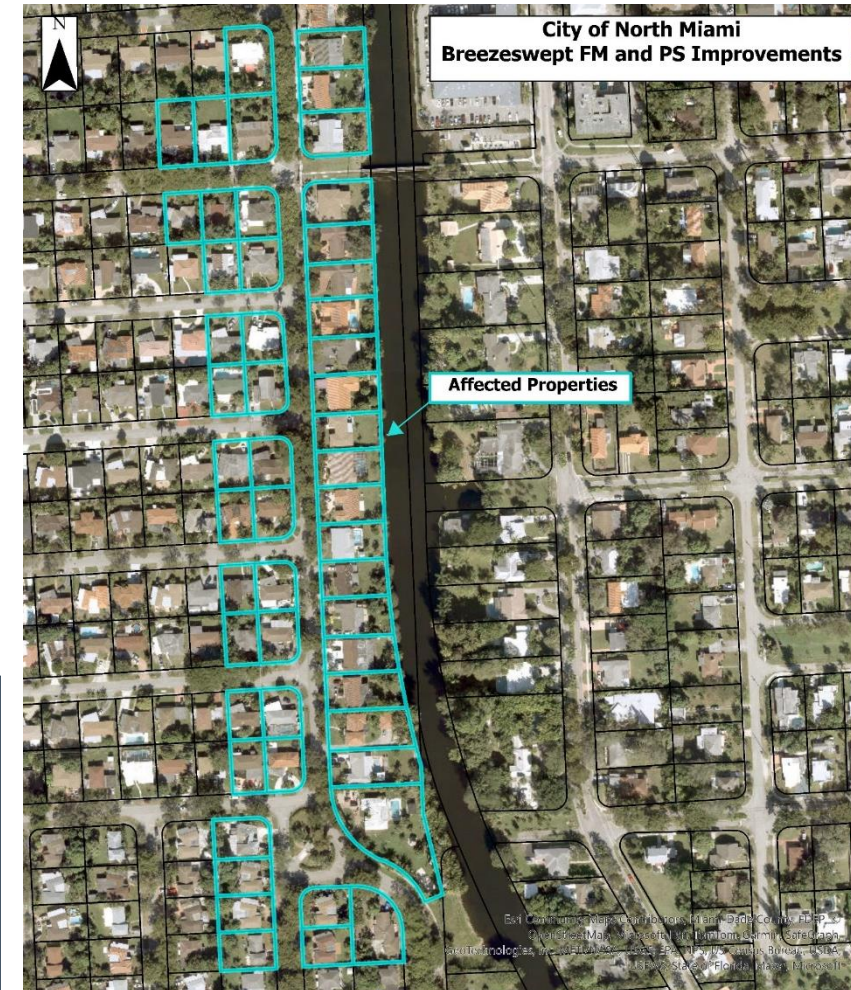


Project Timeline



How to Stay Informed

- Mailers will be sent to property owners within the project area with details related to construction.
- An additional public information meeting will be held at a date closer to construction (date to be determined).
- Visit NorthMiamiFL.gov and follow North Miami on Facebook and Instagram for project updates.



@NorthMiamiFL





We welcome your input and questions!

QUESTIONS?

Contact

Yadly St Fort
City Project Manager

Submit questions/comments
through August 1, 2024



305-893-6511, Ext. 15011



ysaintfort@northmiamifl.gov



Breezeswept Pump Station Public Information Meeting

THURSDAY, JUNE 27, 2024

SIGN IN HERE



PLEASE SCAN QR CODE TO SIGN IN