SW DRAINAGE IMPROVEMENT PROJECT

Community Meeting
May 22, 2017

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GRANT FUNDED PROJECT

TOTAL PROJECT COST $9,698,970

75% Federal share (Federal Emergency Management Agency

25% Local share (City of Hallandale Beach)

Design and Permitting
$1,000,000

Construction
$8,696,970

PROJECT SCHEDULE

FEMA approved a phased Period of Performance

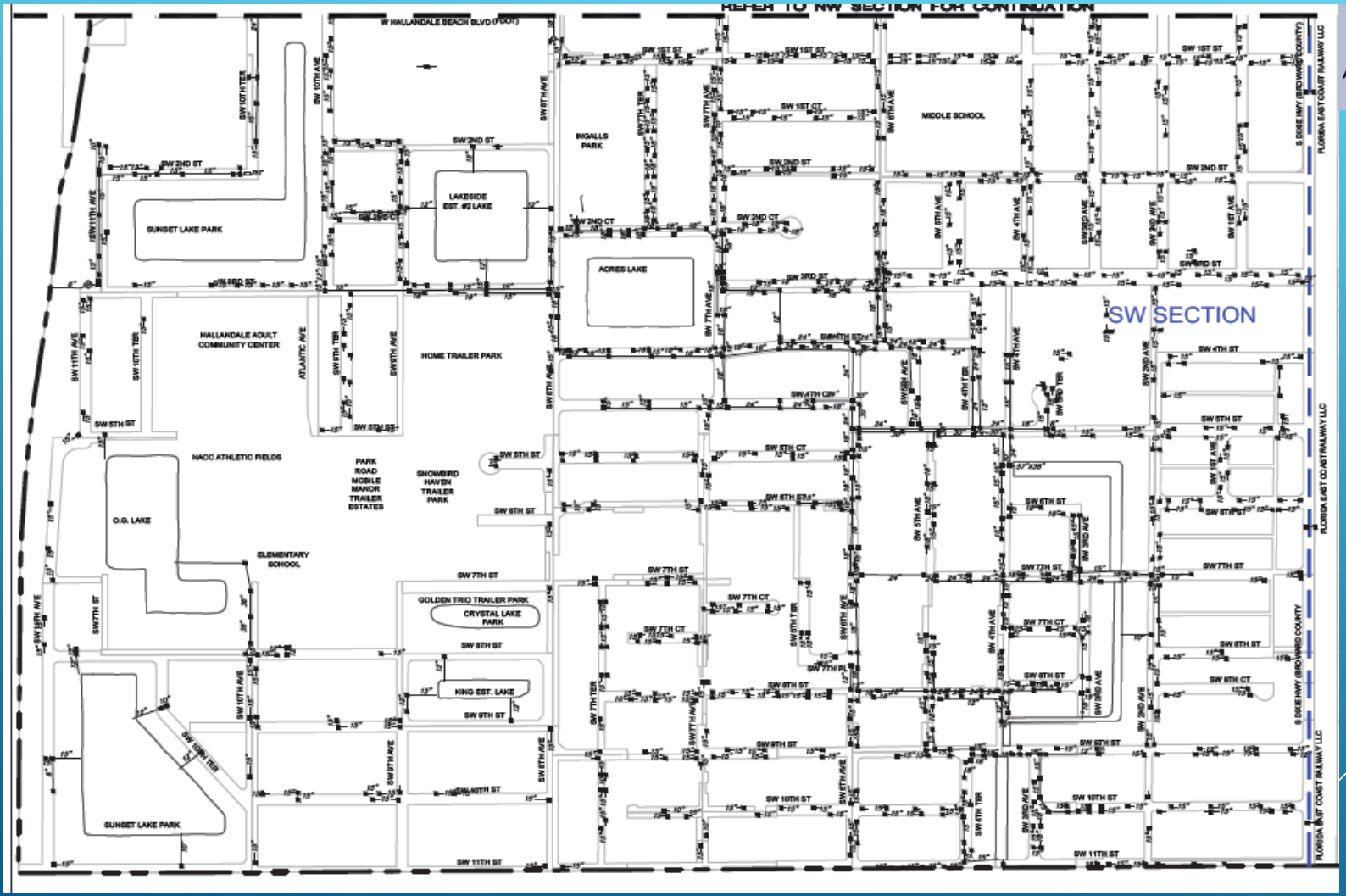
- **24 months** for the <u>project design, permitting and construction bid award</u> (from May 25, 2016 to May 25, 2018)

- **28 months** for the <u>construction</u> (from May 25, 2018 to September 25, 2020)

Current status

- 90% Design plans completed
- Permitting in progress

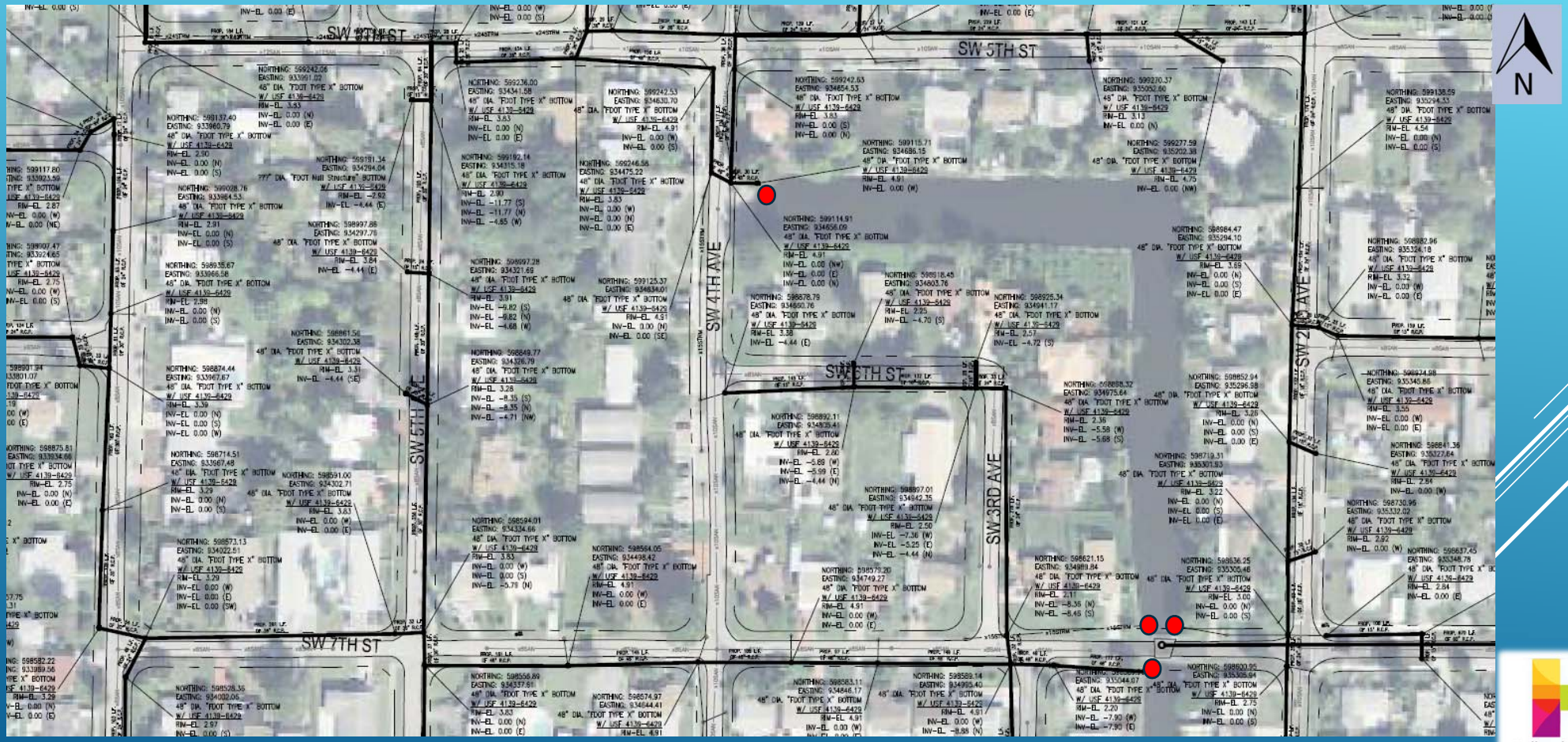
EXISTING DRAINAGE INFRASTRUCTURE



SOUTHWEST QUADRANT DRAINAGE SYSTEM

- Piping
- Catch basins
- Outfalls
- Schaffer Canal

EXISTING DRAINAGE INFRASTRUCTURE



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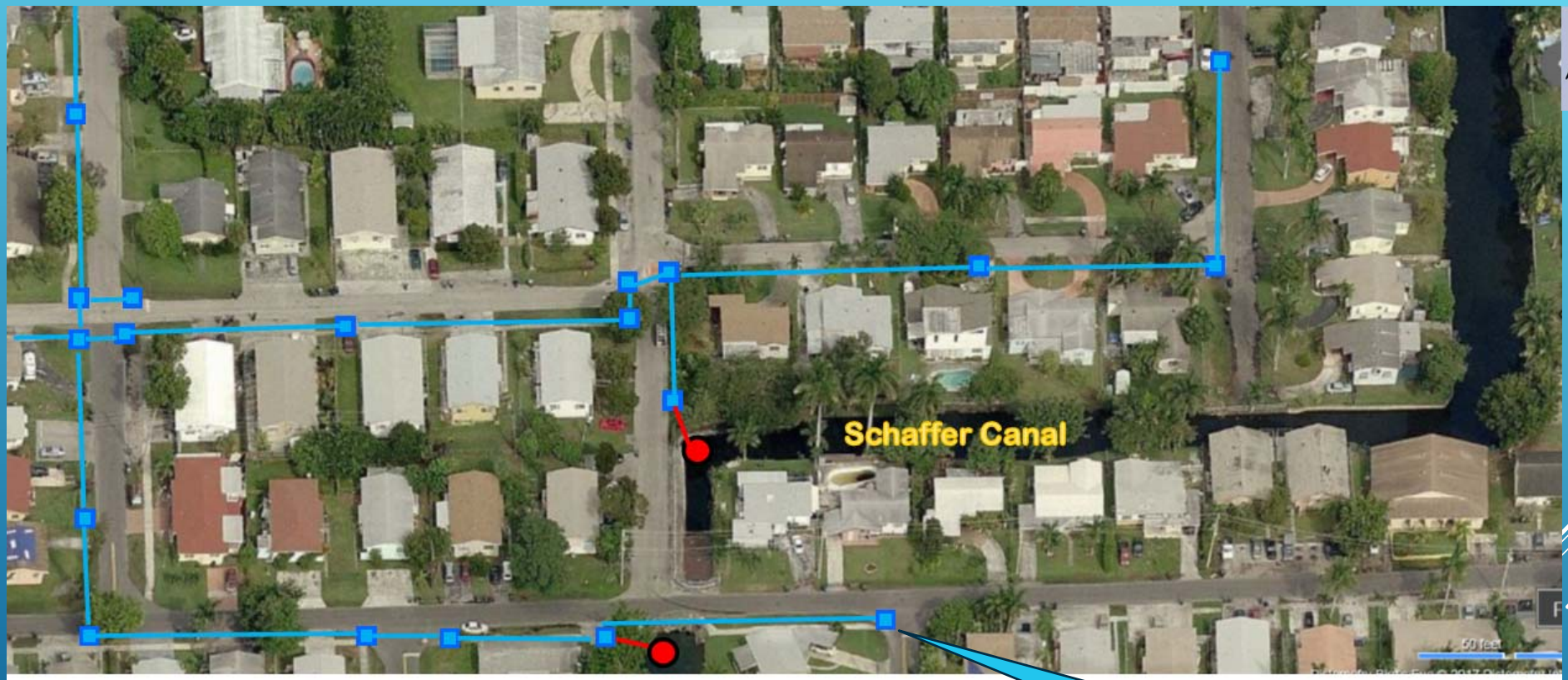

Outfall

Catch basinn

Underground drainage pipe

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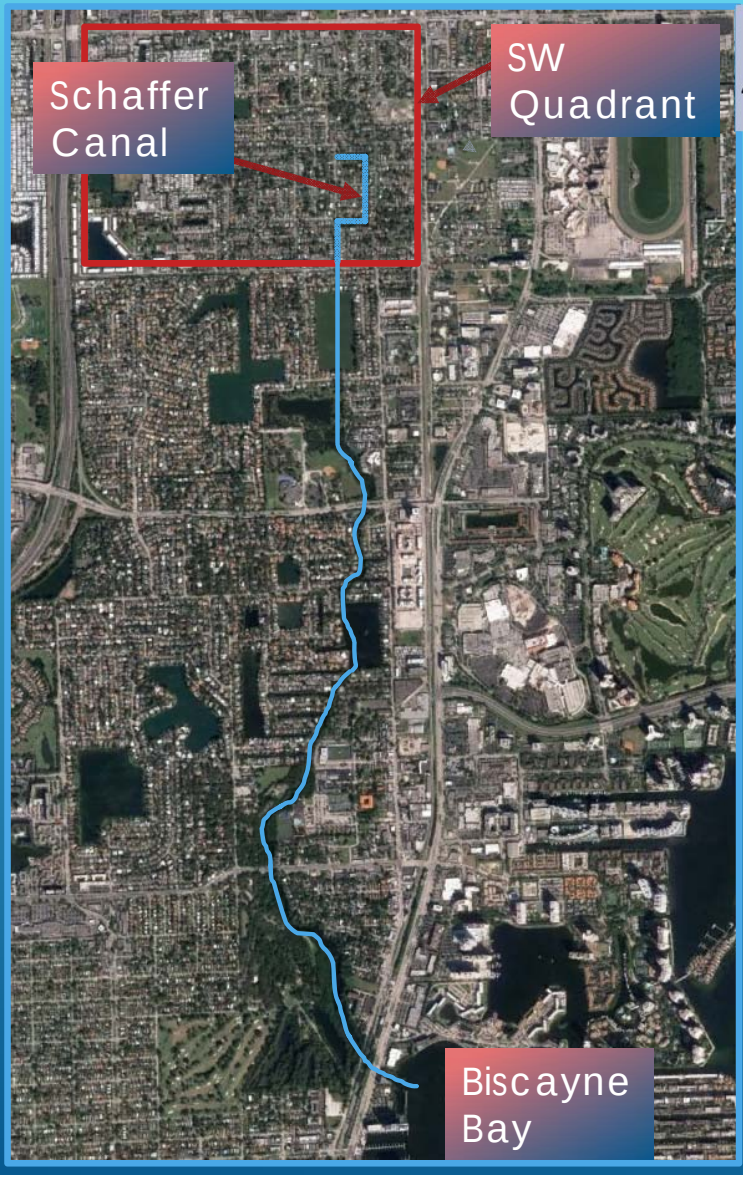
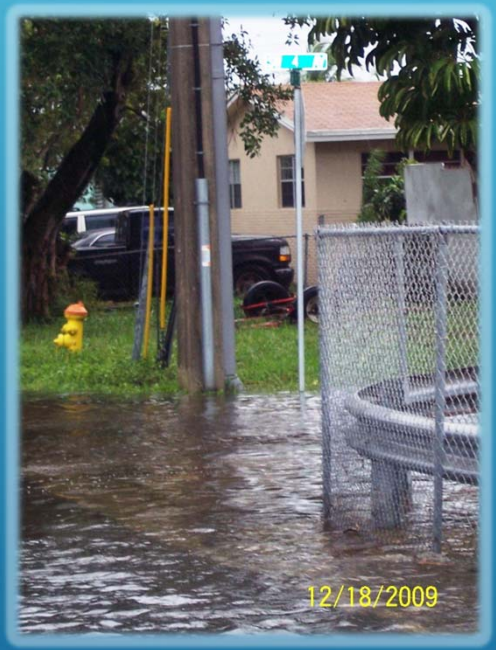


EXISTING CONDITION

- **Schaffer Canal - Tidally influenced**
  - **Capacity of the canal changes constantly**
  - **At high tide the water flow is reversed**



SW 4 Street

SW 3 Street

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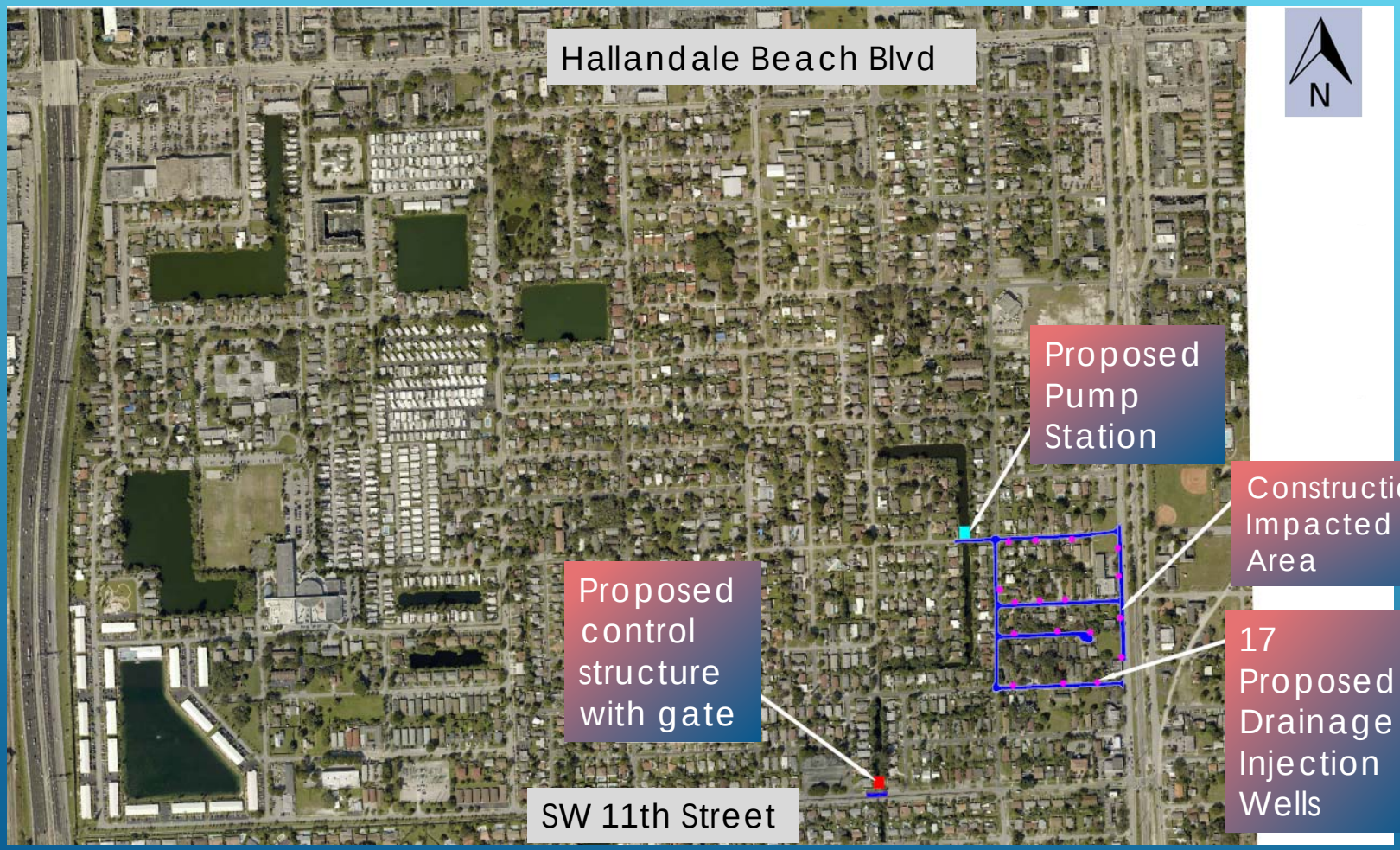
PROPOSED IMPROVEMENTS



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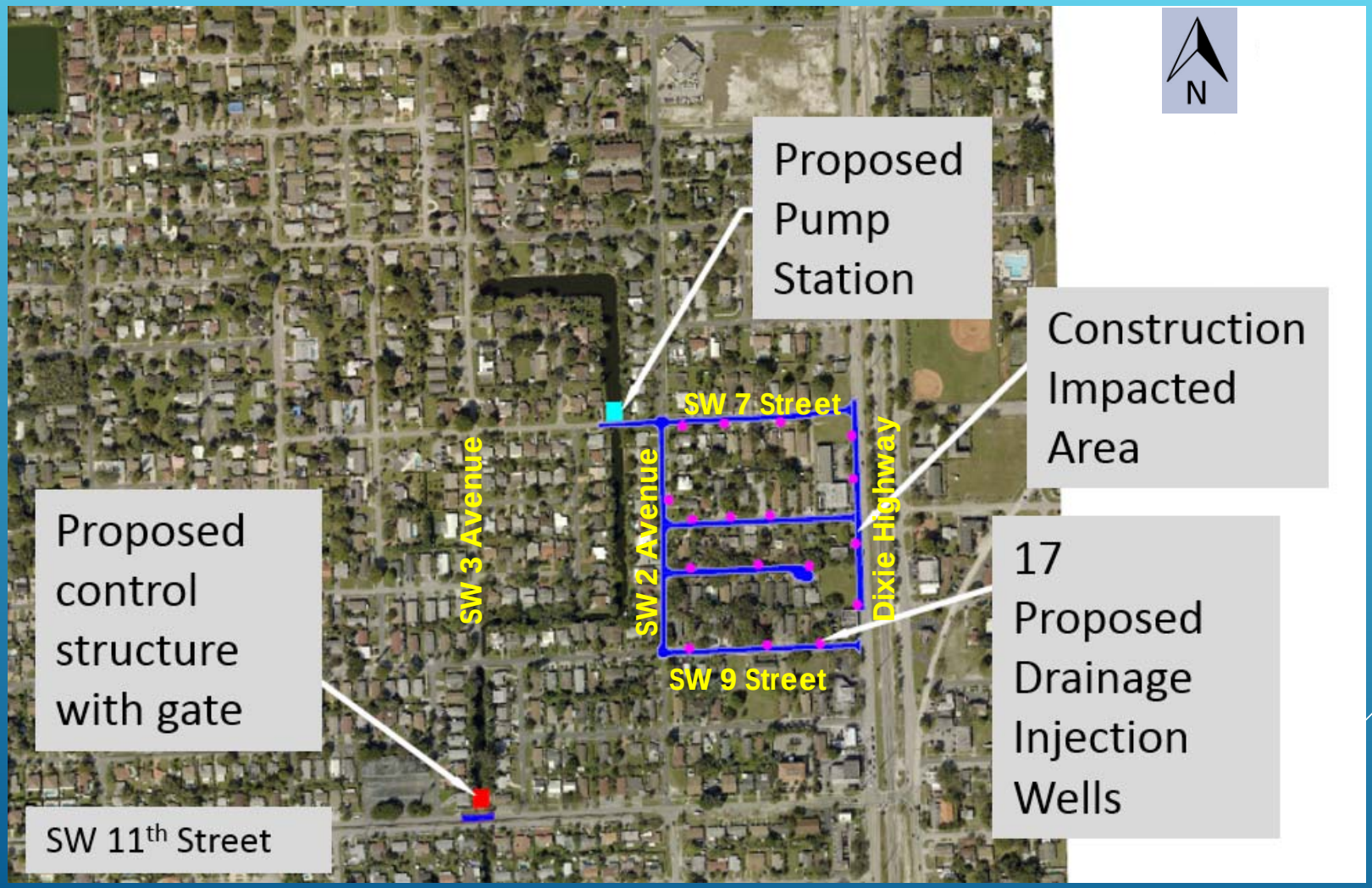


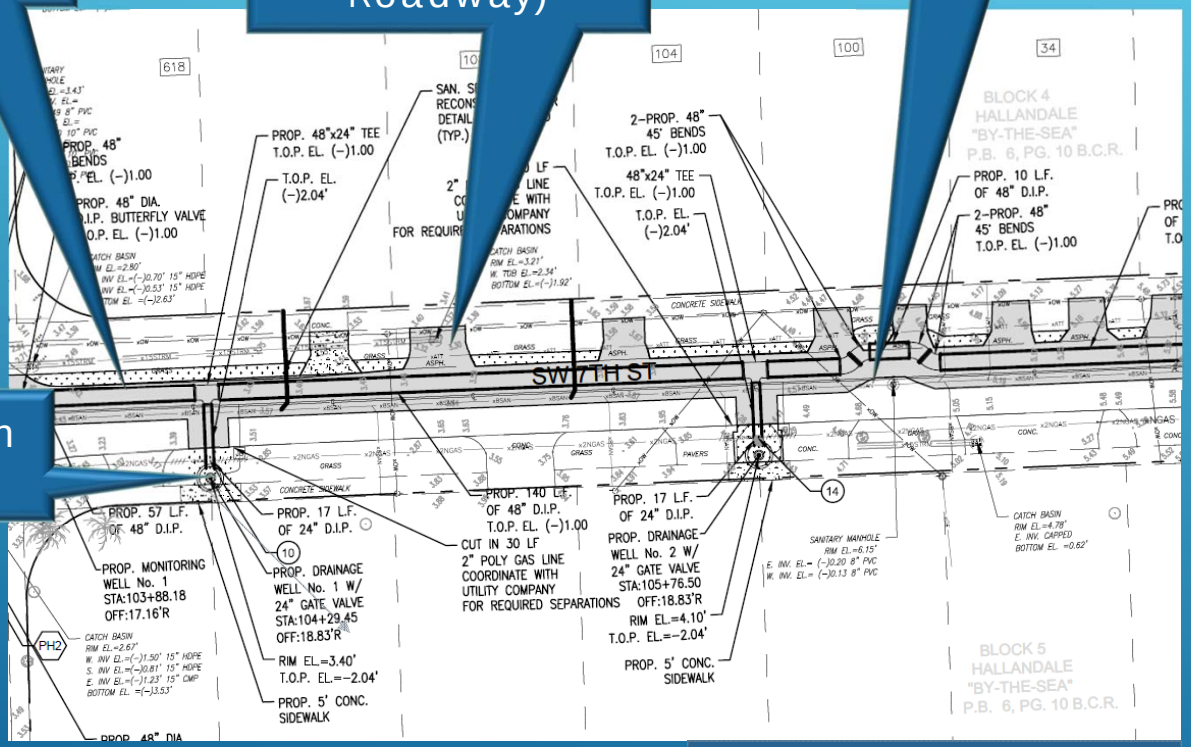
FORCE MAINS AND INJECTION WELLS CONSTRUCTION

New Underground Pipe

Trench Restoration Area (Driveways And Roadway)

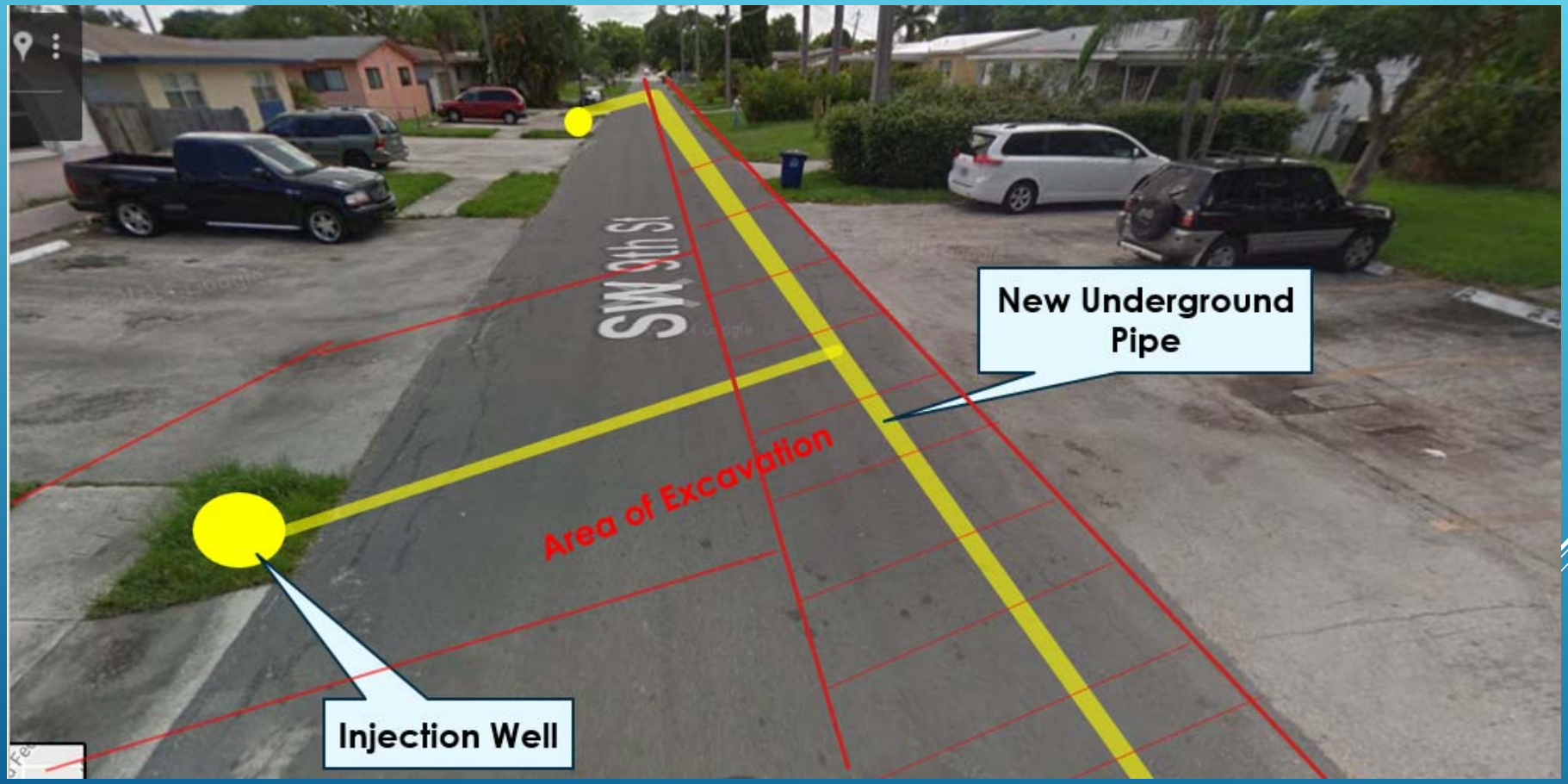
Pipe Routed Around Existing Sewer

Drainage Well In Swale

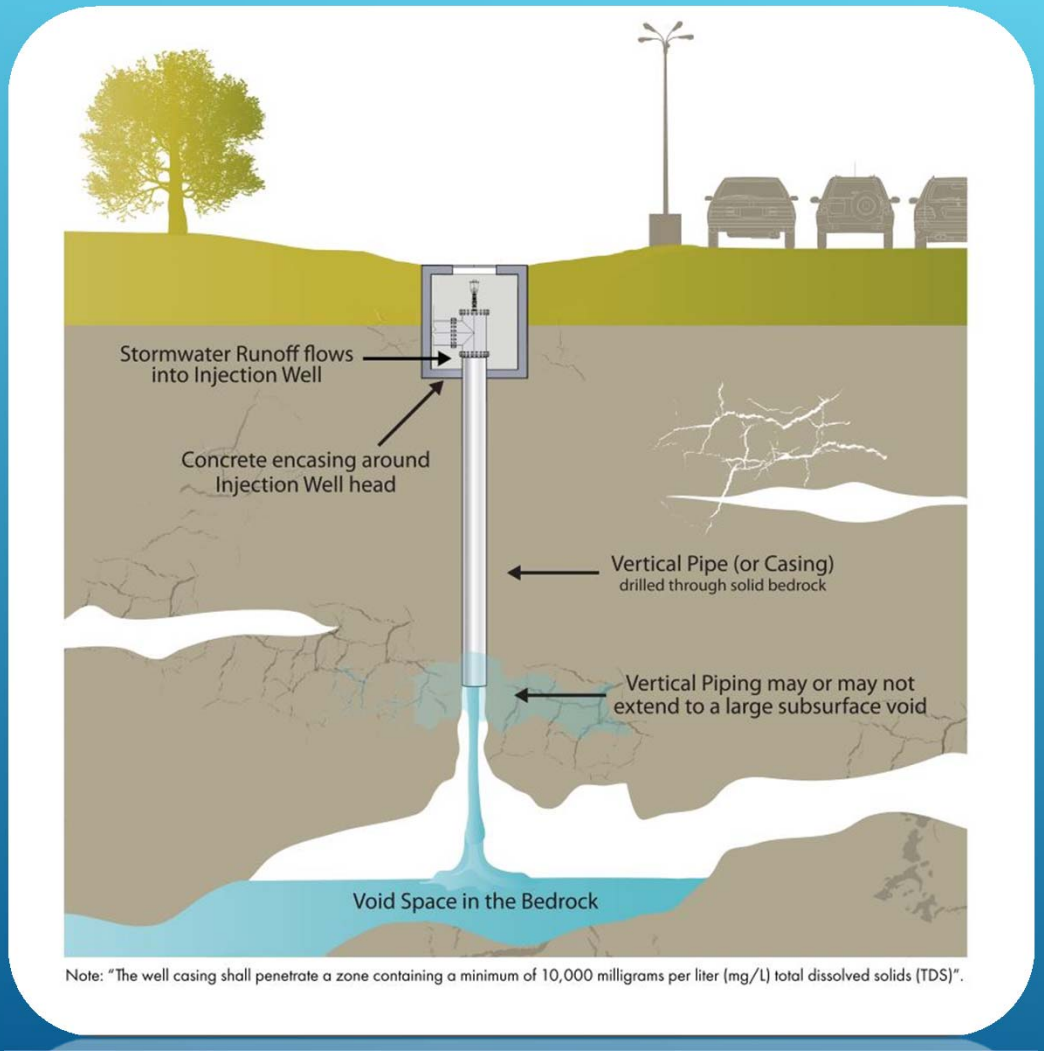


Roadway To Be Repaved At The End Of The Project

UNDERGROUND PIPES AND INJECTION WELLS CONSTRUCTION



WHAT ARE INJECTION WELLS?



Note: "The well casing shall penetrate a zone containing a minimum of 10,000 milligrams per liter (mg/L) total dissolved solids (TDS)".

After Construction

Drainage Well in swale

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 314

SW HALLANDALE BEACH DRAINAGE IMPROVEMENTS
HALLANDALE BEACH, FL

PROJECT LOCATION MAP

DATE 00/00/17

SCALE AS SHOWN
PROJECT No 09-2591.22
SHEET EXH

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
-	-		-				

File Name: P:\Projects\2009\092591 Hallandale Beach NE Quadrant Drainage\092591.22 SW-SE Drainage Re-Start\CADD Files\Drawings\Exhibits\09-2591.22_Drainage Location Map.dwg — [Plotted by: Katherine Rupsky on Tuesday, April 4, 2017 2:51:55 PM]

SW 7TH STREET BRIDGE

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NEW PUMP HOUSE ON SW 7TH STREET

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NEW GENERATOR ON SW 7TH STREET

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NEW CONTROL STRUCTURE @ SW 11ST STREET

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UNDERGROUND PIPES AND INJECTION WELLS CONSTRUCTION

What should the residents expect during the construction?

- Construction activities from 8:00am to 5:00pm Monday to Friday
- Street closure (local traffic ONLY)
- Residents will be able to access their properties

What should the residents expect during the non-working hours and weekends?

- At the end of each working day the excavated area will be temporarily restored with asphalt
- At the end of each working day and weekend the roads will remain open for regular traffic
- At the end of each working day the road will be swept

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