



Charles/Craven Street and Port Republic Carteret Street Drainage Improvement Project

Public Meeting
August 1, 2024



MEET THE TEAM

City of Beaufort (COB)

Phil Cromer, Mayor

Scott Marshall, City Manager

J.J. Sauve, Assistant City Manager and Capital Projects Director

Carrie Gorsuch, Engineering and Infrastructure Project Support Coordinator

South Carolina Office of Resilience (SCOR)

Pam Kendrick, Infrastructure Program Manager

Shauna Webb, Infrastructure Program Project Manager

Lisa Falta, Infrastructure Program Project Engineer

McCormick Taylor (MT)

Jason Hetrick, Project Manager

Kim Sitta, Environmental Permit Lead

Hassan Ismail, Drainage Design Lead



DESIGN APPROACH



Project Limits



Project Considerations



Grand Trees and Landscaping



Waterfront Park Hardscaping

Project Considerations



Narrow Streets & Close Buildings

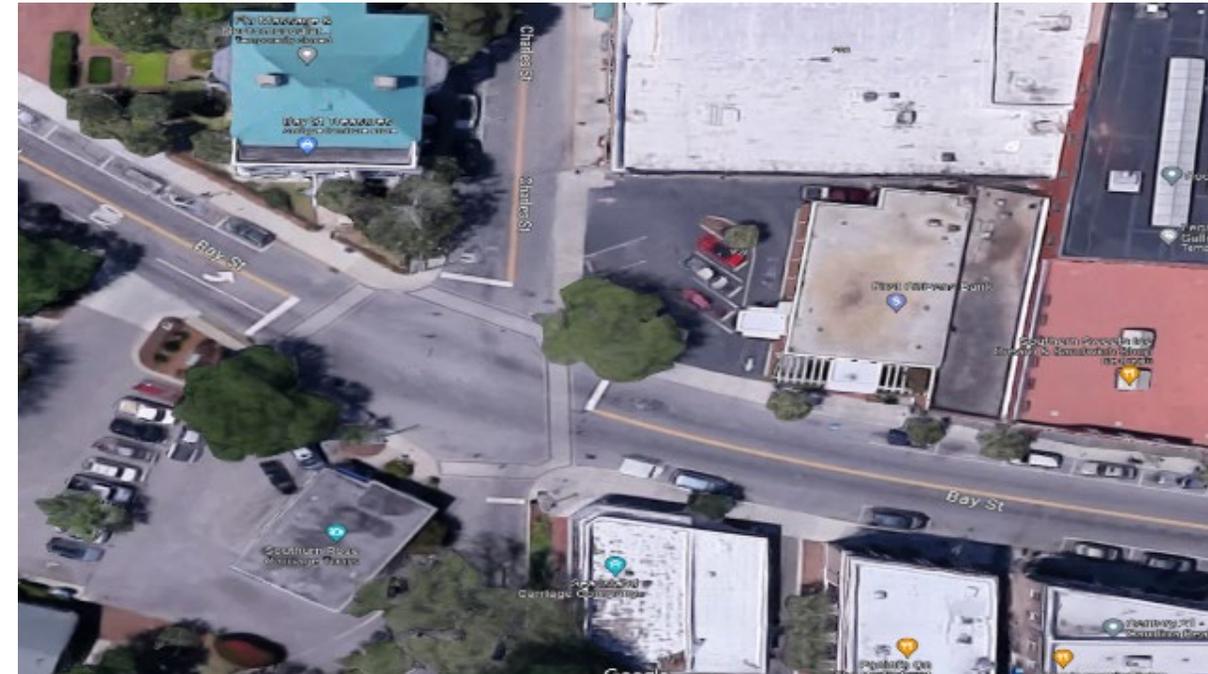


Utilities, Traffic, Signals & ADA

Project Considerations



Resident and Emergency Service Access

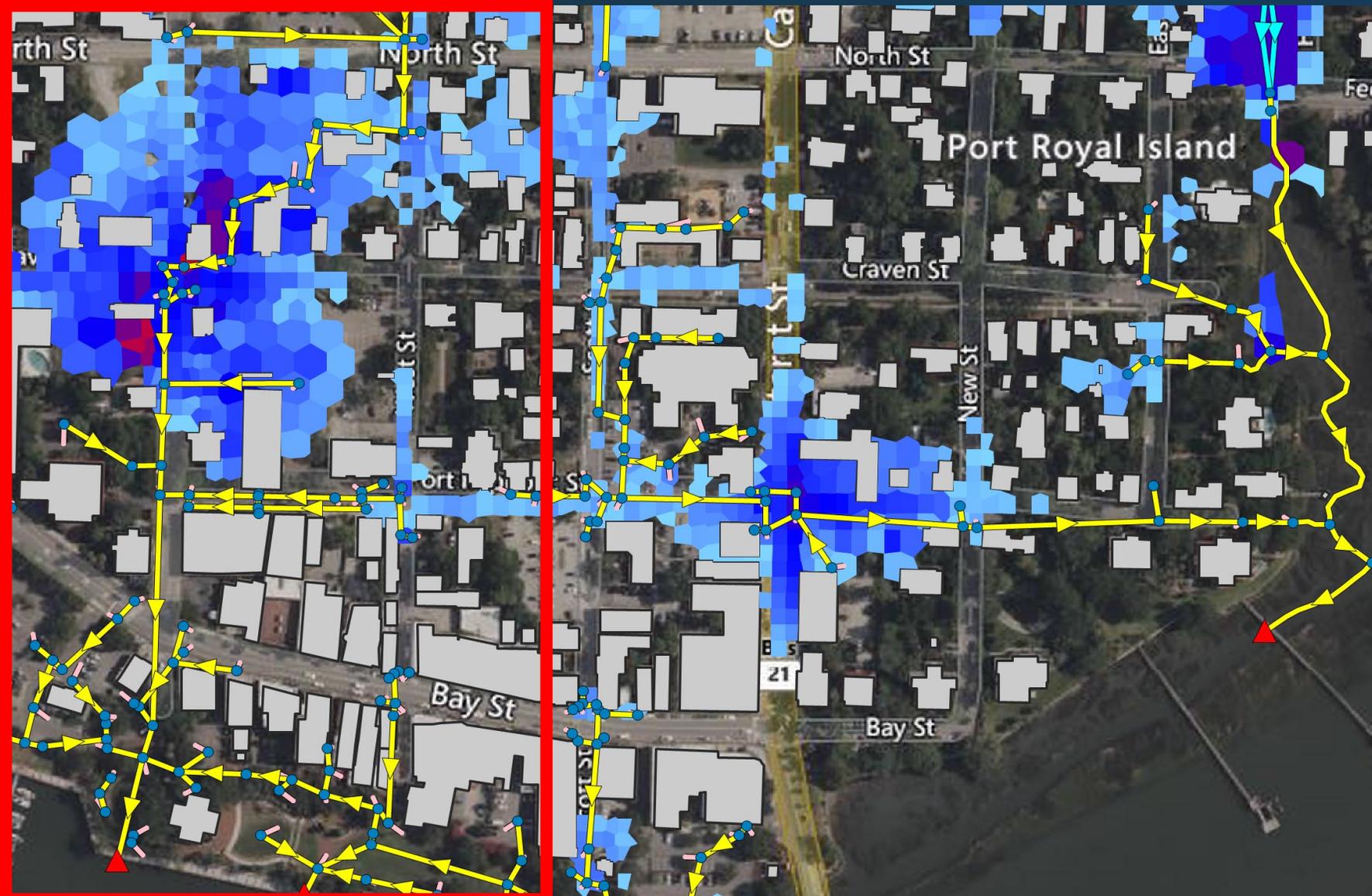


Maintenance of Traffic

CHARLES STREET



Current Conditions Flooding: 25-Year Storm: Charles/Craven



- ▲ Outfalls
- Junctions
- Orifices
- Weirs
- Stages
- Conduits
- 2D cells - Max. Depth (ft)
- Obstruction
- Bounding_PCSWMM



Design Approach

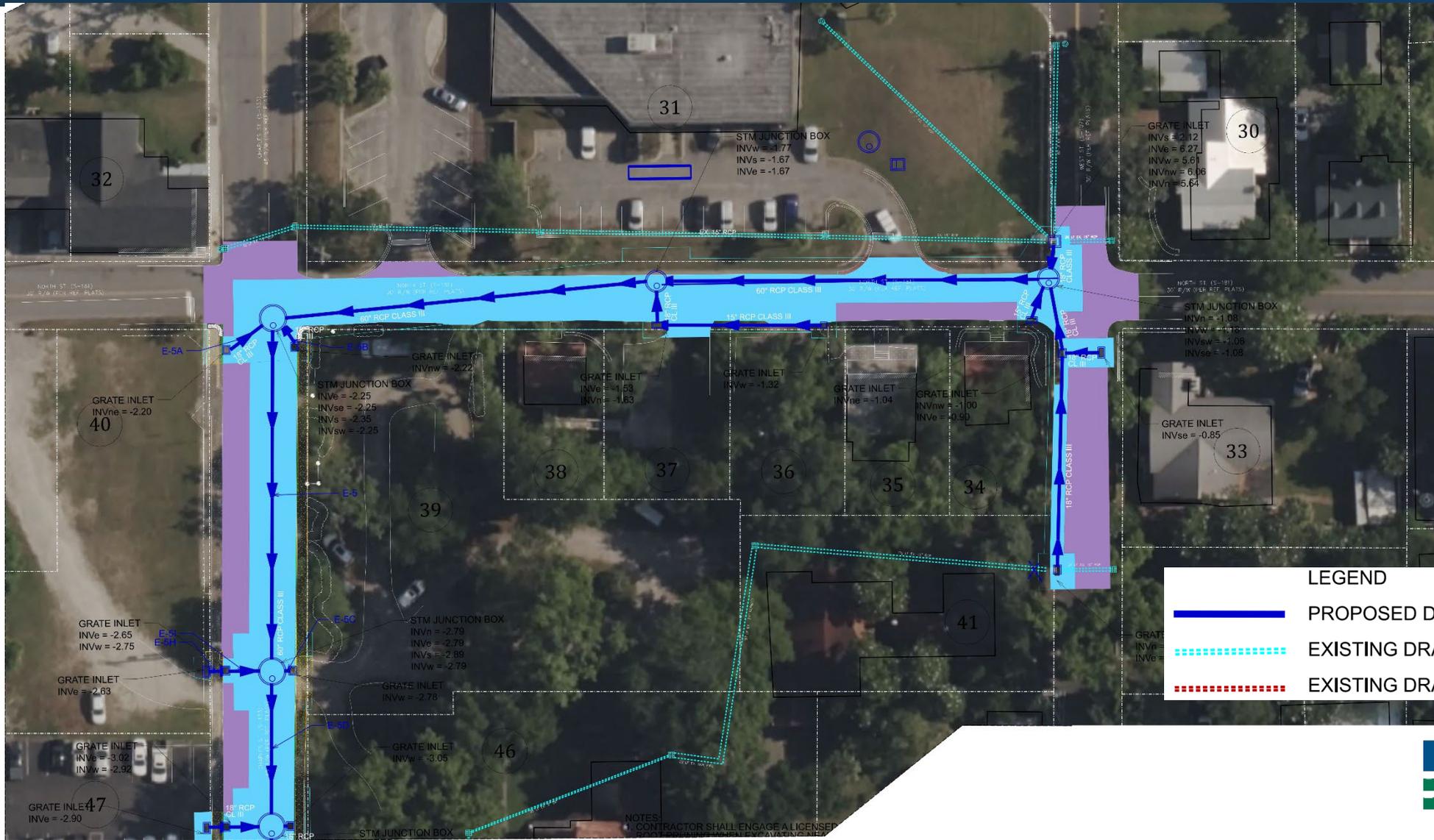


Charles St and Craven St

- Enlargement of trunk line along Charles St to 72-inch pipe
- New stormdrain pipes along Charles St between North St and Craven St
- New stormdrain pipes along North St between Charles St and West St
- New stormdrain pipes along Craven St between Charles St and West St
- Identify areas to install water quality stormwater facilities
- Tidal gate installation at outfall



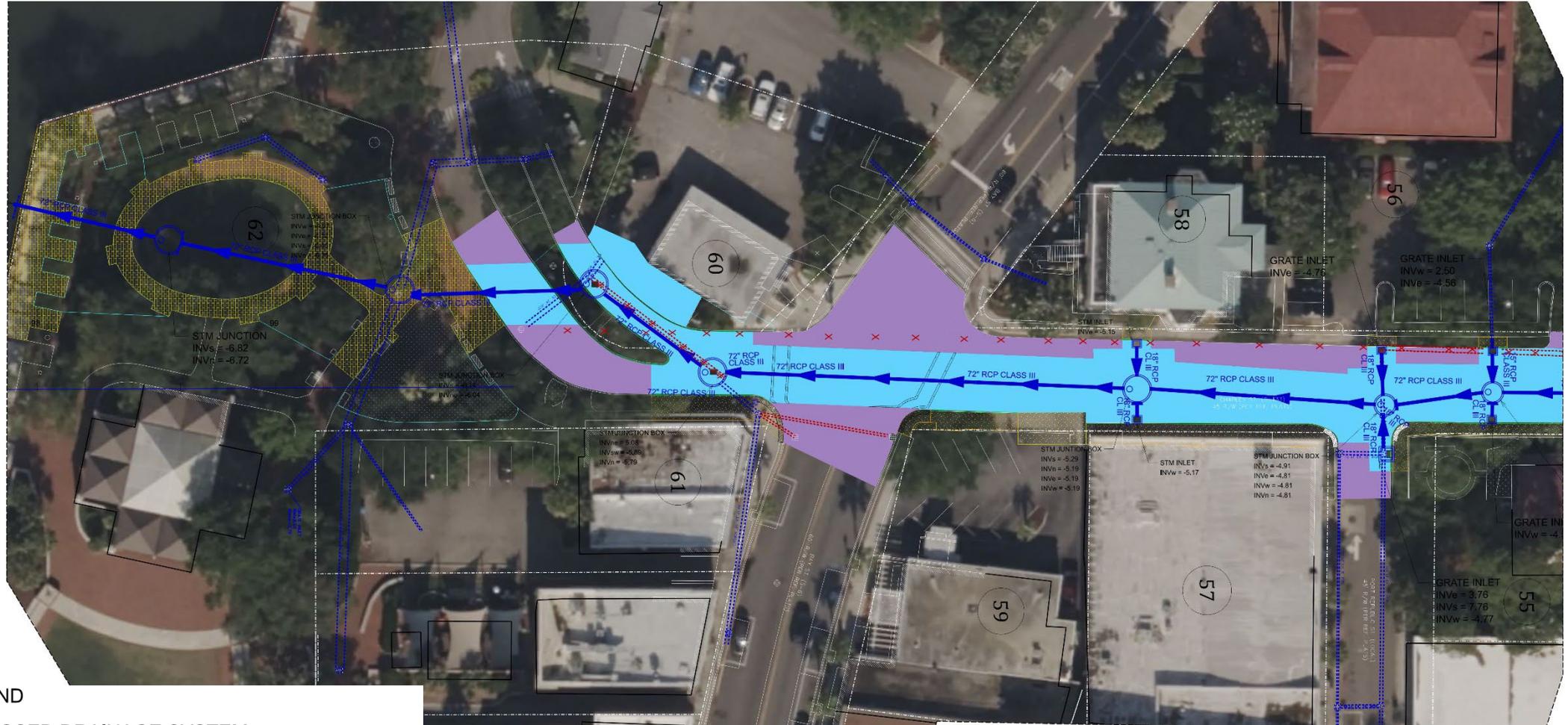
Proposed Improvements: Charles/Craven



Proposed Improvements: Charles/Craven



Proposed Improvements: Charles/Craven

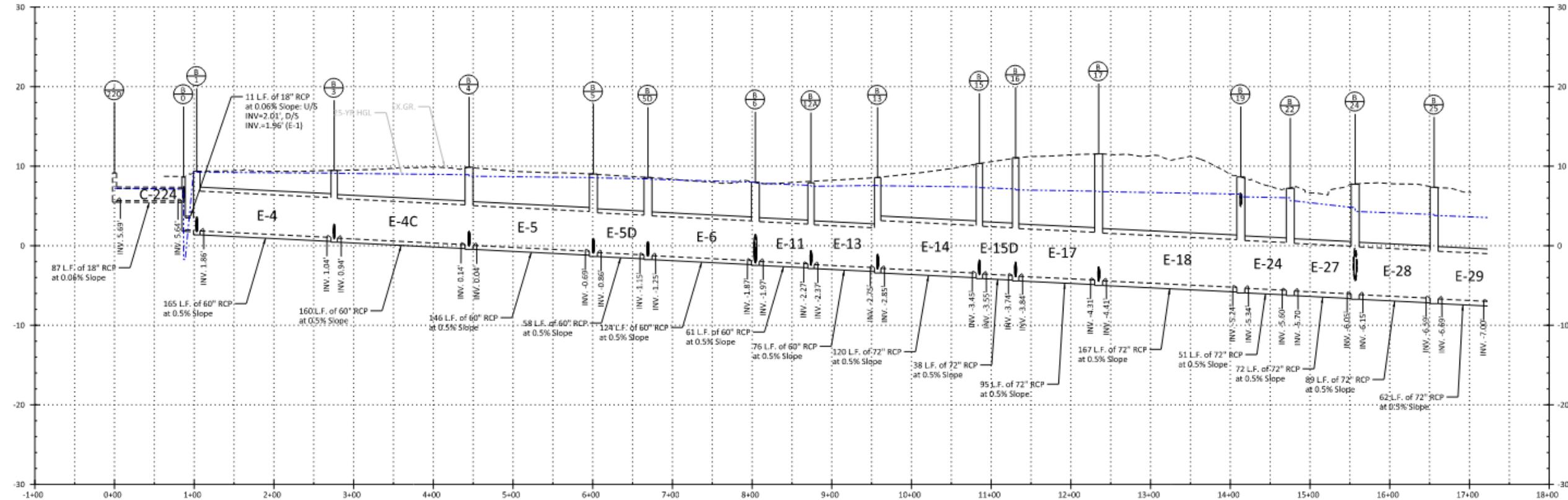


LEGEND

-  PROPOSED DRAINAGE SYSTEM
-  EXISTING DRAINAGE SYSTEM TO REMAIN
-  EXISTING DRAINAGE SYSTEM TO BE ABANDONED



Proposed Conditions Flooding: 25-Year Storm: Charles/Craven

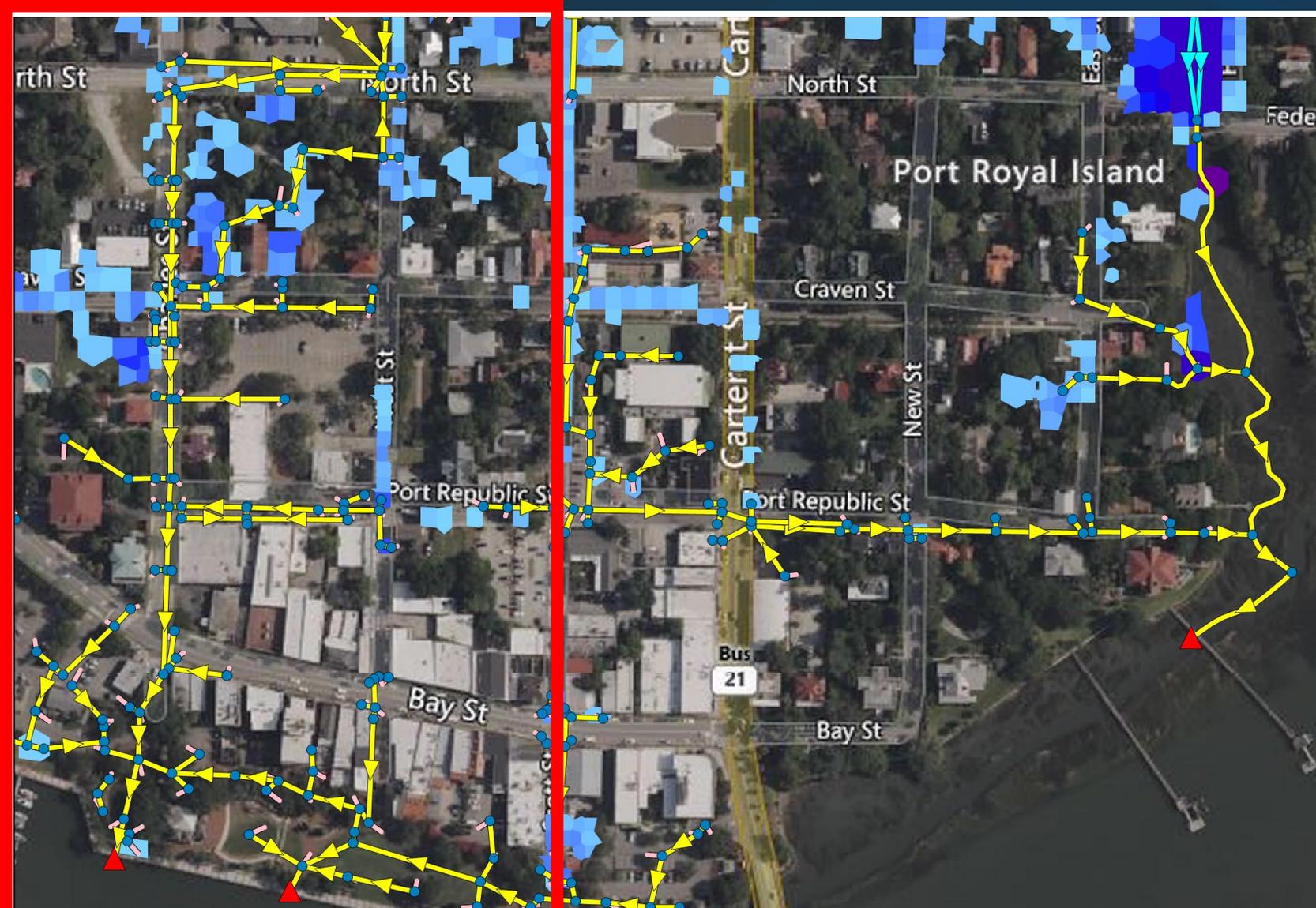


25-YEAR HYDRAULIC
GRADIENT LINE

GROUND / SURFACE



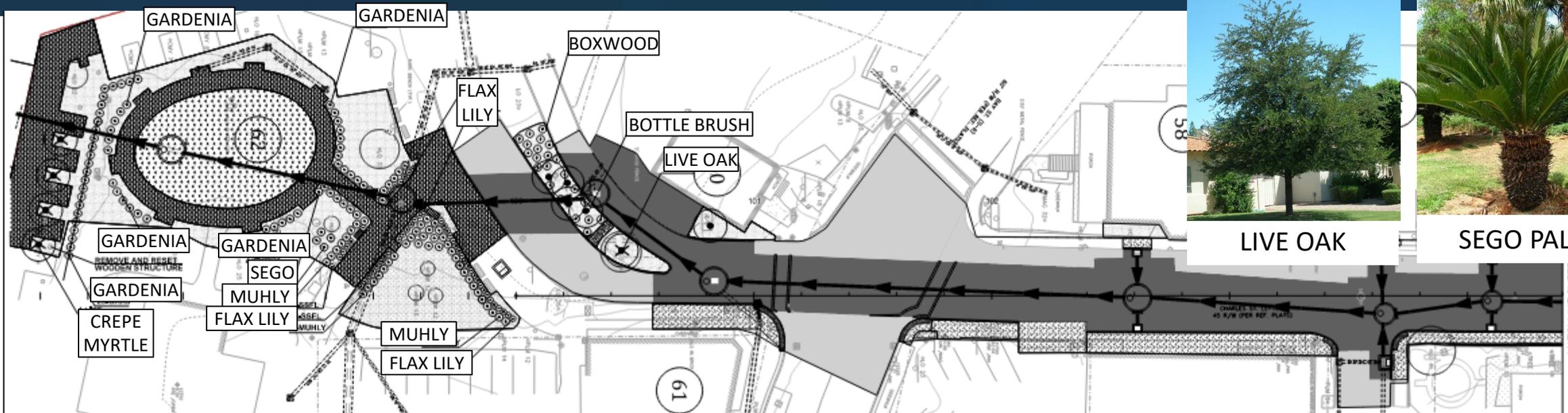
Proposed Conditions Flooding: 25-Year Storm: Charles/Craven



- ▲ Outfalls
- Junctions
- Orifices
- Weirs
- Stages
- Conduits
- 2D cells - Max. Depth (ft)
- Obstruction
- Bounding_PCSWMM



Site Restoration: Charles/Craven



LIVE OAK



SEJO PALM



RED BOTTLE BRUSH



PINK MUHLY GRASS



BOXWOOD



CREPE MYRTLE



FROST PROOF GARDENIA



SILVER STREAK FLAX LILY



REV.	BY	DATE	DESCRIPTION OF REVISION

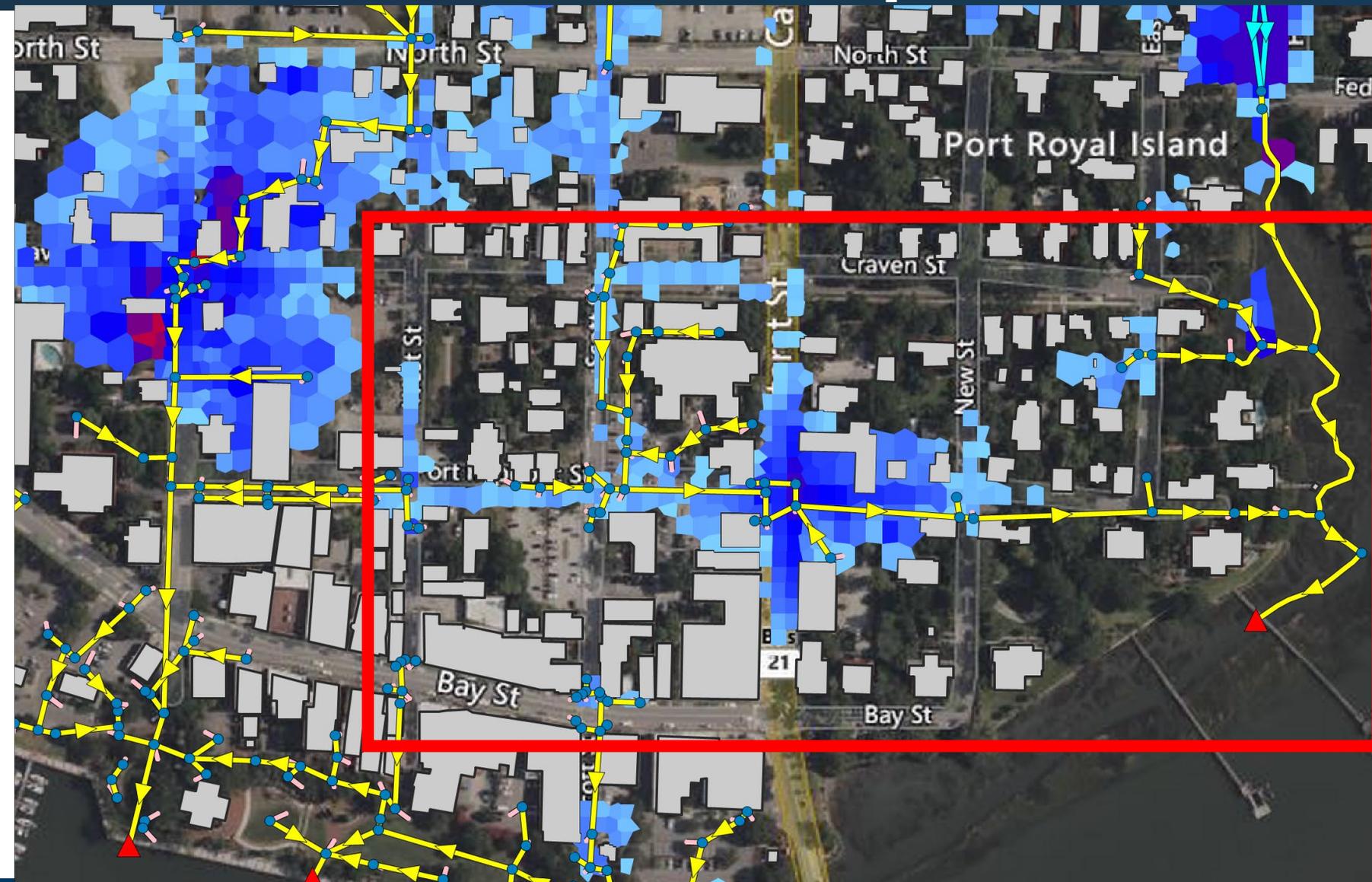
CHARLES / CRAVEN ST
 PORT ERUBLIC / CARTERET ST
 DRAINAGE IMPROVEMENT PROJECT

SCALE: 1" = 20'
 RTF - DWG. NO. 178

PORT REPUBLIC STREET



Current Conditions Flooding: 25-Year Storm: Port Republic/Carteret



- ▲ Outfalls
- Junctions
- Orifices
- Weirs
- Stages
- Conduits
- 2D cells - Max. Depth (ft)
- Obstruction
- Bounding_PCSWMM



Design Approach

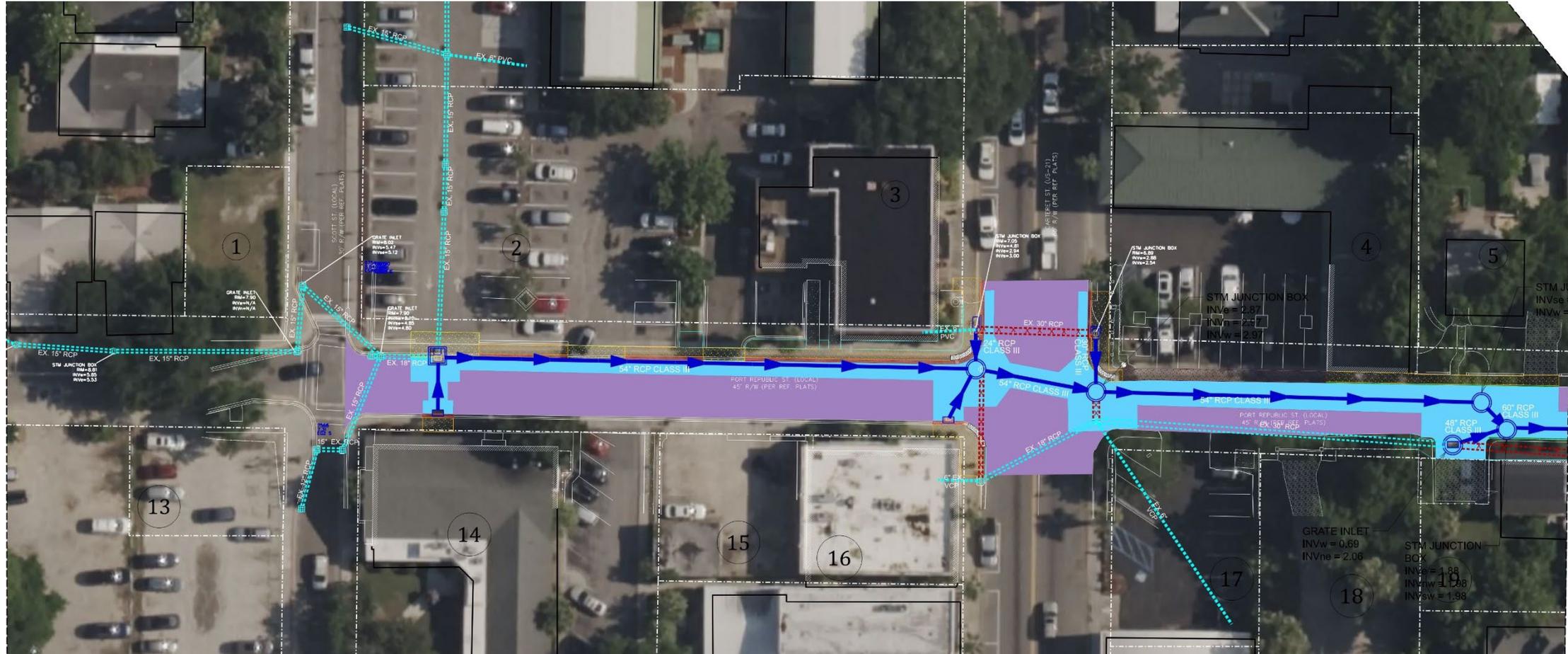


Port Republic St and Carteret St

- Enlargement of trunk line along Port Republic St.
- Connecting existing systems into new trunk line
- Confirmation that existing cross street drainage is adequate
- Identify areas to install water quality stormwater facilities
- Tidal gate installation at outfall
- Complex construction phasing due to narrow streets



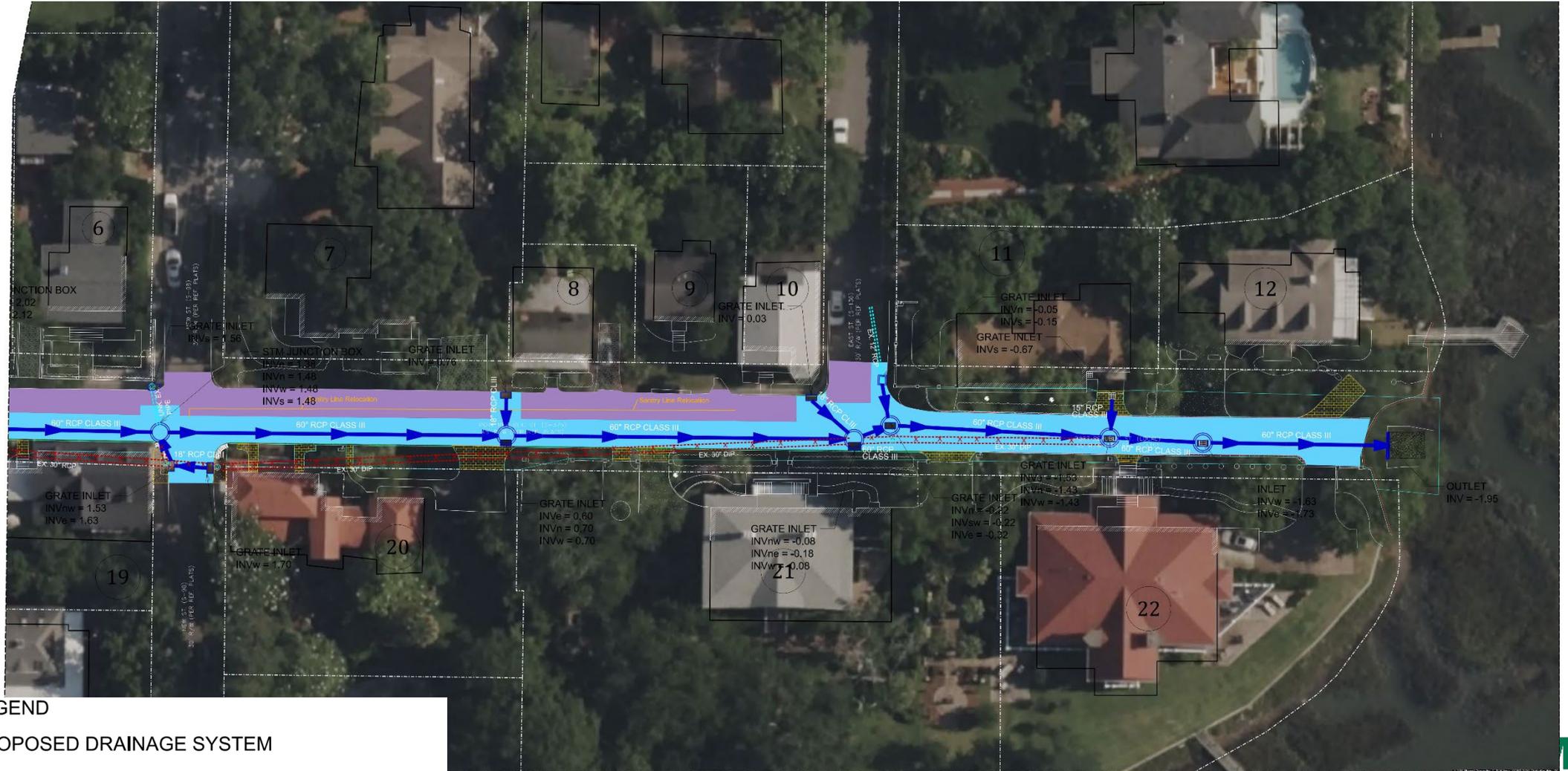
Proposed Improvements: Port Republic/Carteret



- LEGEND**
- PROPOSED DRAINAGE SYSTEM
 - - - - EXISTING DRAINAGE SYSTEM TO REMAIN
 - EXISTING DRAINAGE SYSTEM TO BE ABANDONED



Proposed Improvements: Port Republic/Carteret



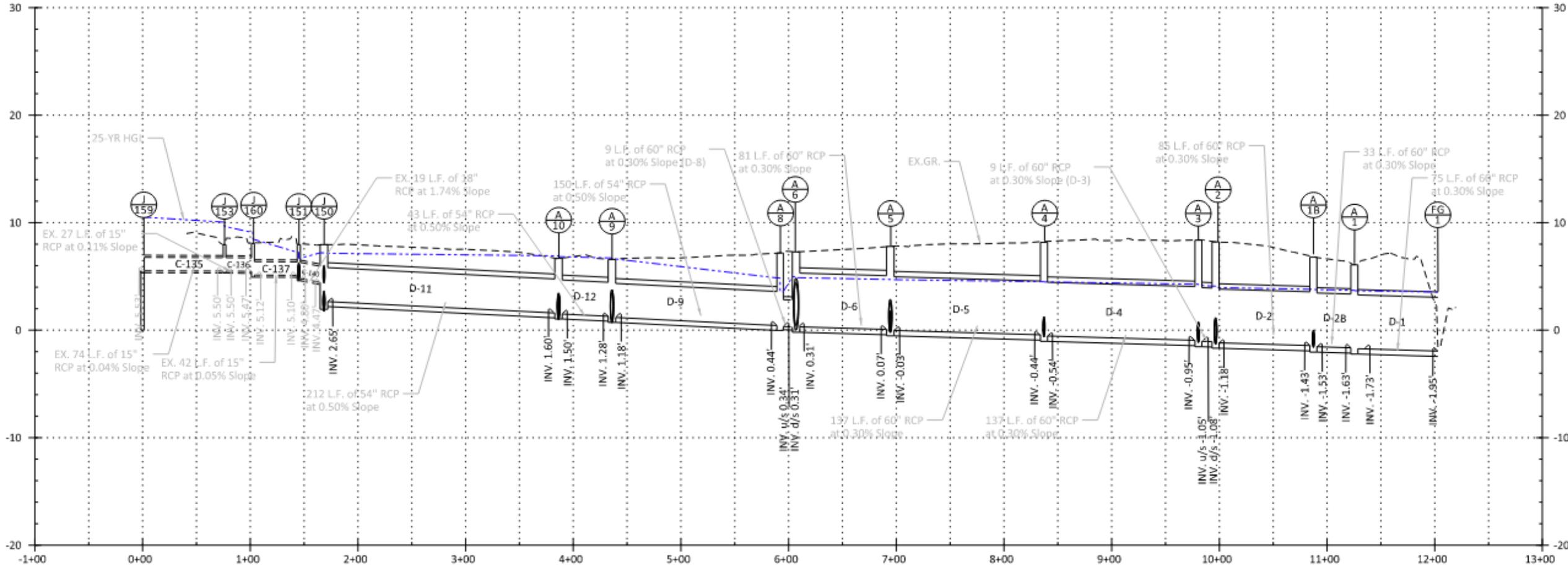
LEGEND

- PROPOSED DRAINAGE SYSTEM
- - - - - EXISTING DRAINAGE SYSTEM TO REMAIN
- - - - - EXISTING DRAINAGE SYSTEM TO BE ABANDONED

MICK

TAYLOR

Proposed Conditions Flooding: 25-Year Storm: Port Republic/Carteret



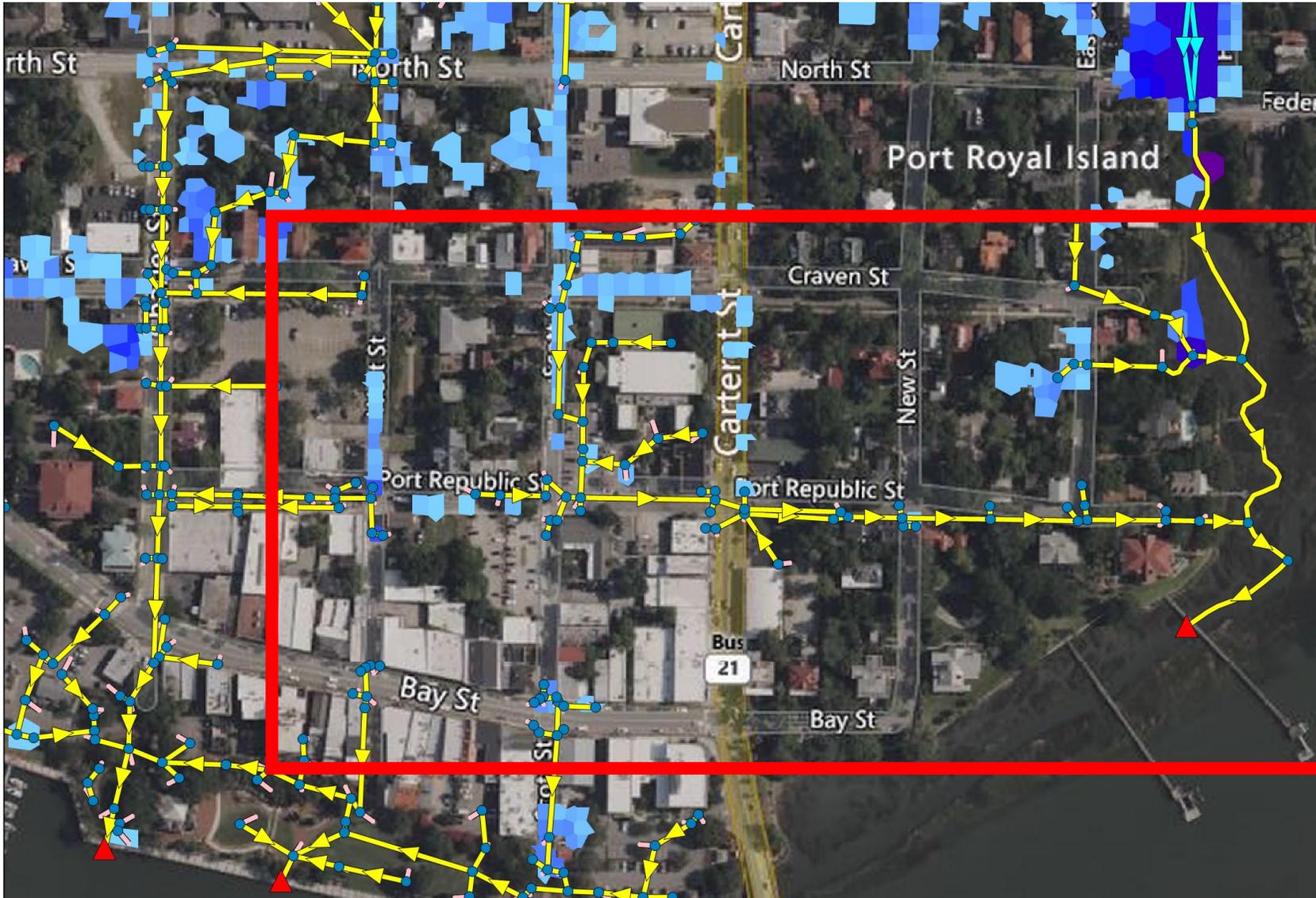
25-YEAR HYDRAULIC
GRADIENT LINE



GROUND / SURFACE



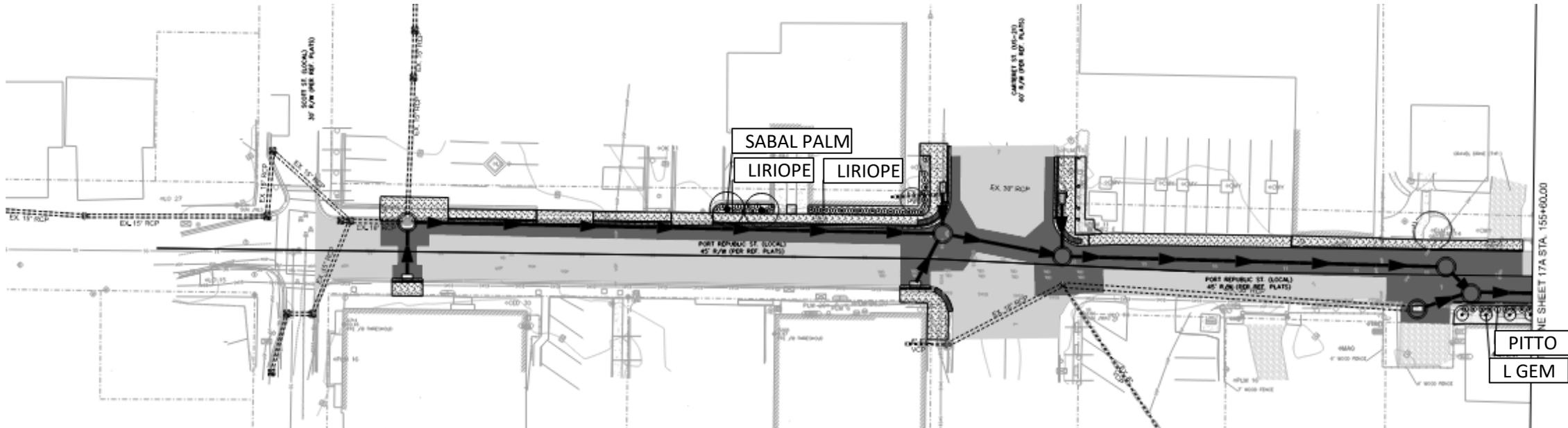
Proposed Conditions Flooding: 25-Year Storm: Port Republic/Carteret



- ▲ Outfalls
- Junctions
- Orifices
- Weirs
- Storages
- Conduits
- 2D cells - Max. Depth (ft)
- Obstruction
- Bounding_PCSWMM



Site Restoration: Port Republic / Carteret



PITTOSPORUM



LITTLE GEM MAG.



SABAL PALM



LIRIOPE MUSCARI
AKA LILYTURF

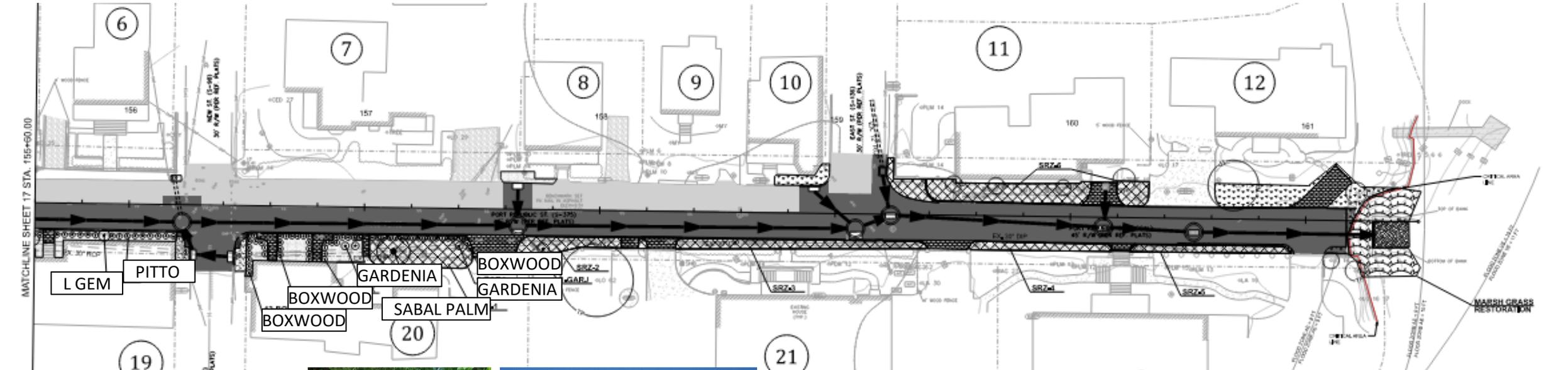
⊙ PROP. SHRUB	— REPLACE AND RESET BRICK CURB	▨ BRICK SIDEWALK OR DRIVEWAY APRON	■ FULL DEPTH PAVING
⊙ PROP. PLANT	— 6 INCH HEADER CURB	▨ CONCRETE SIDEWALK OR DRIVEWAY APRON	■ 2-INCH MILL AND RESURFACE
⊙ PROP. PLANT	— CURB AND GUTTER	▨ WOOD BARK MULCH	■ BERMUDA TURFGRASS SOD

4					
3					
2					
1					
REV.	BY	DATE	DESCRIPTION		
1					
TOP/DRAWN BY		DATE			
DWG. NO./CORR. DATE					
REV.	DATE				

SCALE 1"=20' RTE. DWG. NO. 1T

NE SHEET 17A STA. 155+00.00

Site Restoration: Port Republic / Carteret



BOXWOOD



PITTOSPORUM



SABAL PALM



**FROST PROOF
GARDENIA**

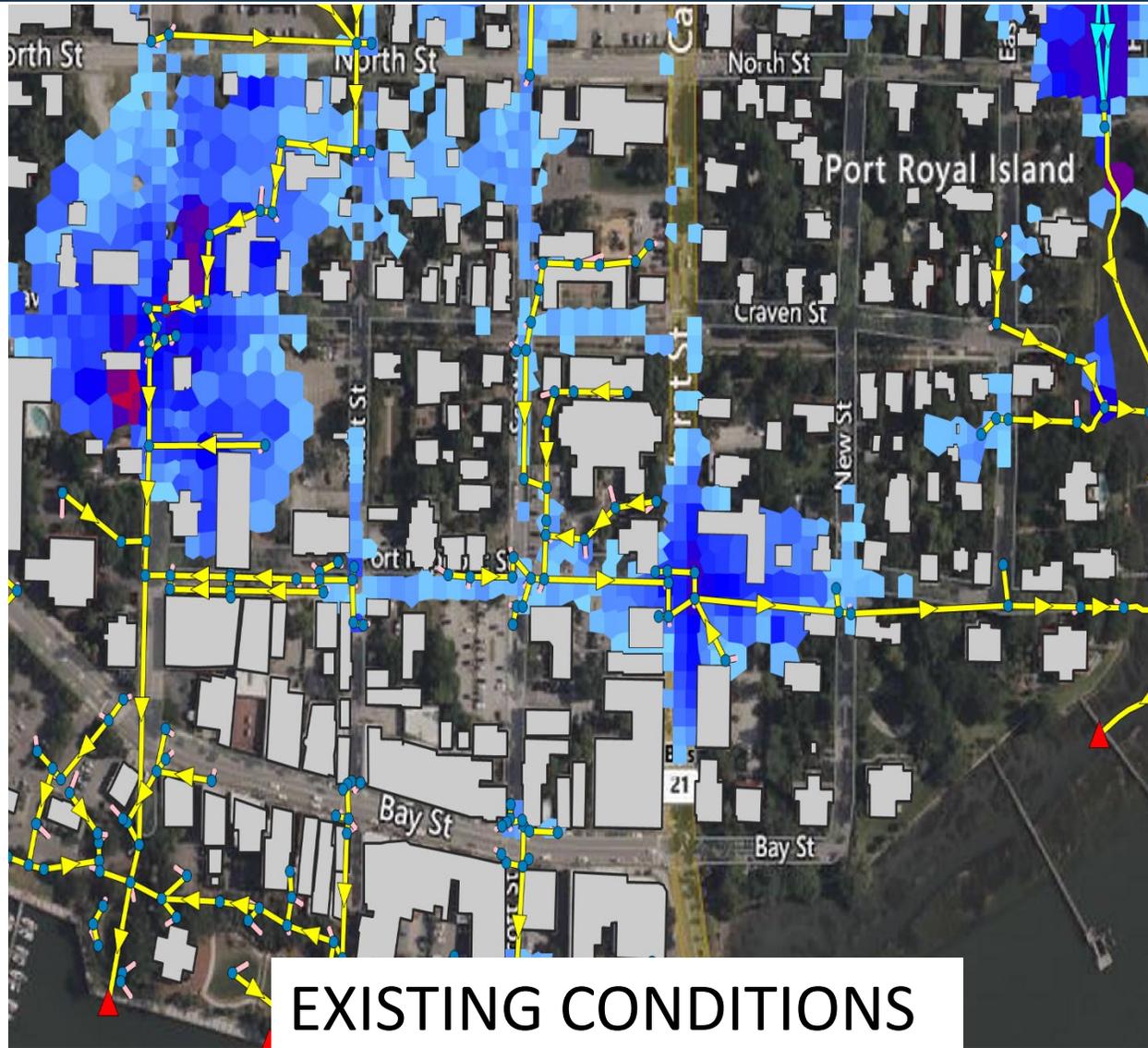


LITTLE GEM MAG.

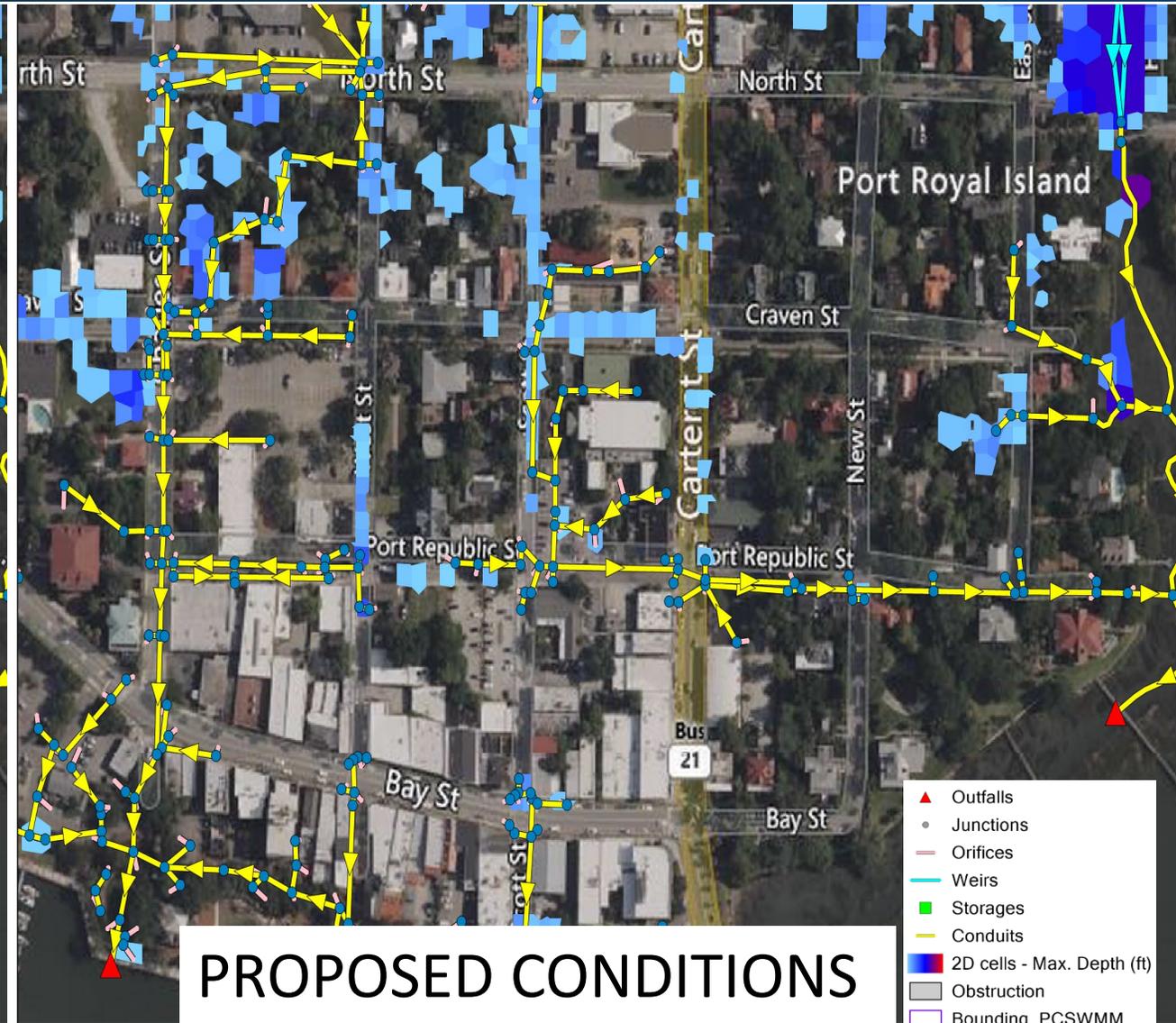


4
3
2
1
TOPO. 0
DWG. 0
REV. 0

Existing/Proposed 25-Year Flooding



EXISTING CONDITIONS



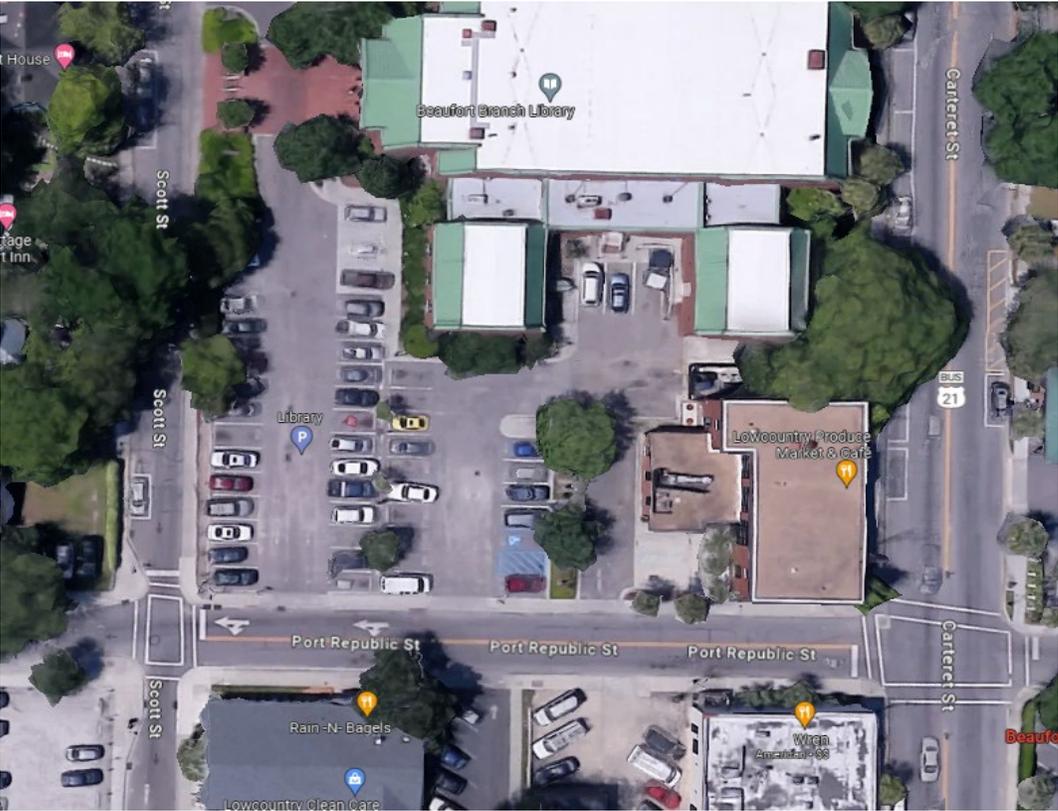
PROPOSED CONDITIONS

- ▲ Outfalls
- Junctions
- Orifices
- Weirs
- Storages
- Conduits
- 2D cells - Max. Depth (ft)
- Obstruction
- Bounding_PCSWMM

WATER QUALITY



Water Quality Stormwater Facilities



City Parking Lot at Scott and Port Republic



City Parking Lot at Marina and Waterfront Park



Water Quality Stormwater Facilities



BIORETENTION



PERVIOUS PAVEMENT



STORMCEPTOR



PROJECT SCHEDULE

- Design: Ongoing
- Final Design: Fall 2024
- Construction Advertisement: Late Fall 2024
- Construction Awarded: December 2024
- Construction Complete: May 2026

QUESTIONS?

Project Contacts:

JJ Suave, City of Beaufort
jsauve@cityofbeaufort.org

Jason Hetrick, McCormick Taylor
Jmhetrick@mccormicktaylor.com

Shauna Webb, South Carolina Office of Resilience
shauna.webb@scor.sc.gov

FOR MORE
INFORMATION VISIT:

