



BOROUGH OF
Manasquan
New Jersey



Engineering
& Design

Manasquan Borough Community Mapping

PROJECT UPDATE
August 2025

Colliers Engineering & Design

Agenda

- 1 Project Need
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- 4 Future Drainage Project Map
- 5 Future Shade Tree Map
- 6 Future Flood Resilience Map
- 7 Future Projects
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- 9 Public Comment

Introduction

Program Need

- The goal of this task was to develop a way of coordinating and consolidating the various improvement efforts being completed by the Borough
- The Borough invests in large infrastructure projects, and focused areas of beautification, long term sustainability, and preparing for future climate changes should not be ignored in the planning and design of projects.
- Over the last year, the Borough has taken existing information, forecasted information, as well as the planning and desire of specialized focus groups to create reference maps to help guide the Borough's future improvements
- These maps will help be used as a reference point in initial discussions and checkpoints for the design process.

Project Description

These maps were created/coordinated for future project coordination:

- 1 Existing Road Conditions Map
- 2 Future Drainage Project Map
- 3 Future Shade Tree Map
- 4 Future Flood Resilience Map

Existing Road Conditions Map

- The Borough has maintained a standing record of the existing condition of each road.
- As roads are improved, they go from being red to green.
- The Borough updates the conditions of roads based on deterioration and need for repair.
- Helps plan annual road programs up to five years out.
- A = Excellent Condition
- B = Good Condition
- C = Fair Condition
- D = Poor Condition



Future Drainage Project Map

- The Borough has invested in tracking and updating each drainage manhole and inlet within the Borough, along with outfalls
- This map incorporates County Lidar topographic data to assess the overland flow to help determine where future drainage systems should be installed to reduce standing water.
- Existing bubbler systems will eventually be tied into drainage systems that lead to outfalls.
- Existing outfalls that are too small have been flagged to be updated such as Stockton Lake Bulkhead which is in design right now.



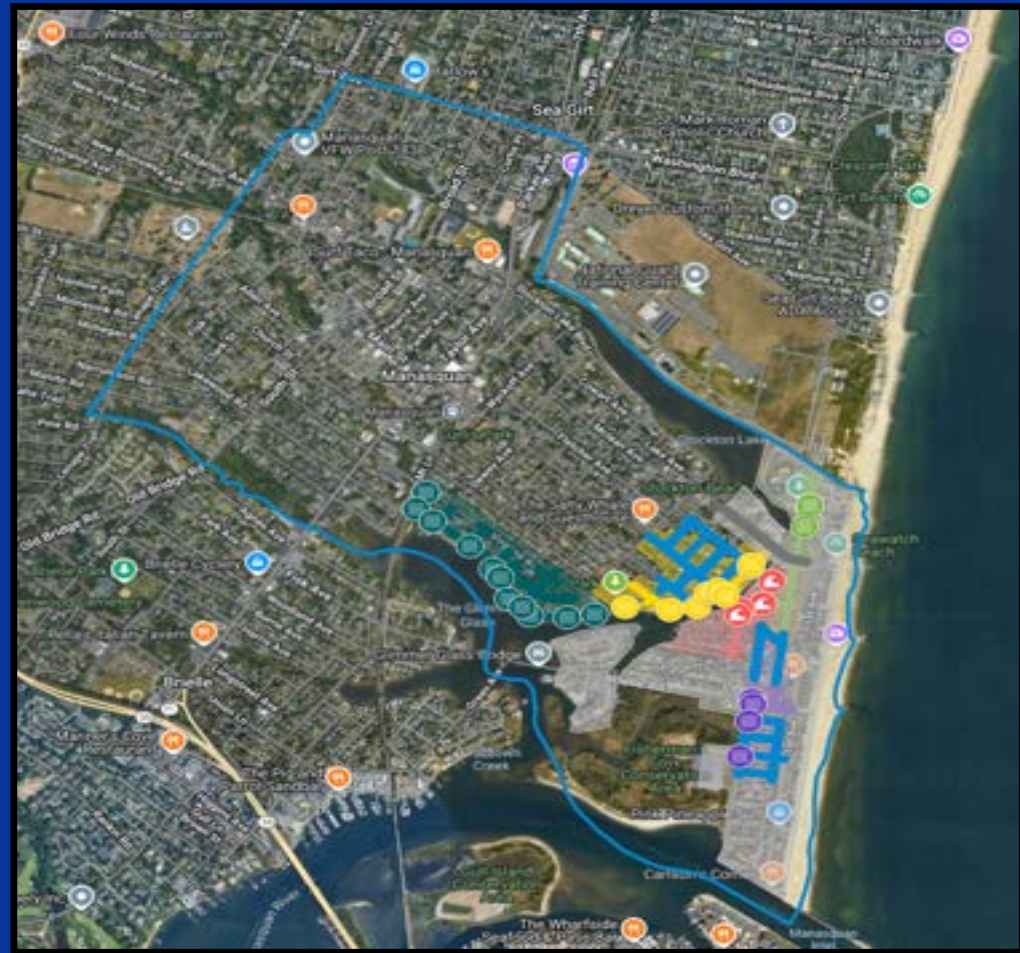
Future Shade Tree Map

- This map is handled by the Manasquan Shade Tree Commission
- <https://www.keepsquangreen.com/>
- This map is referenced in our design process in coordination with DPW for areas where Planting is desired.
- Recommendations of which type of tree would be coordinated and then installed into the project.
- Map tracks the following:
 - Shade Trees
 - Ornamental Flowering Trees
 - Evergreen Trees
 - New Trees to be Watered



Future Flood Resilience Map

- The Borough has invested in looking at realistic projects that will help the Borough protect against future flood events.
- Each section of the Borough was evaluated by OEM with what we feel can be completed as a **realistic** improvement.
- These conversations included:
 - Elevating Bulkheads
 - Elevating Roads
 - Installation of Tide Valves
- The goal would be to package these projects in a priority order and look for Federal, State and County funding to offset Borough investments.

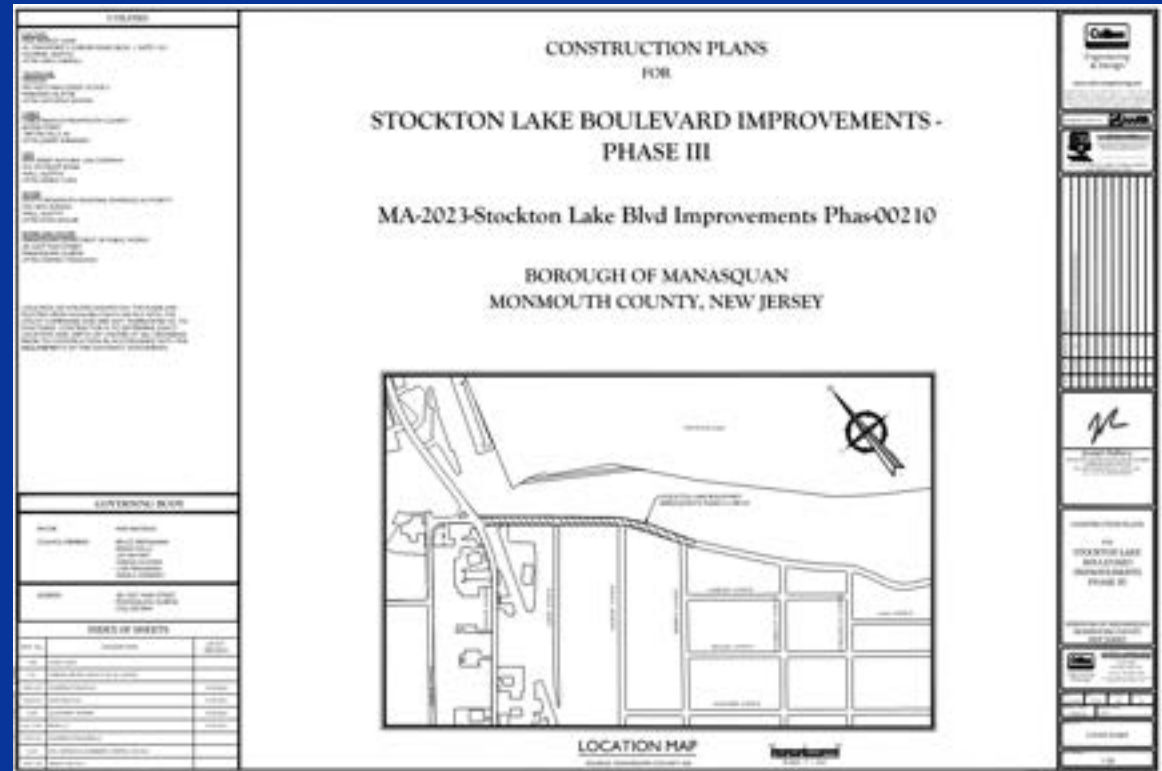


CURERNT PROJECTS

- Stockton Lake Boulevard Roadway Improvements Phase III
- Stockton Lake Bulkhead Improvements
- Winterstella Park Improvements
- First Avenue Phase III and Riverside Drive Improvements

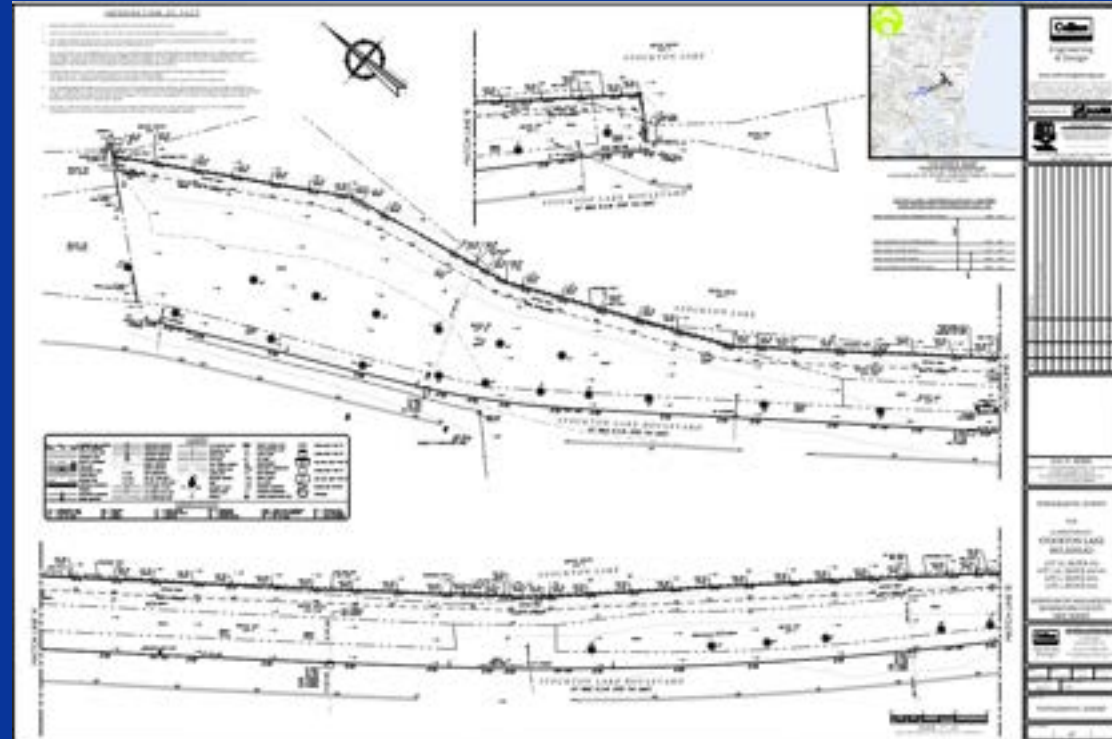
STOCKTON LAKE BOULEVARD IMPROVEMENTS - PHASE III

- Establish Concrete Curb and Gutter to guide stormwater to new and refurbished inlets.
- Milling and paving of roadway limits
- Sidewalk replacement
- Permitting Required: SCD
- Project Cost: \$605,000.00
- Grants: \$274,290.00 from NJDOT Municipal Aid Program
- Maps Used:
 - Future Drainage Project Map



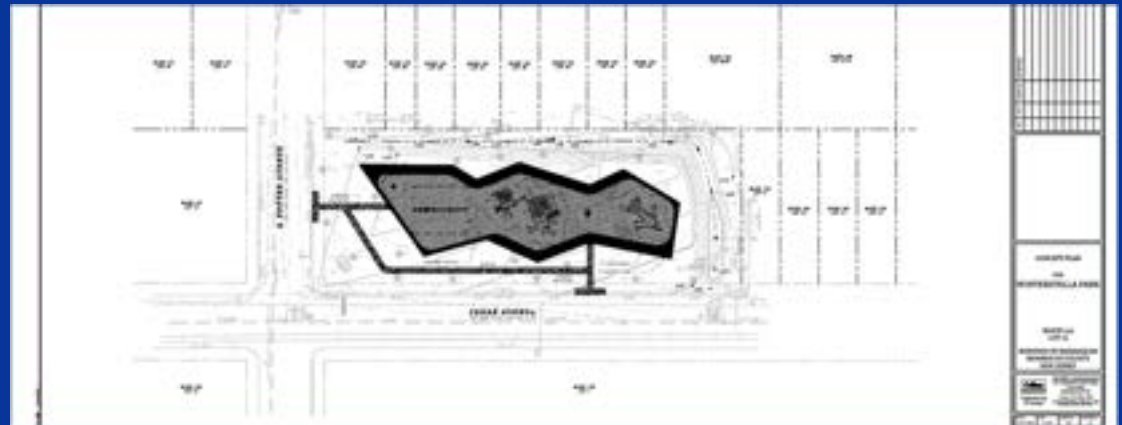
STOCKTON LAKE BULKHEAD IMPROVEMENTS

- **Scope:**
 - Replacement of outdated timber bulkhead with a non-corroding bulkhead (Vinyl, composite, etc)
 - Wooden boardwalk to replace asphalt walkway
 - Kayak Launch
 - Park Pathways
 - Adult Fitness Areas
 - Landscape Improvements
- **Permitting Required:** NJDEP/SCD
- **Project Cost:** \$3.5M
- **Grants:** \$1.75M allocated from NJDOT Discretionary Funding
- **Maps Used**
 - Future Drainage, Shade Tree



WINTERSTELLA PARK IMPROVEMENTS

- Replacement of outdated equipment in flood prone area
- Raise site to accommodate future storm events
- New playground equipment and site amenities
- Permitting Required: NJDEP/SCD
- Project Cost: \$1,200,000.00
- Grants: \$174,000 from Mon. County Open Space
 - 2025 Application being submitted
- Maps Used
 - Future Drainage, Shade Tree



FIRST AVENUE PHASE III & RIVERSIDE DRIVE IMPROVEMENTS

- Establish Concrete Curb and Gutter to guide stormwater to new and refurbished inlets.
- Milling and paving of roadway limits
- Sidewalk replacement
- Permitting Required: TBD
- Project Cost: \$1,725,000.00
- Grants: \$209,528.00 from NJDOT Municipal Aid Program
- Maps Used:
 - Future Drainage Project Map



FUTURE PROJECTS

Planned Future Projects

- Fletcher Avenue Improvements Phase 1
- Fletcher Avenue Improvements Phase 2
- Rodgers Avenue Improvements

Priority Projects

- East Main Street Area
- East Main Street - West Side of Bridge
- Perrine Boulevard Area
- Brielle Road Area
- Second Avenue Area
- Ocean Avenue Area
- Various Streets Paving Project

Secondary Projects

- Judas Creek Improvements
- Deep Creek Improvements
- Manasquan Inlet Flood Gate Project (Army Corp Of Engineers)

FLETCHER AVENUE IMPROVEMENTS – PHASE I & II

- Estimated Cost: \$2,250,000.00
- Summary: Roadway, Sanitary, and Drainage Improvements
- Grants
 - \$215,000 from NJDOT Municipal Aid 2024
 - 2025 NJDOT Aid Amount TBD
 - Will likely be phased into Two Projects

- Phase I to be awarded by November 2026
- Phase II to be awarded by November 2027



RODGERS AVENUE IMPROVEMENTS – PHASE I & II

- Estimated Cost: \$1,250,000.00
- Summary: Roadway, Sanitary, and Drainage Improvements
- Grants
 - Will look to apply for future grants



EAST MAIN STREET AREA IMPROVEMENTS

- Estimated Cost: \$850,000.00
- Summary: Raising various roads to elevation 4.5', adding 4 tide valves, and constructing a low height floodwall
- Area Included Roads:
 - Captains Ct
 - 4th Ave,
 - Pickell Alley
 - E Main St
 - 3rd Ave
 - Riddle Way

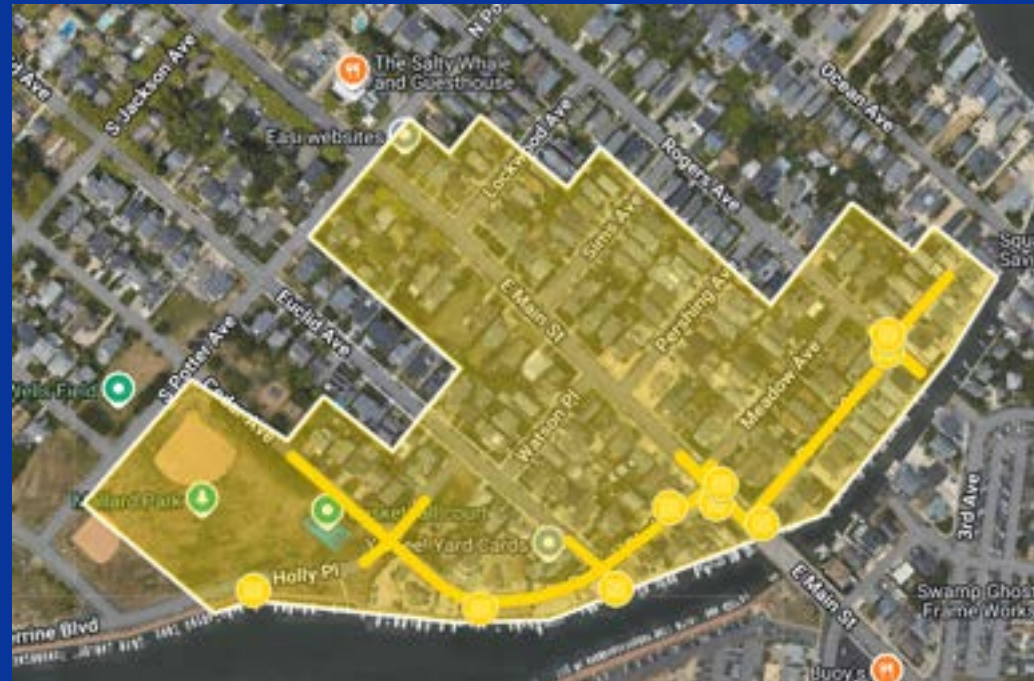


Area 1 - East Main

- ↳ Captains Court
- ↳ 4th Avenue
- ↳ Pickell Alley
- ↳ East Main Street
- ↳ 3rd Avenue
- ↳ Riddle Way
- ↳ 3rd Avenue Stub
- Tide Valve
- Tide Valve
- Tide Valve
- Tide Valve
- ↳ Floodwall
- ◆ Area 1 - East Main

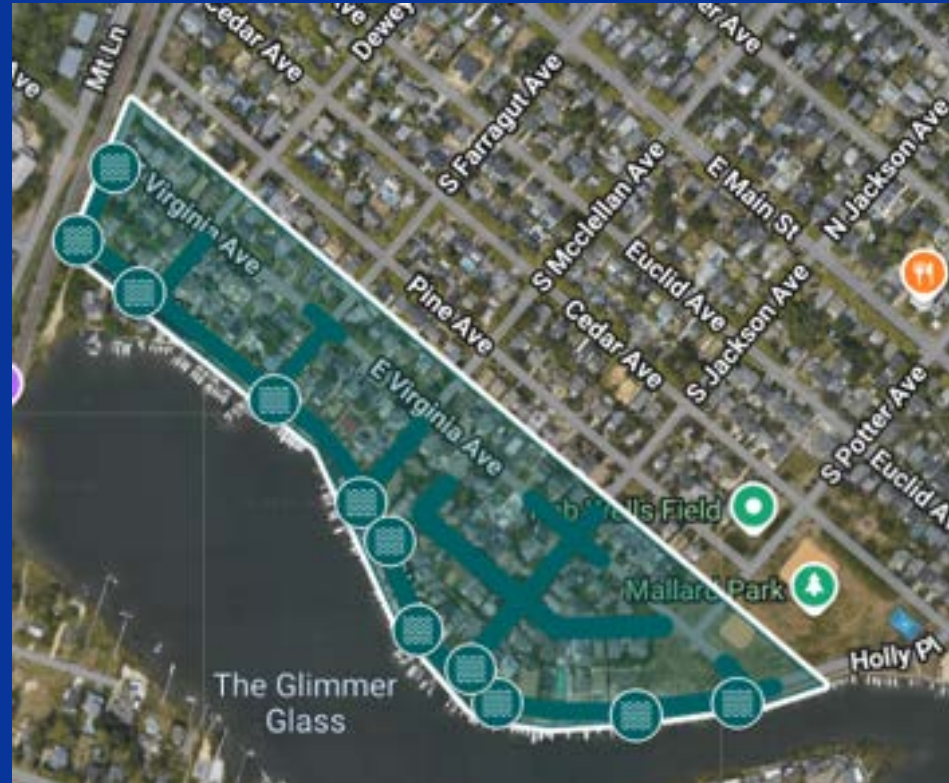
EAST MAIN STREET AREA IMPROVEMENTS – WEST SIDE OF BRIDGE

- Estimated Cost: \$1,575,000.00
- Summary: Raising various roads to elevation 4.5', adding 9 tide valves
- Area Included Roads:
 - Cedar Ave
 - Perrine Blvd
 - Holly Pl
 - Euclid Ave
 - E Main St
 - Meadow Ave
 - Pearce Ct
 - Rogers Ave



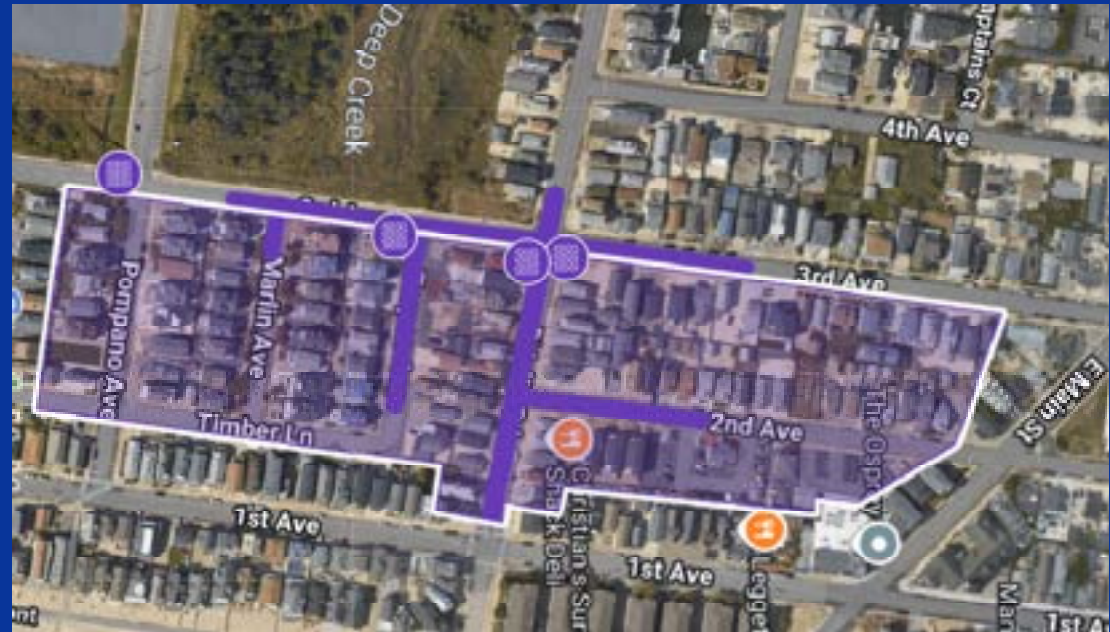
PERRINE BOULEVARD AREA IMPROVEMENTS

- Estimated Cost: \$2,425,000.00
- Summary: Raising various roads to elevation 4.25', adding 11 tide valves
- Area Included Roads:
 - E Virginia Ave
 - Perrine Blvd
 - River Pl
 - S Jackson Ave
 - S McClellan Ave
 - S Farragut Ave
 - Dewey Ave



BRIELLE ROAD AREA IMPROVEMENTS – EAST OF 3RD AVENUE

- Estimated Cost: \$875,000.00
- Summary: Raising various roads to elevation 4', adding 4 tide valves
- Area Included Roads:
 - Marline Ave
 - 3rd Ave
 - Tarpon Ave
 - 2nd Ave
 - Brielle Road



2ND AVENUE AREA IMPROVEMENTS

- Estimated Cost: \$675,000.00
- Summary: Raising various roads to elevation 4.5', adding 3 tide valves
- Area Included Roads:
 - 3rd Ave
 - 2nd Ave
 - Riddle Way
 - Ocean Ave
 - Stockton Ave



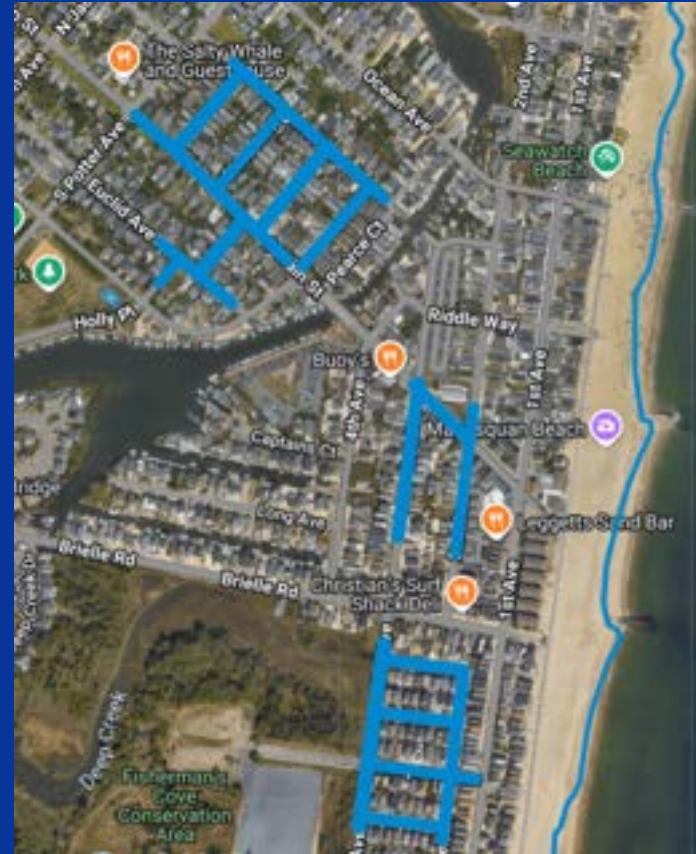
OCEAN AVENUE AREA IMPROVEMENTS

- Estimated Cost: \$550,000.00
- Summary: Raising Ocean Avenue to elevation 6.0'
- Area Included Roads:
 - Beachfront



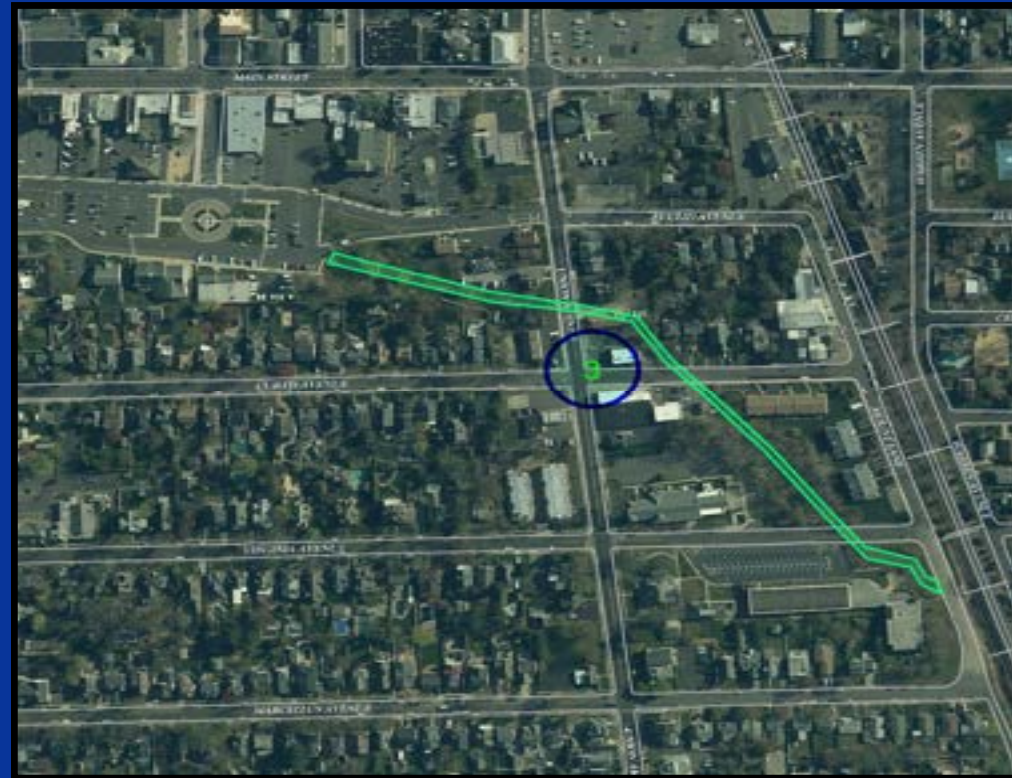
VARIOUS STREETS PAVING IMPROVEMENTS

- Estimated Cost: \$2,525,000.00
- Summary: Raising various roads to elevation 4.5', adding 3 tide valves
- Area Included Roads:
 - Tarpon Ave
 - Timber Ln
 - Pompano Ave
 - Salmon Ave
 - 3rd Ave
 - Marlin Ave
 - 2nd Ave
 - E Main St
 - Euclid Ave
 - Watson Ave
 - Holly Pl
 - Pershing Ave
 - Meadow Ave
 - Sims Ave
 - Rogers Ave
 - Lockwood Ave



JUDAS CREEK IMPROVEMENTS

- Estimated Cost: \$750,000.00
- Summary: Culvert Improvements as well as De-Snagging and Dredging of Judas Creek
- Permits Needed – NJDEP
- Area Included Roads:
 - Open Channel by Squan Plaza
 - NJDOT State Controlled Culvert
 - Undersized Culvert under Private Property
 - Culvert Upgrades at Curtis Avenue
 - Culvert Upgrades at Virginia Avenue
 - De-snagging of Judas Creek throughout Project Limits



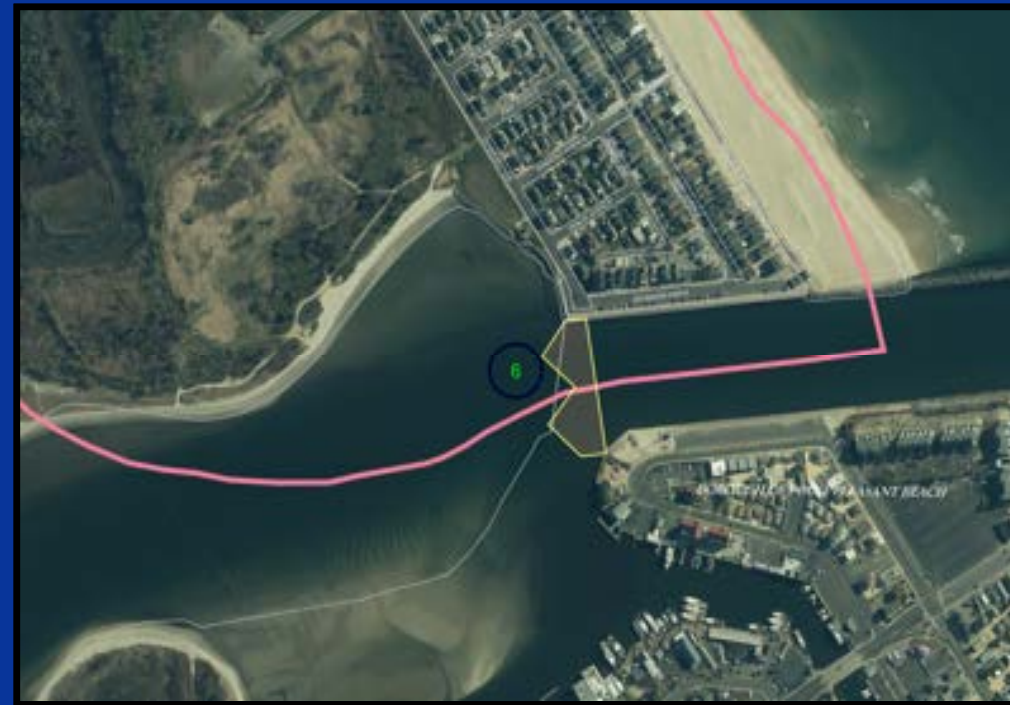
DEEP CREEK IMPROVEMENTS

- Estimated Cost: \$750,000.00
- Summary: Establishing a berm to protect against tidal inundation
- Permits Needed – NJDEP, SCD
- Further Studies Required:
 - Benefit Cost Analysis (BCA) would conclude its not worth the implementation due to tidal inundation from canals across Brielle Road.



MANASQUAN INLET FLOOD GATE PROJECT (ARMY CORP OF ENGINEERS)

- Estimated Cost: \$150,000,000.00
- Summary: Establishing a flood gate across the Manasquan Inlet
- Permits Needed – ACOE, NJDEP
- Further Studies Required:
 - ACOE Project was cancelled since our efforts began.



WHAT IS NEXT?

- The Borough is going to be looking for opportunities to offset capital investment
- Funding Opportunities can come through various programs
 - Federal
 - State
 - County

Manasquan Projects Borough of Manasquan, Monmouth County, New Jersey PROJECT NO. MSQ-0151 July 1, 2025		
NO.	DESCRIPTION	ESTIMATE
Current Projects		
1	Stockton Lake Boulevard Improvements - Phase II	\$950,000.00
2	Stockton Lake Bulkhead Improvements	\$3,275,000.00
3	Winterstella Park Improvements	\$865,000.00
4	First Avenue Phase III & Riverside Drive Improvements	\$1,725,000.00
Priority Future Projects		
5	Fletcher Avenue Improvements Phase 1	\$1,250,000.00
6	Fletcher Avenue Improvements Phase 2	\$1,000,000.00
7	Rodgers Avenue Improvements	\$1,250,000.00
8	East Main Street Area	\$825,000.00
9	West Main Street Area	\$1,575,000.00
10	Perrine Boulevard Area	\$2,425,000.00
11	Brielle Road Area	\$875,000.00
12	Second Avenue Area	\$675,000.00
13	Ocean Avenue Area	\$550,000.00
14	Various Streets Paving Project	\$2,525,000.00
Secondary Future Projects		
15	Judas Creek Improvements	\$750,000.00
TOTAL		\$20,515,000.00

QUESTIONS FROM THE COUNCIL?



QUESTIONS FROM THE PUBLIC?

