

RARITAN BAY AND SANDY HOOK BAY, PORT MONMOUTH, NJ HURRICANE AND STORM DAMAGE REDUCTION PROJECT

Middletown, NJ

USACE - New York District
January 2023



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RARITAN BAY AND SANDY HOOK BAY, PORT MONMOUTH, NJ

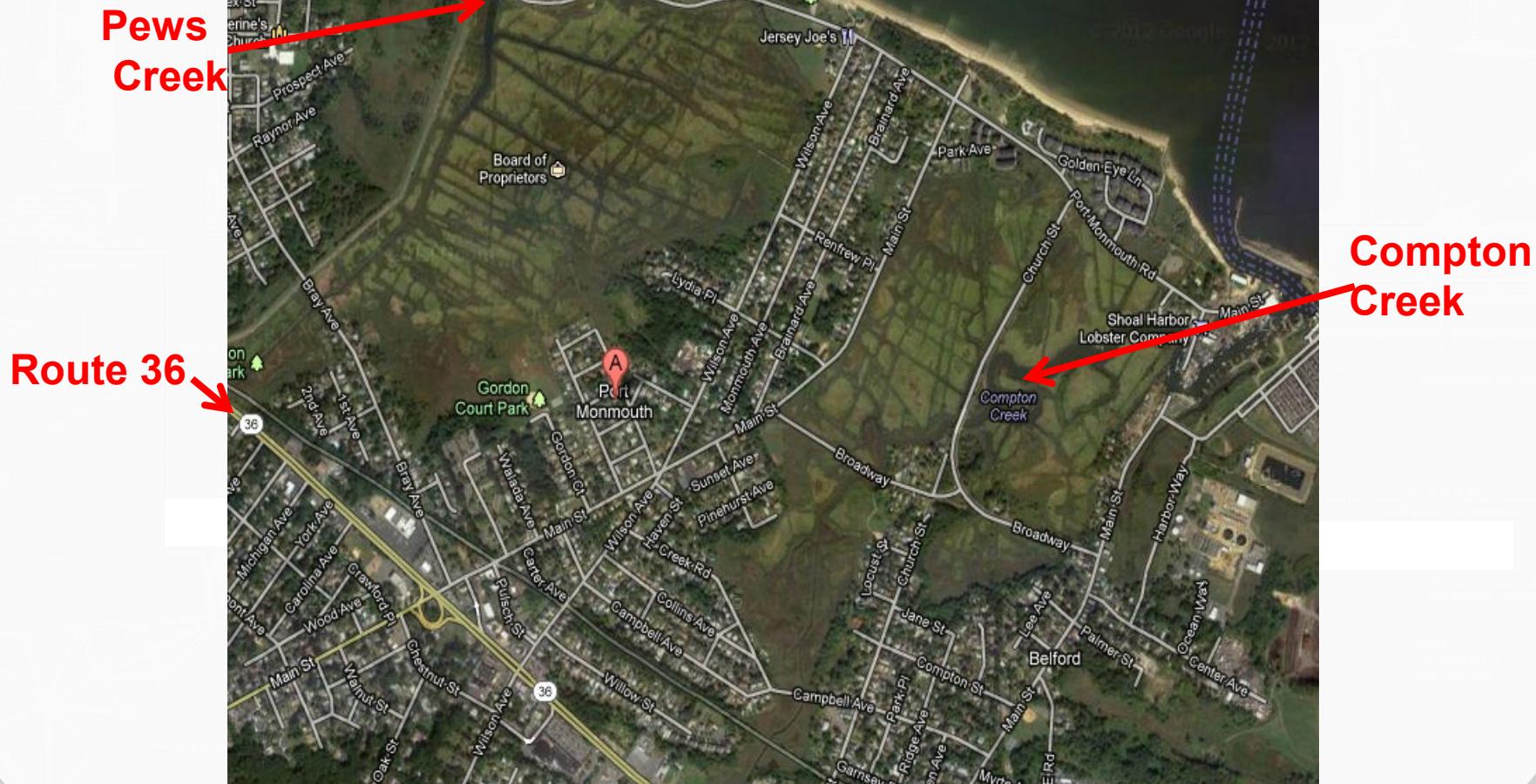
HURRICANE AND STORM DAMAGE REDUCTION PROJECT

OVERVIEW

- Introduction & Authority
- NJDEP Partner
- Project Overview
- Phases and Features
- Walk thru Project Features
- Current and planned construction work
- Schedule
- Questions



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PORT MONMOUTH, NJ OVERVIEW



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AUTHORITY

- The project is authorized for construction under Section 101 of the Water Resources Development Act of 2000. The authorization provides for hurricane and storm damage reduction, in the Raritan Bay and Sandy Hook Bay, Port Monmouth, New Jersey.
- Public Law 113-2, the Disaster Relief Appropriation Act of 2013, Chapter 4



New Jersey's Shore Protection Program



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State of New Jersey

Phil Murphy, Governor
Sheila Oliver, Lt. Governor

Dept. of Environmental Protection

Shawn M. LaTourette, Commissioner

Watershed & Land Management Program

Katrina Angarone, Assistant Commissioner





New Jersey's Shore Protection Program

Watershed & Land Management Divisions

Division of Land Resource Protection

Director: Jennifer Moriarty

Division of Watershed Protection & Restoration

Director: Anika Andrews

Division of Resilience Engineering & Construction

Director: Dennis Reinknecht



Office of Dam Safety & Flood Engineering (Trenton)

Office of Coastal Engineering (Toms River)

Erick Doyle, Bureau Chief

Kelley Staffieri, Bureau Chief



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NEW JERSEY SHORE PROTECTION FUND



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“To protect existing development and infrastructure from storm surges, sea-level rise and shoreline migration through dune creation and maintenance, beach nourishment projects, and construction and repair of shore protection structures.“

\$25 million dedicated annually

Realty Transfer Tax (N.J.S.A. C.13:19-16.1)

This project is 100% Federally funded for **initial construction

Future renourishments will be cost shared with the Corps, State, Middletown Twp. and Monmouth County





STATE OF NEW JERSEY'S ROLE



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Non-Federal Sponsor (NFS) with the Corps

- Executed a Partnership Agreement PPA 31 January 2014
- Provide Support Staff for all stages of Project Development, Design and Implementation
- Act as Liaison between the Corps and the Local Sponsors
 - Middletown Twp. and Monmouth County, Monmouth County Park
 - Assist with
 - Real Estate acquisition
 - Technical & Professional Assistance
 - Public Outreach



REAL ESTATE

- Real Estate Acquisition:
- Total #Required to Construct C4b and C5 (incl ROWs):
 - ▶ 48
- To Date:
 - ▶ County (incl. MCPS) Total# 8 – ALL OBTAINED
 - ▶ Middletown Twp. Total# 20 - 10 OBTAINED/10 PENDING
 - ▶ Private Total# 20
 - 5 OBTAINED-being recorded
 - 2 OBTAINED-pending signatures
 - 13 OUTSTANDING – in different stages of acquisition, but soon all should be complete





PHASES AND FEATURES



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- **Phase I (Completed)**
 - Dune
 - Groin
 - Pier Extension
- **Phase II (Under construction, real estate acquisition and design)**
 - Tide Gate
 - Pump Stations
 - Levees
 - Floodwalls
 - Road Closure Structures
 - Interior Drainage Structures
 - Mitigation



PORT MONMOUTH, NJ PHASE I



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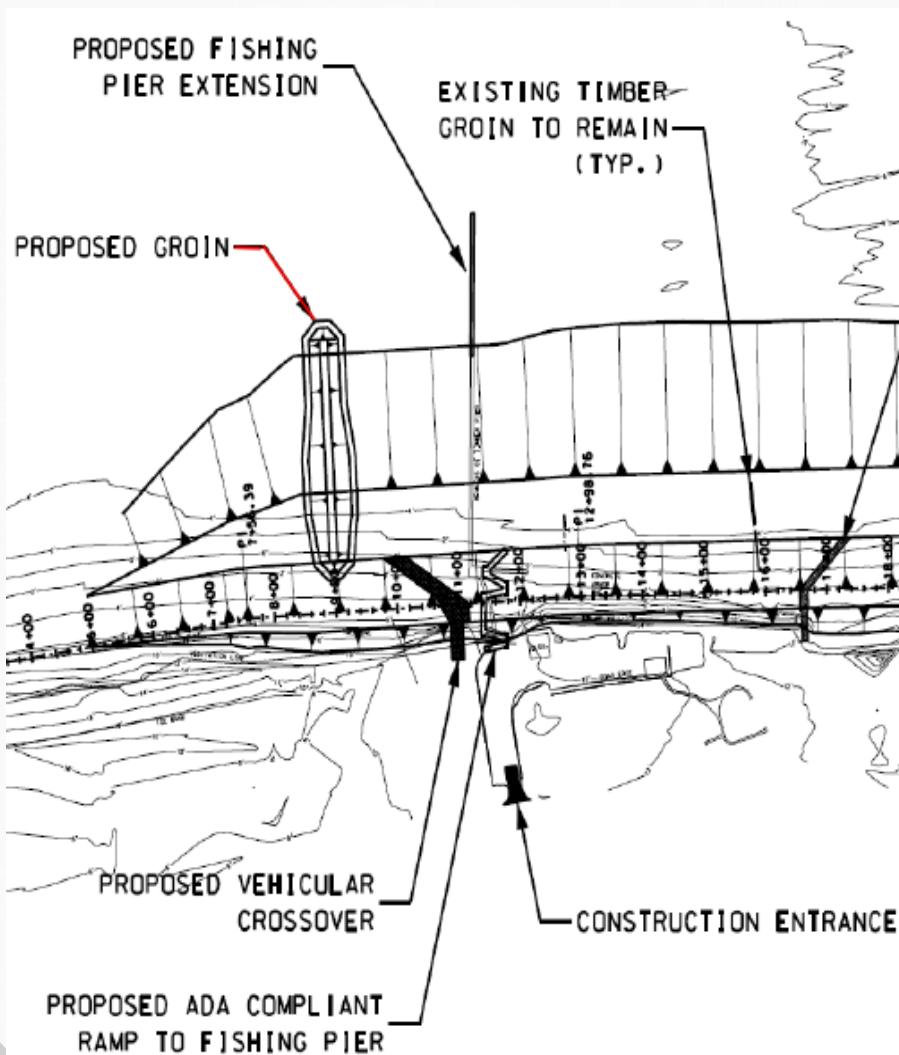




GROIN



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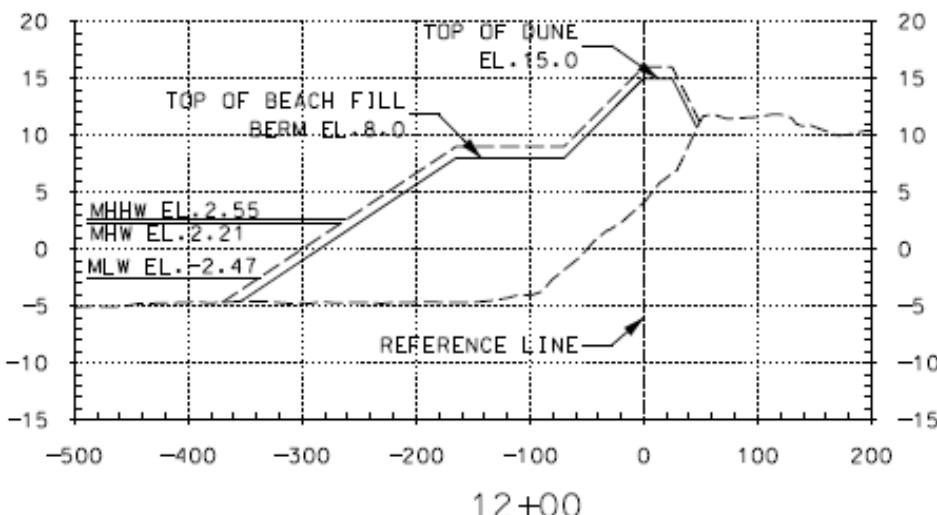
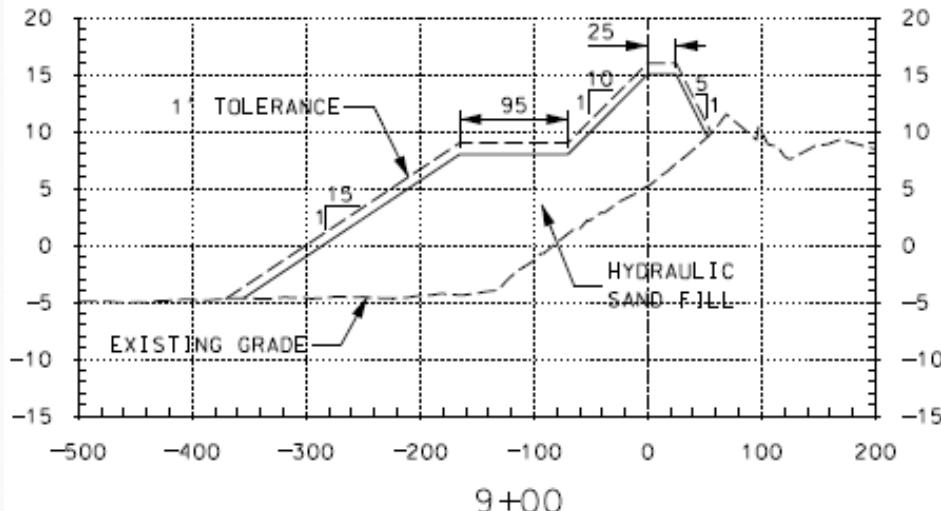
**Port Monmouth
Locations:
Length= 305 LF
Crest Width= 13 ft**



BEACHFILL



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Port Monmouth Beachfill:

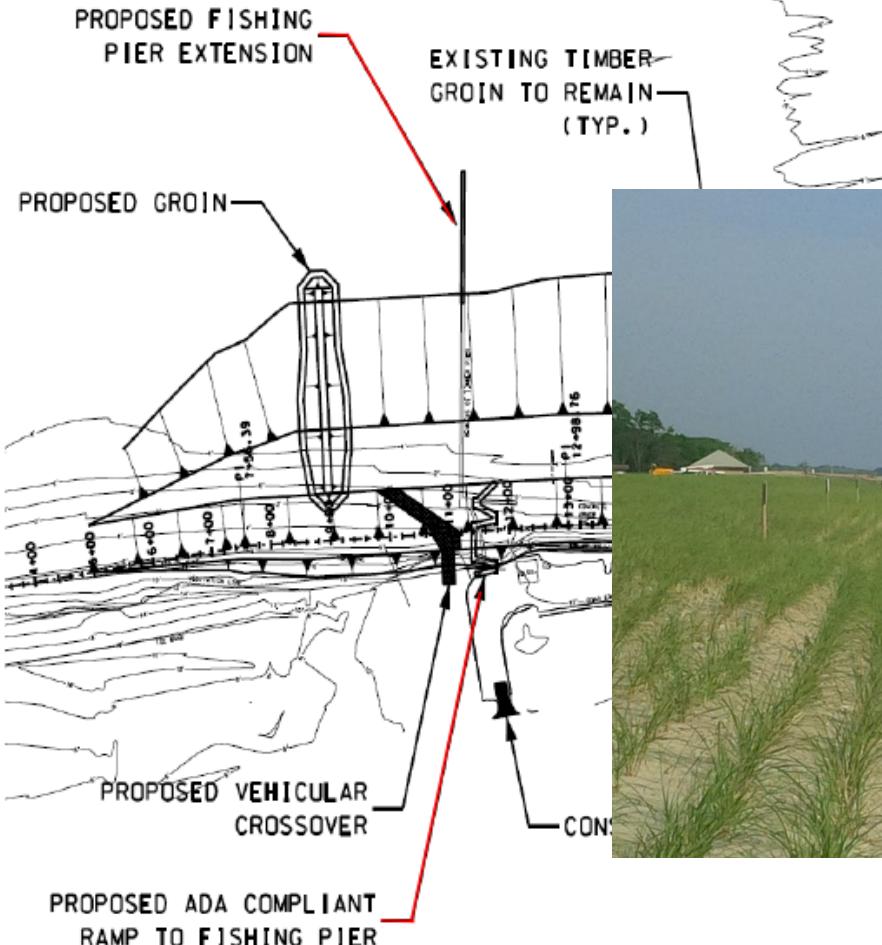
- Dune Elevation 15' NAVD (16' NGVD)
- Renourishment
- Look to add beneficial use material Summer 2023



PIER EXTENSION



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Port Monmouth Locations:

- Extend Pier by 195LF
- New ADA Ramp





PORT MONMOUTH, NJ PUMP STATION & TIDE GATE LOCATIONS



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PUMP STATION & TIDE GATE



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Port Monmouth Locations:

Pump Station at Pews Creek - 120 cfs

Pump Station at Compton Creek – 60 cfs





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PORT MONMOUTH, NJ LEVEE



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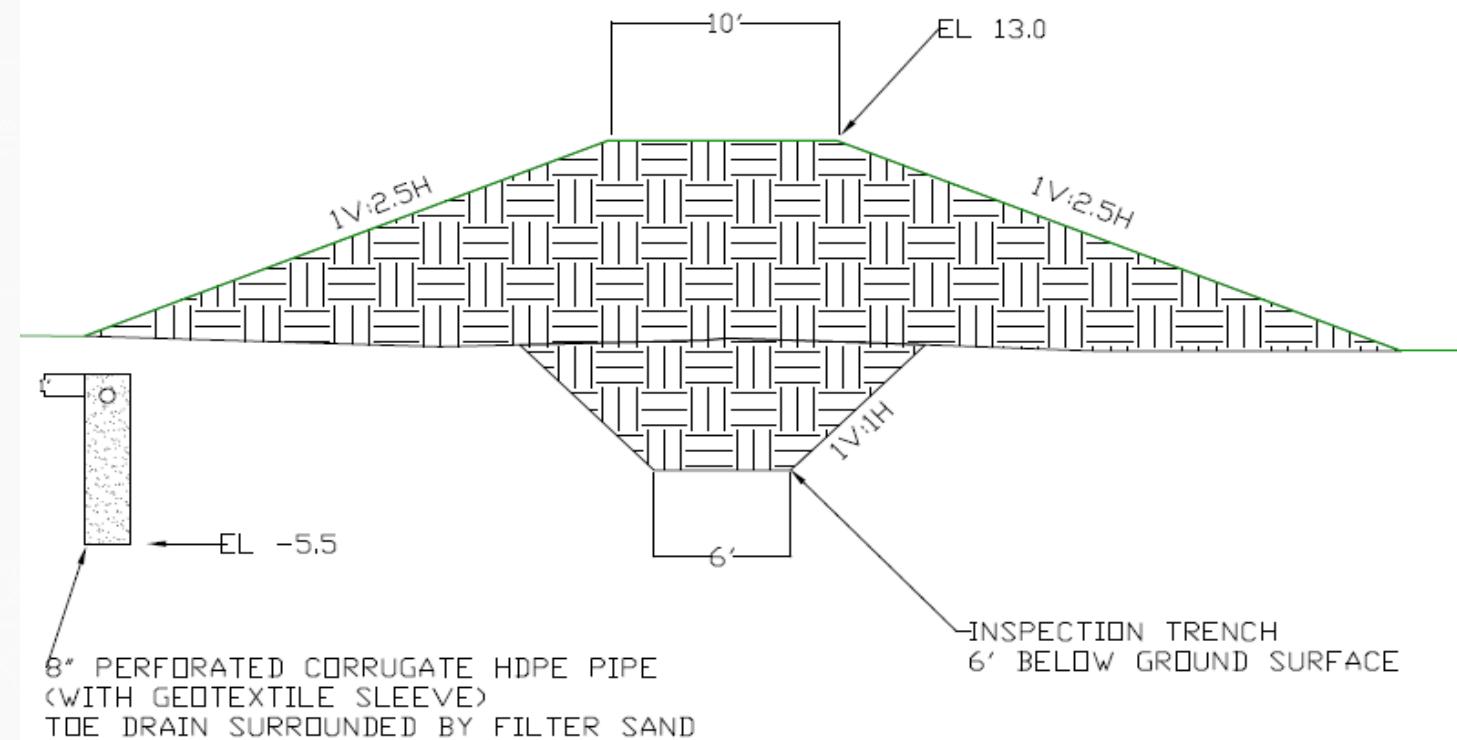


LEVEE



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- **Port Monmouth Levee:**
- Various locations
- Elevation 14' NGVD or 13' NAVD
- Required vegetation free 15' from base or edge of swale





LEVEE



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- **Port Monmouth Levee:**
- Various locations
- Elevation 14'NGVD or 13' NAVD





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PORT MONMOUTH, NJ FLOODWALL



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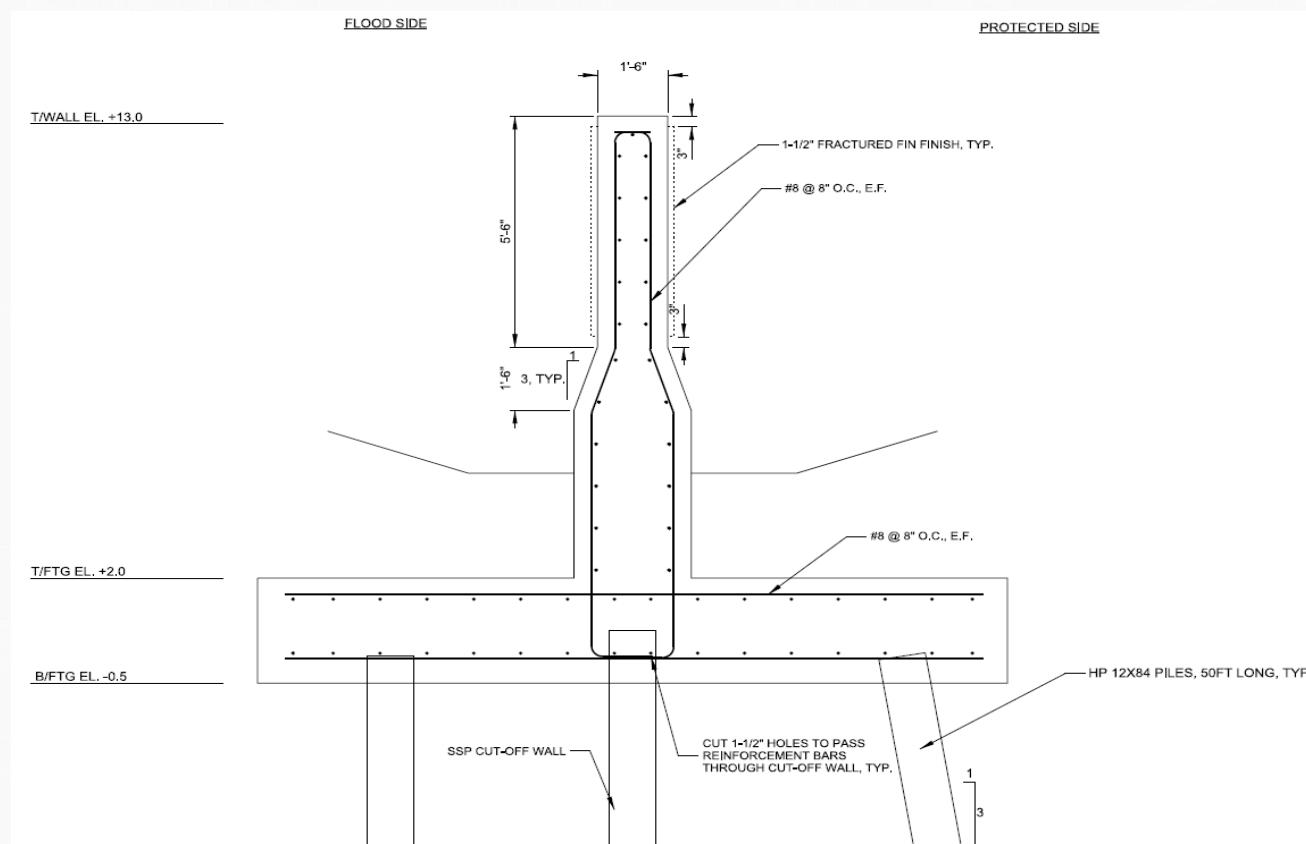


FLOODWALL TYPICAL SECTION



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- Various locations
- Elevation +13' NAVD 88
- Required vegetation free 15' from edge of swale





FLOODWALL



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FLOODWALL-TYPICAL FINISH



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PORT MONMOUTH, NJ ROAD CLOSURE STRUCTURES



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ROAD CLOSURE GATE



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Port Monmouth Locations:

Old Port Monmouth Road- 40'w x 4'h

Broadway – 40'w x 8'h

Campbell Avenue – 40'w x 8.5'h





PORT MONMOUTH, NJ INTERIOR DRAINAGE FEATURES



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INTERIOR DRAINAGE



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Port Monmouth Locations:

Pump Station at Pews Creek

Pump Station at Compton Creek

Interior Drainage structures through the levee/floodwall

- Drainage structures with flap valve and sluice gate
- Storm water diversion culvert and swale





PORT MONMOUTH, NJ CONTRACT 1 MITIGATION



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CONTRACT 4



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Divided into 2 Contracts 4a and 4b

Contract 4a was completed Jan. 2021

- Rte 36 road regrading
- Tie-in
- Utility relocations and infrastructure

Contract 4b features

- Floodwall
- Levee
- 2 Road Closure Gates
- Interior Drainage





RECENTLY AWARDED WORK



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Contract 5

- Current construction
- Vibration monitoring
- Notices/inspections
- Broken into options for real estate purposes



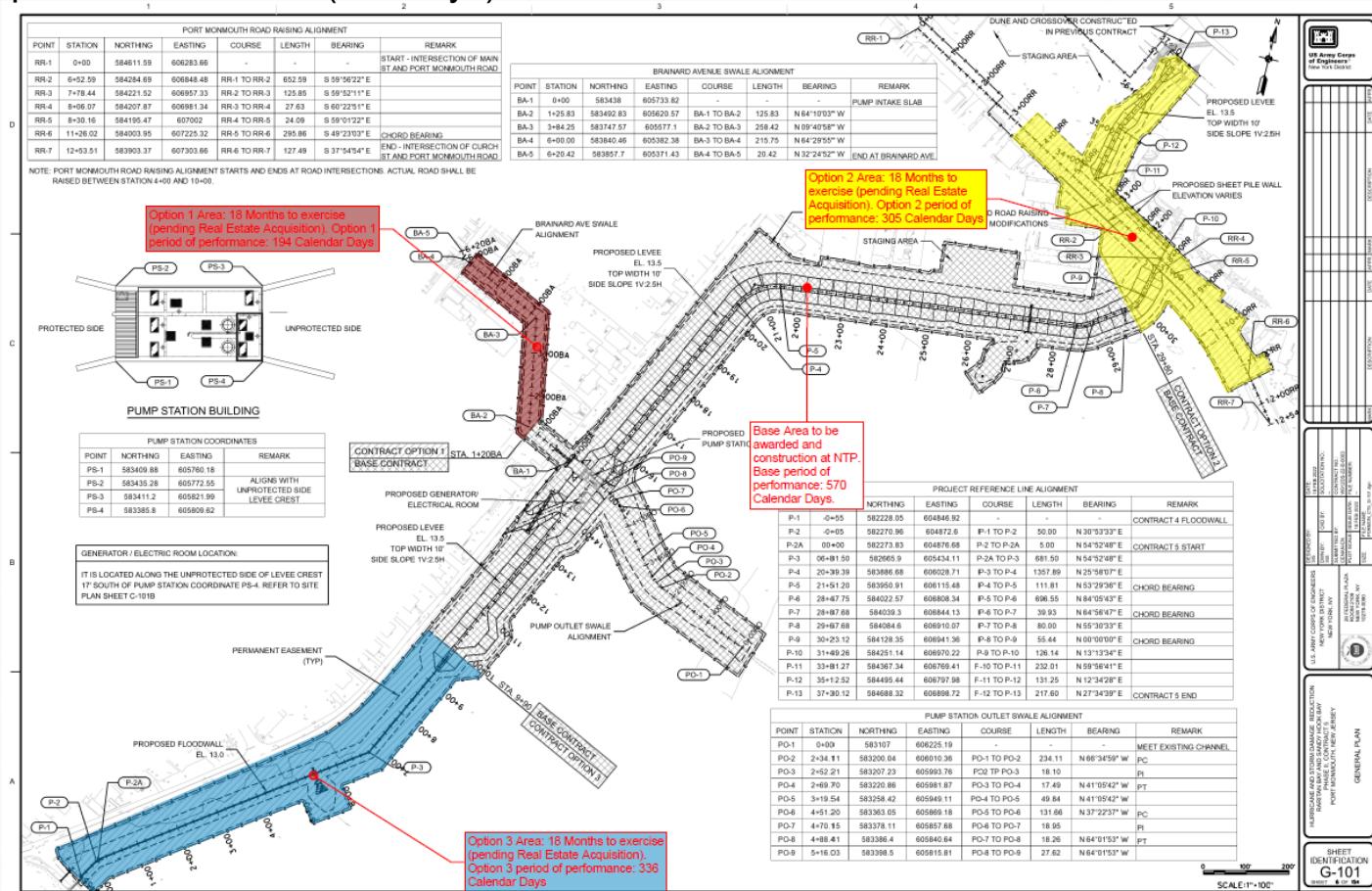


CONTRACT 5 OPTIONAL AREAS



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Contract 5 is divided into Base + 3 Option areas
 Base - Levee and Pump Station
 Option 1 – Swale (194 days)
 Option 2 - Road Raising/Levee tie-in (305 days)
 Option 3 – Floodwall (336 days)





SCHEDULE



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- Current completion date is Spring 2025
- Obtain necessary Real Estate Contracts 1, 4B and 5



CONTACT INFORMATION



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QUESTIONS?



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