

# Raritan Bay and Sandy Hook Bay, Port Monmouth, NJ Flood Risk Management Project

## Public Information Session

Veterans of Foreign Wars (VFW) Hall Post 2179  
Port Monmouth, NJ

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U.S. ARMY



US Army Corps of Engineers  
BUILDING STRONG



# History & Overview

- The project is authorized for construction under Section 101 of the Water Resources Development Act of 2000.
- Public Law 113-2, the Disaster Relief Appropriation Act of 2013, Chapter 4
- Authorized but Unconstructed (ABU) ongoing construction project 100% Federal Funding for initial construction(Saves State and Municipality regular Cost Share)
- Hurricane Sandy Limited Reevaluation Report (HSLRR) approved 4 Dec 2013
- Project First Cost: \$105M
- Executed Project Partnership Agreement (PPA) with NJDEP on 31 January 2014
- Operation & Maintenance is Non-Fed responsibility



# Environmental Requirements

## ■ Phase I

- ▶ National Environmental Policy Act (NEPA) complete (Record of Decision(ROD) 2008; Finding of No Significant Impact (FONSI) 2009)
- ▶ Water Quality/Federal Consistency received (May 2013)
- ▶ Benthic, Threatened & Endangered species, and dune planting monitoring

## ■ Phase II

- ▶ Supplemental NEPA to incorporate design changes
- ▶ Wetland Mitigation Required; assessment of impacts and mitigation requirements ongoing
- ▶ Geotechnical Boring Permit was Completed
- ▶ Pre-application meeting with NJDEP was held and 5 construction permits will be required
- ▶ Wetland mitigation, vegetation and tidal exchange monitoring





# Phases and Features

- **Phase I (Construction complete)**

- \$18M was spent on the construction of phase 1
  - ▶ Dune
  - ▶ Groin
  - ▶ Pier Extension

- **Phase II (Under design)**

- Phase 2 will be broken down into 5 contracts starting in Spring of 2016 such that construction for the project should be completed by 2020
  - ▶ Tide Gate
  - ▶ Pump Stations
  - ▶ Levees
  - ▶ Floodwalls
  - ▶ Road Closure Structures
  - ▶ Road Regrading
  - ▶ Interior Drainage Structures
  - ▶ Wetland Mitigation



# Line of Defense

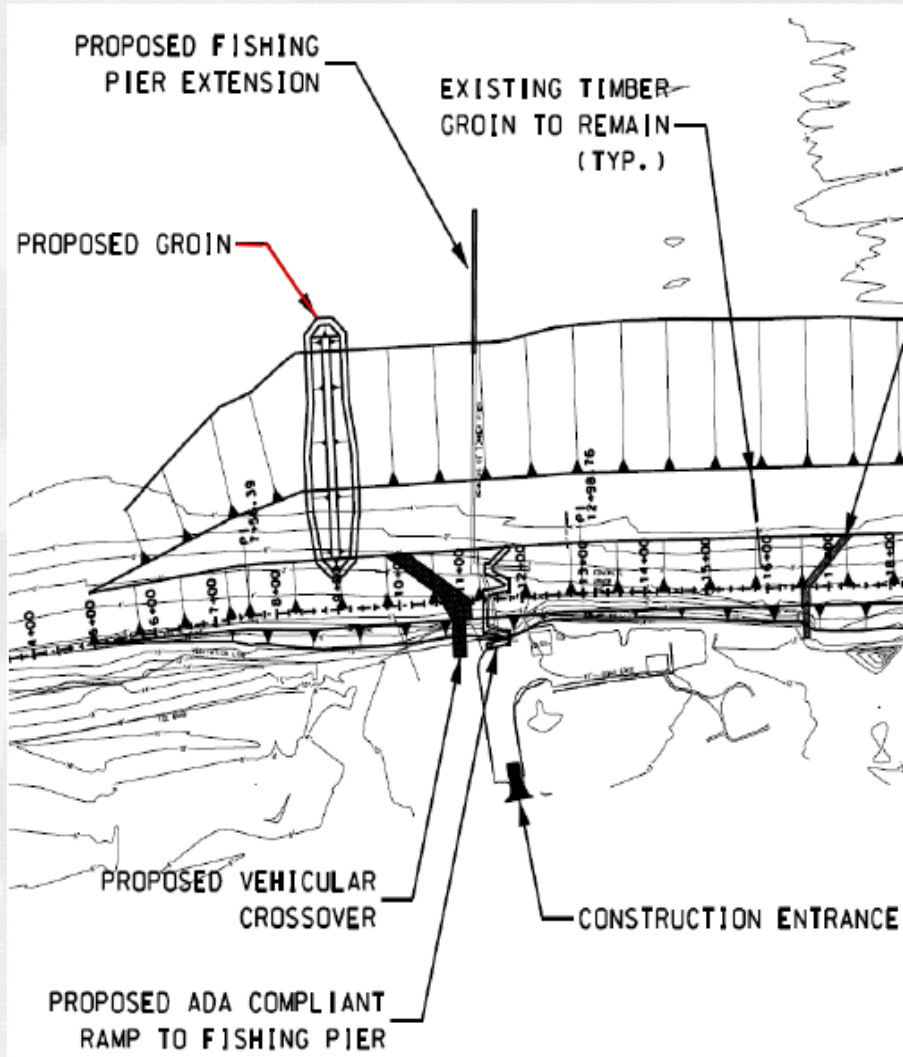


- Overall Project Elevation 13' NAVD
- Dune Elevation 15' NAVD





# Beachfill, Groin, & Pier Extension



## Port Monmouth Beachfill:

- Dune Elevation 15' NAVD (16' NGVD)
- 389,602cy of fill was completed on 12 July 2014

## Port Monmouth Groin:

- Length= 305 LF
- Crest Width= 13 ft

## Port Monmouth Pier Extension:

- Length= 195 LF

## Construction Completed:

2 July 2015

## Renourishment:

68k-95k cyds/10 years



# Beachfill, Groin, & Pier Extension

Before



After





# Beachfill, Groin, & Pier extension

Before



After





# Phase 2 Project Features and Examples



# Pump Station

## Locations:

Contract 2 Pump Station at Pews Creek- 120 cfs

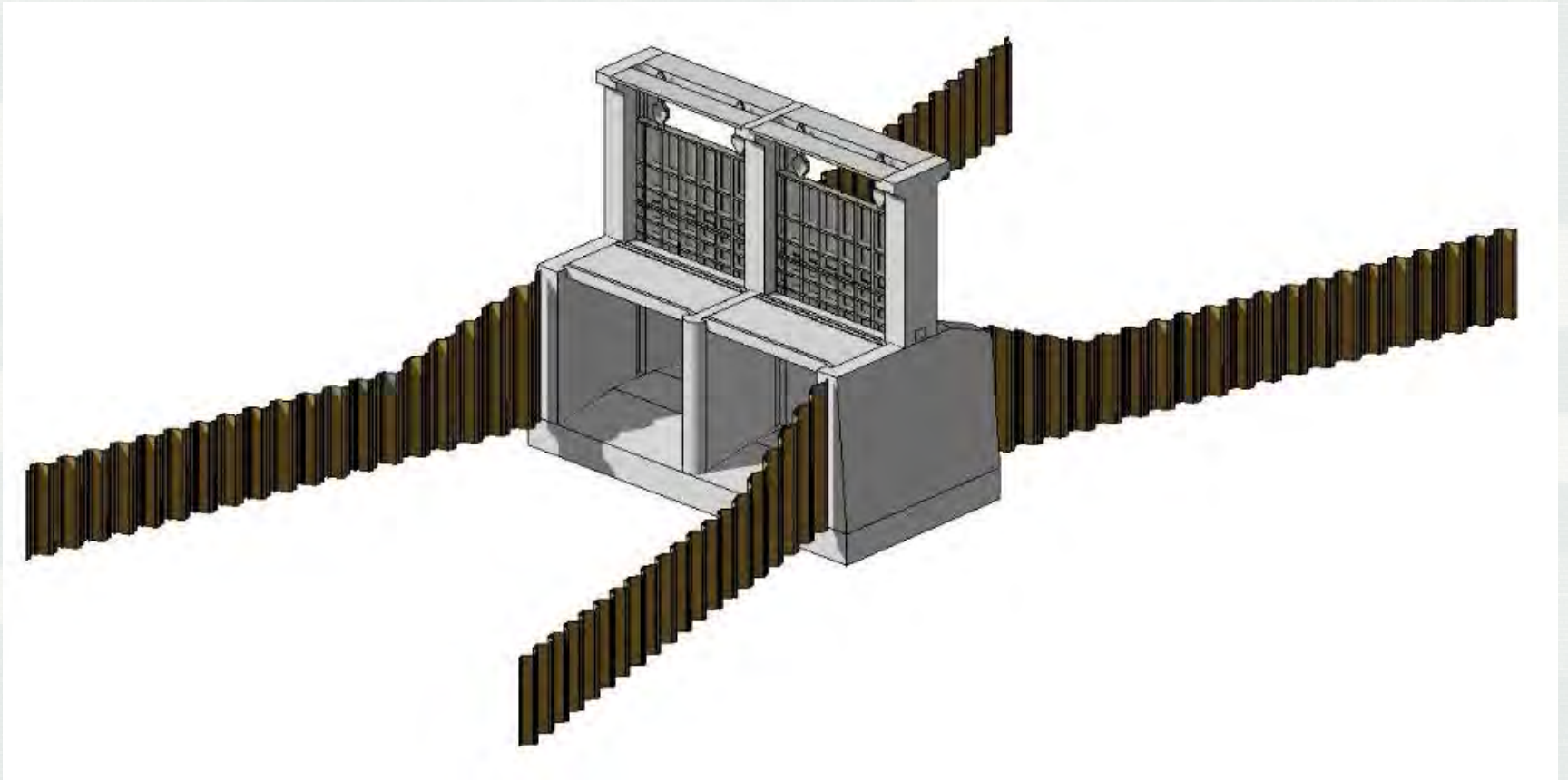
Contract 5 Pump Station at Compton Creek-60cfs





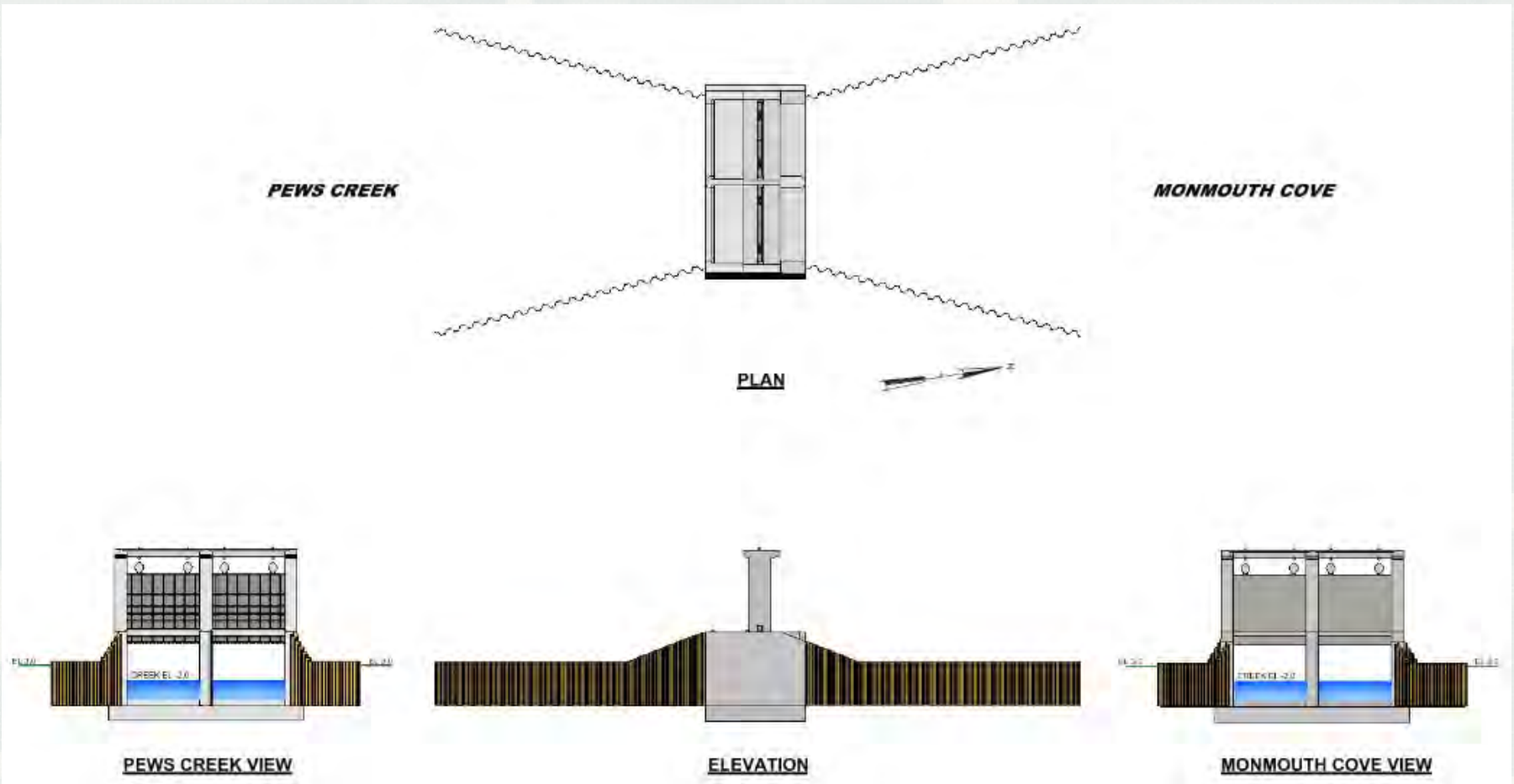


# Lift Gate

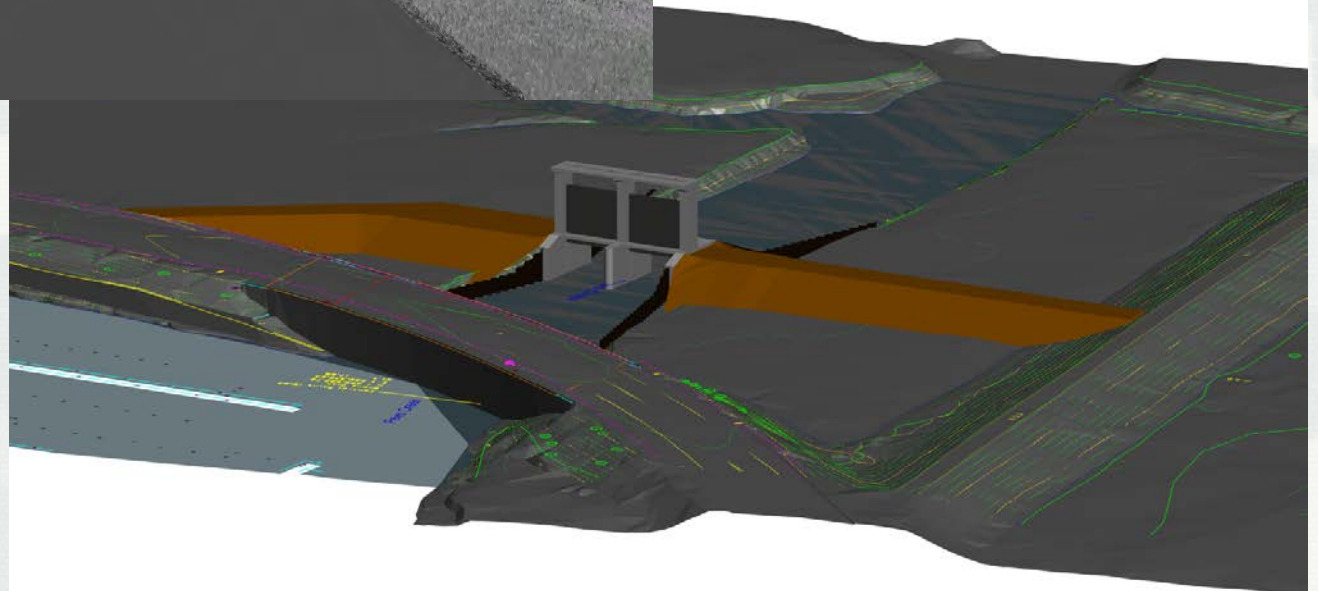




# Lift Gate



# Lift Gate









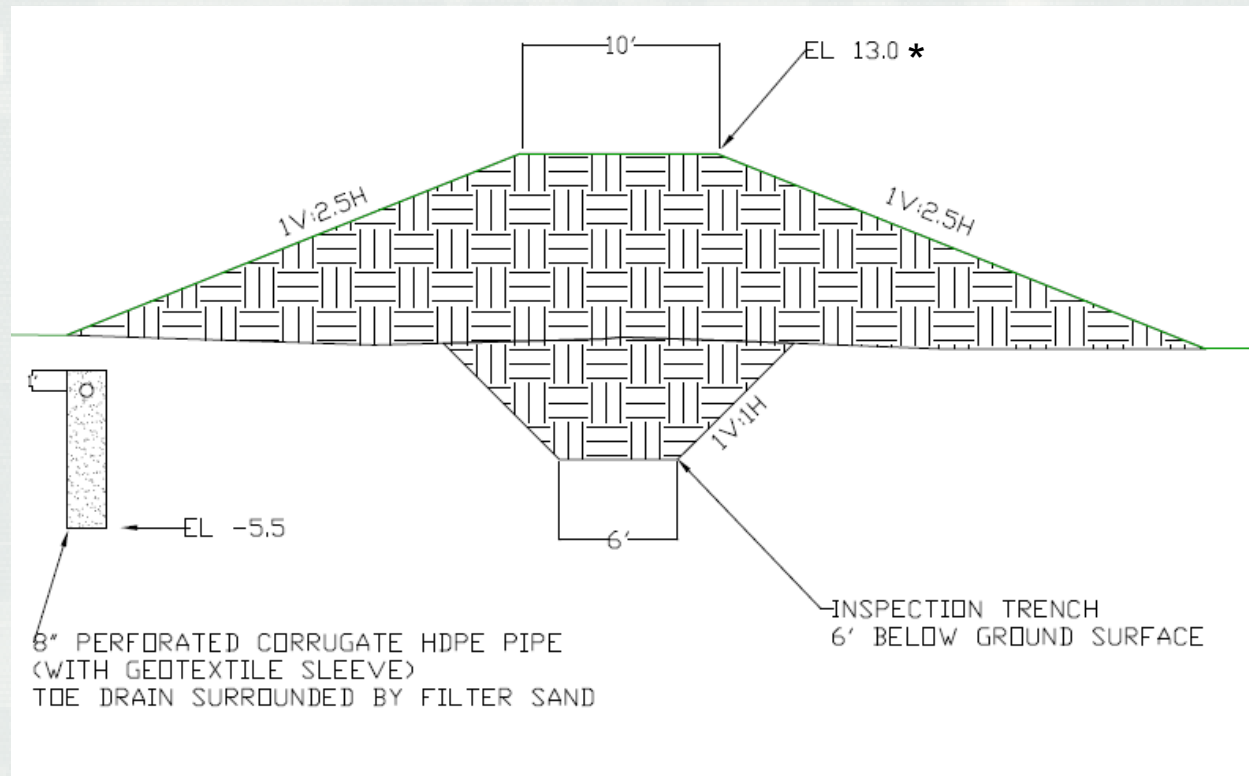
# Levee





# Levee Typical Section

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



\* Overbuild 1200 LF of Contract 5 by 0.5 ft







# Floodwall







# Floodwall-Typical Finish









# Road Closure Gate

## Locations:

### Contract 3

- Port Monmouth Road- 32'w x 7.8'h

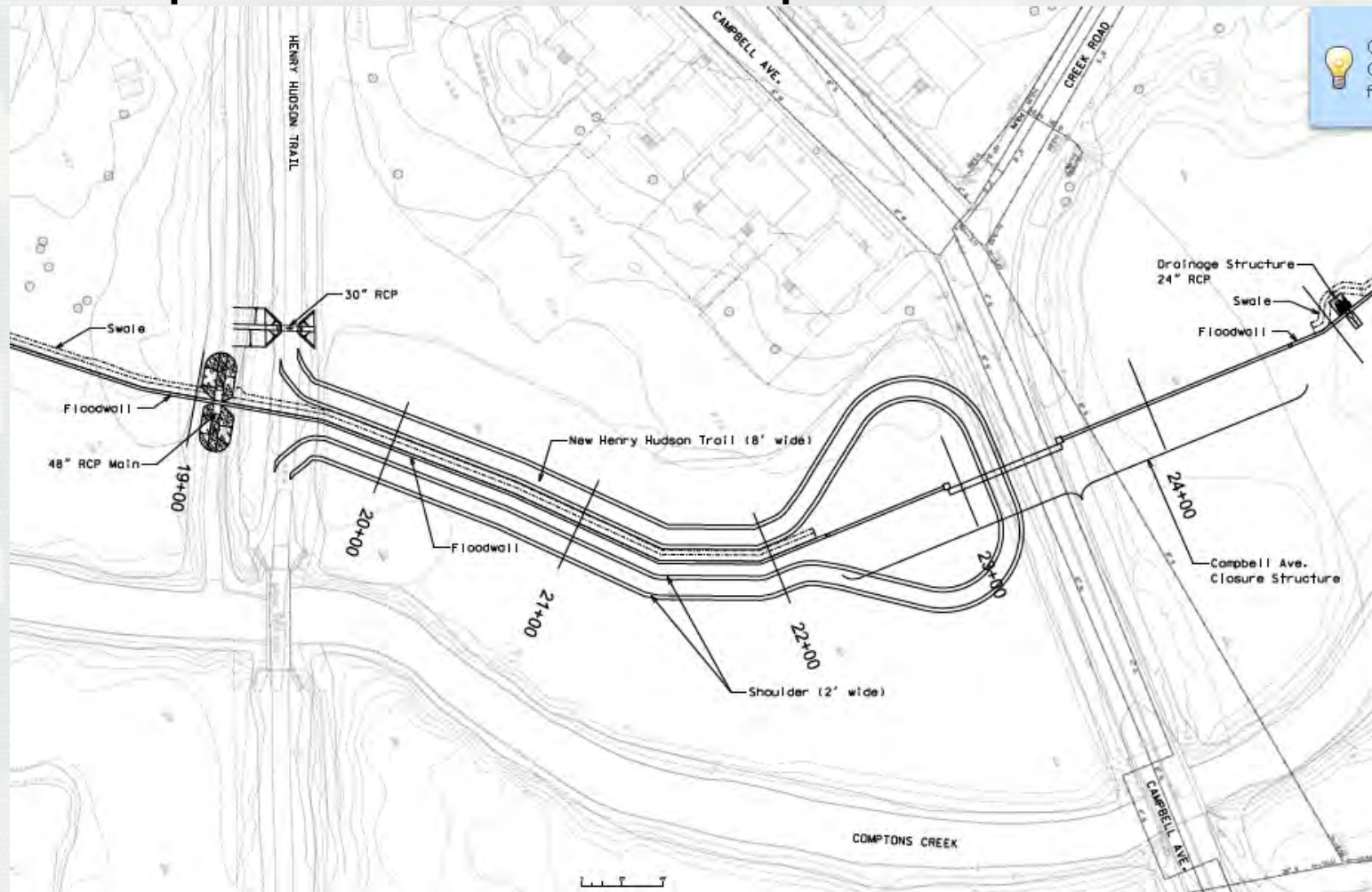
### Contract 4

- Broadway – 40'w x 8'h
- Campbell Avenue – 62'w x 8.5'h



# Henry Hudson Trail

-Wrap around the floodwall to Campbell Ave Road Closure Gate









# Road Regrading and Raising



Route 36 310 LF



Wilson Ave 190 LF









# Interior Drainage



## Locations:

- Contract 2 Pump Station at Pews Creek
- Contract 5 Pump Station at Compton Creek

## Interior Drainage structures through the levee/floodwall

- Drainage structures with flap valves, duck bills and sluice gate
- Swales along levee/floodwall and to pump station





# Utility Relocations

- Sanitary
- Water
- Gas
- Electric





# Mitigation









Questions concerning the public information session should be directed to:

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