

Oct 2012 Sandy



Dec '92 Nor'easter



South Shore of Staten Island, New York

Spring 2025



US Army Corps
of Engineers
New York District
BUILDING STRONG

Project Area Facts

- Flood-prone, high risk, low-lying
- Low-capacity storm sewers
- Nearly 7,300 structures
- Over 30,000 people
- Critical infrastructure:
 - Oakwood Wastewater Treatment Plant
 - Staten Island Hospital
 - Fire/police stations
 - Schools/senior centers

Hurricane Sandy Facts

- Water levels peaked at +12.5 ft NAVD
- Flooding depths over 10 ft.
- 4 ft higher than prior record
- 23 total Staten Island deaths
- 43 total in New York City
- 80% structures damaged in project area
- Over \$1B in Sandy damages

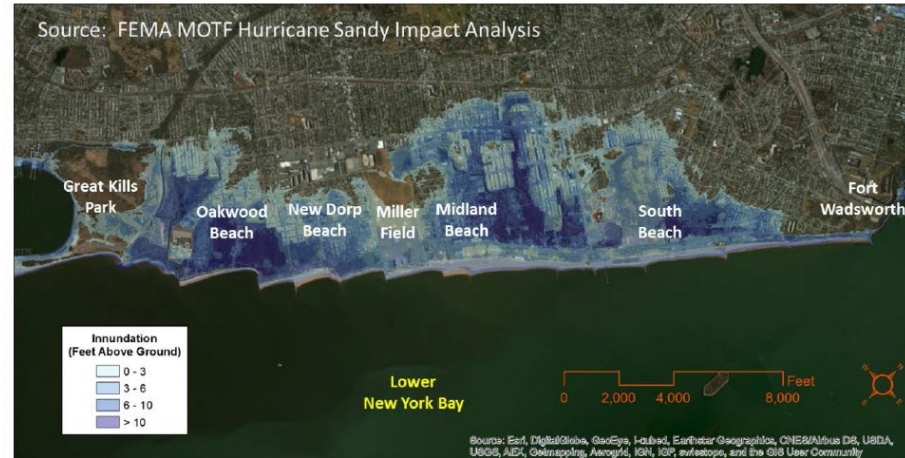
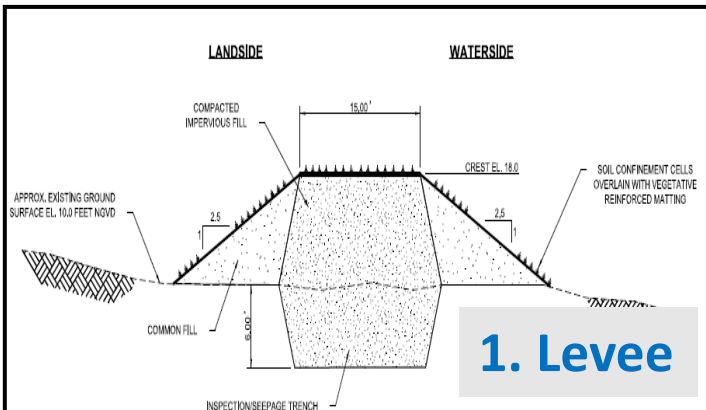


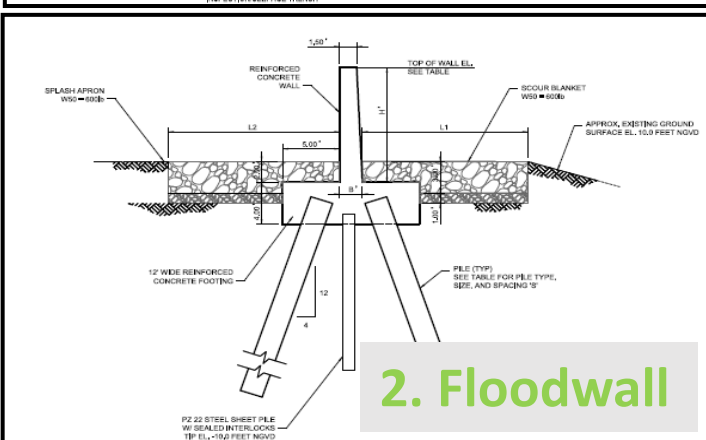
Figure 11 - Hurricane Sandy Flood Inundation



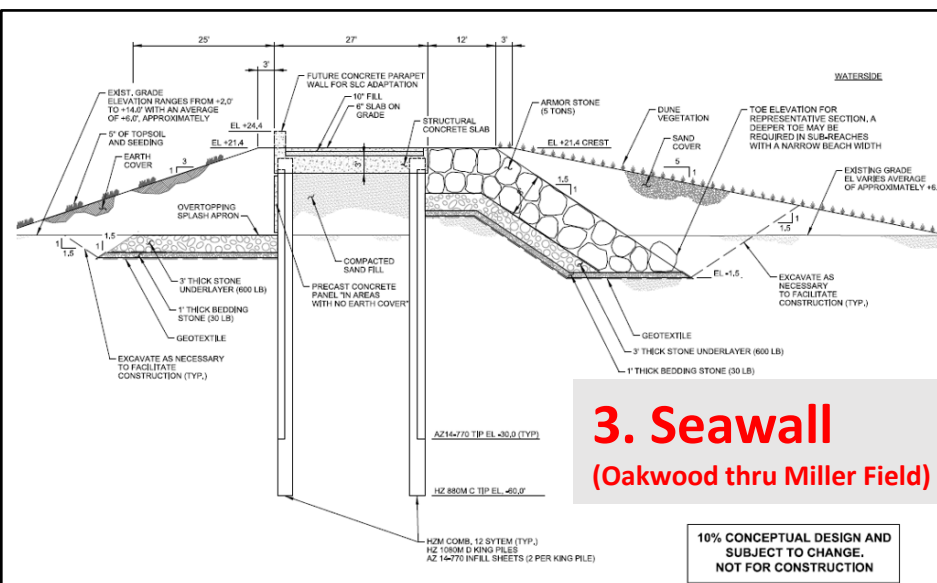
Typical Project Cross-Sections



1. Levee

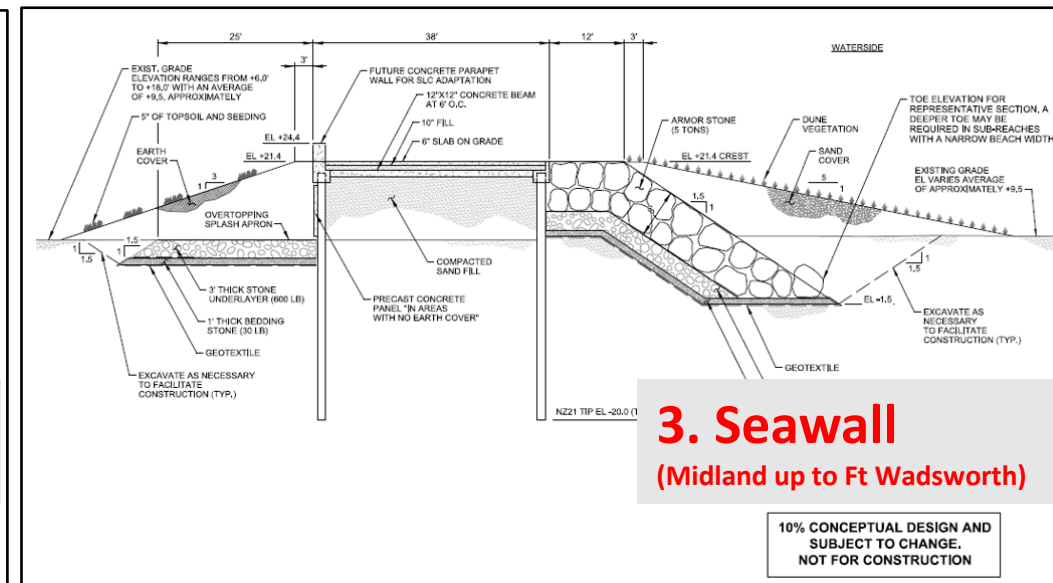


2. Floodwall



3. Seawall
(Oakwood thru Miller Field)

10% CONCEPTUAL DESIGN AND
SUBJECT TO CHANGE.
NOT FOR CONSTRUCTION



3. Seawall
(Midland up to Ft Wadsworth)

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Project Renderings (Before & After)



- ✓ ASA(CW) approved Feasibility Report, EIS, ROD, Director’s Report (Dec 2016); Validation Report complete Jan 2024, and documents required project design refinements, updated total project cost, updated cost-sharing, updated economics & environmental impact assessment; **Final Chief’s Report signed Feb 2024**
- ✓ Project Partnership Agreement (PPA) executed Feb 2019 with Corps, NYS (Sponsor), NYC (party)
- ✓ **PPA Amendment to be executed shortly to incorporate Chief’s Report, including updated estimated total project cost (WRDA 2024) and updated cost-sharing provisions (WRDA 2022)**
- ✓ **Original PPA estimate (\$615M) will continue to be cost-shared at 65% Fed, 35% non-Fed**
- ✓ **All costs ABOVE the original PPA estimate will be cost-shared at 90% Fed, 10% Non-Fed**
- ✓ HTRW removal at Great Kills Park reach (levee area) is required by non-Federal parties
- ✓ Project Operation & Maintenance will be a Sponsor (NYS → City) 100% responsibility & cost
- ✓ Project is designed to be adapted in future to address potential sea level rise, if required
- ✓ **Significant ongoing coordination underway:** Corps, NYS, Governor, NYC, Mayor, City Parks, City DEP, City DOT, Borough President, National Park Service, FEMA, various Congressional and local interests
- ✓ **Interior Drainage Area E construction contract @ South Beach** (ponding & drainage features, including City additional work items); **Awarded Jun 2024**; initial construction activities underway
- ✓ **All other construction contracts are concurrently under full design, including required coordination to incorporate various City requested additional features; developing contract breakouts & schedule**

Estimated Total Project Cost (FY25)

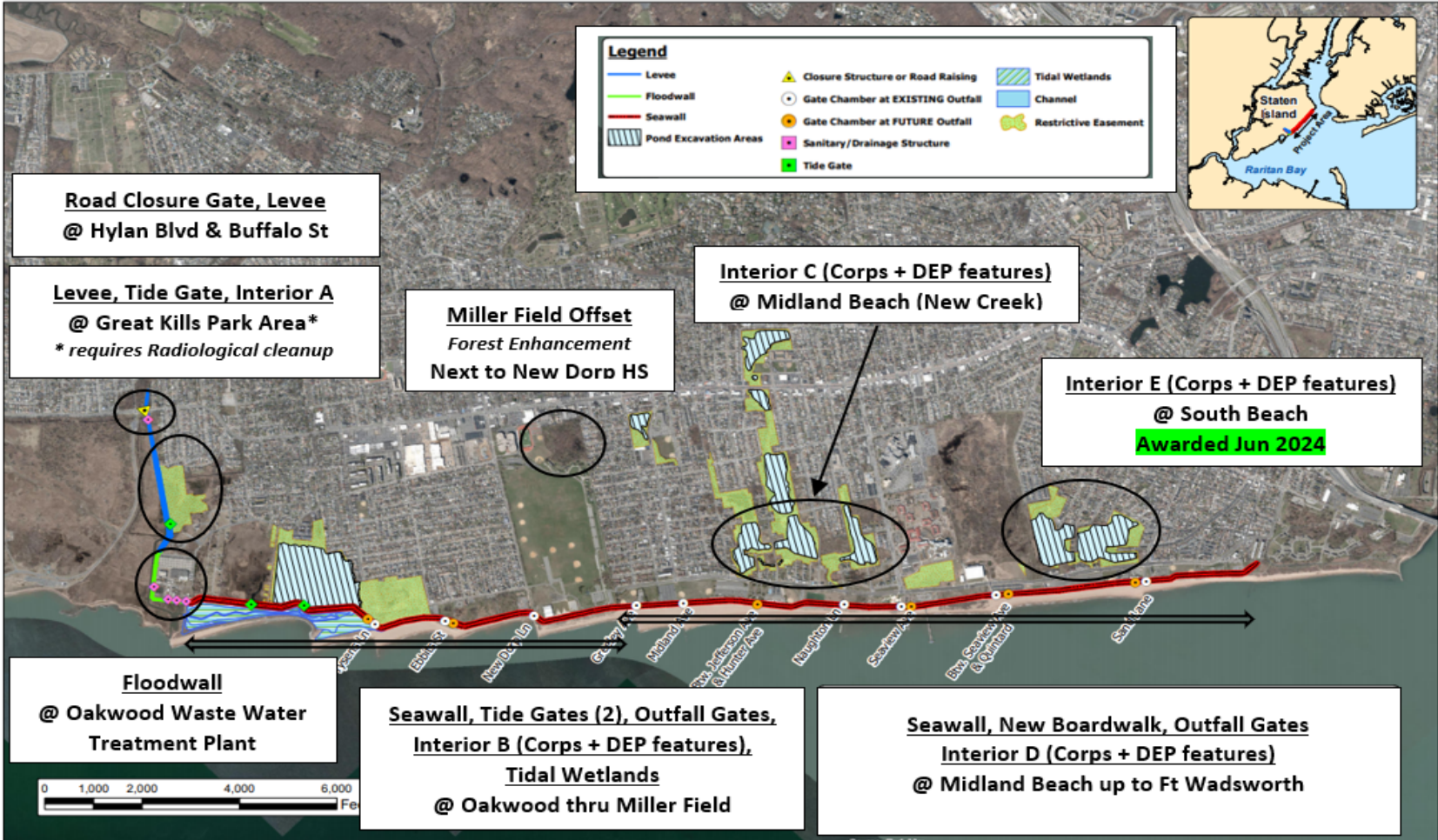
Estimated total project cost	~\$2.38 Billion
Federal cost-share	\$1.99 Billion
Non-Federal cost-share	\$392 Million
Annual Operation/Maintenance (100% Non-Fed)	~\$2M

Estimated Contract AWARD Schedules

Construction contract breakouts and schedules are still being refined

Interior E @ South Beach DEP additional work	Awarded Jun 2024 Construction underway
Interior C @ New Creek DEP additional work	~2028
@ Oakwood thru Miller Field Seawall, Tidal Wetlands, Interior B, DEP additional work, and Miller Field offset	~2028
@ Midland up to Ft. Wadsworth Seawall, Boardwalk Interior D, DEP additional work	~2029
@ Hylan Blvd & Buffalo St Road Closure Gate, Levee	~2030
@ Great Kills Park Levee, Interior A *Requires HTRW cleanup	
@ Oakwood WWTP Floodwall	

Anticipated Construction Contract Breakouts



US Army Corps of Engineers
New York District
BUILDING STRONG

NEW YORK STATE
Department of Environmental Conservation

NYC Parks

NYC
Environmental Protection

NATIONAL PARK SERVICE

NEW YORK CITY
DOT

US Army Corps of Engineers (website)
<http://www.nan.usace.army.mil/Missions/Civil-Works/Projects-in-New-York/South-Shore-of-Staten-Island/>