

Agenda

- Overall LMCR Update
- Project Updates
 - Battery Coastal Resilience
 - BMCR
 - BPCA Projects
 - Seaport Coastal Resilience
 - DOT Battery Park Underpass
 - Fidi/Seaport Master Plan

In Lower Manhattan, the City, State, and Federal governments have committed over \$1.7B in capital investments for climate adaptation projects. The Financial District and Seaport Climate Resilience Master Plan will fill a missing link in Lower Manhattan's comprehensive flood defense infrastructure.





CB1 | July 2023

LMCR projects respond to the urgency of the moment while planning for the long-term

A shared goal of protecting against climate hazards, addressing the unique conditions for each area



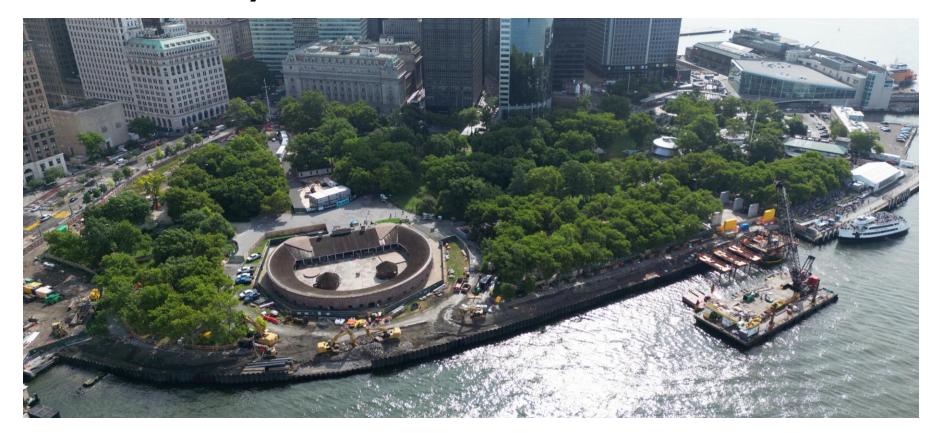
Project Timelines

(Est. Dates as of July 2024)

Project	100% Design	Procurement	Construction Start	Construction Complete						
					'24	'25	'26	'27	'28	'29
Brooklyn Bridge- Montgomery Coastal Resilience	Complete	Complete	Underway	Fall 2026						
South Battery Park City Resiliency	Complete	Complete	Underway	Mid 2025						
The Battery Coastal Resilience	Complete	Complete	Underway	Summer 2026						
North/West Battery Park City Resiliency	Early 2025	Complete	Mid/Late 2025	Mid/Late 2030						
Seaport Coastal Resilience	Early 2026	Late 2025	Early 2026	Early 2028						
FiDi-Seaport Master Plan	Underway	TBD	TBD	TBD						5

Battery Coastal Resilience

LMCR – Battery Coastal Resilience



LMCR – Battery Coastal Resilience

EDC Managing Project on Behalf of Parks

Design

- 100% Design complete June 2023
- Verified Envision Platinum Award (program to lower carbon footprint for large infrastructure projects)

Construction

- Phase 1 January 2024 to July 2025
- Phase 2 August 2025 to June 2026



Conceptual Rendering





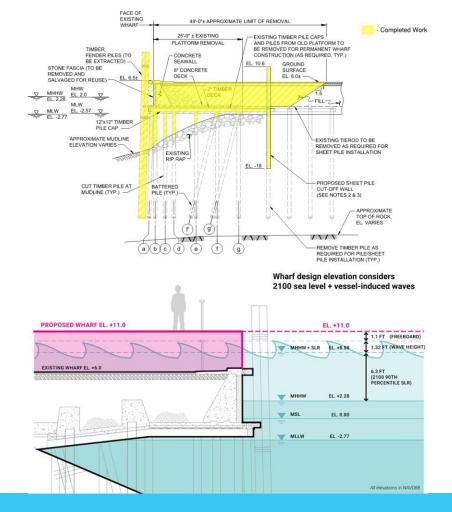
Construction Updates

Phase 1 Completed Work

- Construction Kicked off February 2024
- NPS West Security Tent Demolition Complete March 2024
- Hardscape Salvage Complete March 2024
- Sheet Pile Install Complete May 2024
- Existing Wharf Demolition Complete June 2024
- Test Piles Complete June 2024

Phase 1 Upcoming Milestones

- Production Pile Installation July 2024
- Upland Civil Work Mobilization Late July 2024
- Upland Excavation & Drainage Improvements Late July 2024
- Upland Lightweight Fill Program Early October 2024







Progress Photos: Salvage & Upland Demo

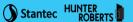


February 2024 – Salvage



March 2024 – Upland Demo

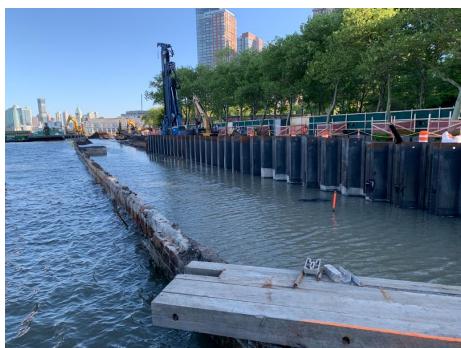




Progress Photos: Excavation & Sheet Pile Installation



April 2024 – Excavation



May 2024 – Sheet Pile Installation







Current Progress: Wharf Demo and Pile Driving





May 2024 – Wharf Demo

June 2024 – Pile Driving







Current Progress: Aerial Imagery



June 12, 2024



Former Face of Wharf

July 12, 2024

Current Progress: Wood & Granite Refurbishment

Stony Creek Granite





After Repair

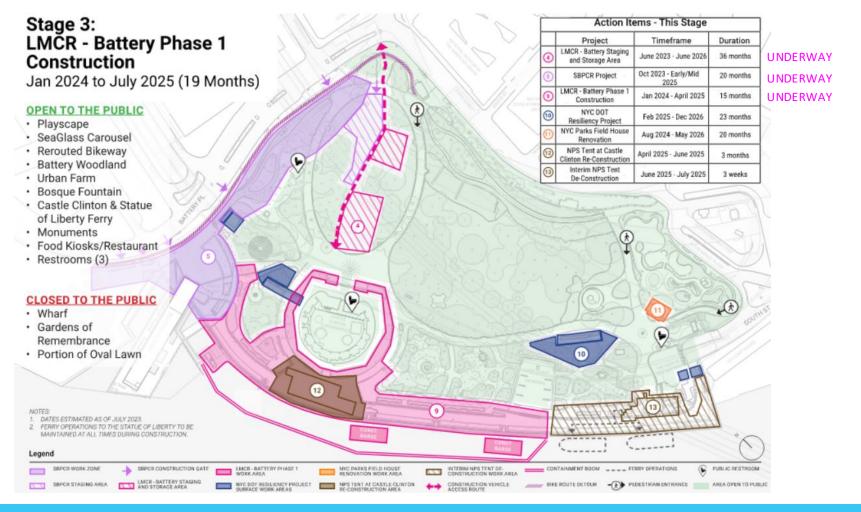


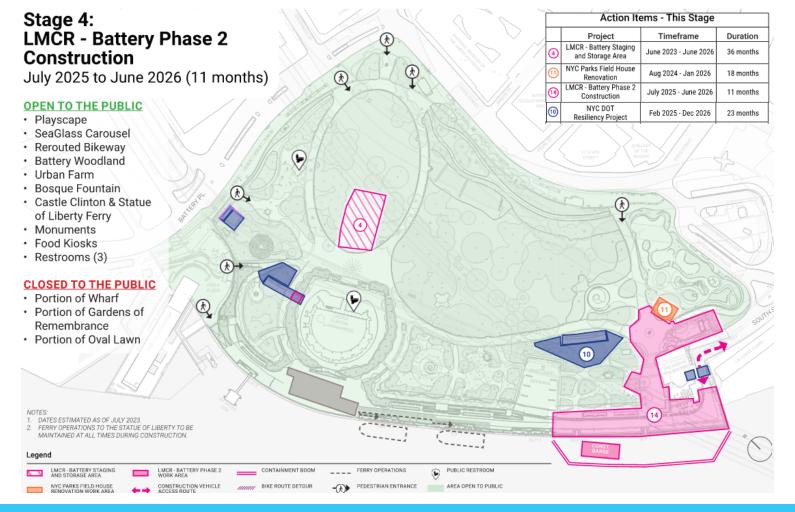
Wooden Sea Rail











Site Signage







Site Signage



LMCR – Battery Coastal Resiliency in the News!

Groundbreaking 5/6/24



Sustainability



Community Outreach & Updates

Construction Notices

Lower Manhattan Coastal Resiliency Battery Coastal Resilience

Construction Notification | Date Issued: 05/09/2024

Project Summary

The Battery Coastal Resilience Project will rebuild and elevate the Battery wharf to reduce risk from future tidal flooding and low level coastal storms, while maintaining the character and uses of the promenade and the rest of the park. The Battery Coastal Resilience Project is one of several projects, which together are known as the Lower Manhattan Coastal Resiliency (LMCR) Project.

Newsletters



Questions?

Leah Yudin - Construction Community Liaison info@batterycoastalresilience.com

https://www.nyc.gov/site/lmcr/progress/battery-coastal-resilience.page





Brooklyn Bridge-Montgomery Coastal Resilience Construction Update

CB1 Environmental Committee Meeting 1 Centre Street July 15, 2024













BMCR | Project Status

ALL WORK IS SUBJECT TO CHANGE

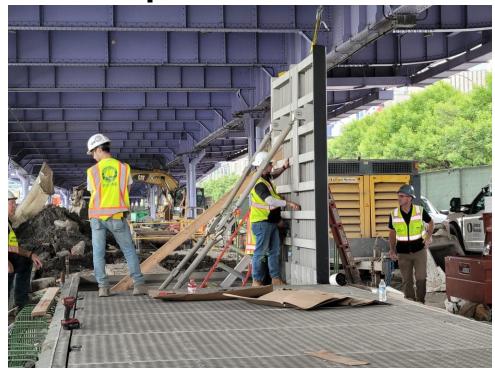
- 1. Interceptor gate building foundation and floodwall construction
- 2. ConEd utility work on South St. from Robert F. Wagner Pl. to Market Slip
- ConEd utility work on South St. from Pike Slip to Montgomery St. and water main installation from Clinton St. to Montgomery St.

- 4. Flip up gate installation, floodwall foundation construction, and micro pile installation
- 5. Floodwall foundation excavation and utility work
- 6. Pedestrian entrance to Pier 35 closed from South Street





BMCR | Construction Photos





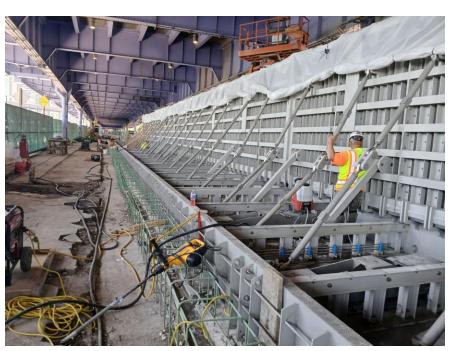
Flip up gate hydraulics – June 2024

Contractor bolting flip up gate segments together - June 2024



BMCR | Construction Photos





Deployed flip up gate during installation – June 2024



BMCR | Construction Photos



Deployed flip up gate, dry side - Rendering





Deployed flip up gate, dry side during installation – June 2024

BMCR | Resources

Visit Us: https://www.nyc.gov/bmcr

Community Construction Liaison:

Marsha Guido

347-538-4266

Email: bmcr.ccl@gmail.com

Tabling in the Community

CB 3 Parks Meetings

On-site signage

Inquiry tool and email updates:

https://www.nvc.gov/bmcr/contact



Tabling event - 2023



Advisories posted on-site



Brooklyn Bridge-Montgomery Coastal Resilience

Brooklyn Bridge-Montgomery Coastal Resilience

The Battery Coastal Resilience

Interim Flood Protection Measure (IFPM)

Battery Park City Resilience Projects

The Financial District and Seaport Climate Resilience Master Plan

Seaport Coastal Resilience

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Brooklyn Bridge - Montgomery Coastal Resilience

managing the construction of BMCR.

This project will reduce flooding risk – from both sea level rise and storm surge – for thousands of residents, while continuing to preserve views and access to the waterfront. These deployable

residents, while continuing to preserve views and access to the waterfront. These deployable buriers will be permanent infrastrutum, hidden until they are flipped up in the event of a storm. The location of the flood walls and posts has been designed to minimize conflict with subsurface infrastructure and to maximize integration of public space amentics such as open-air seating, fitness equipment, and athletic courts.

Explore the headings below for more information about BMCR and the status of construction:

Learn more about the NYCEDC design phase: NYCEDC LMCR





Learn More about BMCR

- Abou
- Construction Notices
- Presentations
- Newsletters
- Gallery
 Community Engagement
- Contact
- FAQs





Are you looking for more information? Visit Us at: https://www.nyc.gov/bmcr

South Battery Park City Resiliency







Wagner
Park/MJH:
Completed
Installation of
Flood Wall
Micropiles



Pier A Plaza & The Battery:
Site
Demolition



Wagner Park: Partial Pavilion Progress

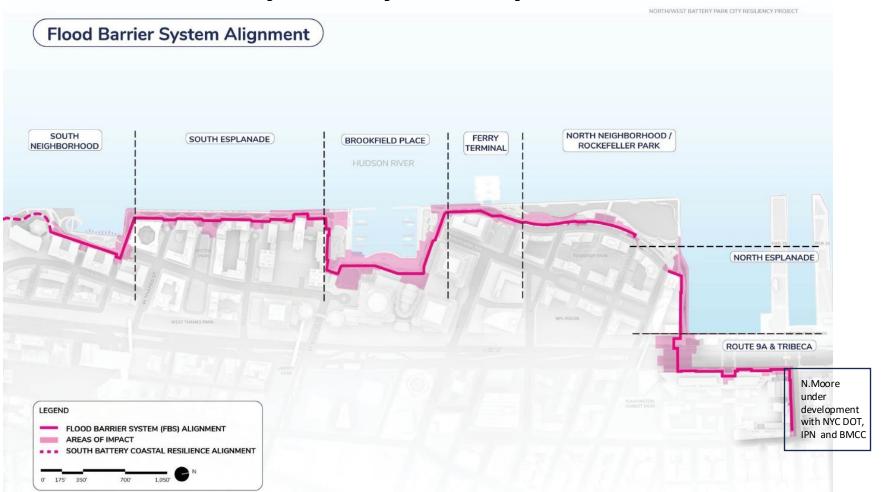


Wagner Park:
Partial
Installation of
Pavilion Rebar &
Concrete
Formwork

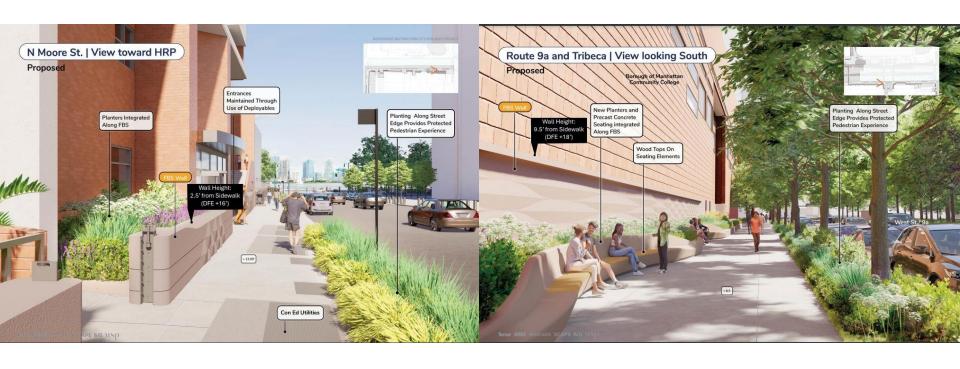
South Battery Park City Resiliency- Contact Information



North/West Battery Park City Resiliency



North/West Battery Park City Resiliency - Route 9A/Tribeca



North/West Battery Park City Resiliency - North Esplanade and Rockefeller Park



North/West Battery Park City Resiliency - Ferry Terminal and Brookfield Place



North/West Battery Park City Resiliency - South Neighborhood and South Esplanade



NWBPCR: Key Community Engagement Milestones To Date

- Project Kickoff June 2021
- Public Meeting #1 August 4, 2021
- Community "Walkshops"
 - o October 28, 2021
 - November 4, 2021
 - o November 13, 2021
- Public Meeting #2 December 16, 2021
- Public Meeting #3 (Open House) June 2022
- Public Meeting #4 September 2022
- Presentation @ Manhattan CB1 December 7, 2022
- Reach Specific Workshops
 - o February 8, 2023
 - o February 16, 2023
 - o March 6, 2023
 - o March 15, 2023

- Public Meeting #5 (30% Design) June 26, 2023
- NWBPCR Project "SiteWalks"
 - Sitewalk 1: Reaches 1-4, October 19
 - Sitewalk 2: Reaches 1-4, Saturday, October 21
 - Sitewalk 3: Reaches 5-7, Saturday, October 21
 - o Sitewalk 4: Reaches 5-7, Thursday, October 26
- Interior Drainage Update @ Manhattan CB1 October 16, 2023
- Public Meeting #6 (Post-30% Design Progress Update) November 30, 2023
- Presentation @ Manhattan CB1 (Reaches 6 & 7) January 4, 2024
- Presentation @ Manhattan CB1 (Reaches 2, 3, 4) March 18, 2024
- Presentation @ Manhattan CB1 (Reaches 1 & 5) April 16, 2024
- Presentation @ Manhattan CB1 June 6, 2024
- Public Meeting #7 (60% Design Progress Update) June 20, 2024
- Smaller meetings with stakeholders throughout

Upcoming Public Engagement Opportunities

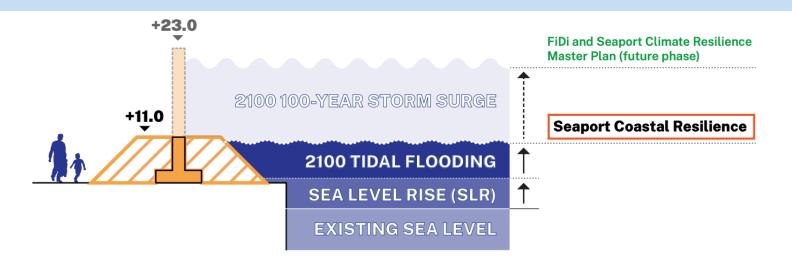
- DEIS Hearing September 2024
- Public Design Commission Review Fall 2024
- Solicit Community Input for Temporary Open Space Concepts Summer/Fall 2024
- Advance Design of Pump Station 2024/2025
- Meetings with Individual Buildings Ongoing
- LMCR Quarterly Updates On-going
- Agency Permitting On-going
- Pre-Construction Engagement 2025

Seaport Coastal Resilience (SPCR)



- Separate project from the FiDi and Seaport Climate Resilience Master Plan
- Narrow focus on the Seaport neighborhood between John Street and Brooklyn Bridge
- Designed to safeguard from immediate and future risks from tidal flooding and sea level rise projected for the year 2100

Climate Resilience Intentions



Seaport Coastal Resilience	FiDi and Seaport Climate Resilience Master Plan (future phase)
Raise waterfront to 11 feet above sea level	Extend the shoreline to accommodate multi-level waterfront
 Prevent flooding from tides and sea level rise in the year 2100 	 Extend protection against 100-Year Storm Surge in the year 2100



Open House Overview

Open House Intent

- Introduce the project to the community
- Listen to the community's desires for the project and immediate neighborhood

Location & Date

Peck Slip School Thursday, June 27 6:00 pm – 8:00 pm











Snapshots from the SPCR Open House on June 27th

Open House Promotion

- Project flyer in English, Spanish, and Chinese
- E-blast to project stakeholders
- Flyers distributed to 49 locations across the project area including:
 - Local businesses
 - Schools (paper and in student e-backpacks)
 - Public spaces
 - Residential buildings

For Future Outreach

- Improve online presence
- Use social media





Meeting flyers in English, Spanish, and Simplified Chinese







Flyers posted at 110 Williams Street Apartments, Beatnic Café, and the Biodome public space

What We Heard

Feedback Topics

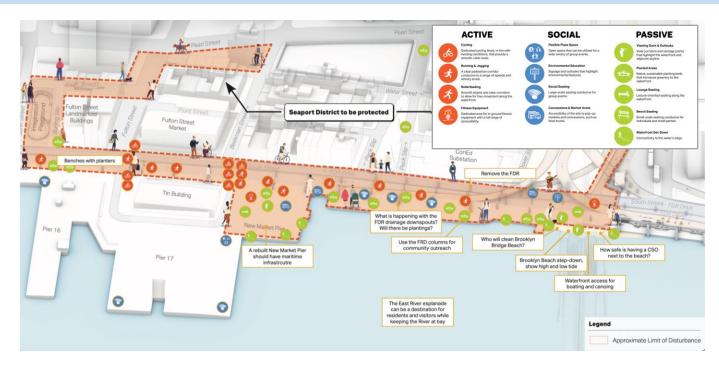
- Alignment and programmatic design
- Imagination Playground
- Historic character
- Waterfront views and access
- FDR Drive
- Cycling and pedestrian infrastructure
- Green infrastructure and green spaces
- Maritime infrastructure

- Social space
- Connectivity
- Environmental Education
- Flooding and drainage concerns
- New Market Pier
- Public art
- Community outreach



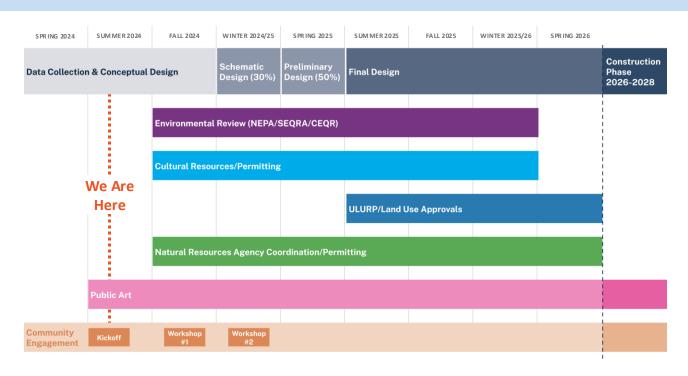
What We Heard

What would you like to see in the SPCR area?





Next Steps



We will be back in the fall!

CB1 outreach in advance of:

Early Fall

Potential Public Design Commission concept meeting

Late Fall

Potential Community Design Workshop



Battery Park Underpass Improvements (NYC DOT)

Summary of Work

- DOT plans to complete flood mitigation improvements at both ends of the Battery Park Underpass to include:
- Flood door and barriers
- Flood proofing to ventilation shafts, buildings, and other openings that could allow water to enter
- Structural and electrical work for generators

Schedule and Closures

- •BPU to be kept open during daytime; some overnight closures expected
- •DOT will share further updates with CB1 as we move closer to start date







ARCADIS

July 15th, 2024

Engagement Updates

Spring (March-May)

- Fulton Market tabling
- Seaport Kids Earth Day

- Summer (June-August)
 Harbor School collaboration
- Seaport Kids Music Festival and summer programming
- Imagination Playground tablingFlyering at LM businesses

Fall (September-November)

- Back-to-School programming
- CCLM meeting to share design updates



Harbor School FiDi/WEDG capstone



Seaport Kids x Earth Day



Seaport Kids Music Fest

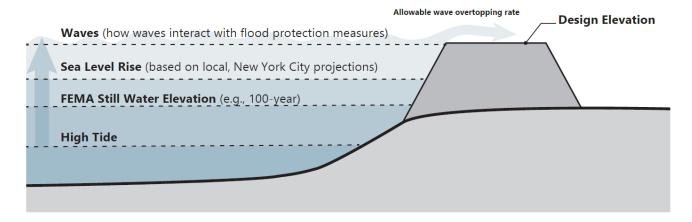


Appendix

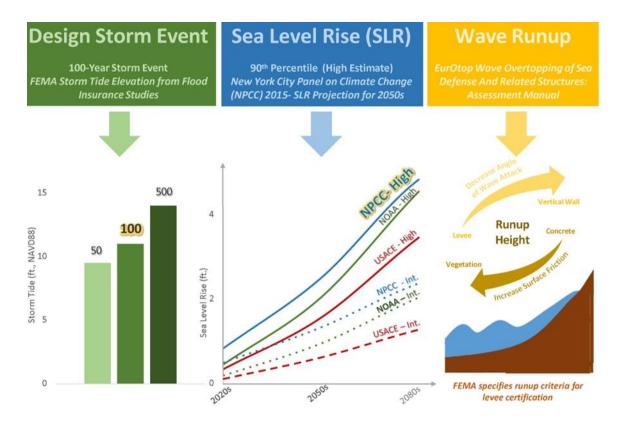


What is a Design Flood Elevation?

- The design flood elevation, or the "DFE" is the minimum elevation to which a structure must be elevated or floodproofed.
- To calculate a DFE, first a Design Storm Event is determined, then additional height is included for sea level rise, wave runup and wave overtopping.
- The selected design storm, sea level rise projection, and relative wave climate, all have a large impact on the DFE.
- Projects pursuing FEMA
 accreditation need to comply with
 FEMA 44 CFR 65.10 which sets
 forth design standards.

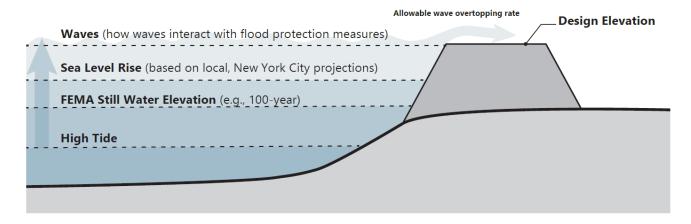


All LMCR projects are based on the same underlying principles



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Different geographies and implementation needs produce design variations.

WAVES

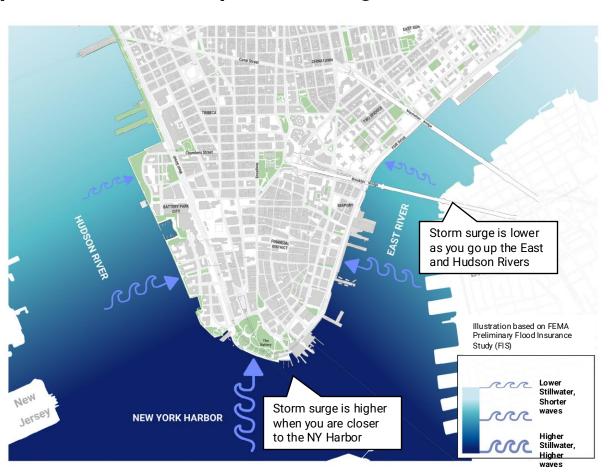
 For LMCR, the waves are bigger in the south near the Battery due to the relative location in the NY harbor.

ON-LAND CONDITIONS

 Some areas have less space to site flood defense, particularly where there is less existing open space.

IMPLEMENTATION TIMELINES AND REQUIREMENTS

 Projects awarded federal funds need to be designed and implemented within the allowable timeframe



Current capital projects & planning studies share same underlying principles with variations that reflect localized needs.

CAPITAL PROJECTS TO PROTECT AGAINST TIDAL FLOODING AND FREQUENT STORMS:

- The Battery Coastal Resilience
- Seaport Coastal Resilience (SPCR)

CAPITAL PROJECTS TO ADDRESS BOTH STORM SURGE AND TIDAL FLOODING:

- Battery Park City Coastal Resilience Projects
- Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)

LONG TERM PLANNING PROJECTS TO ADDRESS BOTH STORM SURGE AND TIDAL FLOODING:

 The Financial District and Seaport Climate Resilience Master Plan

