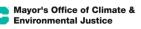


FiDi and Seaport m

Climate Resilience Plan

Southern Tie-In Public Workshop July 22, 2025







Welcome! Why are we here today?

To provide a public update on the Southern Tie-In portion of the FiDi and Seaport Climate Resilience Plan, and to gather input that will **help us advance the way the project's flood protection infrastructure ties into the surrounding neighborhood** at its southern end.

We will cover the following...

1. The FiDi and Seaport Climate Resilience Plan

• What are the project goals, site area, and timeline?

2. The Southern Tie-In

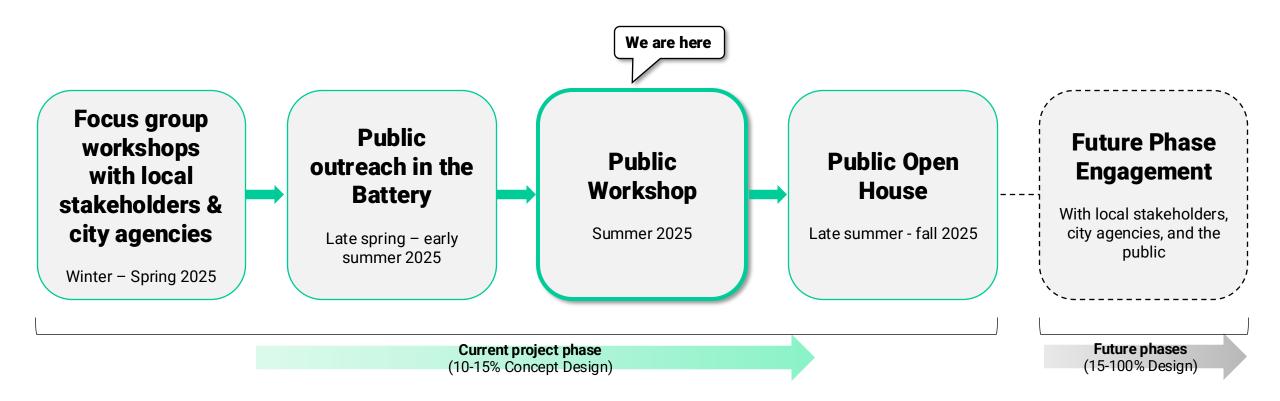
- What is a tie-in and why is it necessary?
- How do we create closed and connected flood protection?

3. The Battery

- How does the Battery work today?
- What could the Battery of the future look like?



This meeting is part of a series of engagement sessions on this topic planned for 2025. Future phases of the FiDi-Seaport Project will include additional public and stakeholder engagement.





You can share questions and input in multiple ways throughout this event – we need and appreciate your participation!

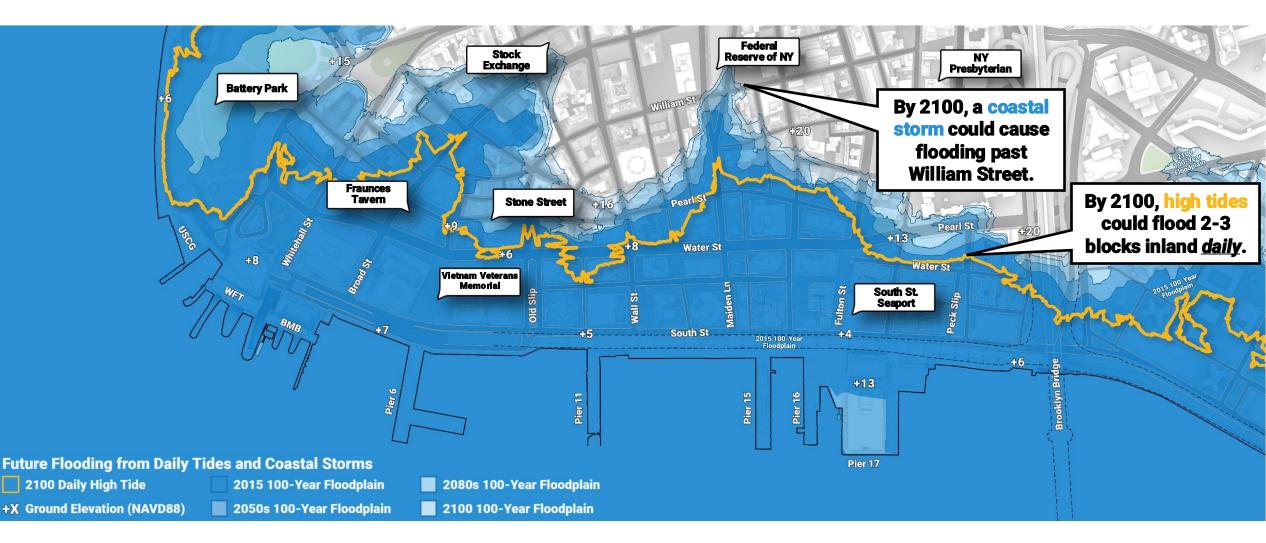




1. The FiDi and Seaport Climate Resilience Plan

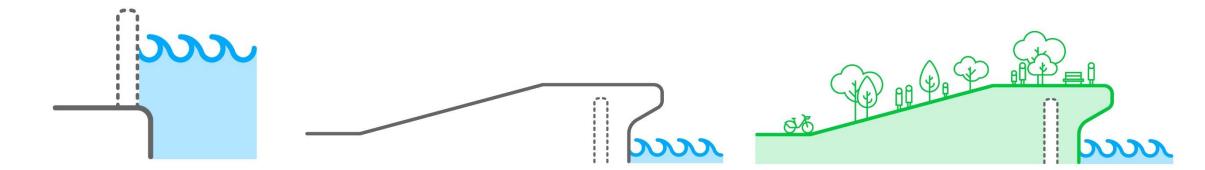


We are planning for the Lower Manhattan of the future that will be underwater every day if we do not act now.





The FiDi and Seaport Climate Resilience Plan sets out to define a viable resilience solution to climate risks. This solution will accomplish three major goals.



Protect Lower Manhattan from daily tidal flooding and coastal storms

Integrate our climate resilience infrastructure into the city

Enhance the public waterfront experience



Over \$1.7B in capital investments have been committed for coastal protection projects in Lower Manhattan. Most of LMCR is under construction today or will soon complete design.



The Plan is a flexible framework for protecting Lower Manhattan.

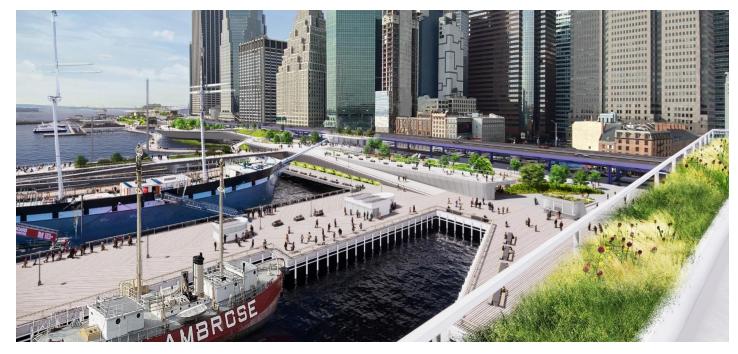
Highlights of Our Design

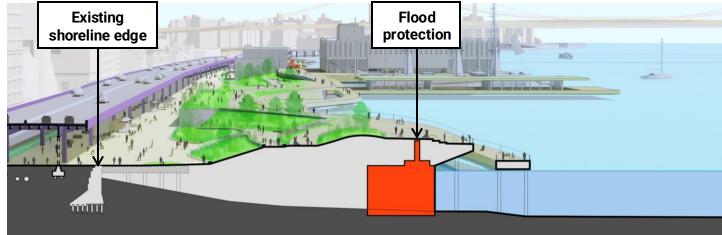
• Two levels of flood protection: a lower level for daily tidal flooding and an upper level for

coastal storms

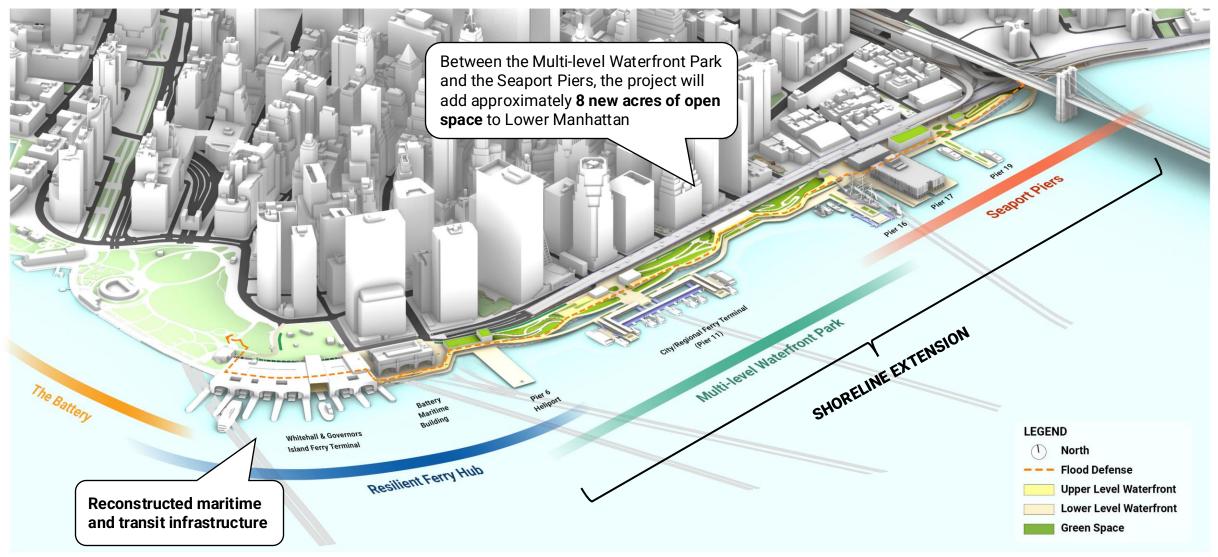
- Extends into the water up to a full city block at some locations (up to 200 feet) and down to a half-block (90 feet)
- Improved drainage system, including pump stations, to remove rainwater from our streets and homes

Explore the Plan in greater detail at https://fidiseaportclimate.nyc





The shoreline extension allows for the addition of new waterfront open space, while also upgrading and reconstructing critical maritime infrastructure.



The new shoreline will add approximately 8 acres of new waterfront open space.

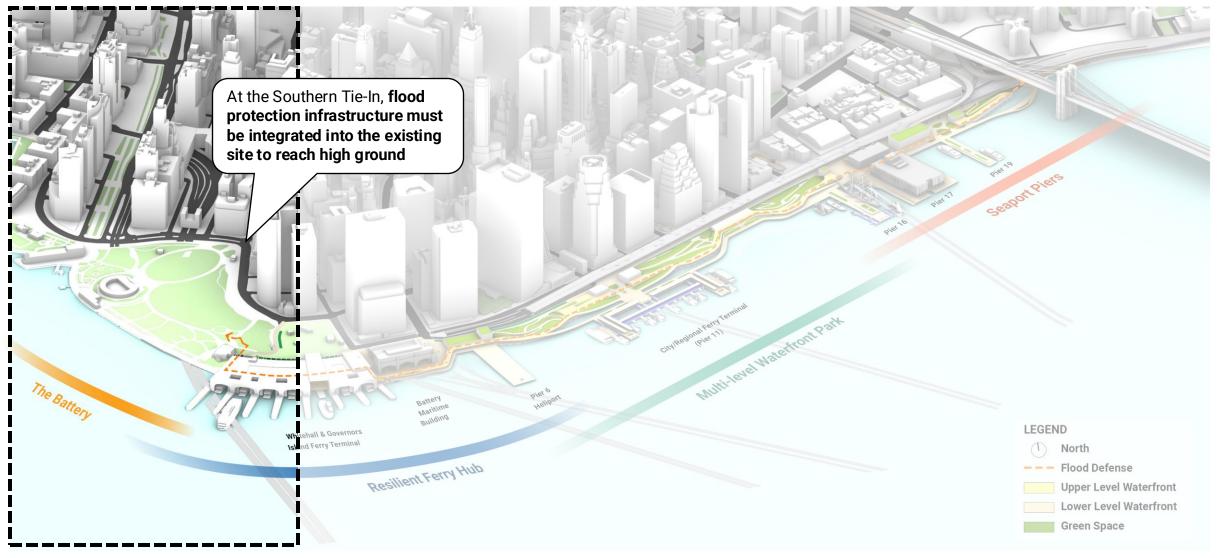
Open spaces provide areas for public educational programming and outdoor learning Universally accessible paths between the upper and lower levels

> Open water areas between piers provide opportunities to get closer to the water

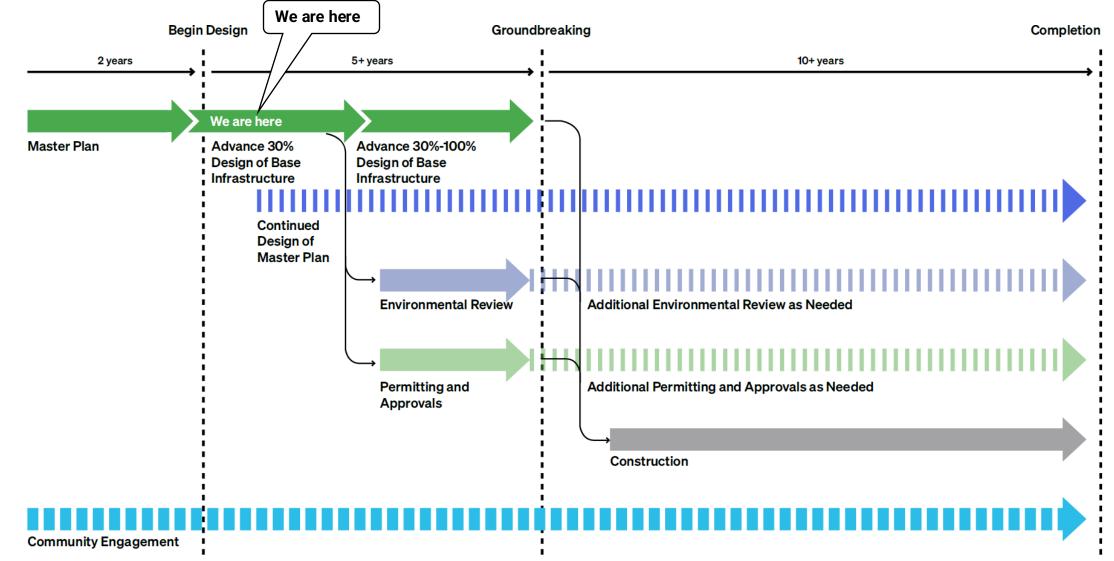


Looking north near Maiden Lane

Base infrastructure at the Southern Tie-In is the last piece of the project that remains to be developed into engineering schematics. This area is built on existing land.



Our goal is to move the FiDi-Seaport Project from a conceptual vision to an actionable capital project.

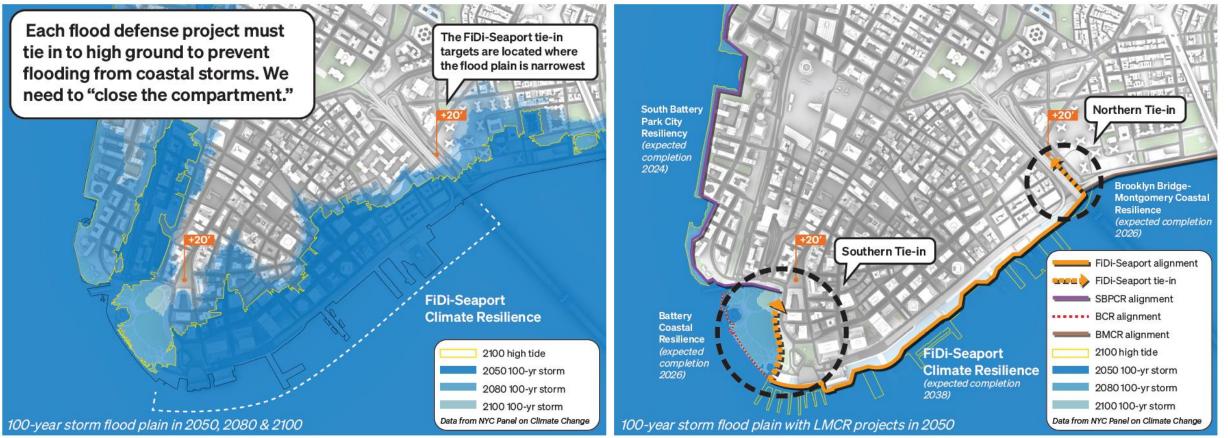


2. The Southern Tie-In



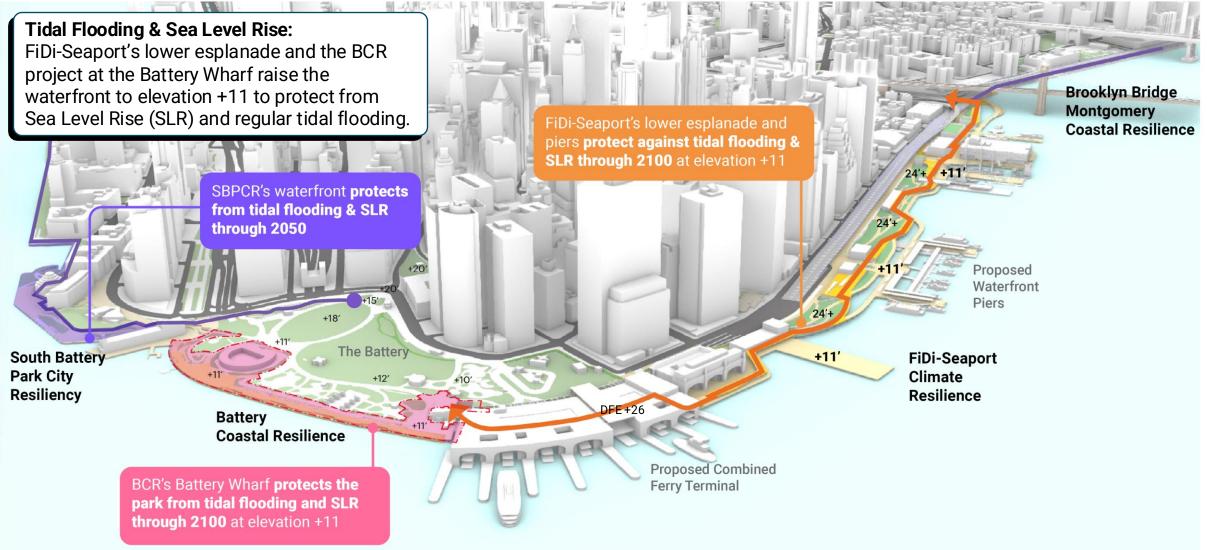
What is the Southern Tie-In?

To protect Lower Manhattan, we must create a closed and connected flood protection system. Our flood protection alignment must tie in to high ground at either end of the project.



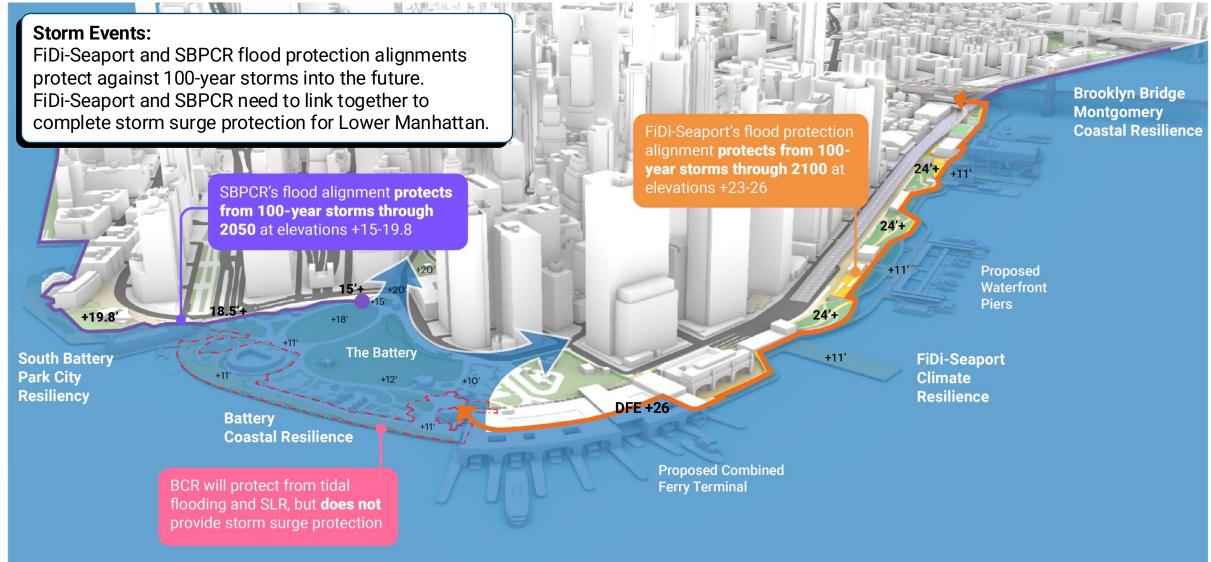
Without Lower Manhattan Coastal Resiliency (LMCR) projects, the neighborhood faces serious flooding during severe storm events, exacerbated by future sea level rise. Closed and connected LMCR projects protect from storm surge flooding and sea level rise. The FiDi-Seaport project will protect through 2100.

Three resiliency projects come together at the tip of Manhattan. Each project protects from tidal flooding and sea level rise through 2050 or 2100.

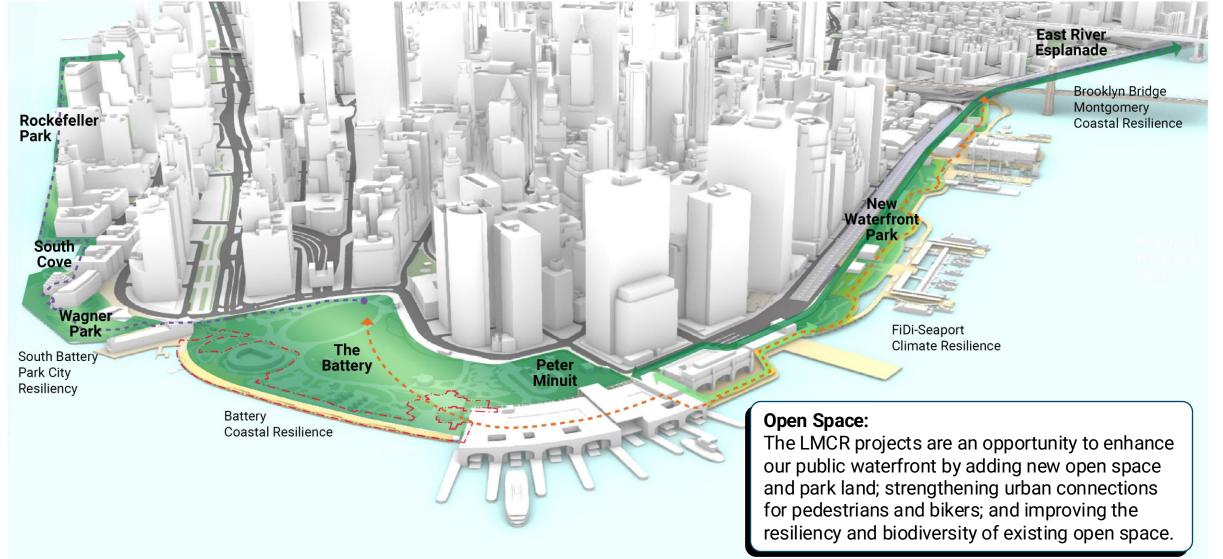




Three resiliency projects must link together at the tip of Manhattan to fully protect Lower Manhattan from coastal storms overtopping into the neighborhood.

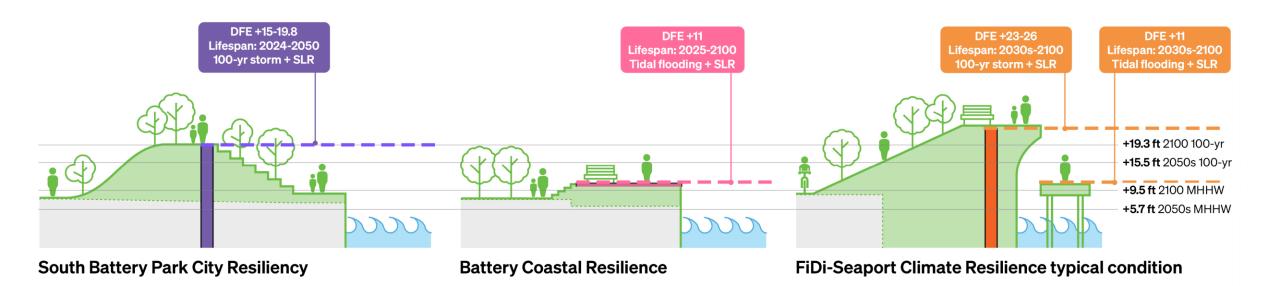


The goal is to integrate a closed flood protection system into a connected sequence of enhanced public waterfront open spaces wrapping the tip of Manhattan.





Differences in Design Flood Elevations (DFEs) between adjacent projects are driven by the target lifespan of each. The FiDi-Seaport project has the highest DFE and the longest targeted lifespan.





These two adjacent projects are already underway, transforming our waterfront.

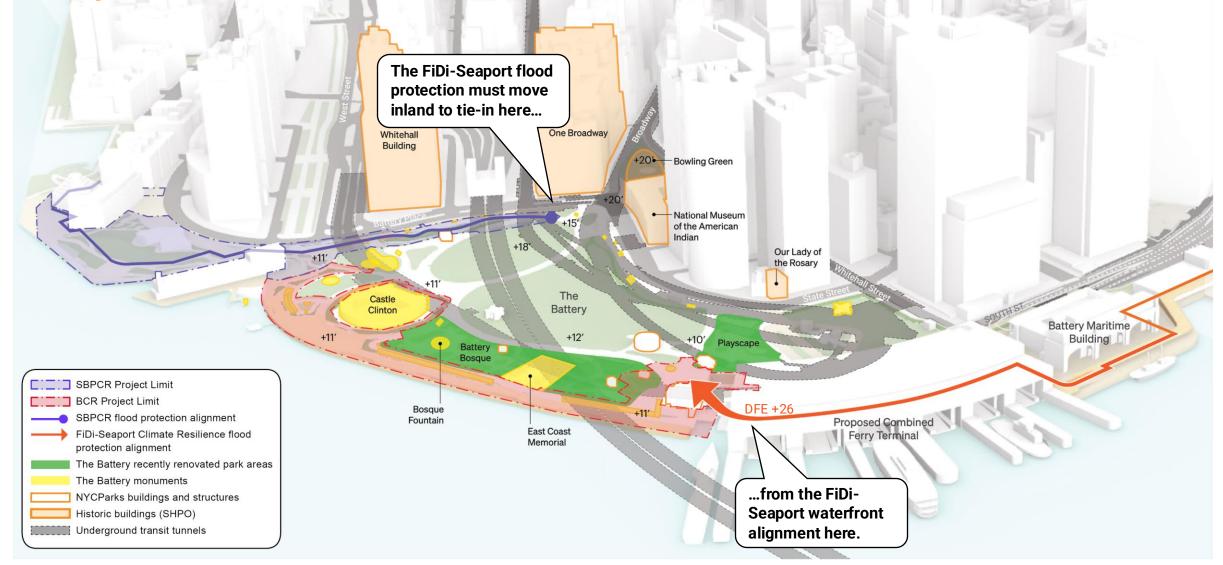


South Battery Park City Coastal Resilience (SBPCR) Broke ground in 2023 - Expected completion in 2025

Battery Coastal Resilience (BCR) Broke ground in 2024 - Expected completion in 2026



Closing the Southern Tie-In requires threading flood protection through a complex site.



Below ground, a tangle of critical transit infrastructure creates significant technical challenges...



Subway tunnels run below the Battery upland, State Street, and Peter Minuit Plaza



Several subway entrances span along State Street between Bowling Green and Peter Minuit Plaza



Two vehicular tunnels cross under The Battery



Above-ground tunnel vents and access points dot the study area

...Above ground, the site holds many culturally significant monuments and open space assets.



Historically significant buildings



Busy public streetscapes and right of ways



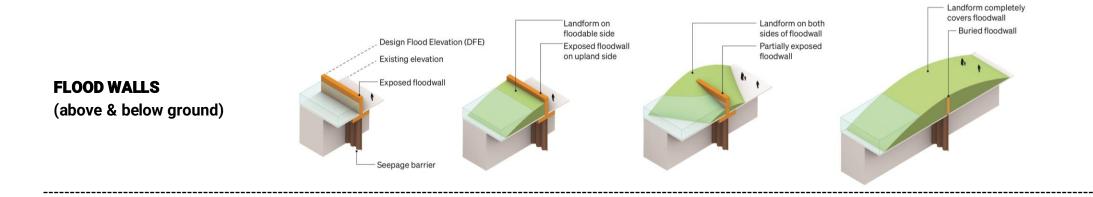
Adjacent resiliency projects

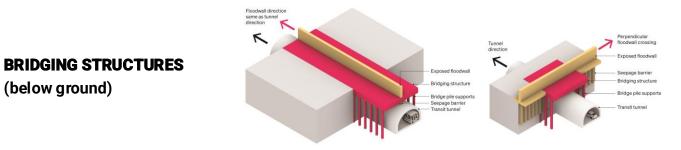


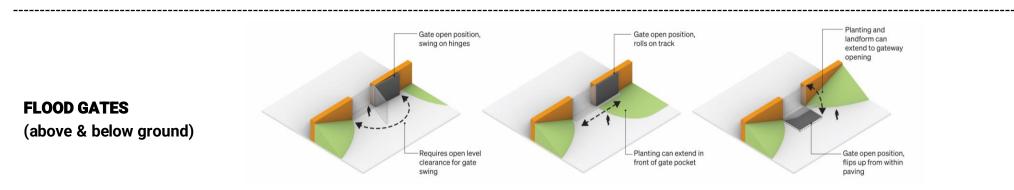
Waterfront open space, monuments and memorials

How do we create closed and connected flood protection?

The inland flood protection is made up of many infrastructure components. Some are visible above ground, while others are hidden below ground.



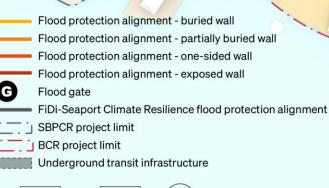






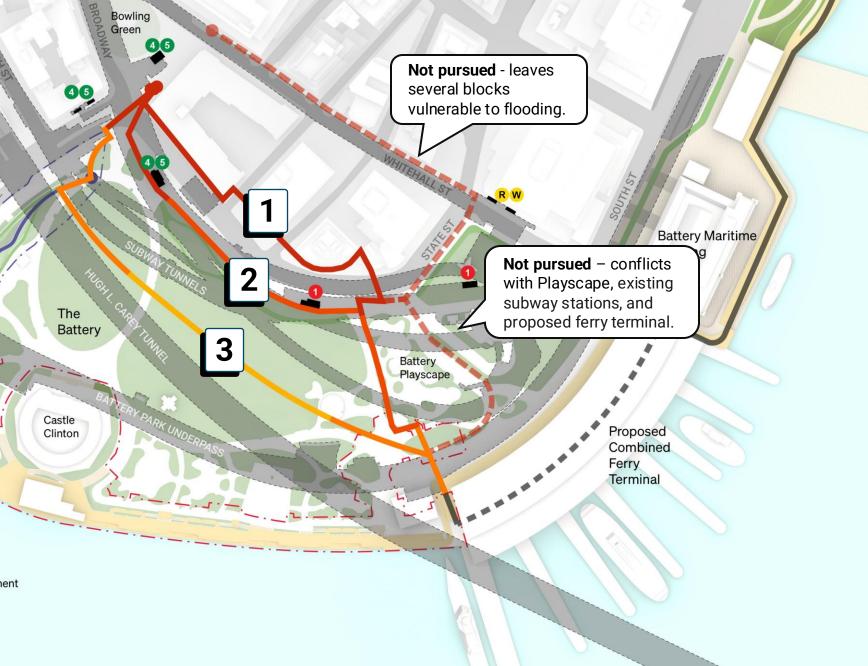
Alignment Studies

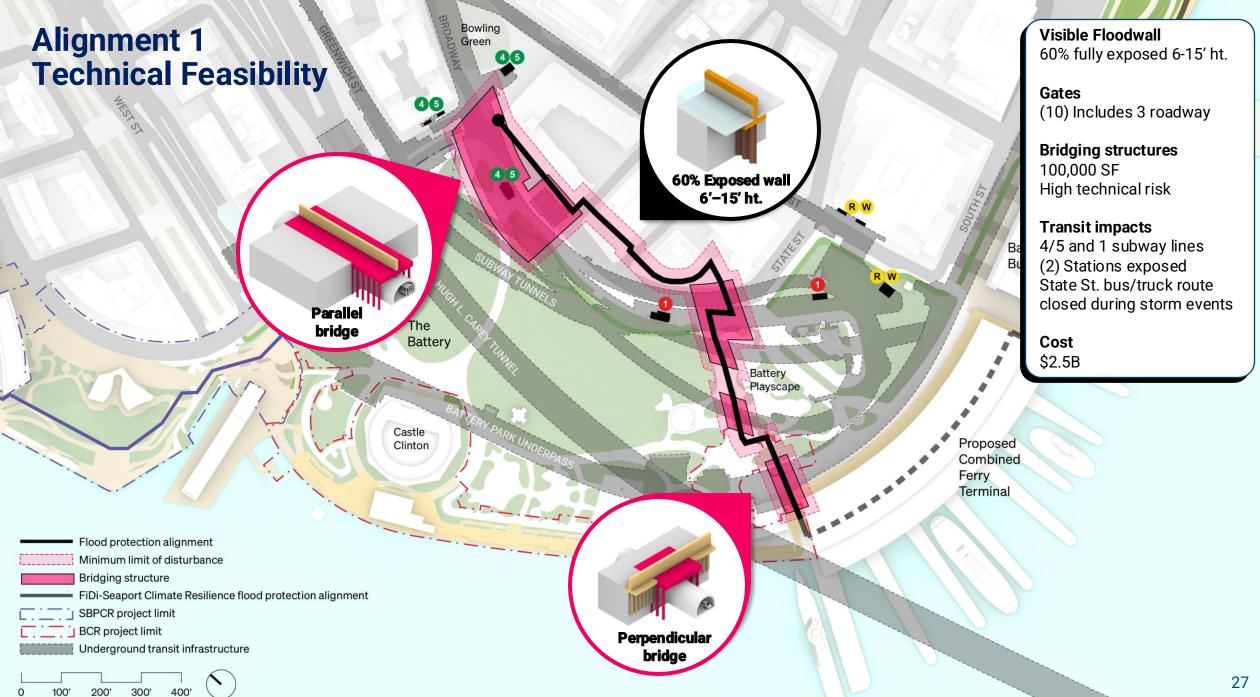
- Within the zones, three potential alignments were advanced for further study.
- Two additional alternatives were studied but not pursued along Whitehall Street and around the Battery Playscape.
- All three alignments leave part or all of the Battery park area exposed to flooding. For all alignments, flood protection would be coupled with resilient park improvements on the floodable side of the alignment.

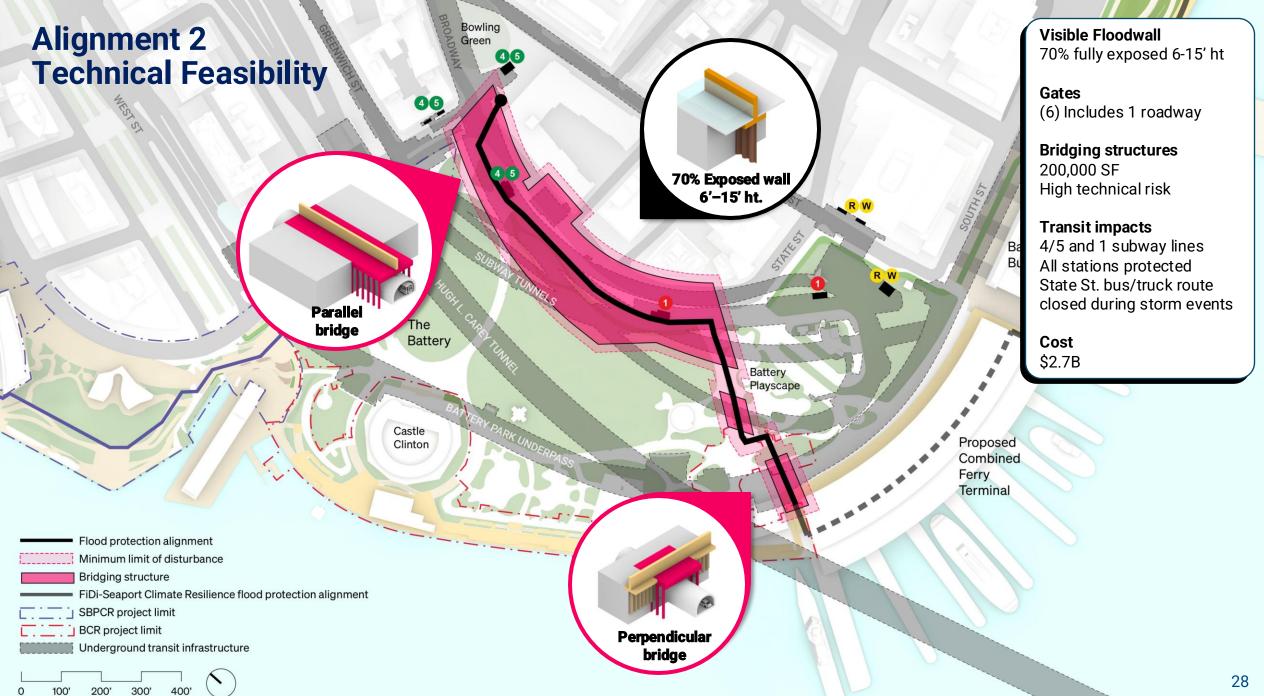


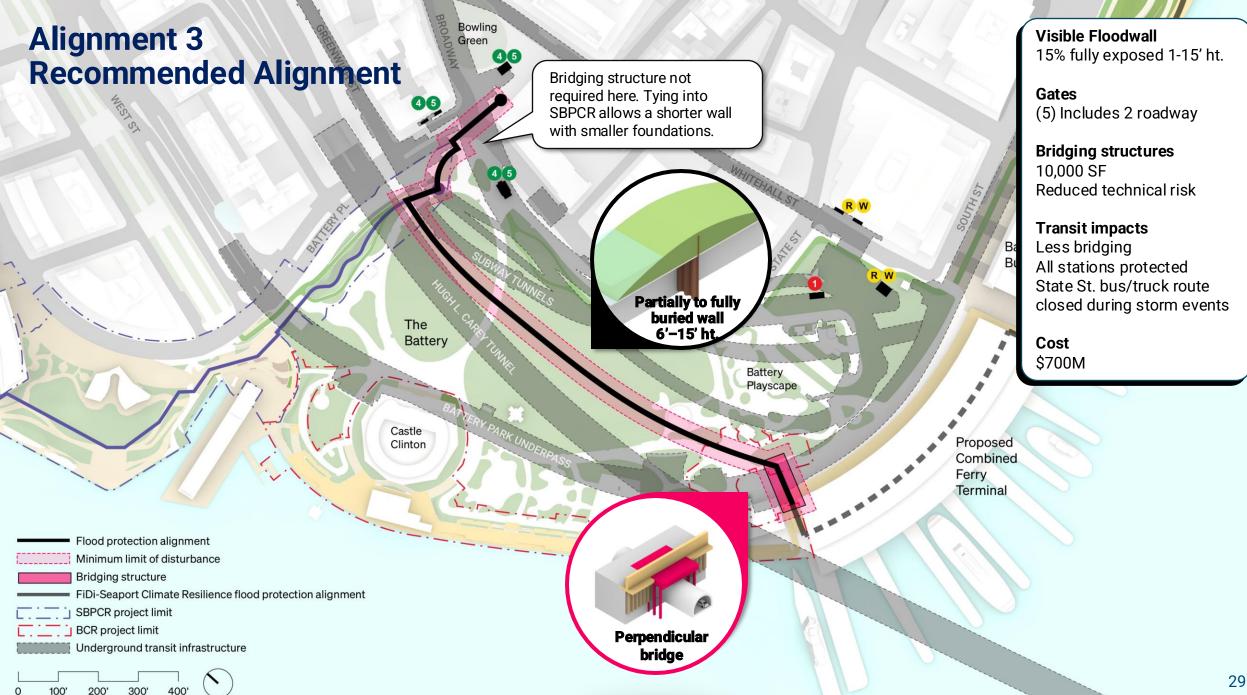
200'

300'

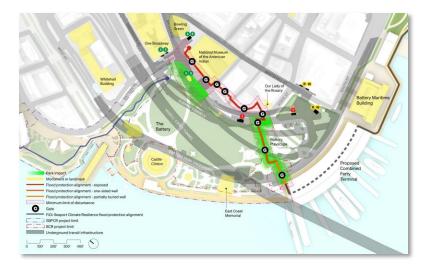








Alignment Summary



Alignment 1 State Street – Building Adjacent

• Challenges include technical feasibility, public realm impacts, building impacts, limited integration opportunities, and cost



Alignment 2 State Street – Park Adjacent

 Challenges include technical feasibility, park impacts, public realm impacts, limited integration opportunities, and cost



Alignment 3 Park – Battery Upland

 More technically feasible, less impact to critical infrastructure, transit, and buildings, and lowest cost



3. The Battery



How does the Battery work today?

The Battery is a significant public waterfront, both locally and nationally.



The Battery is a significant public waterfront and a gateway to harbor destinations, attracting visitors near and far. The Battery holds a collection of important monuments and historic narratives.



The Battery is a green oasis of horticulturally rich gardens and mature trees.

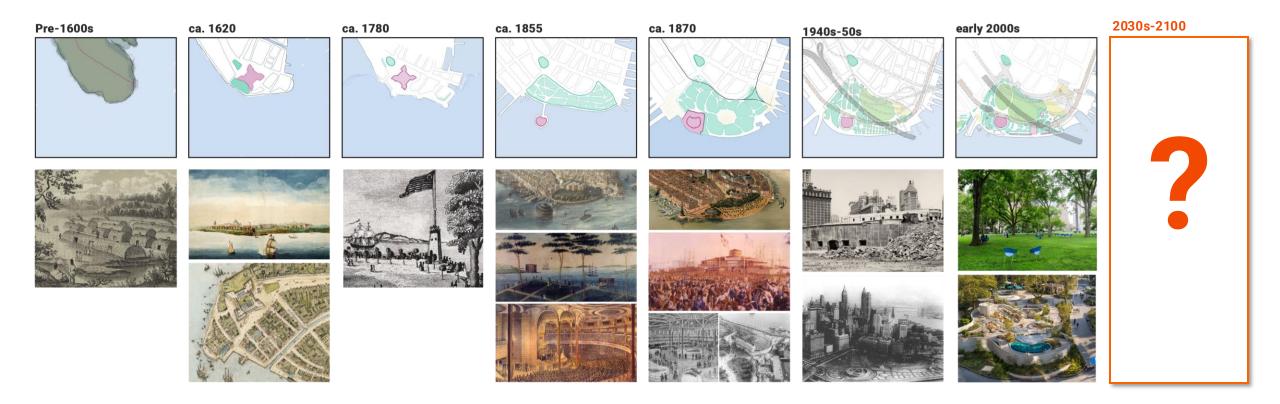


The Battery is an urban neighborhood park serving diverse needs and users.





Like the rest of the city's waterfront, The Battery has continuously evolved in every phase of its history. How can we best serve the park into the future?





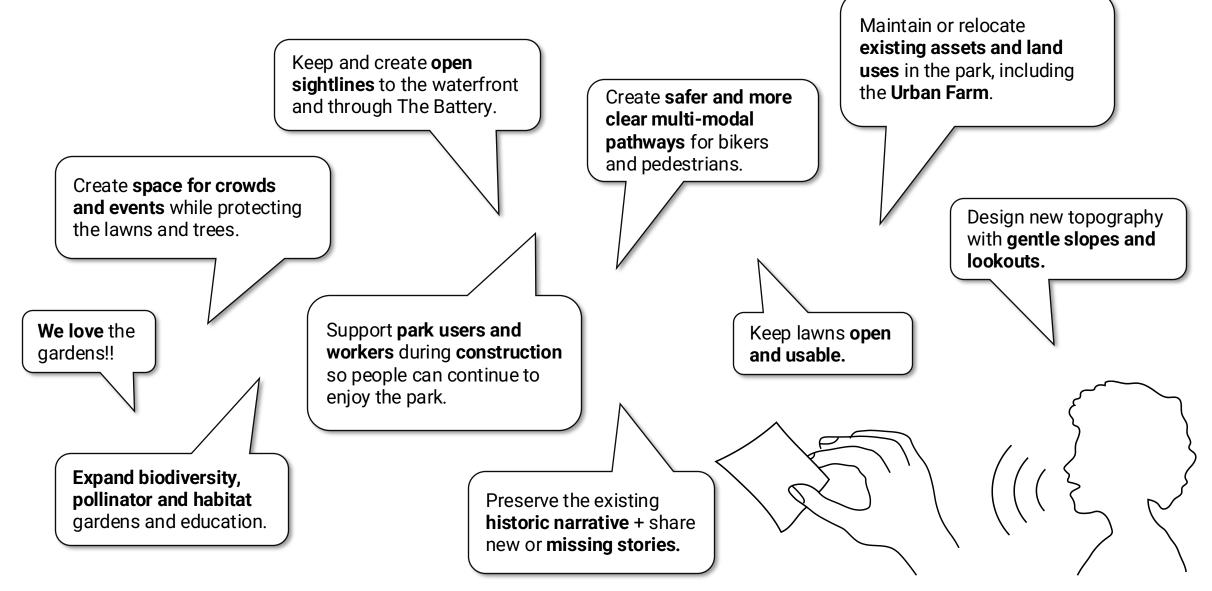
We want to hear from you! In prior sessions, we have begun to gather community input on what is most important about The Battery today.



Focus group workshops with local stakeholders & city agencies Winter – Spring 2025 **Public outreach in the Battery** May 2025

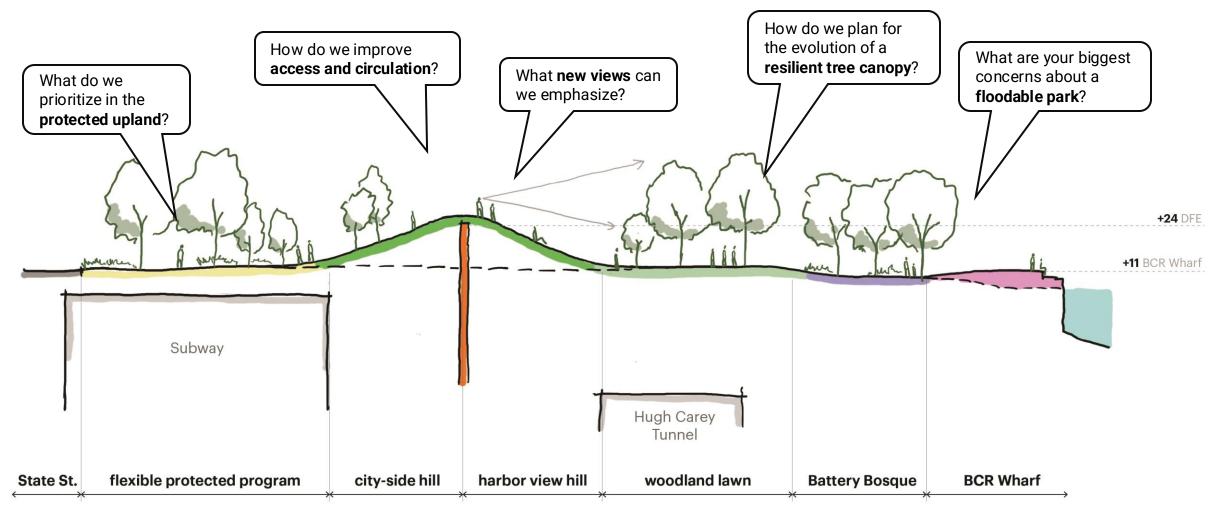


Some things we've heard from you so far...





We spoke with stakeholders about what site considerations should guide the design strategy for flood protection integration within the existing park.





What can we expect in this phase of design vs. future phases of design?

This phase of design (through fall 2025) will establish: 10-15% Concept Design

- Conceptual alignment for the flood protection infrastructure so that engineering design can proceed.
- **Technical constraints and feasibility criteria;** assess design alternatives and impacts.
- **Open space goals and priorities** for integration of flood protection infrastructure.
- **Conceptual footprint** for new landforms and earthwork.
- Conceptual circulation and programming ideas.
- **Conceptual-level costing and implementation** analysis.

Future phases of design will develop: 15-100% Schematic - Final Design phases

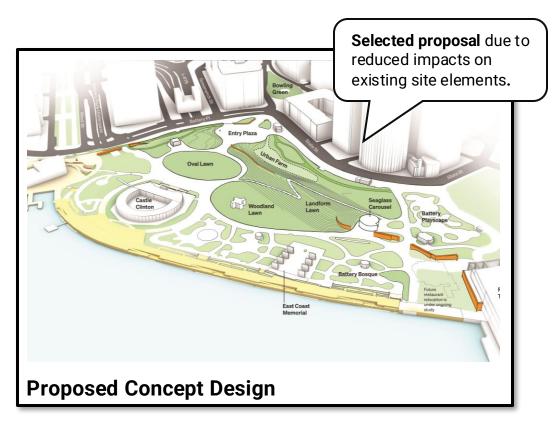
- **Engineering design** for the flood protection infrastructure.
- Study and development of design details, materials and finish selections for exposed flood protection components.
- Refinement of open space design for site grading, landform, and site circulation.
- Open space design for site programming and character – including materials selections, furnishings, lighting, and site elements.
- **Resilient planting approach** and plant species selections.
- Ongoing costing, implementation, and impacts analysis.

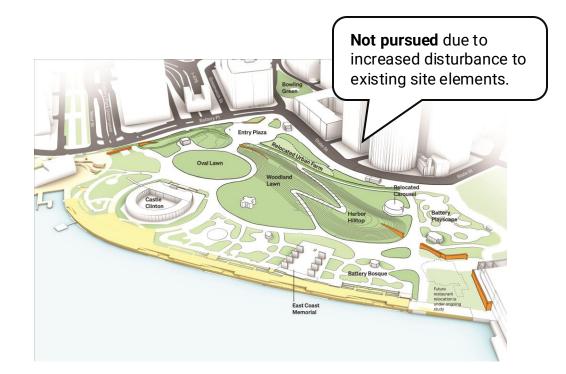


Proposed Concept Design:

What could the Battery of the future look like?

Today we will be sharing a proposed concept design that addresses the technical criteria, project goals, and input received so far. This concept will continue to evolve with stakeholder input. We will also give a brief overview of an alternative study.

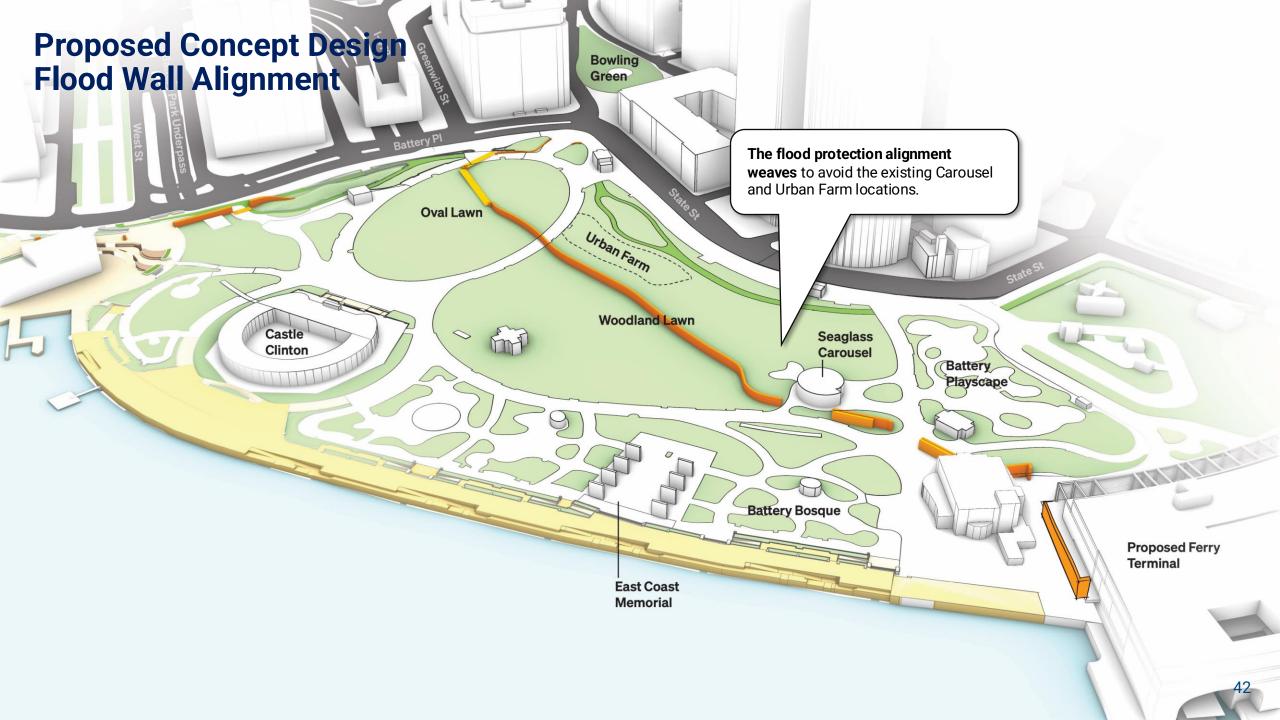




Alternative Study (not pursued)







Proposed Concept Design Landform Integration

A **gently sloping landform** covers the flood protection where there is more space between subsurface tunnels.

Bowling

Green

F

Urban Farm

Woodland

Lawn

Landform

East Coast

Memorial

Lawn +26

Entry Plaza +16

Battery Pl

Oval Lawn

+10

Castle

Clinton

At its high point, **the landform is approximately 15' ht.** above the existing elevation, or **about one story tall**.

Seaglass

Carousel

+11

Character, material, and finishes of exposed flood walls and gates to be studied in future phases of work. Flood gates and some fully exposed flood wall are necessary to accommodate the Carousel in its existing location while navigating between subsurface tunnel constraints.

+11

Proposed Ferry

Terminal

Battery Playscape

Future restaurant

study

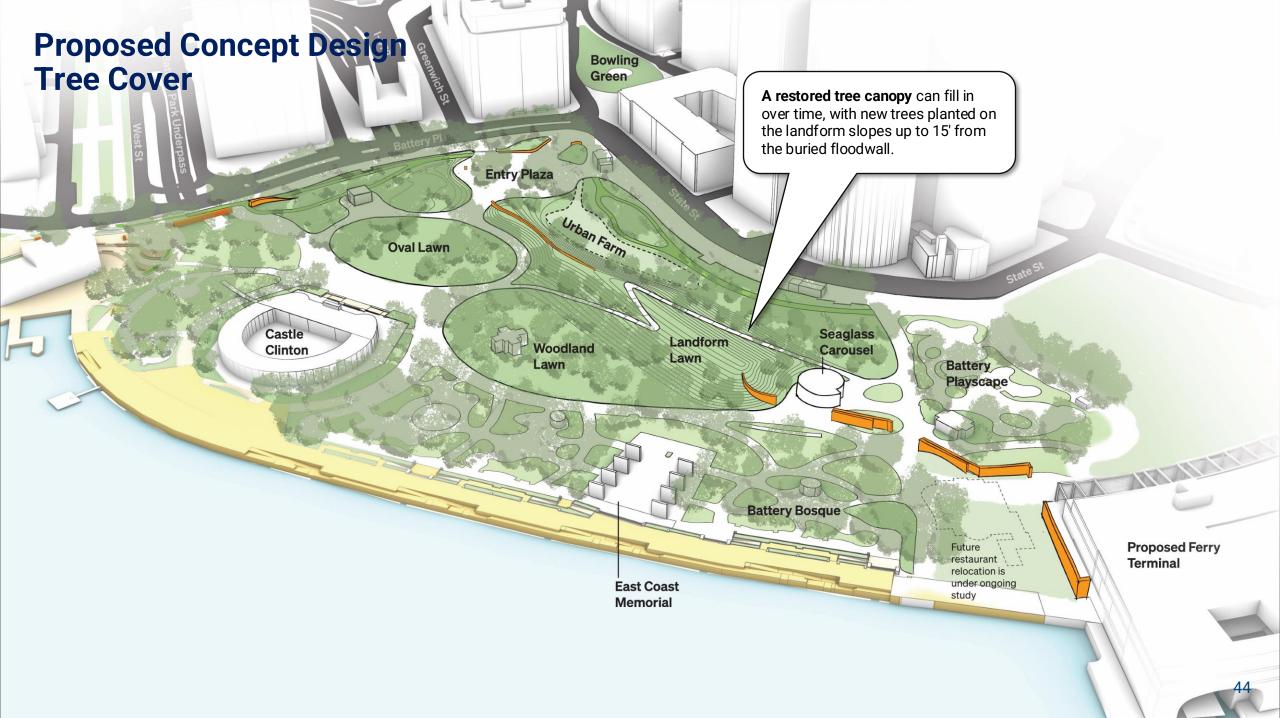
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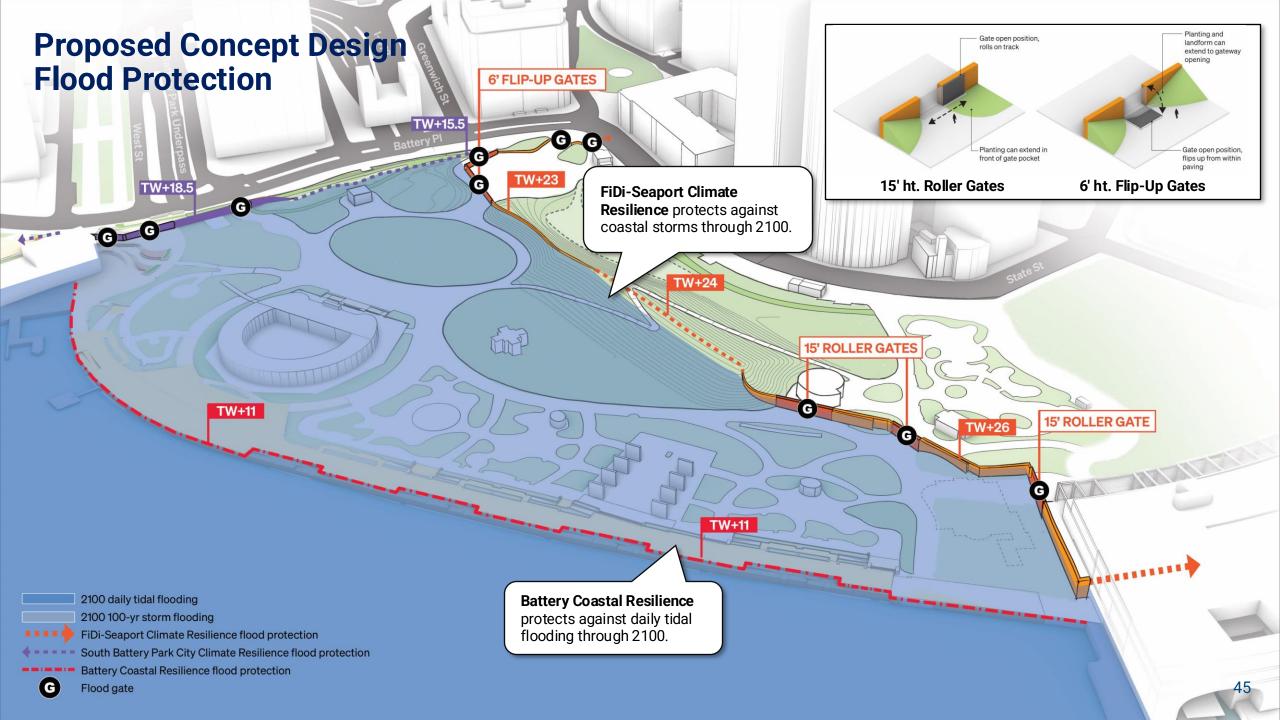
relocation is

under ongoing

+11

43





Proposed Concept Design Access & Circulation

Bikeway remains in its existing alignment with pedestrian crossings at park entrances. No existing pedestrian connection through the woodland edge.

G

A **gently sloping universal path** brings visitors up and over the landform with moments to rest and look out.

(IIIIIIIII

G

Gates maintain at-grade pedestrian access and views along major axes to the water.

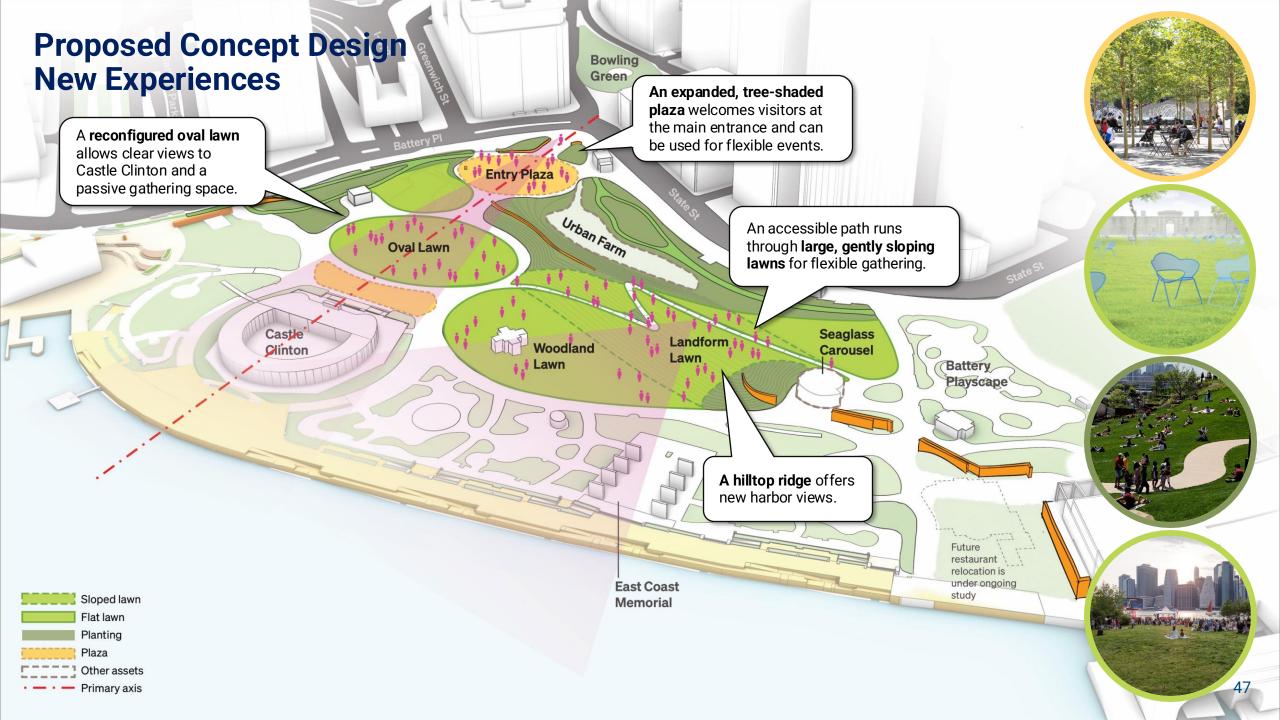
G

Primary parallel pathway through middle of park is preserved in its existing location.

TITIT

G

Up and over pedestrian route Main pedestrian routes Protected bikeway Bike-pedestrian mixing zones Flood gate



Proposed Concept Design Elements to Remain

The Urban Farm remains in its existing location and configuration, new landform bends around it.

Bikeway and gardens along the State Street edge remain in existing configuration. No existing pedestrian path through woodland edge.

> Battery Playscape

> > Future

restaurant \

under ongoing study

Woodland Lawn

Entry Plaza

Oval Lawn

Bowling

WUrban Farm ; Wiji

Green

Seaglass Carousel

Carousel is preserved in its existing location, approx. 17' offset from the exposed flood walls and gates.

Landform

Lawn

East Coast

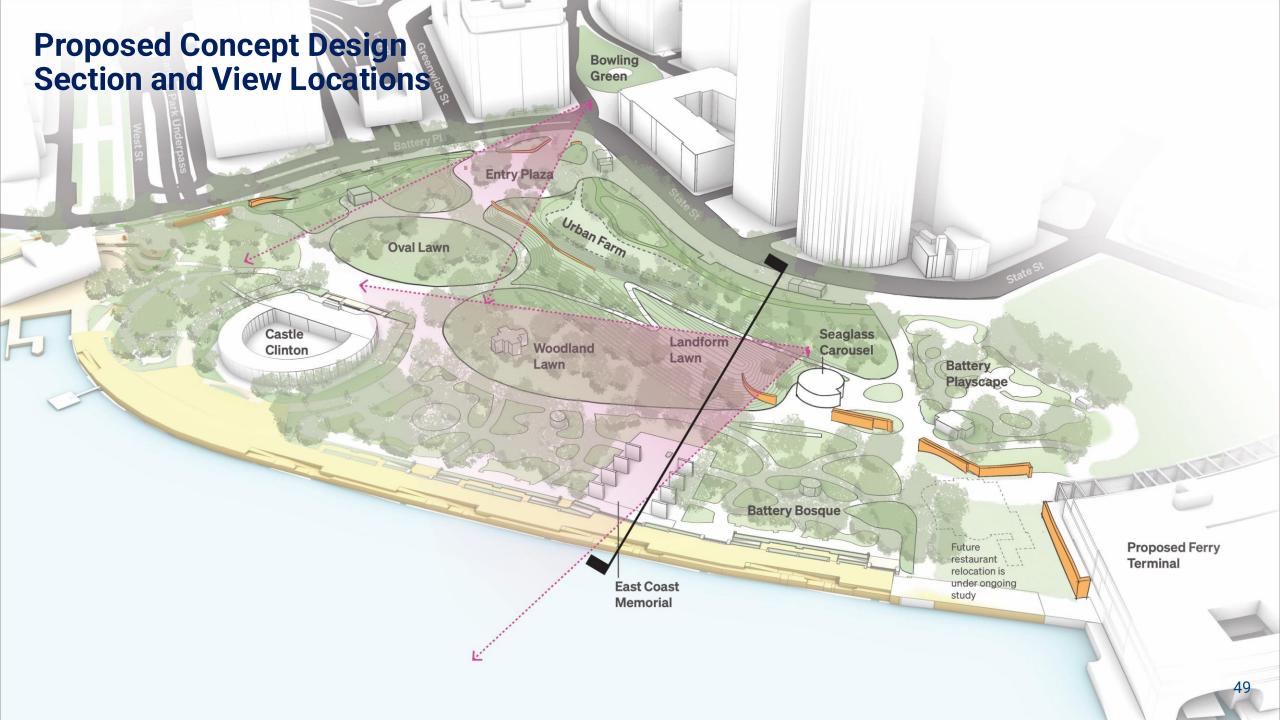
Memorial

The Bosque, Castle, and waterfront zones remain outside the limit of work.

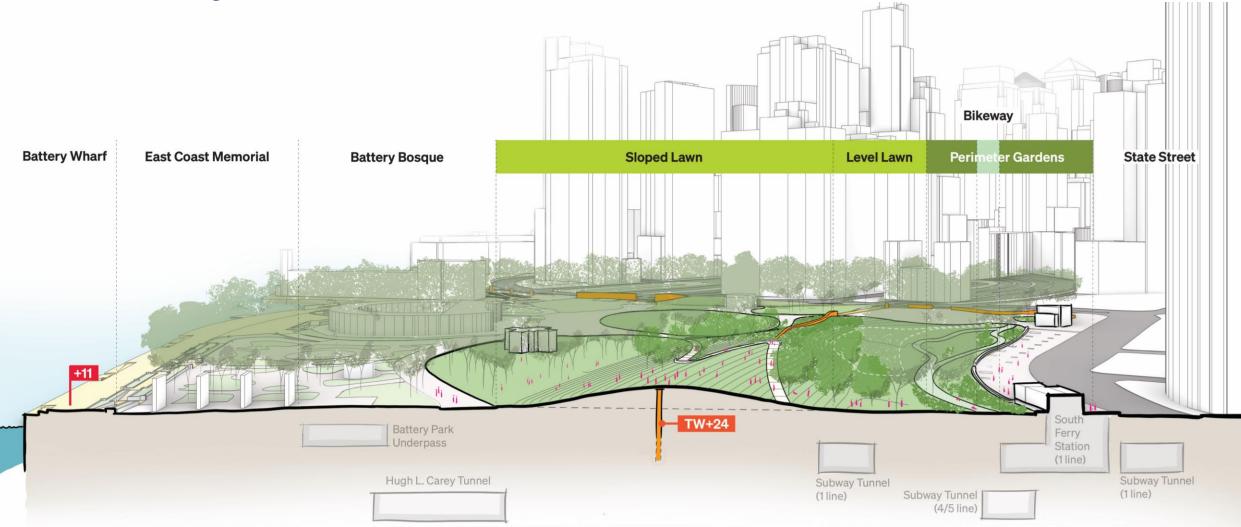
Castle

Clinton

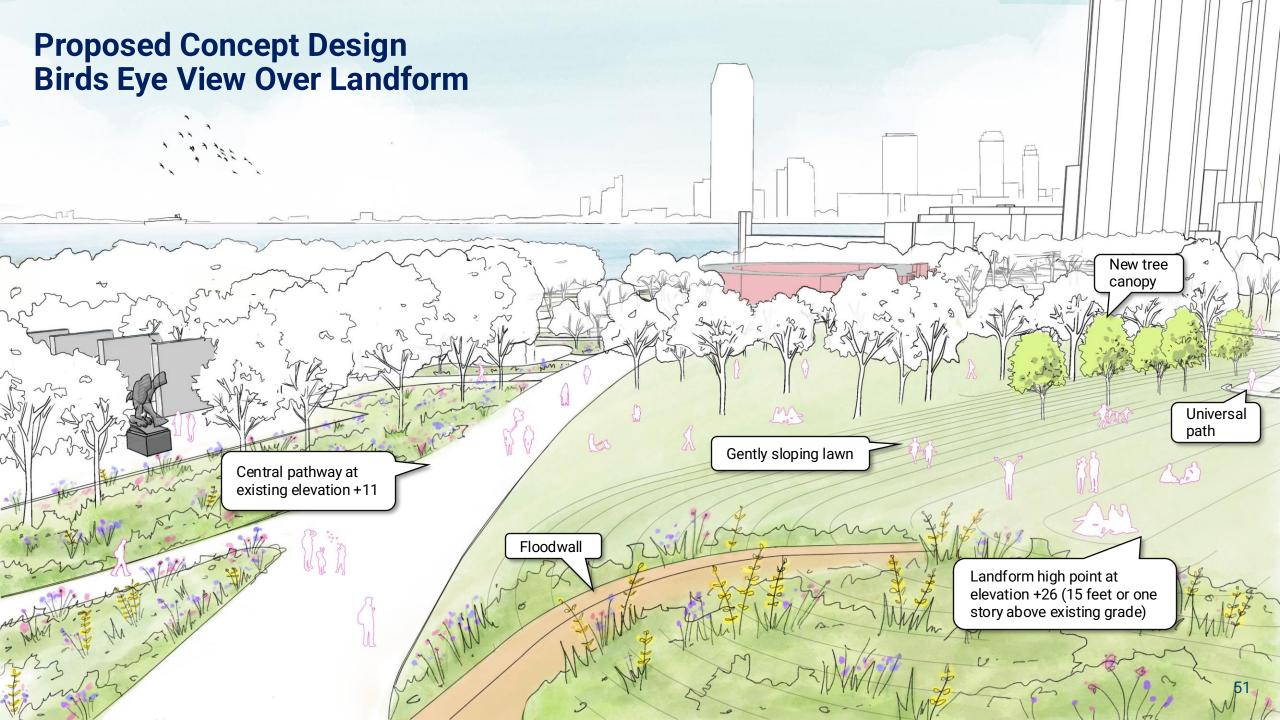
Sloped lawn Flat lawn Planting Plaza Conter assets Primary axis



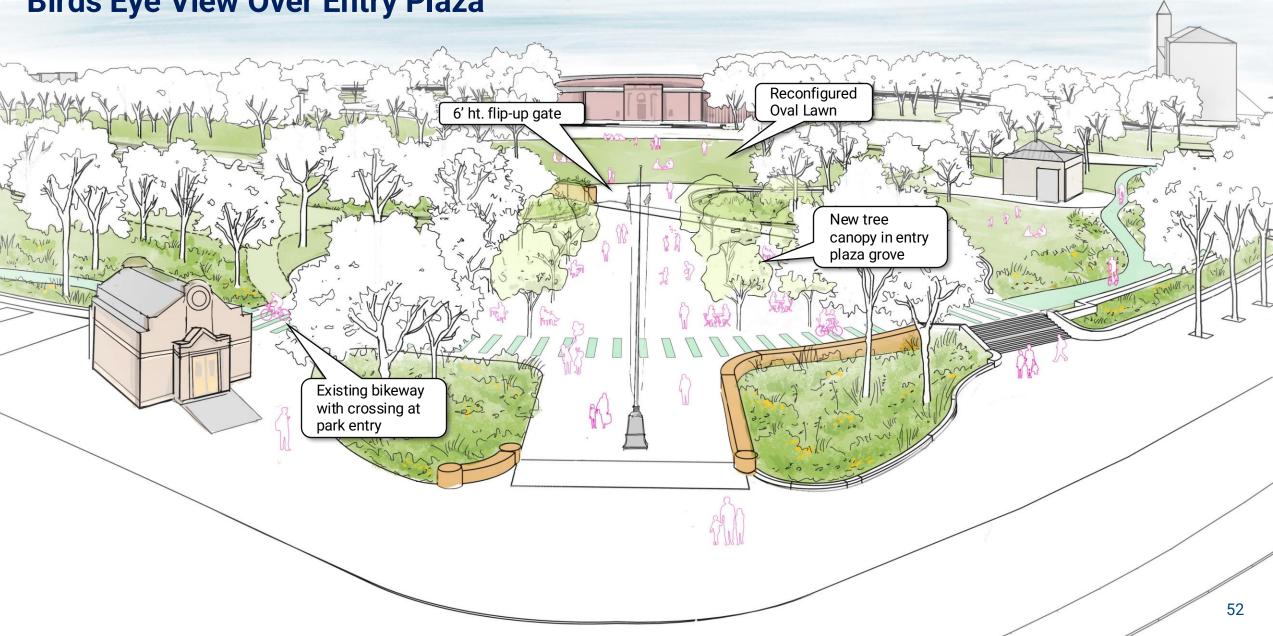
Proposed Concept Design Section Through Landform





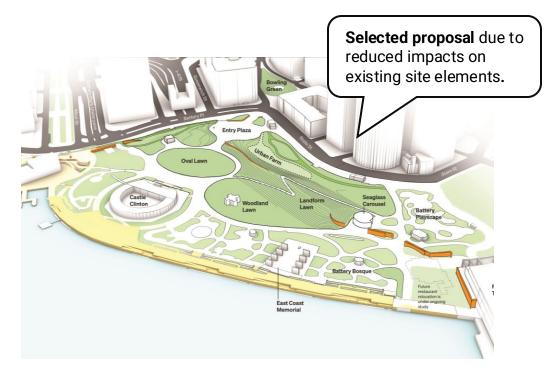


Proposed Concept Design Birds Eye View Over Entry Plaza

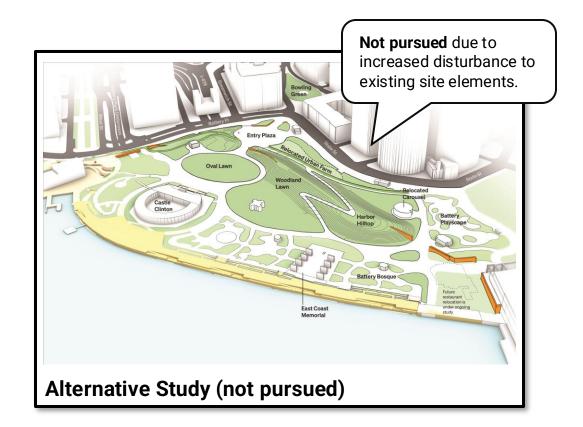


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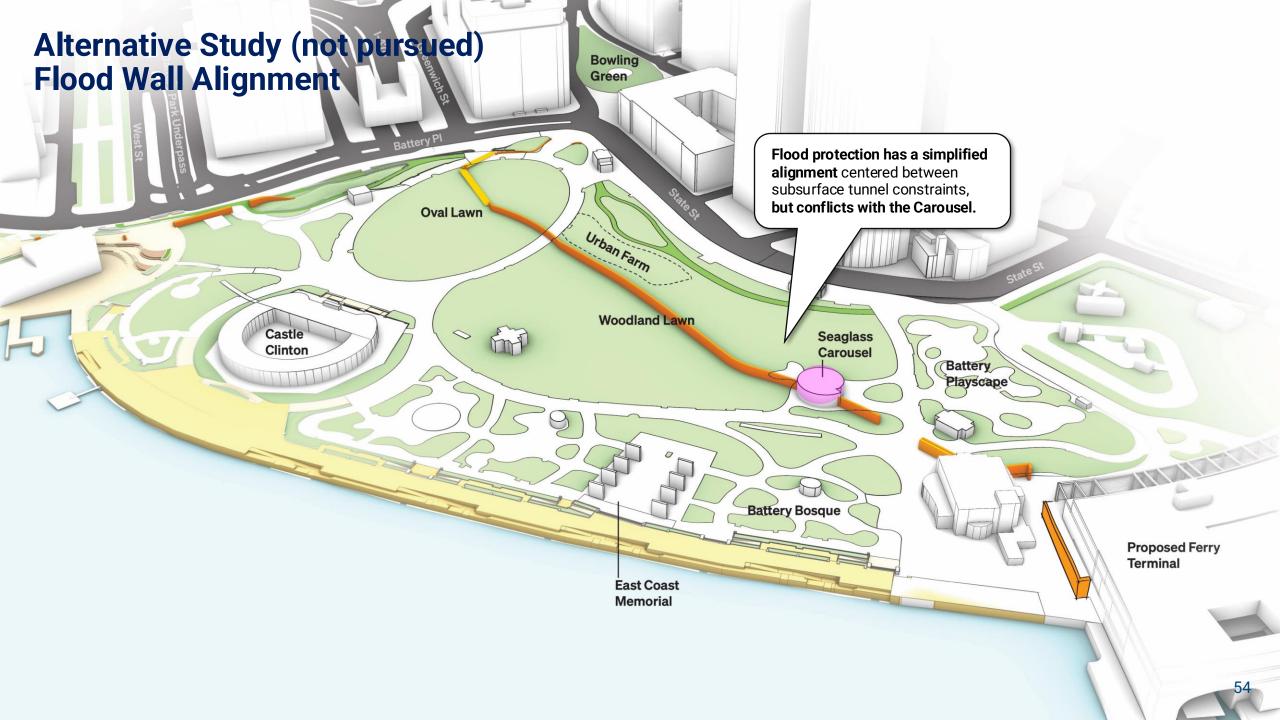
What trade-offs were assessed with the alternative study?



Proposed Concept Design







Alternative Study (not pursued) Landform Integration

Castle

Clinton

Urban farm is impacted. Bikeway adjustments improve safety at the park entrance and create a new shared pedestrian route through the woodland gardens, but require further disturbance to existing conditions.

footprint.

Relocated Carousel

Harbor

Hilltop

Battery

Relocation of the Carousel

allows for a larger landform

Battery

Playscape

Entry Plaza

Relocated Urban Farm Woodland Lawn

Bowling

Green

37 67

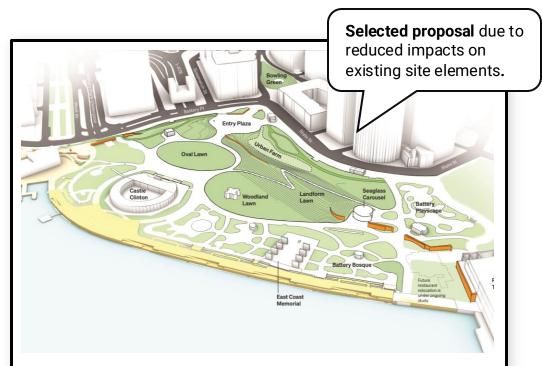
Battery Pl

Oval Lawn

East Coast Memorial A larger landform with expanded hilltop covers more of the exposed flood wall and eliminates 1 additional flood gate, but requires adjustments to the central pathway alignment and impacts the Bosque edge.

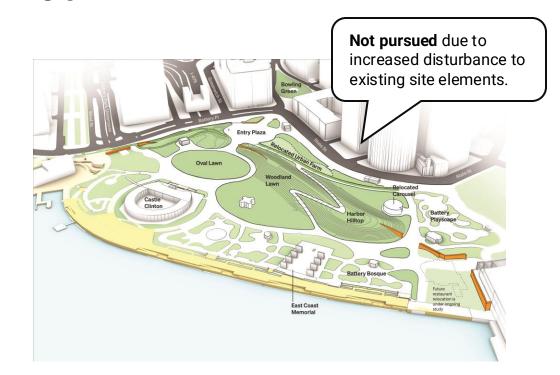
Proposed Ferry Terminal

Assessment of the Proposed Concept Design and the Alternative Study concluded that the benefits of integrating more flood protection within a larger landform did not outweigh the additional impacts to existing park amenities.



Proposed Concept Design

- Flood protection integrated into gently sloping landform
- Universally accessible up-and-over landform pathway
- New entry plaza and modified Oval Lawn
- Carousel, Urban Farm, and bikeway preserved in place



Alternative Study (not pursued)

- Larger landform footprint with expanded hilltop
- Reduced length of visible exposed flood wall and eliminates 1 flood gate
- Requires relocating the Carousel, and impacts the Urban Farm, bikeway, and central pathway alignments

Southern Tie-In Public Workshop | July 2025

We want to hear from you! Please visit our project boards or engage our project team to ask questions and share input – we need and appreciate your participation!





Next Steps



What's next?

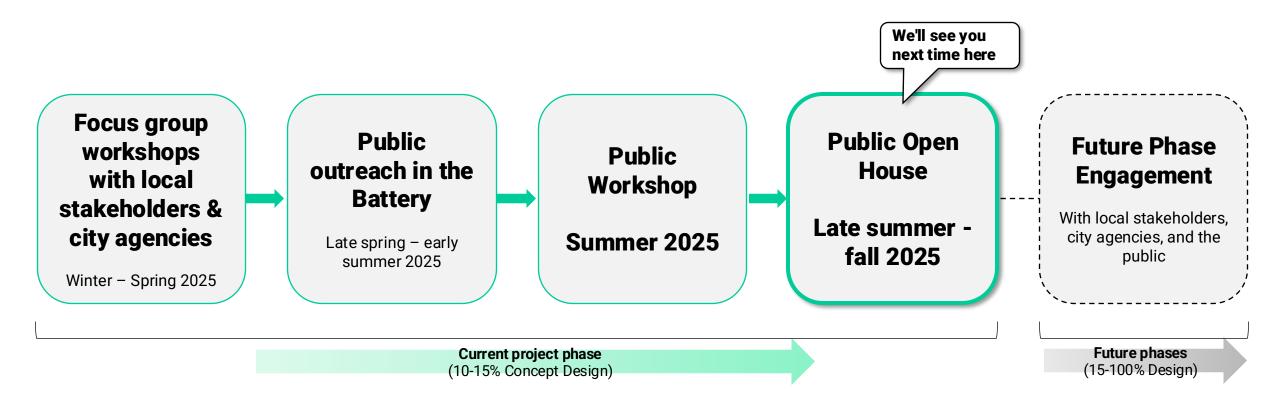
- The project team will **document and organize feedback** heard here today.
- The project team will input feedback into the design process to refine concept-level site designs in coordination with city agencies and stakeholders.
- The project team will continue to assess impact mitigation, technical feasibility, and cost-effectiveness for the design studies.

By the end of this phase...

- The project team will share a concept-level site design update for the integration of the flood protection into The Battery's upland park area.
- This will include **additional public events** to continue to answer questions and gather stakeholder input.

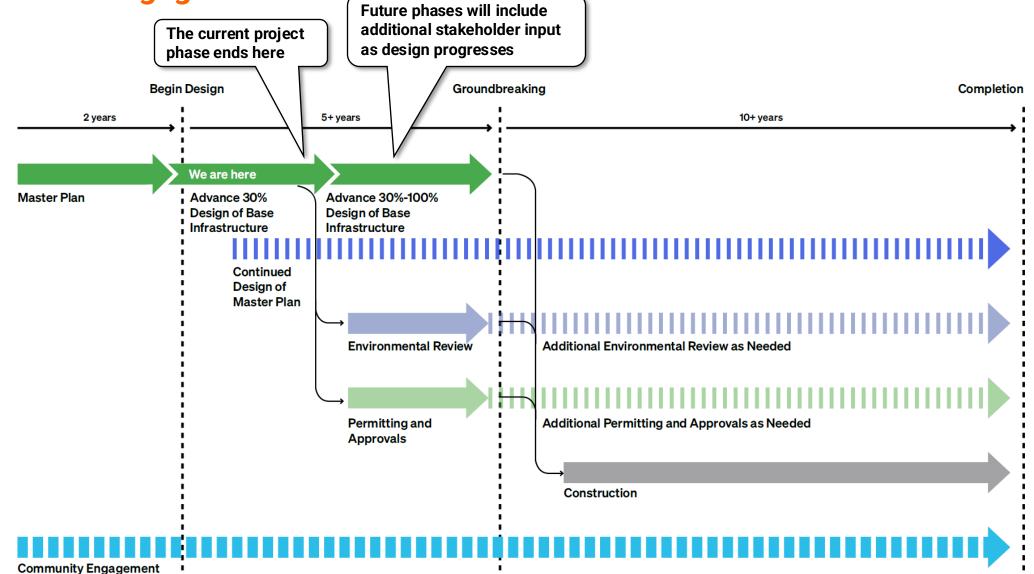


This meeting is part of a series of engagement sessions on this topic planned for 2025. Future phases of the FiDi-Seaport Project will include additional public and stakeholder engagement.





Future phases of the FiDi-Seaport Project will include continued public and stakeholder engagement.





Questions & Answers

Please reach out to the FiDi-Seaport Climate Resilience team with additional questions & comments at **FiDiSeaportClimate@edc.nyc**.



Thank you!