

Lower Manhattan Coastal Resiliency

May 16th, 2022 Community Board 1 Update

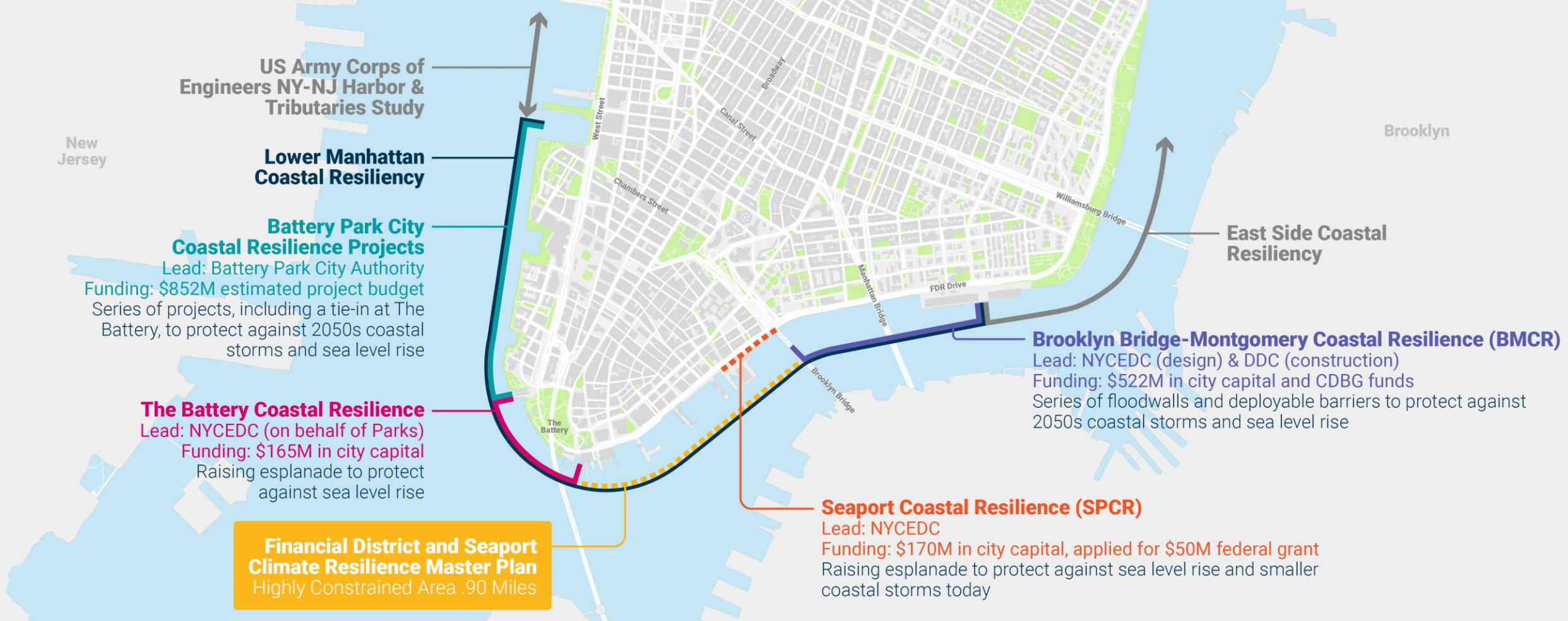
NYC / EDC

NYC Mayor's Office of Climate &
Environmental Justice

Agenda

1. Overall Lower Manhattan Coastal Resiliency Strategy (LMCR)
2. LMCR projects
 - Fidi-Seaport Master Plan/Seaport Coastal Resilience
 - LMCR: Battery
 - Battery Park City Projects
3. Appendix

Lower Manhattan Coastal Resiliency (LMCR) is a comprehensive climate adaptation strategy with over \$1B in city investments



Protecting Lower Manhattan Against Storm Surge and Tidal Flooding

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

Near term capital projects to protect against either storm surge or daily tidal flooding

The Battery Coastal Resilience

0.33 Miles
Tidal Flooding: High tide + 2100 SLR

Seaport Coastal Resilience (SPCR)

Tidal Flooding: High tide + 2100 SLR



The Battery Coastal Resilience

Seaport Coastal Resiliency (SPCR)

Protecting Lower Manhattan Against Storm Surge and Tidal Flooding

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

Capital projects to address both storm surge and tidal flooding:

Battery Park City Coastal Resilience Projects

1.15 Miles
Storm Surge: 100 year storm + 2050s SLR
Tidal Flooding: High tide + 2050s SLR

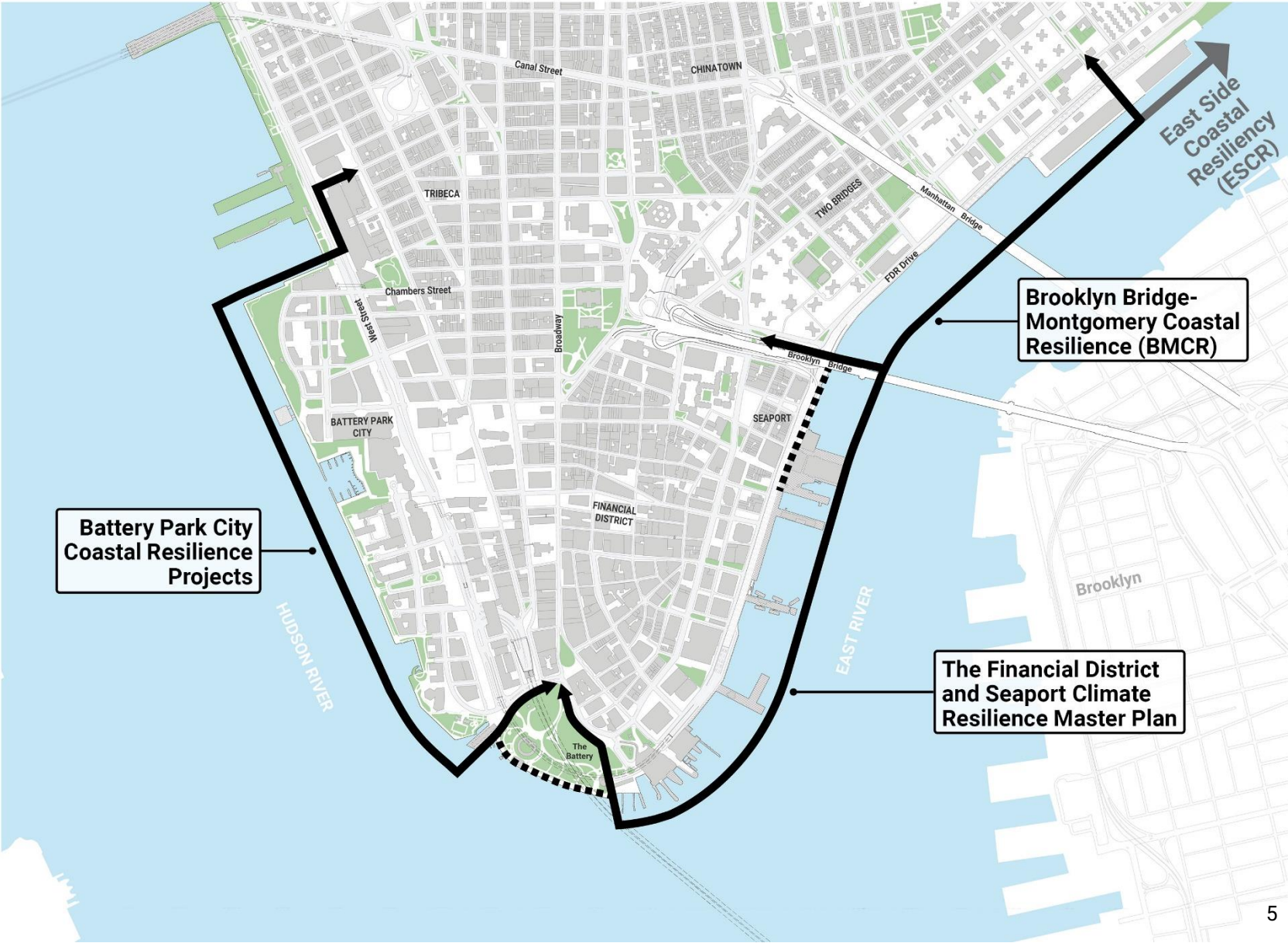
Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)

0.80 Miles
Storm Surge: 100 year storm + 2050s SLR
Tidal Flooding: High tide + 2050s SLR

Long term planning to address both storm surge and tidal flooding:

The Financial District and Seaport Climate Resilience Master Plan

0.90 Miles
Storm Surge: 100 year storm + 2100 SLR
Tidal Flooding: High tide + 2100 SLR



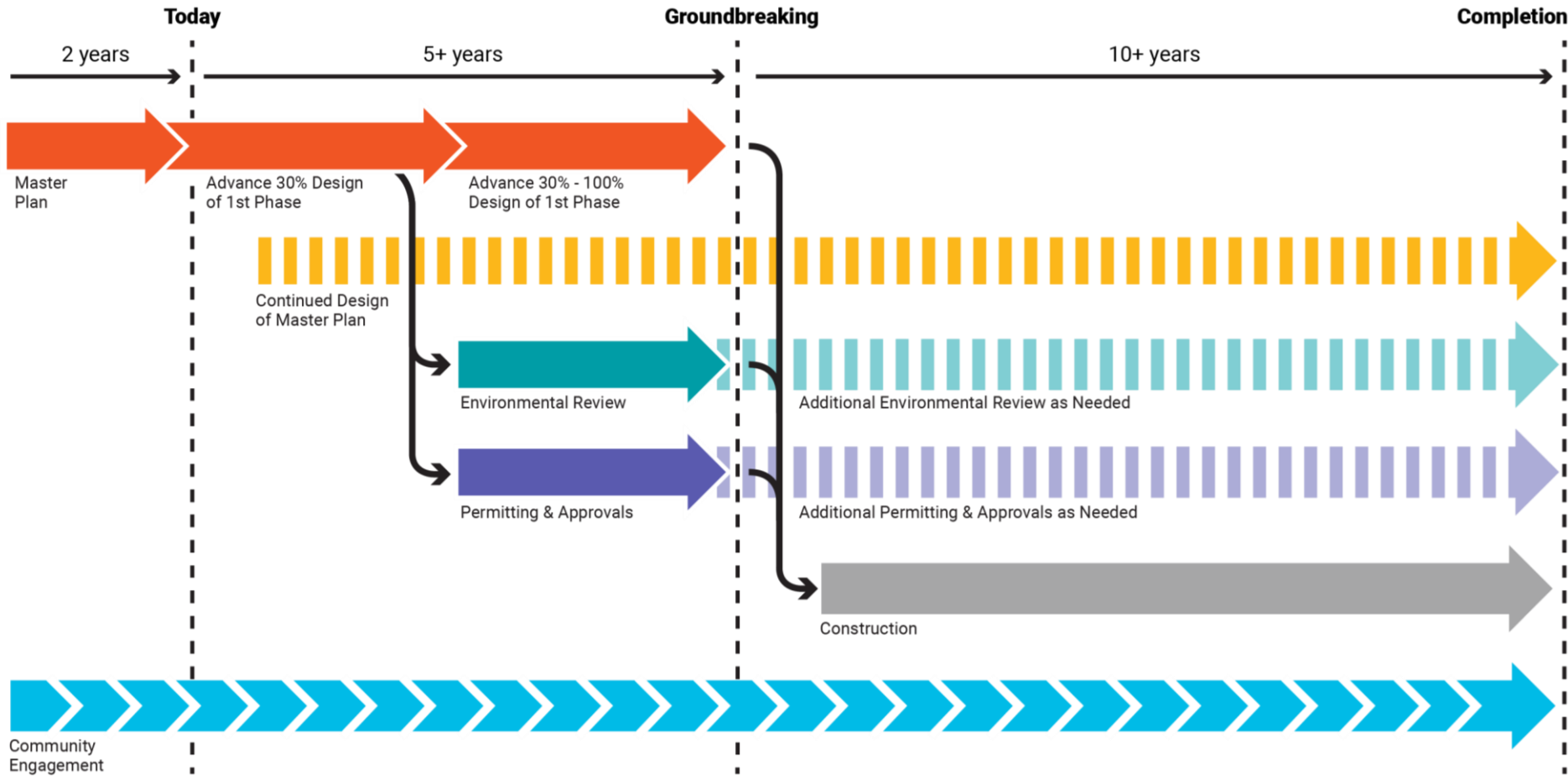
Project Timelines

Project	Design	Procurement	Construction	Complete	Visual					
					'22	'23	'24	'25	'26	'27
Brooklyn Bridge–Montgomery Coastal Resilience	Complete	February 2022	Fall 2022	Fall 2026						
Seaport Coastal Resilience	Summer 2022	Spring 2025	Fall 2025	Winter 2027						
The Battery Coastal Resilience	Underway	Fall 2022	Spring 2023	Winter 2024						
Battery Park City Authority Resilience South	Spring 2022	Winter/ Spring 2022	Summer 2022	Summer 2024						
Battery Park City Authority Resilience North & West	Summer 2022	Summer 2022 (PDB Team Procurement)	Summer 2023	Early Winter 2026						

Financial District and Seaport Climate Resilience Master Plan

NYC/EDC **NYC** Mayor's Office of Climate & Environmental Justice

This master plan will take 15 to 20 years to design, secure approvals, and build; the time to act is now.



Frequent tidal flooding is expected by the 2040s. With full funding and alignment with key regulatory agencies, the flood defense could be in place by 2035.

In December 2021, we released the FiDi-Seaport Climate Resilience Master Plan. We are now preparing for the next phases of design, which will begin in Summer 2022.

What did the Master Plan accomplish?

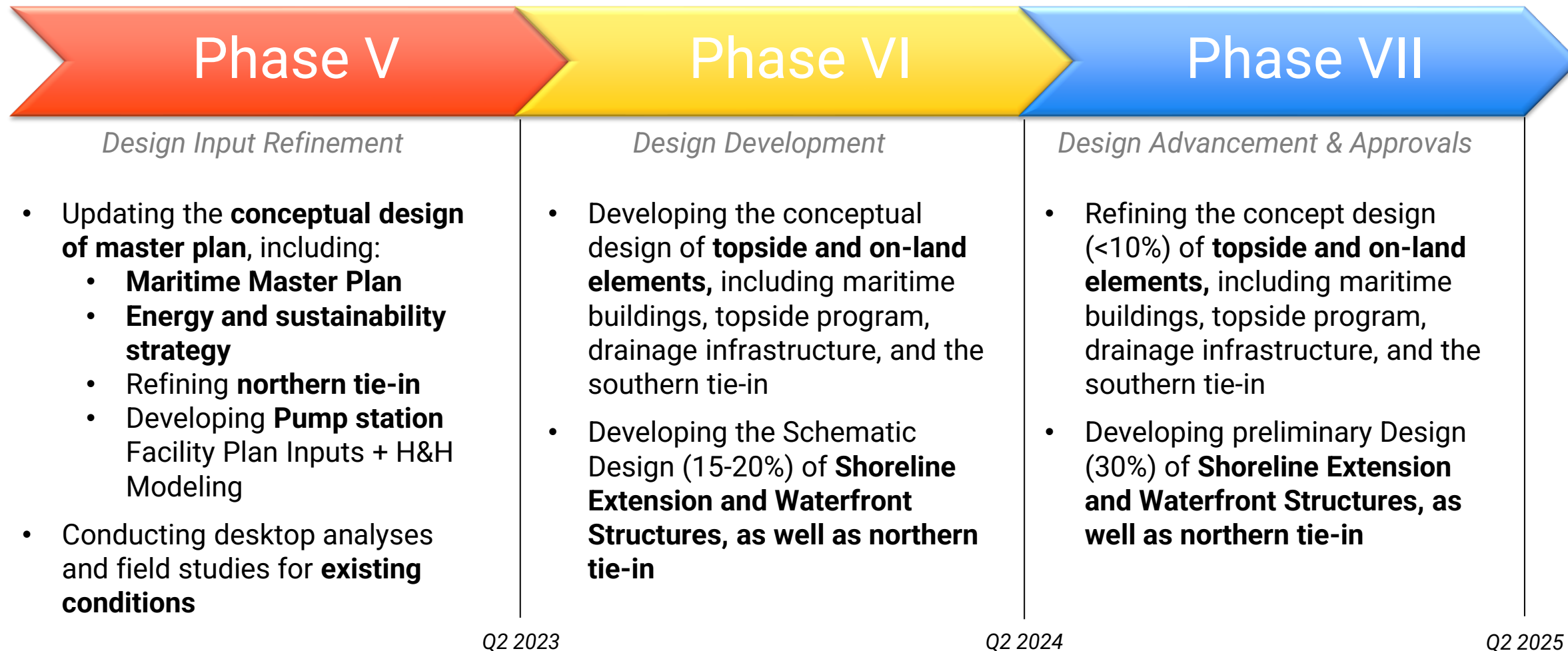
- Brought design to the **conceptual level**, providing a framework for long-term decision-making.
- Identified the **core pieces of infrastructure** necessary to protect this area, bringing design of the overall shoreline extension to **approximately 5-10%, with class 4 to 5 AACE cost estimates**
- Identified pieces that **needed to be explored further** in later phases of work, such as the future of Whitehall Ferry Terminal, northern and southern tie-ins, and a comprehensive drainage strategy
- Set aside **flexible space for future programming** (potentially playgrounds, cafes, community facilities, etc.). We will make specific programming recommendations in the future based on additional community feedback.

What's next?

The City will advance the design of the Master Plan over the next three years to prepare the project for environmental review and permitting applications. We anticipate achieving the following milestones:

- Advance design of raised shoreline and overwater structures (protecting against future daily high tides) to a 30% preliminary level.
- Advance all other elements of project to a conceptual 5-10% level of design (includes ferry terminals, pump station, tie-ins, and more).
- Develop sitewide strategies for implementation, maritime, stormwater management, energy & sustainability, and neighborhood integration.

Looking ahead, we've developed three new phases of work to focus on advancing the design of project elements that define the in-water footprint.



Other Updates & Next Steps

1. We released the Master Plan technical appendices on our website today!
2. **HMGP Applications:**
 - *The City is applying for federal grants to advance this design work even further*
 - *Applications are due June 1, and are expected to receive preliminary notice of award in spring 2023*
3. **Seaport Coastal Resilience:**
 - Awaiting notice on BRIC funding, expect to hear back in July 2022
 - Resubmitted scope to HMGP, expect to hear back in spring 2023
4. **Save the date! We are holding our next CCLM meeting in July.**

We encourage you to browse the full Master Plan at fidiseaportclimate.nyc!

LMCR: BATTERY

LMCR Battery – Repairs @ Slips 1 & 2

EDC managing on behalf of NYC Parks

Budget: \$6.2 million

Scope of Work

- Underwater repairs of Slips 1 and 2 to restore load capacity and ensure usable slips for Statue of Liberty ferries throughout LMCR Battery construction.

Project Status

- Completed Design April 2022 and obtaining permits
- On going coordination with NPS, Statue Cruises, the Battery Conservancy
- NYCEDC currently procuring a contractor for construction
- Construction approximate Q3 2022 – Q1 2023



LMCR Battery

EDC managing on behalf of NYC Parks

Budget: \$165 million

Project Progress:

- Previously presented to the Community Board 3/22
- PDC Amended Preliminary approval: 4/22
- 75% Design complete: 3/22
- Actively coordinating with the Battery Conservancy, BPCA, and CDOT on construction phasing of all Battery projects

Upcoming Milestones:

- 100% Design Documents – Fall 2022
- Community Board Presentation – June 2022
- Final PDC – Summer 2022
- Construction Start – Spring 2023



LMCR Battery – Construction Phasing Plans

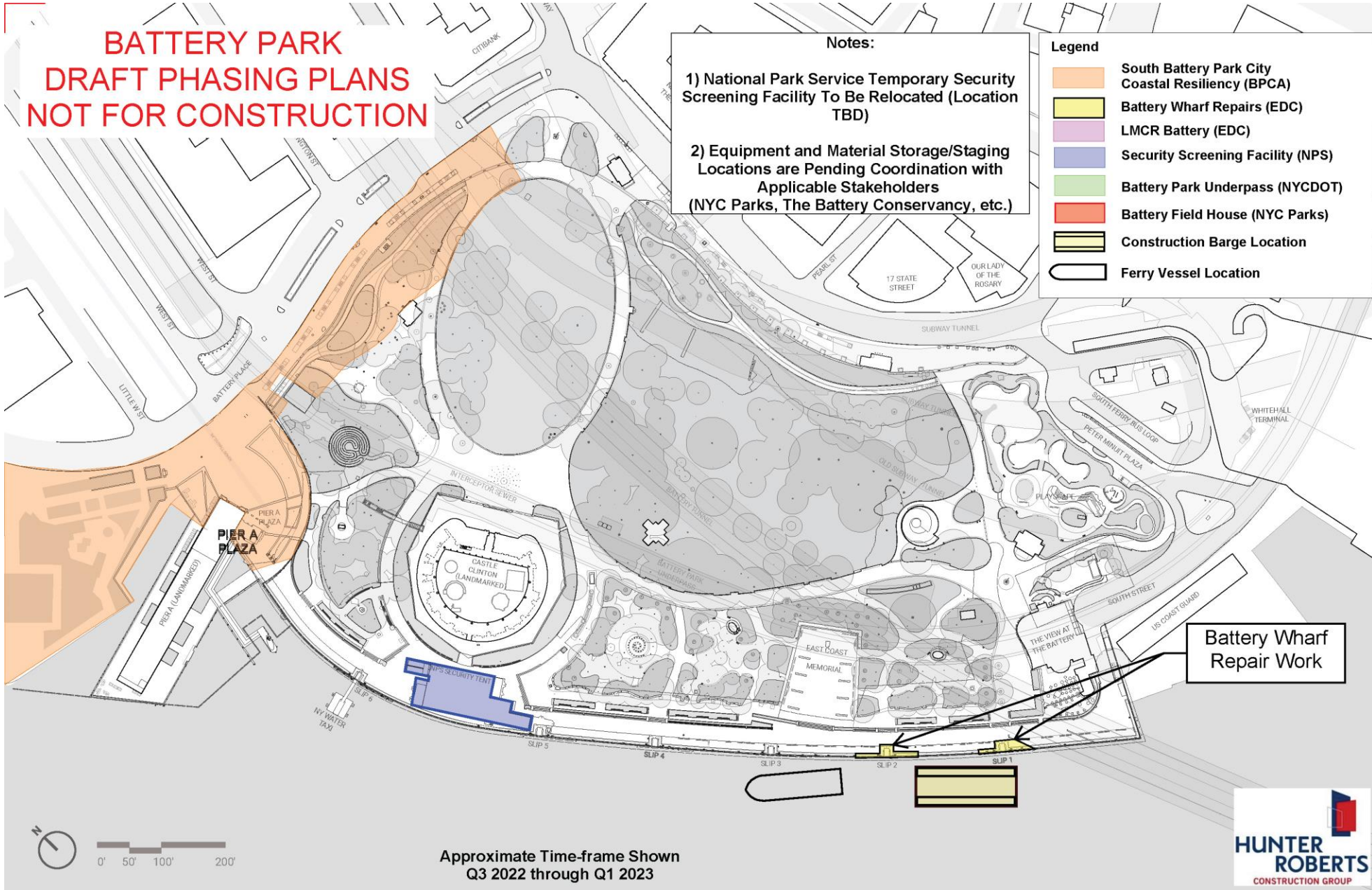
**BATTERY PARK
DRAFT PHASING PLANS
NOT FOR CONSTRUCTION**

Notes:

- 1) National Park Service Temporary Security Screening Facility To Be Relocated (Location TBD)
- 2) Equipment and Material Storage/Staging Locations are Pending Coordination with Applicable Stakeholders (NYC Parks, The Battery Conservancy, etc.)

Legend

- South Battery Park City Coastal Resiliency (BPCA)
- Battery Wharf Repairs (EDC)
- LMCR Battery (EDC)
- Security Screening Facility (NPS)
- Battery Park Underpass (NYCDOT)
- Battery Field House (NYC Parks)
- Construction Barge Location
- Ferry Vessel Location



Battery Wharf Repair Work

Approximate Time-frame Shown
Q3 2022 through Q1 2023



LMCR Battery – Construction Phasing Plans

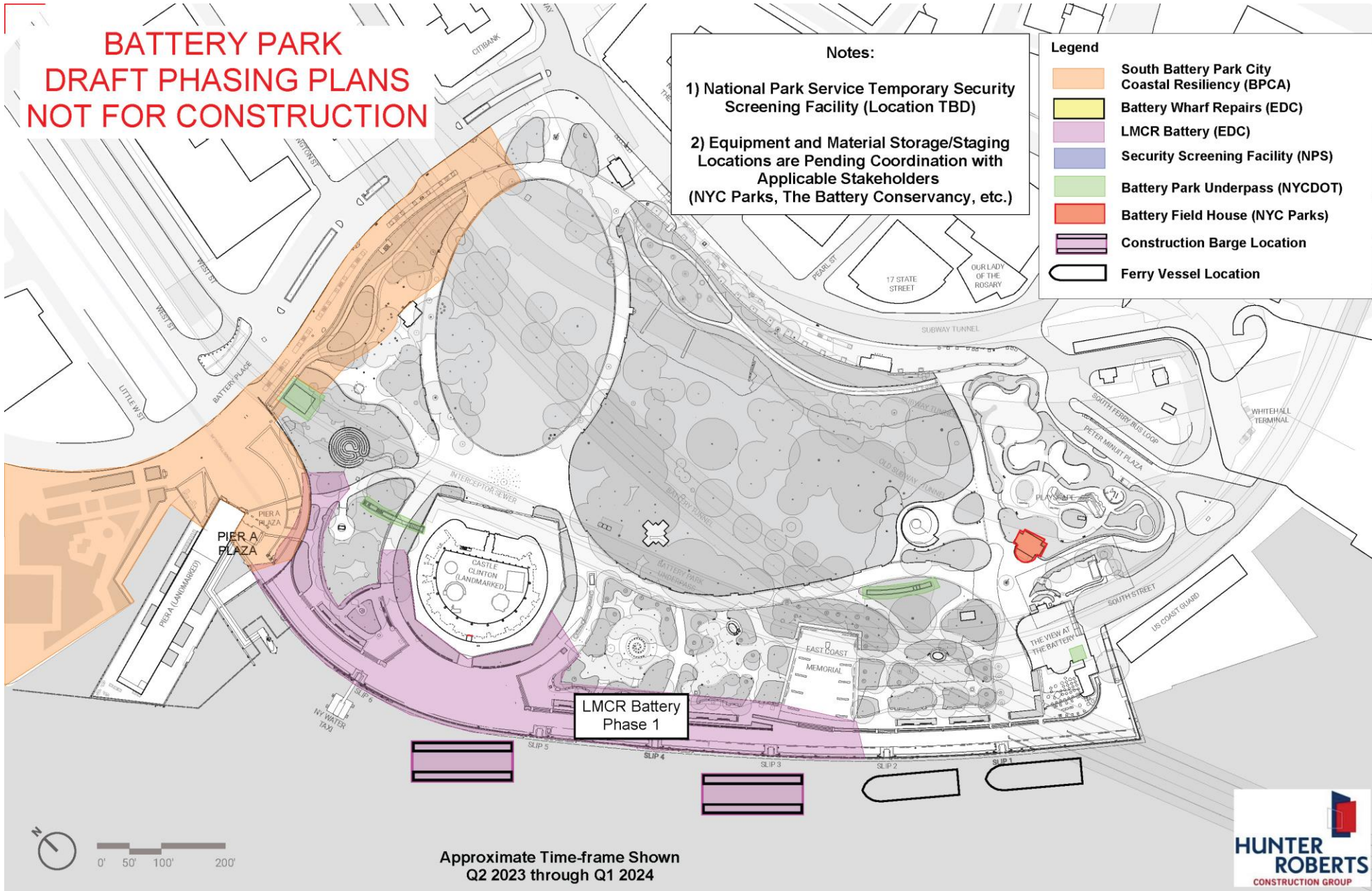
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LMCR Battery Phase 1

Approximate Time-frame Shown
Q2 2023 through Q1 2024

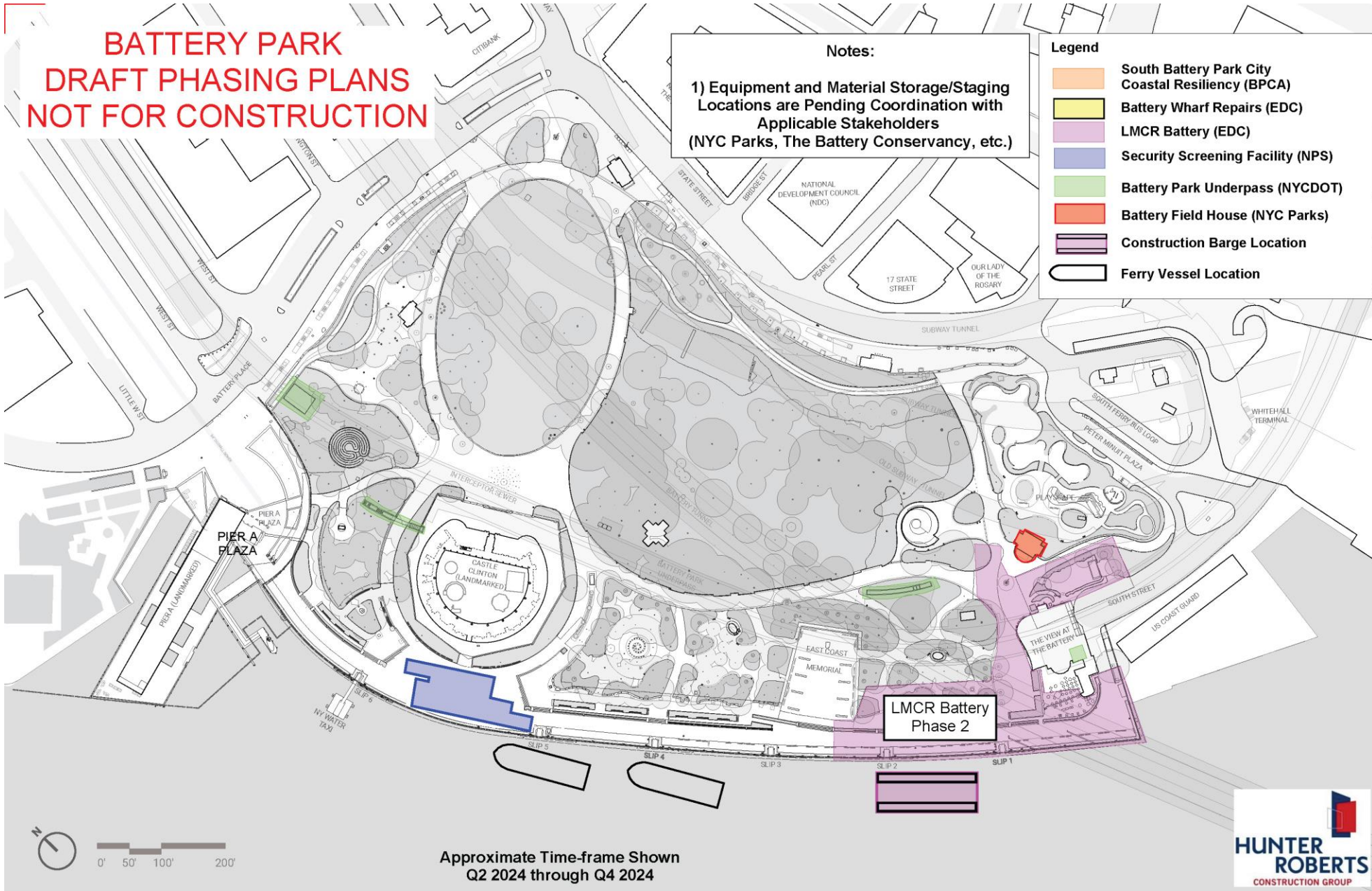


LMCR Battery – Construction Phasing Plans

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Approximate Time-frame Shown
Q2 2024 through Q4 2024



Battery Park City Update



Murray Street



West Street

Battery Park City Update



Murray Street

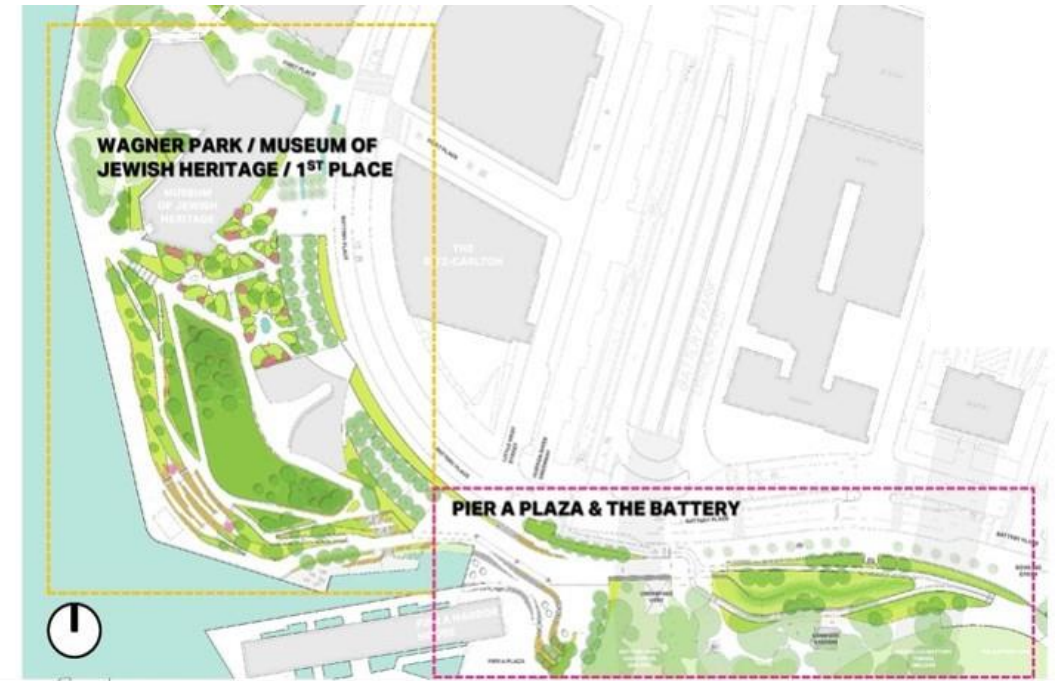


West Street

Battery Park City Update

South Battery Park City Resiliency

- **Final PDC Approval:** April 11, 2022
- **Pre-Construction Site Tours:** April 23 and April 28, 2022
- **DEIS Published:** May 4, 2022
- **DEIS Public Hearing:** May 19, 2022
- **DEIS Comment Period:** May 4, 2022 –June 3, 2022



Battery Park City Update

South Battery Park City Resiliency

- **Construction**

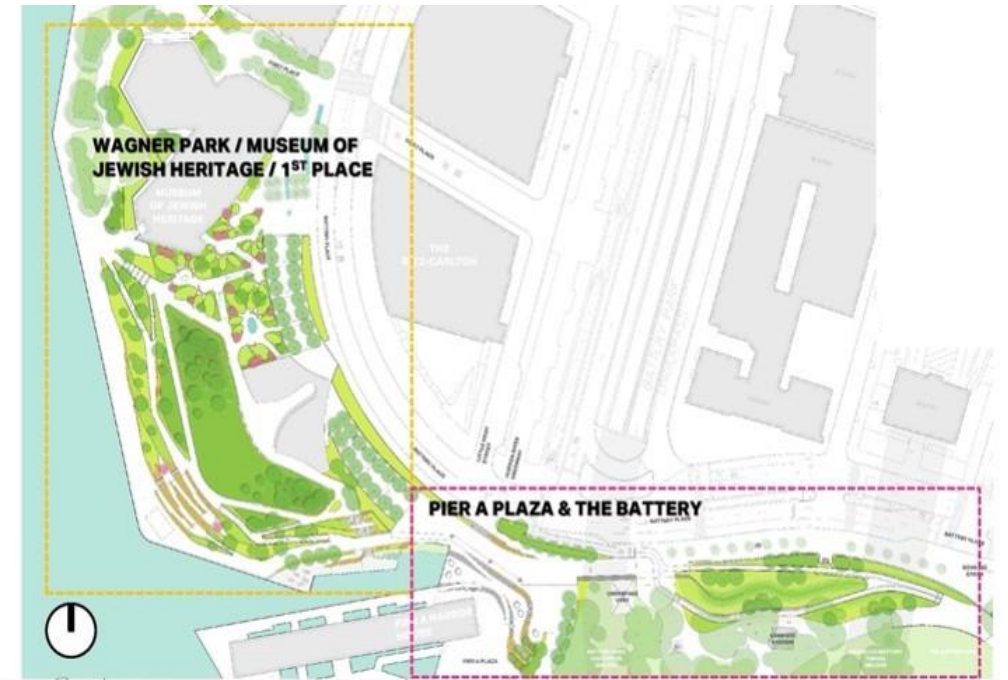
- **Phase 1 (Projected Construction Start -- Late Summer 2022):**

- **MJH & Wagner Park Site:** Contractor Procurement Active
- **Wagner Park Pavilion:** Contractor Procurement Active

- **Phase 2 (Projected Construction Start – Fall 2022)**

- **Pier A/Battery/Interior Drainage :** RFP Issuance Late Spring 2022

- **Project Construction Completion:** Late Summer 2024 (2-Year Duration)



Categories Analyzed

- Land Use, Zoning and Public Policy
- Open Space
- Shadows
- Neighborhood Character
- Natural Resources
- Hazardous Materials
- Water and Sewer Infrastructure
- Energy
- Transportation
- Air Quality
- Greenhouse Gas Emissions
- Noise and Vibration
- Historic and Cultural Resources
- Urban Design and Visual Resources

No Significant Adverse Impacts

- Land Use, Zoning and Public Policy
- Open Space
- Shadows
- Neighborhood Character
- Natural Resources
- Hazardous Materials
- Water and Sewer Infrastructure
- Energy
- Transportation
- Air Quality
- Greenhouse Gas Emissions
- Noise and Vibration

Significant Adverse Impacts

Historic and Cultural Resources

- Wagner Park
 - NY State Historic Preservation Act, Section 14.09
 - Project results in Adverse Impact to Wagner Park
 - State Historic Preservation Office (SHPO) coordination
 - SHPO concurrence that there are no feasible and prudent alternatives
 - Letter of Resolution to be completed/Potential Mitigation includes:
 - Historical American Landscape Survey (HALS) Documentation
 - Interpretive Panels and Historic Photos
 - Website or Signage with QR Codes containing history of Wagner Park

Urban Design and Visual Resources

- Significant adverse impacts to 2 existing views of the Hudson River and Statue of Liberty from east side of Wagner Park. No significant adverse impacts to any other views or urban design.
 - *Mitigation:* Impacts minimized by reconstruction of Wagner Park and Pavilion to allow for framed and unobstructed views to Hudson River and Statue of Liberty, enhanced northern and southern entries to park and enhanced pedestrian experience along Battery Place.

No Potential Adverse Construction Impacts

- Transportation
- Air Quality
- Hazardous Materials
- Natural Resources
- Socioeconomics
- Land Use, Zoning & Public Policy
- Neighborhood Character
- Water and Sewer Infrastructure
- Energy
- Noise and Vibration

Evaluation of Construction Impacts

Historical and Cultural Resources

Procedures for Avoidance of Damage to Historic Structures:

- Construction Protection Plans (CPP) for Pier A and Castle Clinton National Monument

Phase 1B Architectural Monitoring

- Archaeological Monitoring during Construction at Pier A Plaza (Historic Bulkhead)
- Near Surface Isolation System Location in Vicinity of West Thames St (Historic Bulkhead)

Open Space

Temporary Significant Adverse Impact

The following open spaces will be closed for all or portions of the 24-month construction duration:

- Battery Park City Esplanade (southern portion near the Museum of Jewish Heritage)
- Wagner Park
- Pier A Plaza
- Northernmost Section of The Battery and The Battery Bikeway

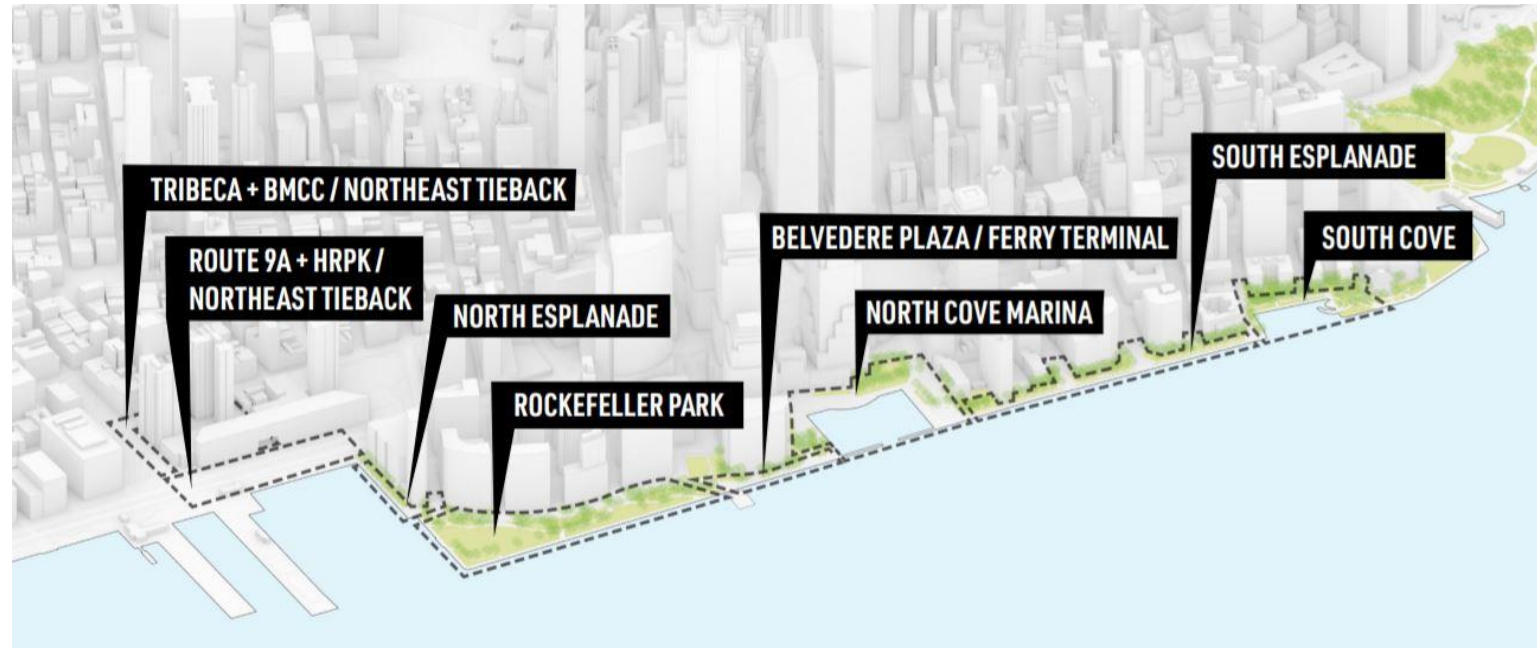
Partial Mitigation:

- Existing Battery Bikeway will be rerouted along the northern boundary of The Battery from State Street to West Street
- BPCA will temporarily relocate all programs & events from Wagner Park to other parks and open spaces in Battery Park City

Battery Park City Update

North/West Battery Park City Resiliency

- **Project Kickoff:** June 2021
- **Public Meeting #1** – August 4, 2021
- **Public Meeting #2** - December 16, 2021
- **Public Walkshops:** - October & November 2021
- **PDB RFQ Issuance :** September 2021
- **PDB RFP Issuance:** Late-January 2022
- **Public Open House** - June 2022
- **PDB Contractor Selection:** Summer 2022



Appendix

Project Costs

Project	Cost	Funding & Funding Source	Budget Gaps
Brooklyn Bridge–Montgomery Coastal Resilience	\$522M	Fully funded with City Capital and HUD CDBG funds (\$350M and \$172M respectively)	N/A
Seaport Coastal Resilience	\$220M	City Capital, with pending application for federal funding via FEMA BRIC program	\$50M, which will hopefully be filled with federal funding
The Battery Coastal Resilience	\$165M	City Capital	N/A
Battery Park City Authority Resilience South	\$221M	BPCA bond financing	N/A
Battery Park City Authority Resilience North & West	\$631M	BPCA bond financing	N/A

Long-Term Citywide Coastal Resilience Projects

- ▣ City Project
- ▣ State Project
- ▣ Federal Project
- 2050s 100-Year Floodplain

