

WELCOME

NORTH / WEST BATTERY PARK CITY RESILIENCY PROJECT COMMUNITY ENGAGEMENT MEETING #1

August 4, 2021

For questions / comments following
tonight's meeting, please send to:

resiliency@bpca.ny.gov

AGENDA

- 1. Community Engagement Overview**
- 2. Progressive Design Build (PDB) Process**
- 3. Team Introduction**
- 4. Project Introduction**
- 5. Preliminary Project Study Areas + Key Considerations**
- 6. Next Steps**
- 7. Q&A**

30 MIN

1 HOUR

INTRO

PRESENTATION

Q&A

COMMUNITY ENGAGEMENT OVERVIEW

COMMUNITY ENGAGEMENT OVERVIEW

- This evening's North / West BPC Resiliency Project Public Meeting is first of several planned
- Builds upon BPCA's practice of engaging and soliciting feedback from community
- Marks 25th meeting (since 2017) BPCA has hosted / presented on its resiliency infrastructure projects

South Battery Park City Resiliency Project (11)

SBPCR Project – LMCR Update to Manhattan CB1 (June 2021)
SBPCR Project – Update to Manhattan CB1 (April 2021)
SBPCR Project – Update to Manhattan CB1 (February 2021)
SBPCR Project – Update to Manhattan CB1 (June 2020)
SBPCR Project – "Deployables Workshop" with Manhattan CB1 (May 2020)
Jan 15, 2020 public meeting presentation
Oct 3, 2019 presentation to Manhattan CB1 Environmental Protection Committee
Jun 24, 2019 public meeting presentation
Apr 15, 2019 public meeting / design discussion
Mar 12, 2019 public meeting presentation
Nov 1, 2018 public meeting presentation

BPC Ball Fields Resiliency (5)

BPC Ball Fields – Decorative Elements Review with Manhattan CB1 (May 2020)
Sep 26, 2019 public meeting presentation
Jul 25, 2019 public meeting presentation
Mar 21, 2019 public meeting presentation
Nov 19, 2018 public meeting presentation

North BPC Resiliency Project (4)

Jul 23, 2020 public meeting presentation
Feb 27, 2020 public meeting presentation
Nov 22, 2019 All-Agency Kickoff Meeting
Oct 1, 2019 public meeting presentation

Overall / General (4)

Assembly Member Niou 2021 Legislative & Budgetary Town Hall:
Resiliency Panel Presentation
Assembly Member Niou 2020 Legislative & Budgetary Town Hall:
Resiliency Panel Presentation
Assembly Member Niou Town Hall: Resiliency & Environmental
Protections Panel (Feb 2019)
BPC Resiliency Assessment Overview (Mar 2017)

PROGRESSIVE DESIGN BUILD (PDB) PROCESS

PDB: WHAT IS IT?

- BPCA's Design Build Authorization
- Melding of prior North and West North Battery Park City Resiliency Projects Project Delivery
- Advantage of Progressive Design Build:
 - ✓ Risk Reduction
 - ✓ Design Flexibility
 - ✓ Potential for Cost Reduction
 - ✓ Potential Overall Time Savings
 - ✓ Allows for more community input

TEAM INTRODUCTION

TEAM INTRODUCTION

AECOM



MATRIX**NEW**WORLD
Engineering Progress



GEDEON GRC CONSULTING
ENGINEERS • PLANNERS • CONSTRUCTION MANAGERS

one architecture



TODAY'S SPEAKERS



Garrett Avery

PROJECT DEFINITION AND PDB
DESIGN REVIEW



Heather Morgan

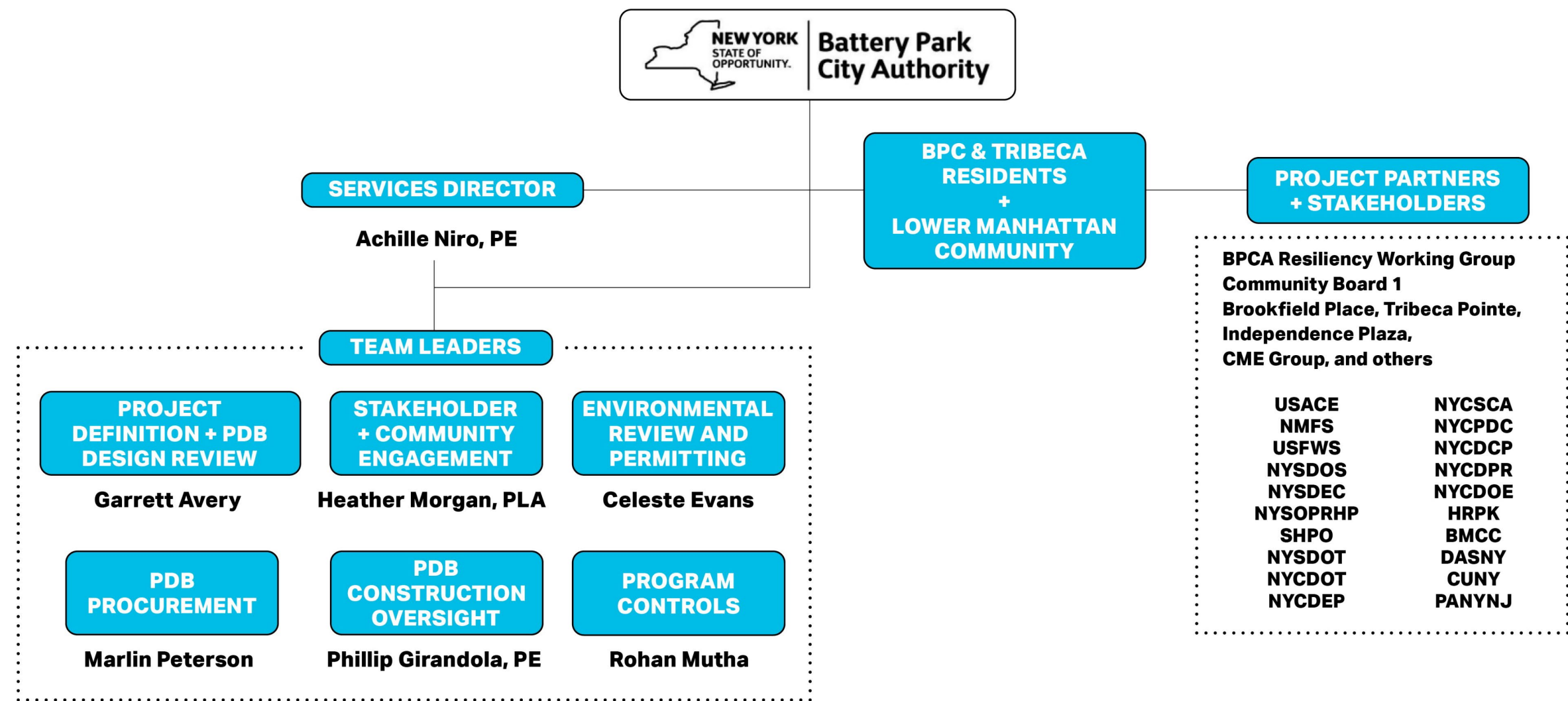
COMMUNITY + STAKEHOLDER
ENGAGEMENT



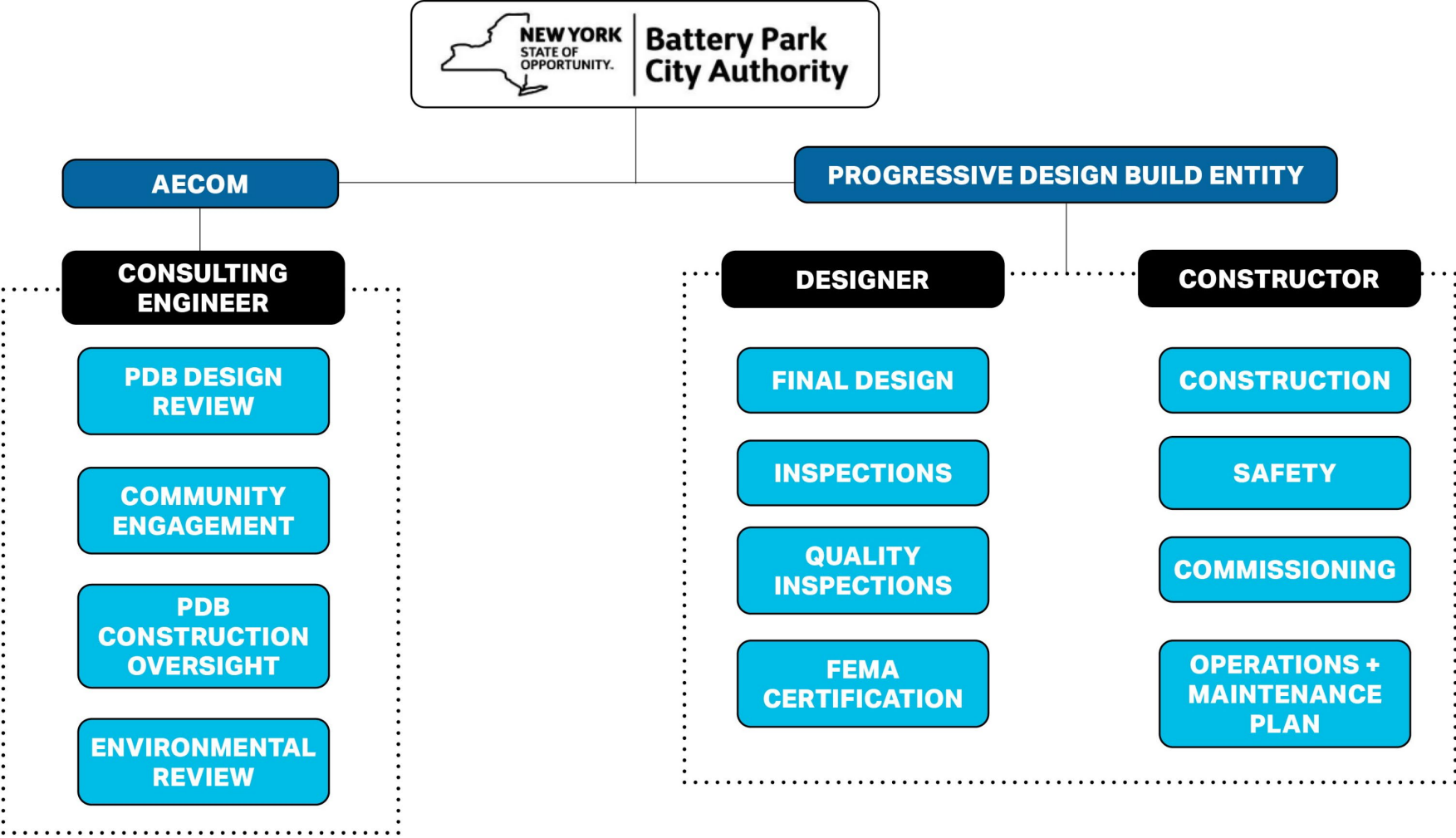
Nora Madonick

COMMUNITY + STAKEHOLDER
ENGAGEMENT

TEAM INTRODUCTION

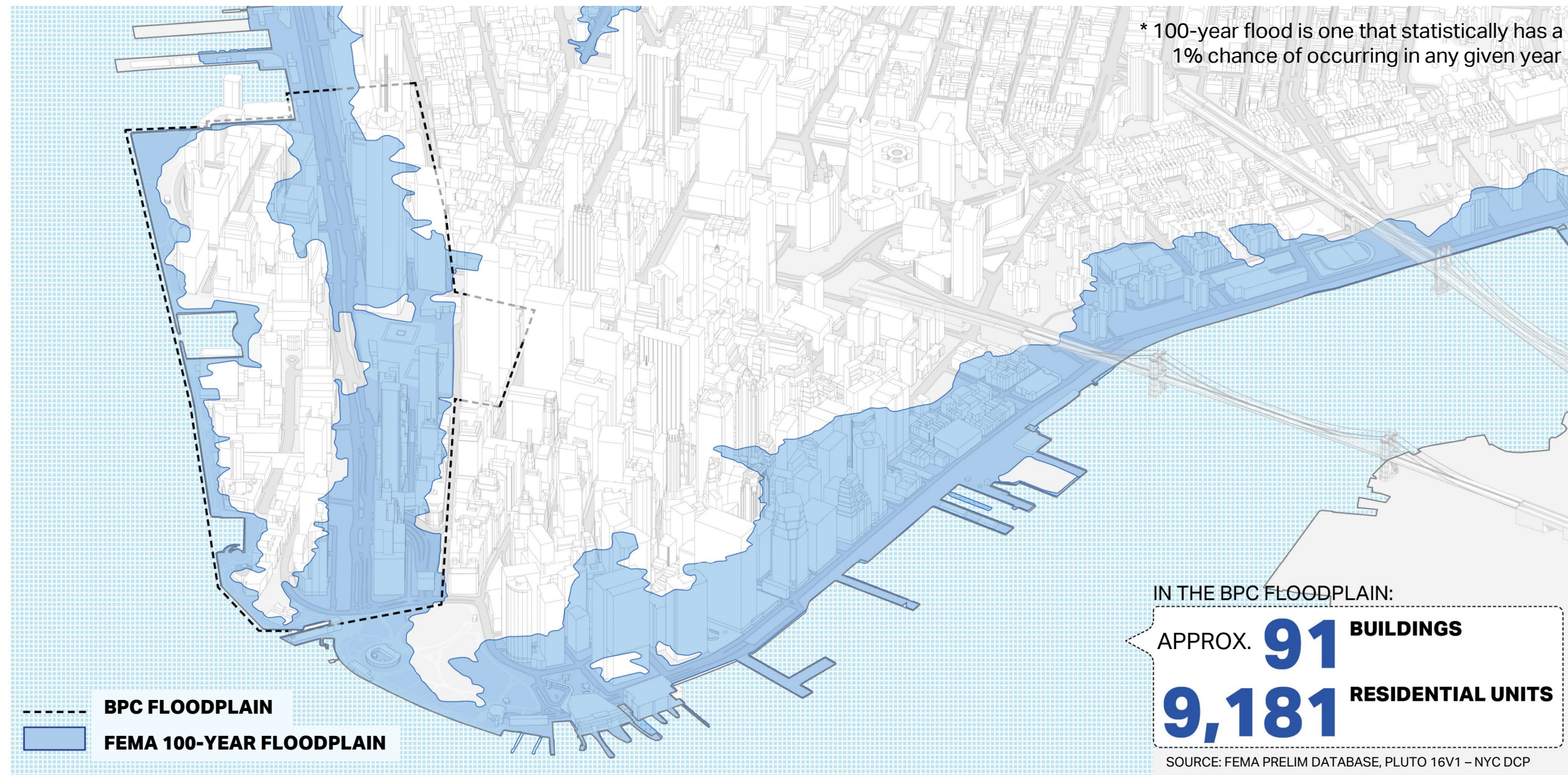


PDB TEAM INTRODUCTION

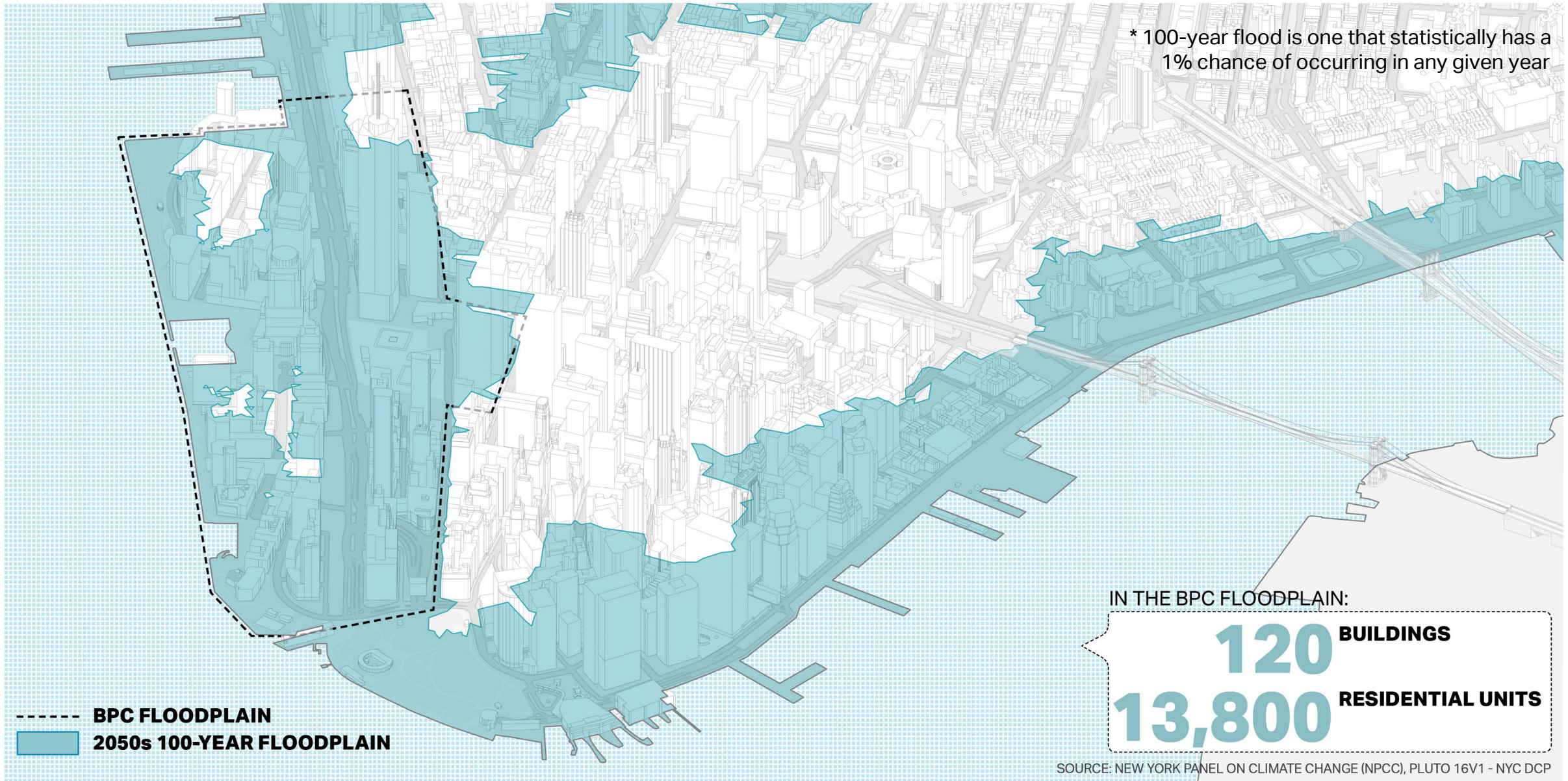


PROJECT INTRODUCTION

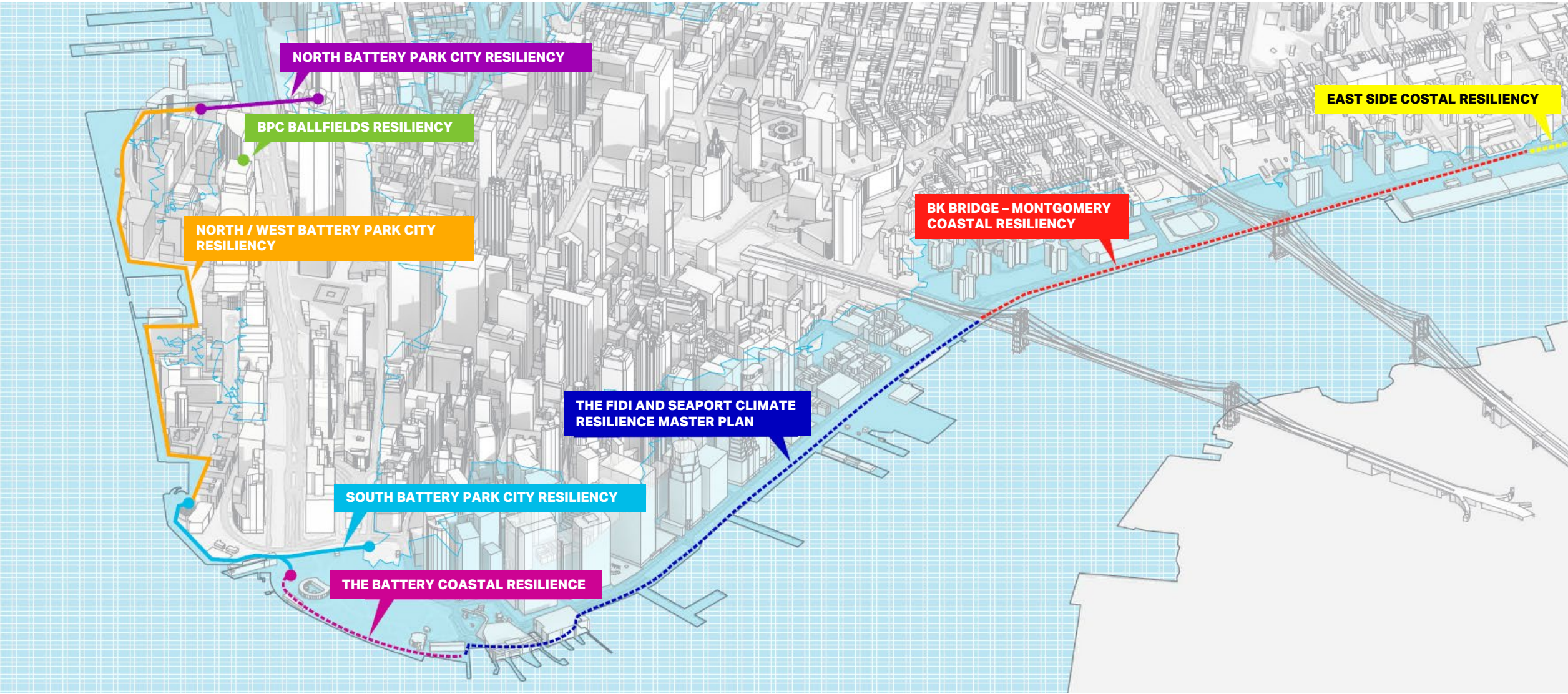
FEMA PRESENT DAY 100-YEAR FLOODPLAIN



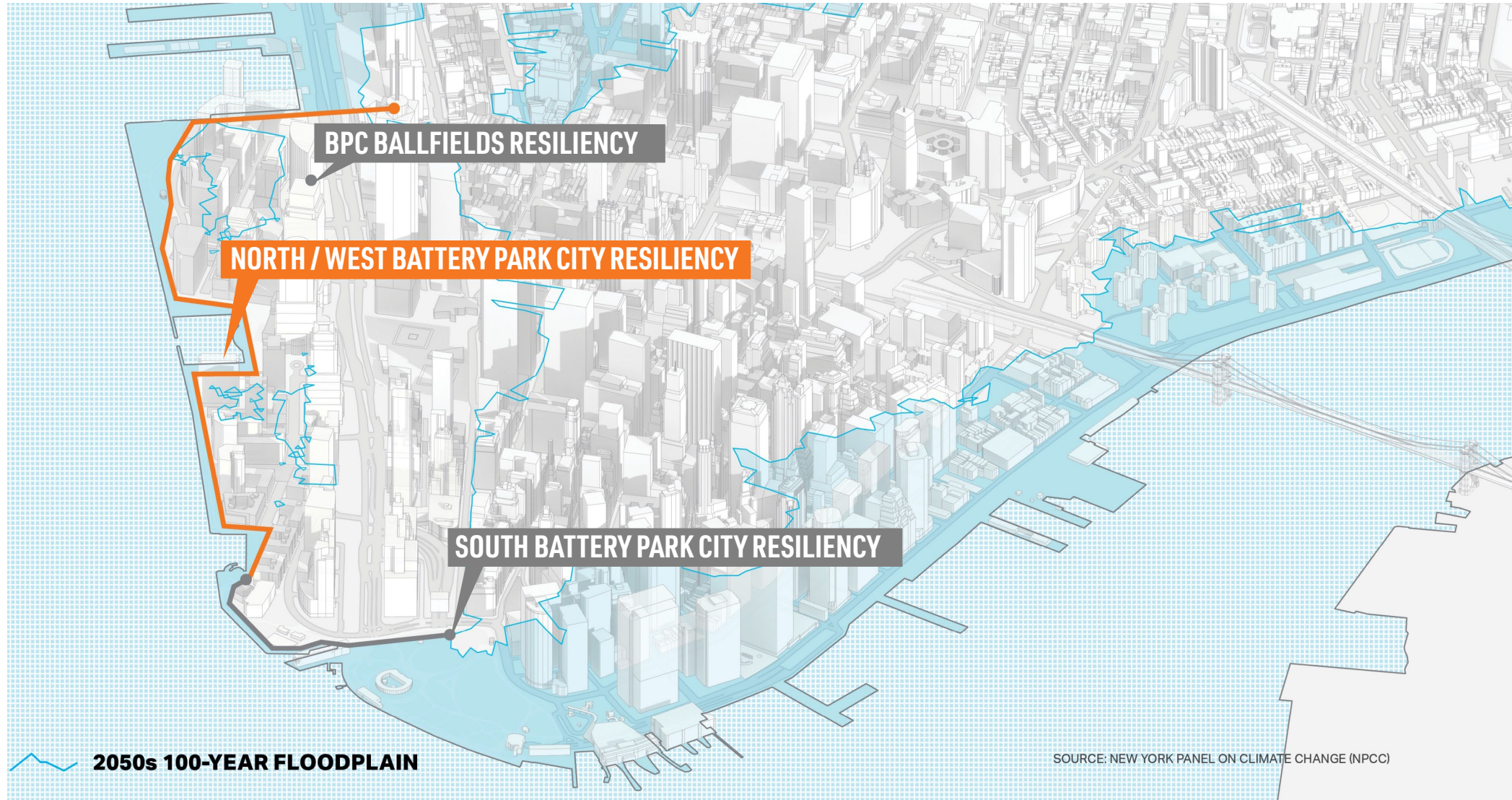
2050s 100-YEAR FLOODPLAIN



LOWER MANHATTAN | RESILIENCY PROJECTS

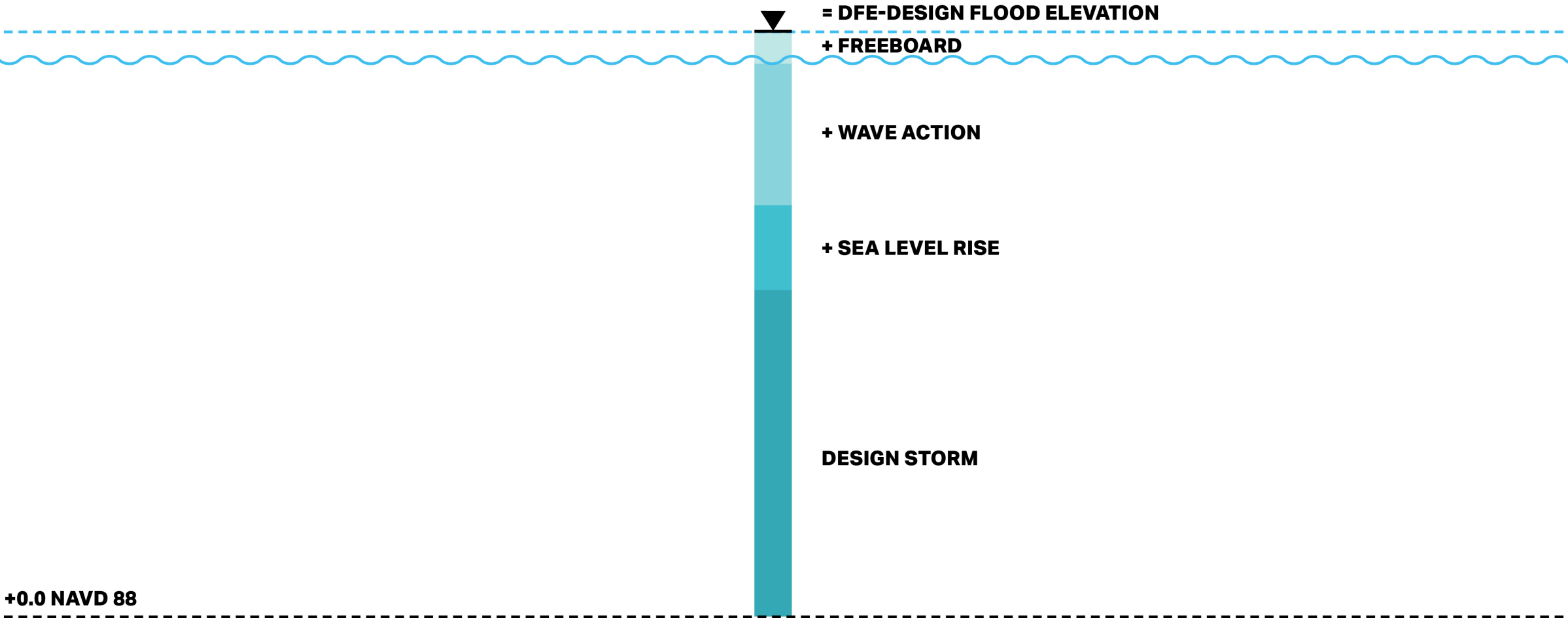


NORTH / WEST BATTERY PARK CITY PROJECT



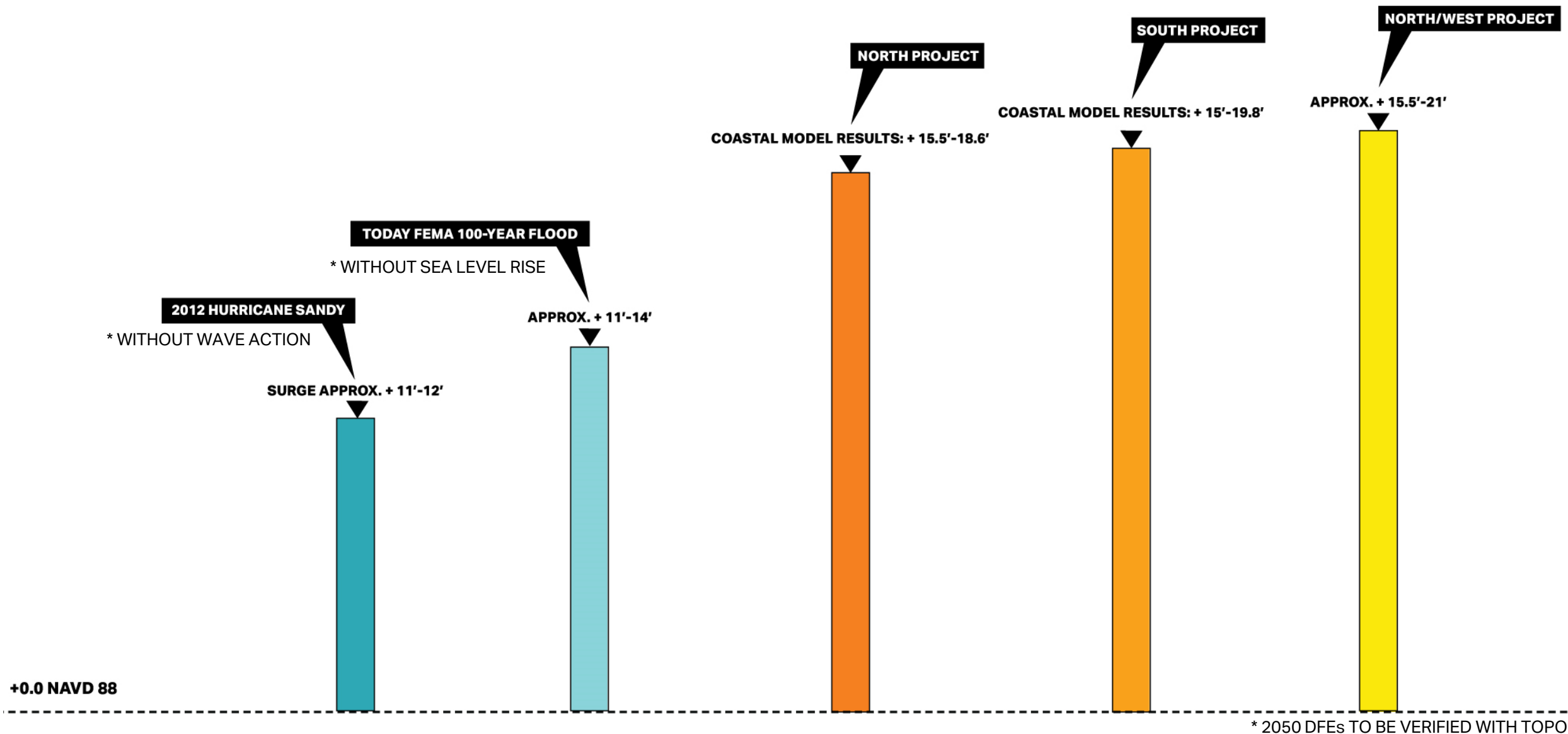
DESIGN FLOOD ELEVATION (DFE)

DESIGN STORM : 2050s 100 YEAR FLOOD



* 2050 DFE TO BE VERIFIED WITH TOPO

DESIGN FLOOD ELEVATION (DFE) | COMPARISONS

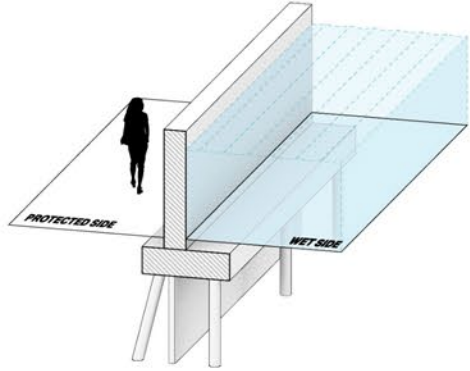


NORTH / WEST DFE RANGE +15.5' TO +21'

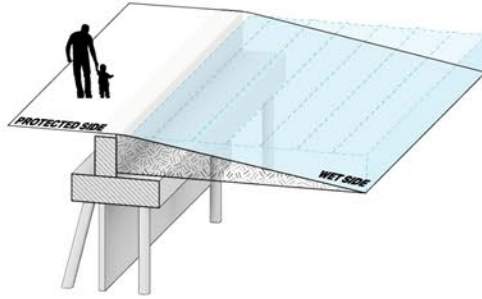
ALL SPOT ELEVATIONS ARE APPROXIMATE

POTENTIAL ALIGNMENT FLOOD RISK MEASURES

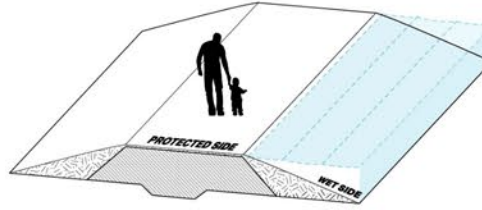
STATIC



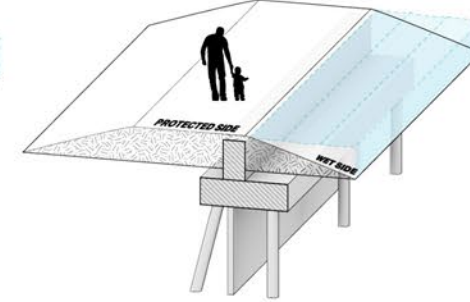
FLOOD WALL



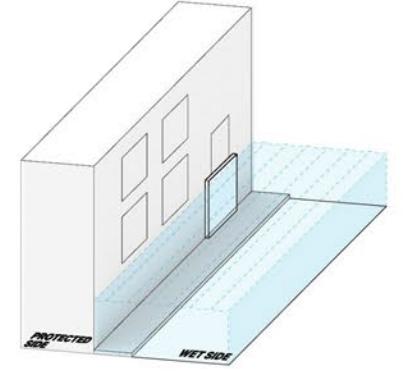
CONCEALED FLOODWALL



STRUCTURAL BERM

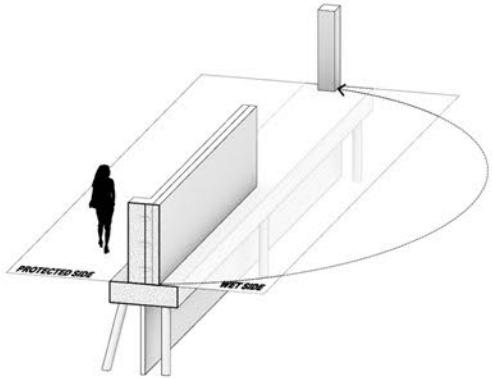


BERM WITH CONCEALED FLOODWALL

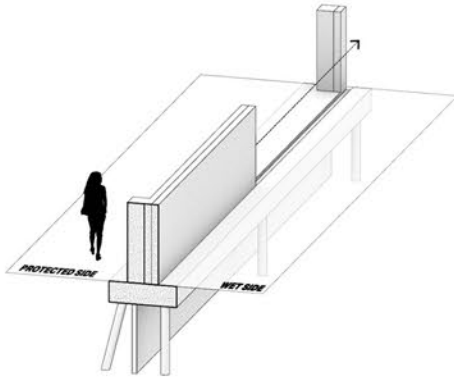


DRY-FLOOD PROOFING

DEPLOYABLES



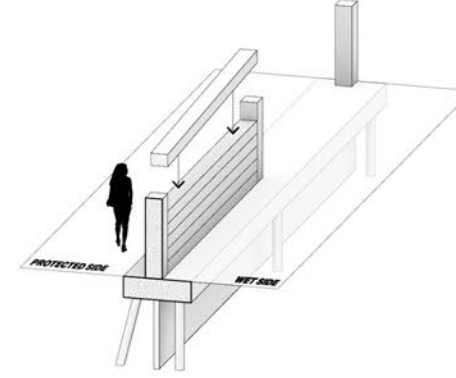
SWING GATE



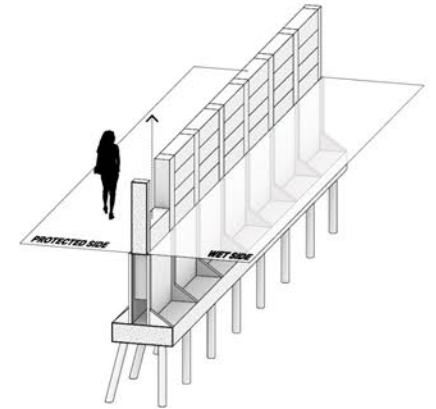
SLIDING GATE



FLIP UP GATE



STOP LOGS



VERTICAL SLIDING GATE

PROJECT GOALS RELATED TO FLOOD RISK

- **Reduce flood risk related to future storm events**

- Currently designing for a 100-year surge event coupled with sea level rise and a rain event in 2050 (A 100-year flood is one that statistically has a 1% chance of occurring in any given year)
- Flood risk reduction to BPC with residual benefits to adjacent Lower Manhattan communities

- **Provide flood measures integrated into the urban fabric**

- Flood measures not treated as a separable element
- Design allows existing use, programming, and aesthetics to be retained and thrive
- Recognition of and respect for BPC design excellence legacy

PROJECT FOOTPRINT



BATTERY PARK CITY LANDSCAPES

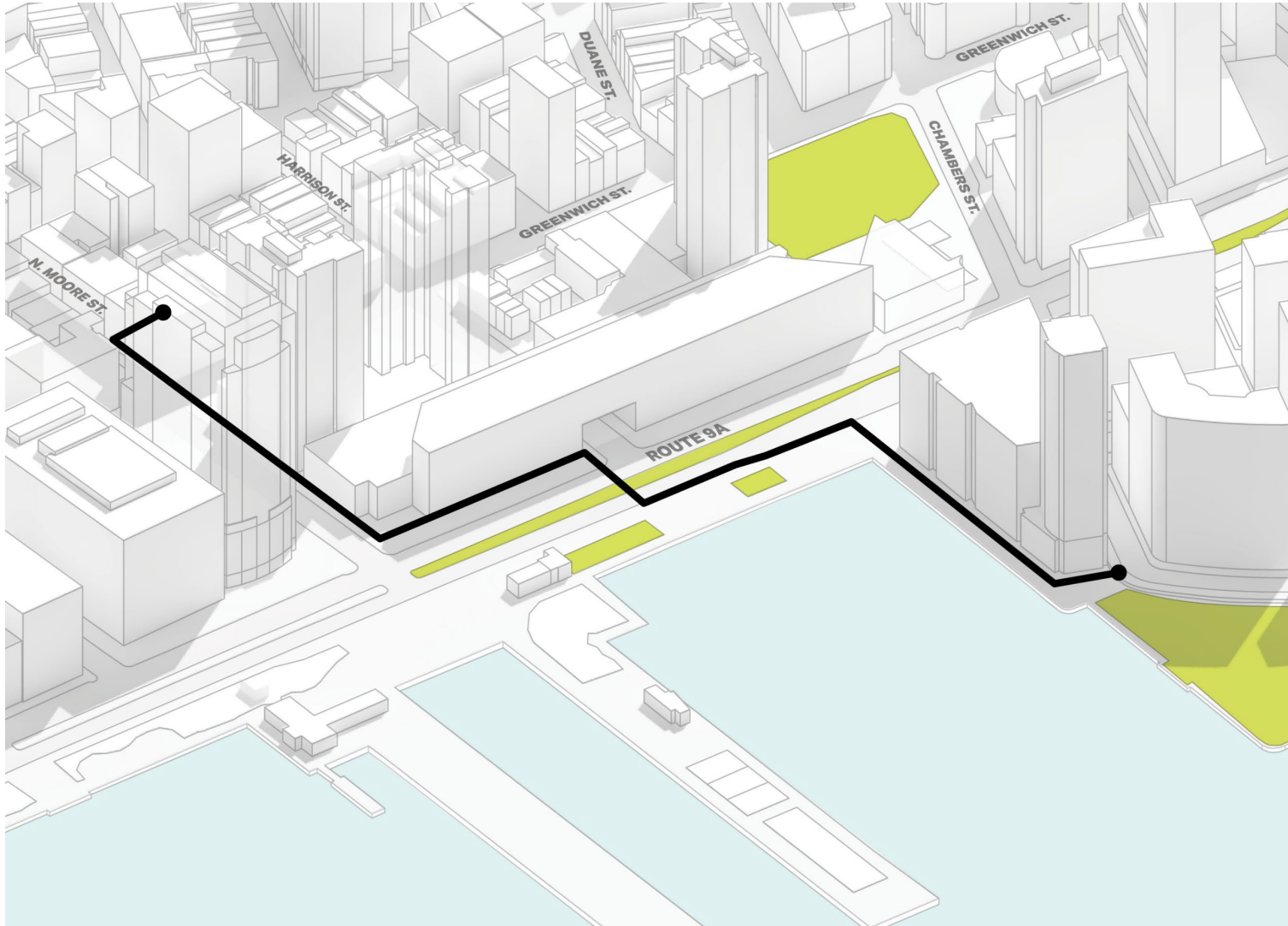


PRELIMINARY STUDY AREAS



PRIOR NORTH BATTERY PARK CITY RESILIENCY PROJECT SUMMARY

POTENTIAL ALIGNMENT | NBPC RESILIENCY PROJECT



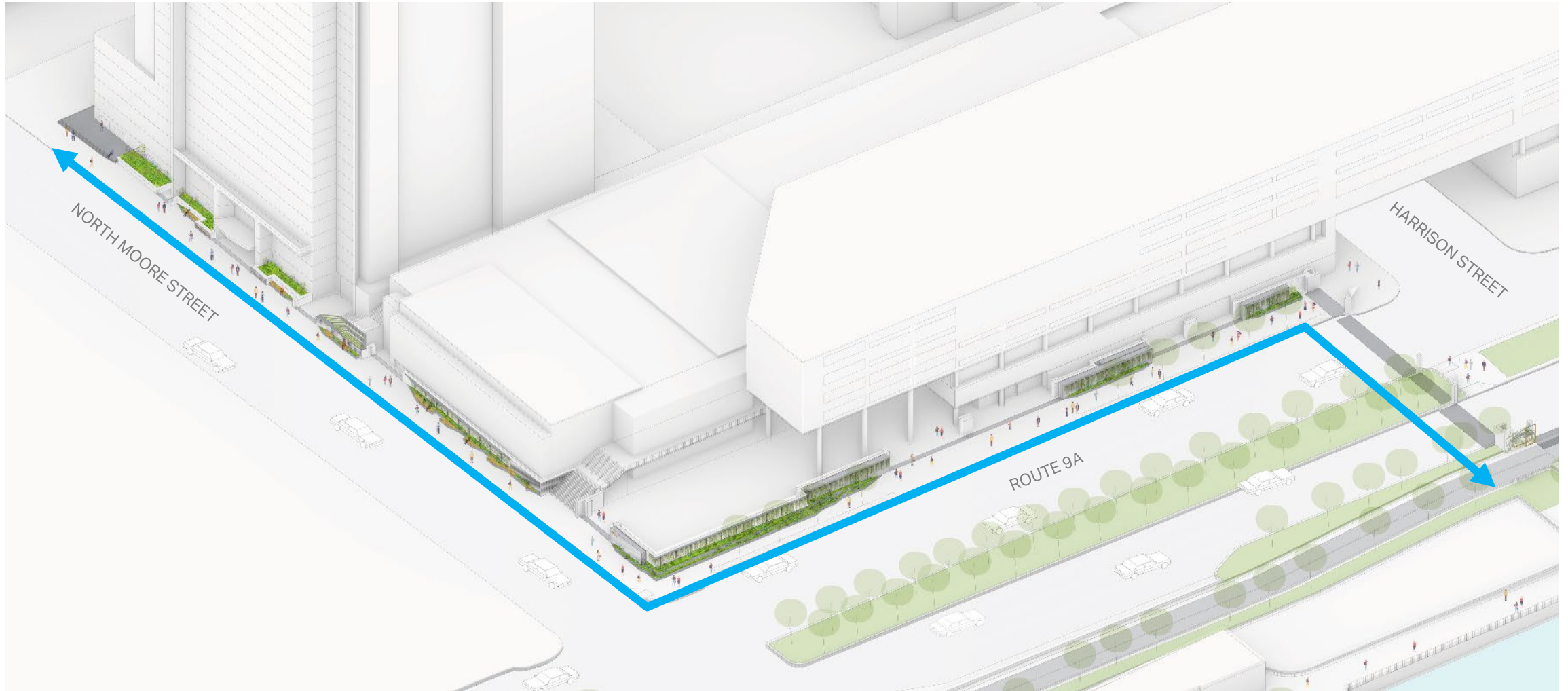
Community Engagement milestones:

- Jul 23, 2020 public meeting
- Feb 27, 2020 public meeting
- Nov 22, 2019 All-Agency Kickoff meeting
- Oct 1, 2019 public meeting

Potential challenges include:

- Complex subsurface conditions throughout alignment
- Crossing Route 9A to reach high ground
- Width of existing Esplanade cannot accommodate both flood barrier system and continued recommendation
- Alignment crosses multiple jurisdictions

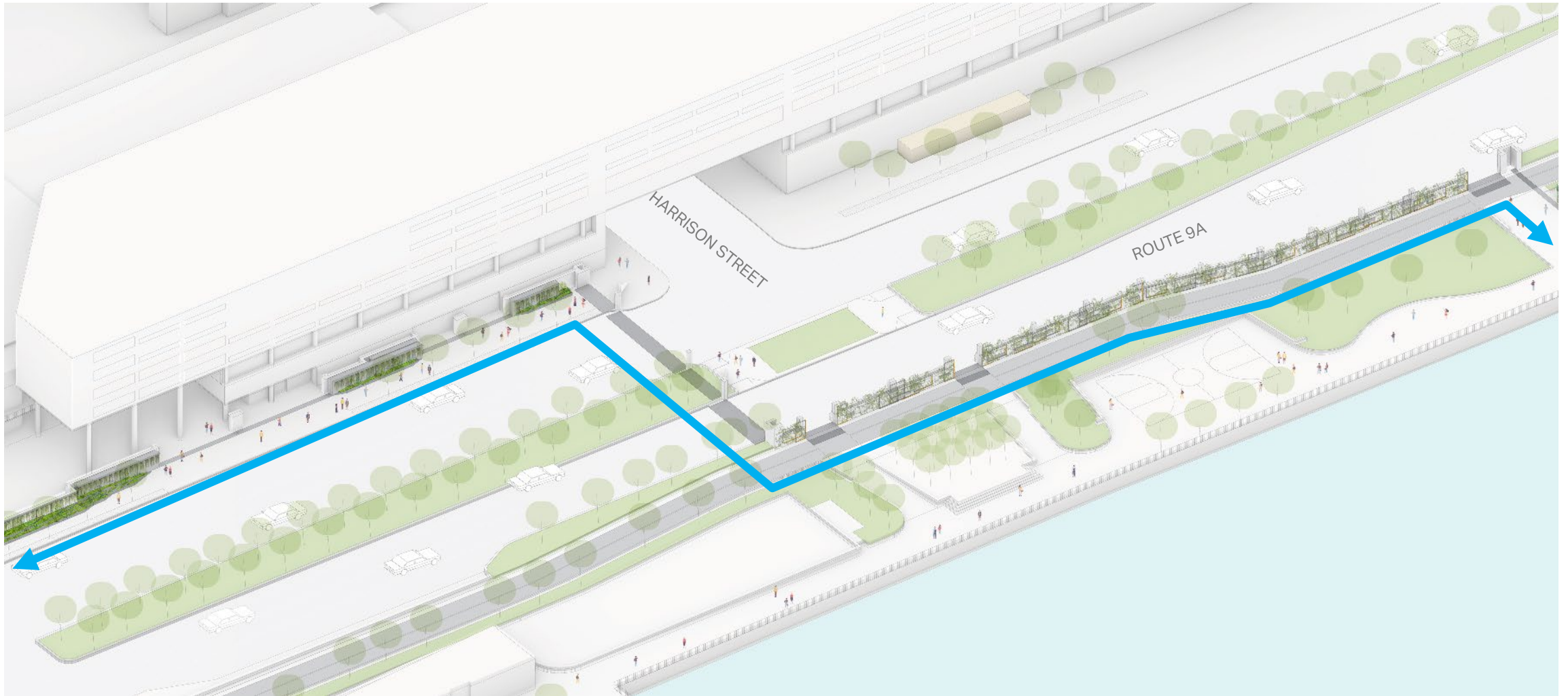
POTENTIAL ALIGNMENT | NORTHEAST TIEBACK



Potential identified design approach from North BPC Resiliency Project:

View toward BMCC and Greenwich Street illustrates the concept of integrating the proposed flood barrier through streetscape enhancement

POTENTIAL ALIGNMENT | NORTHEAST TIEBACK



Potential identified design approach from North BPC Resiliency Project:

View toward Hudson River Park, Route 9A and BMCC illustrating the proposed flood barrier system integrated into the surrounding landscape

POTENTIAL DESIGN APPROACH



Potential identified design approach from North BPC Resiliency Project

ADDITIONAL PRELIMINARY STUDY AREAS + KEY CONSIDERATIONS

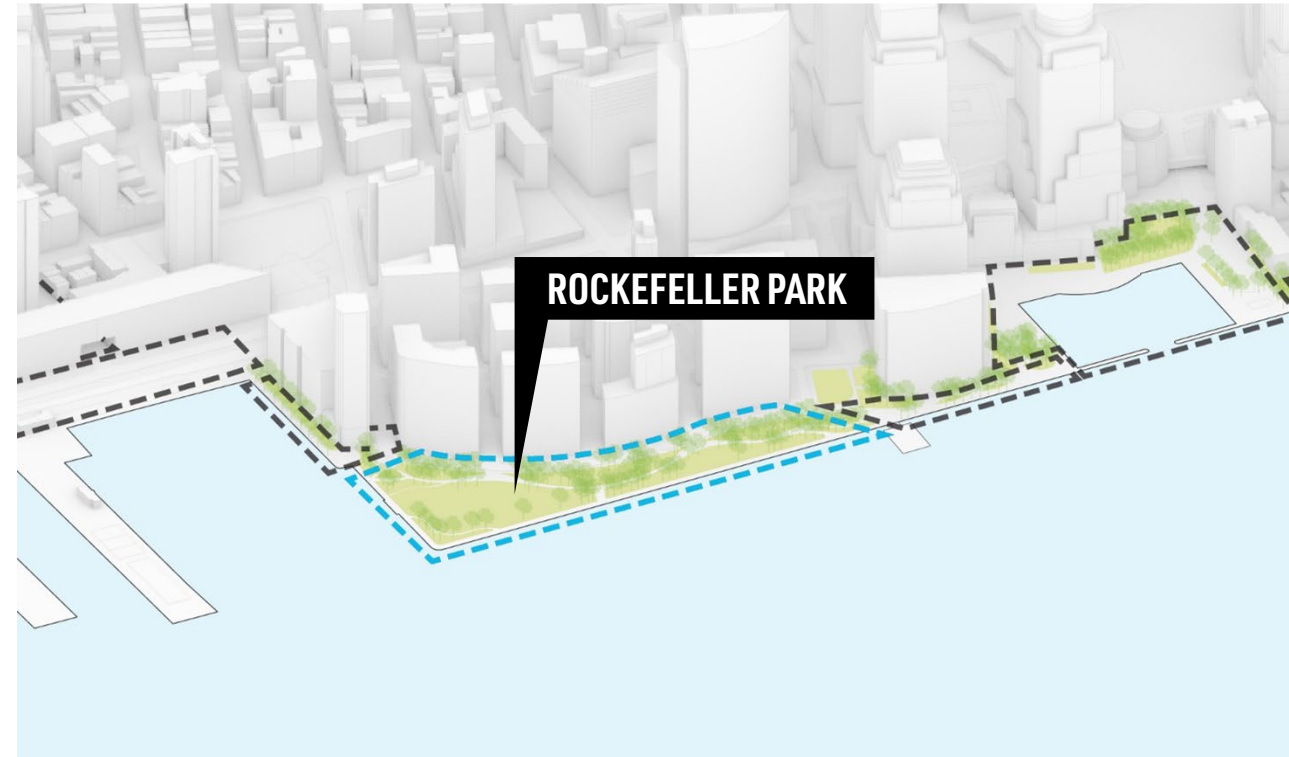
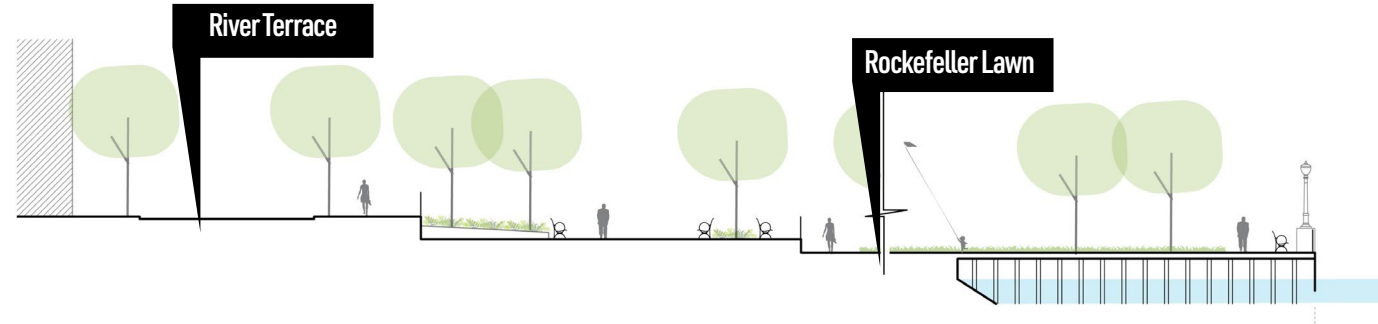
ROCKEFELLER PARK

Existing Conditions:

- Well-established and unique landscape character within Battery Park City
- Long, expansive views across open lawn toward the Hudson River while densely-planted shade trees, gardens, and active recreation facilities line the eastern edge of the park
- Chambers Street Overlook is the high point of land where the alignment will likely tie-in to existing grade

Potential challenges:

- Integration of flood protection to protect active recreation facilities
- Most open spaces and shade trees are located at lowest elevations in the park



ROCKEFELLER PARK



ROCKEFELLER PARK



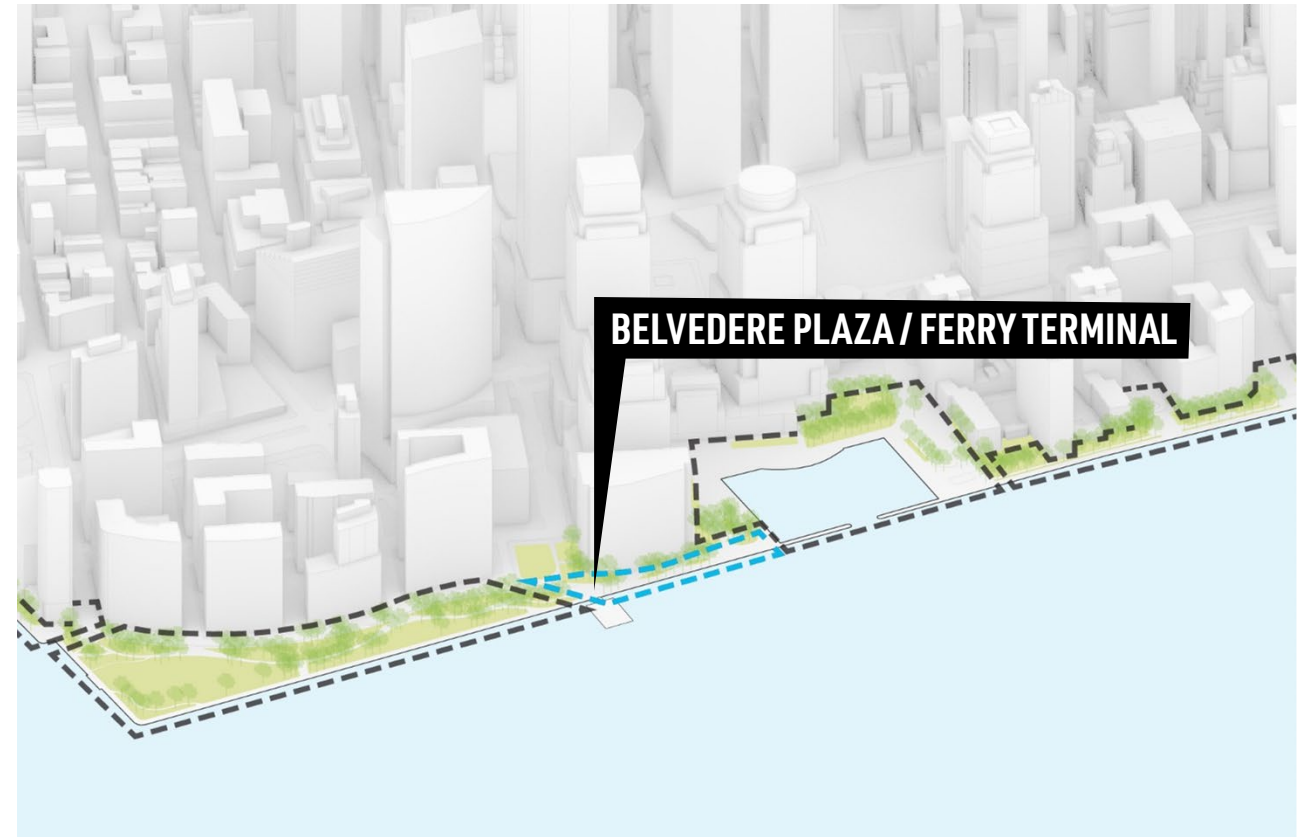
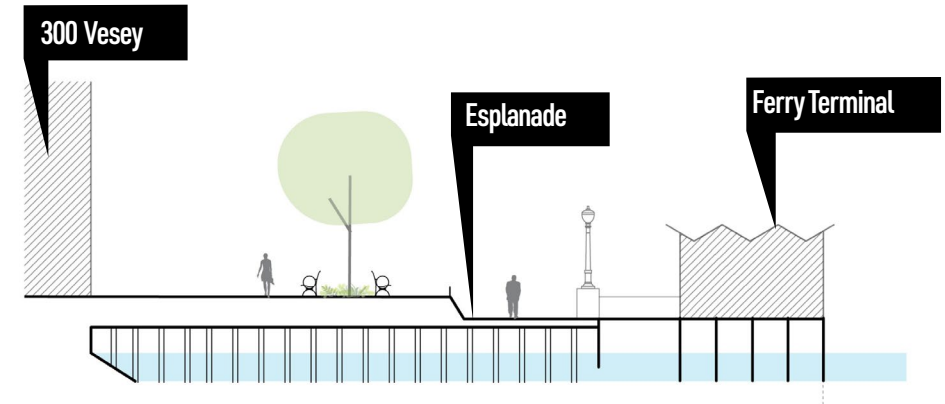
BELVEDERE PLAZA / FERRY TERMINAL

Existing Conditions:

- Area serves as a critical corridor between Rockefeller Park and North Cove
- Landscape and visual character shift from expansive open space to a more spatially-constrained urban waterfront corridor

Potential challenges:

- Extremely complex subsurface conditions
- Potential impact to ferry service
- Narrow distance between buildings and seawall



BELVEDERE PLAZA / FERRY TERMINAL



BELVEDERE PLAZA / FERRY TERMINAL



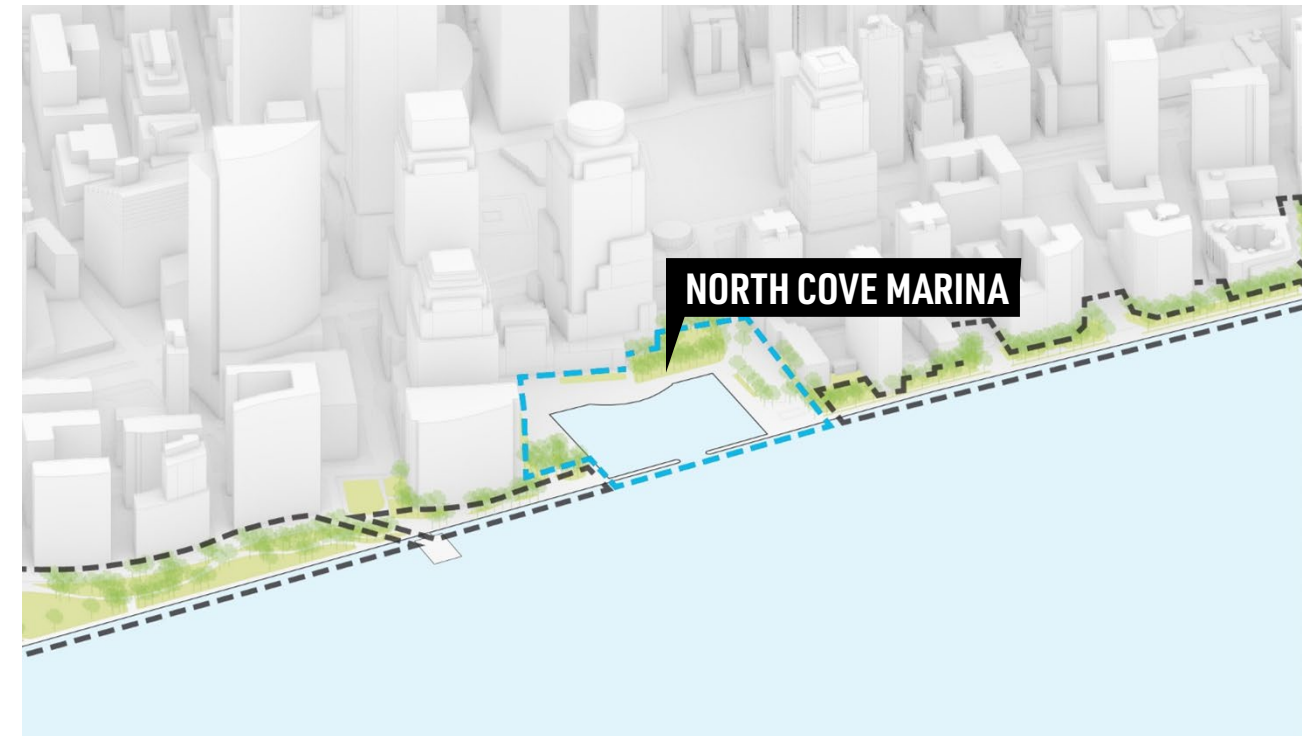
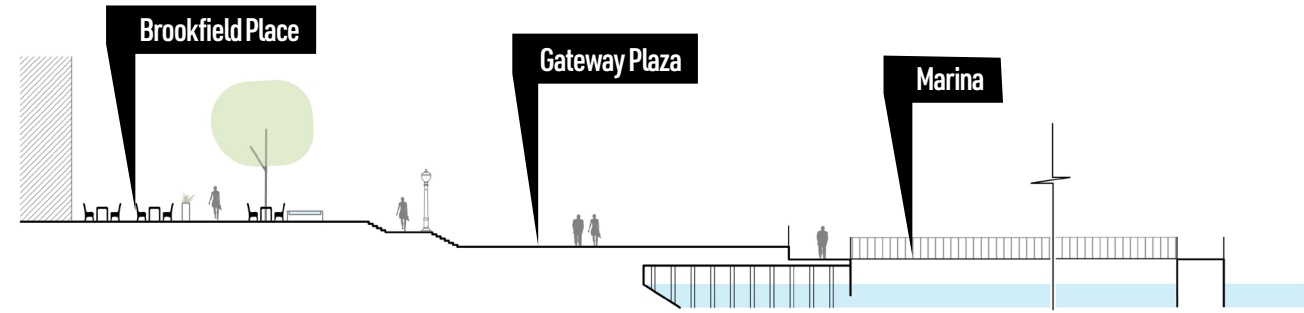
NORTH COVE MARINA

Existing Conditions:

- With Brookfield Place and Gateway Plaza as backdrop, landscape character is defined by expansive views across open paved plaza spaces
- Along primary pedestrian corridors, views are framed by bosques and planted terraces and viewer attention is drawn toward the marina
- This study area will be the most complex segment of the West alignment

Potential challenges:

- Exceedingly complex subsurface conditions, PATH Tunnels, WTC infrastructure, and significant utilities
- Majority of the plaza is located at the lowest elevation, allowing little cover above below-grade platform



NORTH COVE MARINA



NORTH COVE MARINA



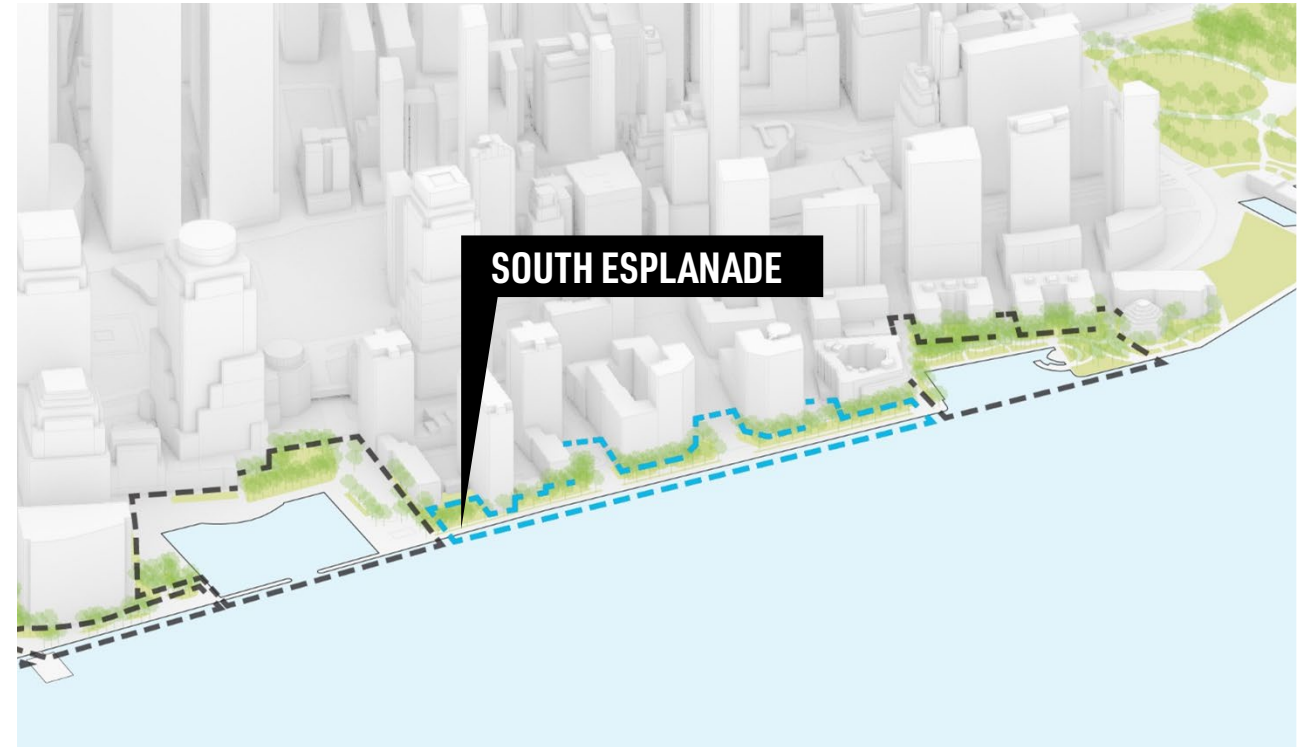
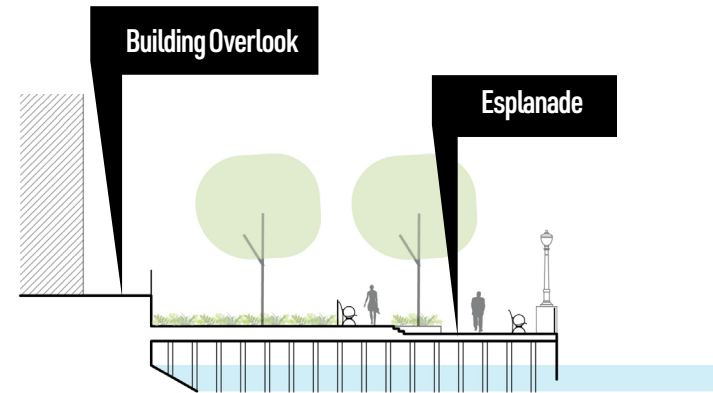
SOUTH ESPLANADE

Existing Conditions:

- Landscape character in this segment is unique within Battery Park City
- A successive pattern of residential buildings separated by urban plazas and densely-planted shade trees help define long, linear views along the Esplanade
- Existing open spaces provide dedicated spaces for public enjoyment, opportunities to gather, and access to the waters edge

Potential challenges:

- Full esplanade and shade trees located on relieving platform which extends to buildings edge
- Potential intersections with public art installations including the Upper Room and Rector Gate



SOUTH ESPLANADE



SOUTH ESPLANADE



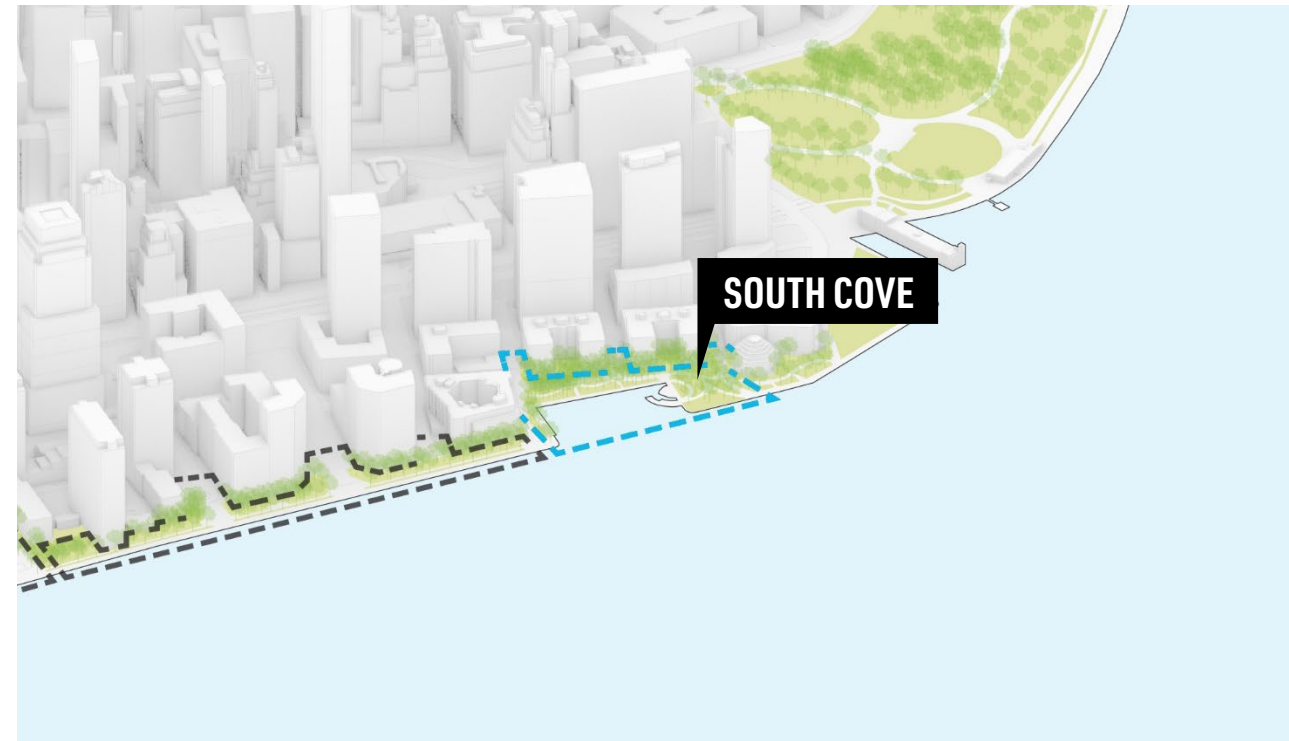
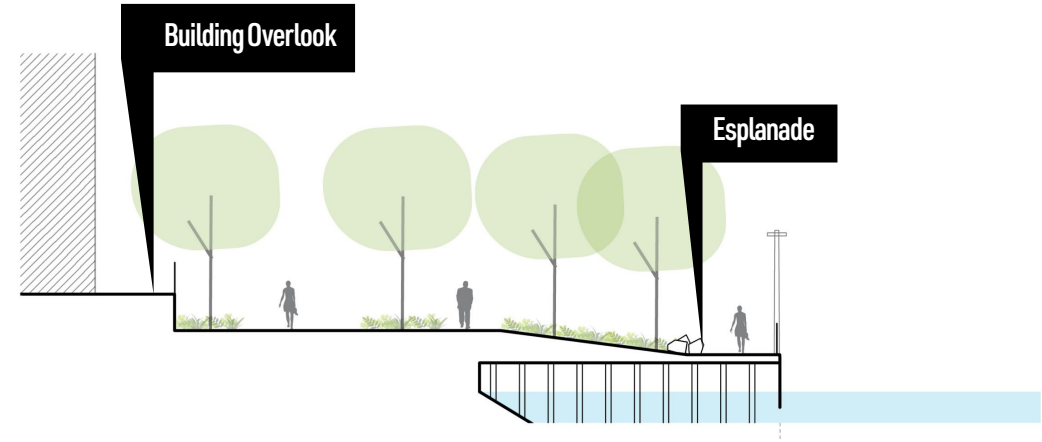
SOUTH COVE

Existing Conditions:

- Landscape character in this study area is intimate and contemplative
- Wooded glade between primary esplanade and water's edge with intimate walking pathways creates unique waterfront condition in Lower Manhattan
- Public art installations and landscape treatment at South Cove highlight unique relationship with water

Potential challenges:

- Unique relationship with water's edge and Mary Miss installation
- Waterside edge of pedestrian Esplanade is densely planted with mature trees



SOUTH COVE



SOUTH COVE



NEXT STEPS

NEXT STEPS

Site Investigations:

- Land Surveyors in the Field throughout Battery Park City now until early Sept 2021
- Geotechnical and Environmental Site Investigations anticipated to begin mid-Aug 2021

Procurement Milestones:

- Progressive Design Builder RFQ to be released Aug 2021
- North / West Project Definition Jan 2022
- Release of Progressive Design Builder RFP anticipated Feb 2022

Community Engagement Milestones:

- Community Meeting #2: Conceptual Design Alternatives anticipated Dec 2021

Environmental Review Milestones:

- Existing conditions assessment has begun and EIS schedule is being developed

QUESTIONS + COMMENTS?



resiliency@bpca.ny.gov

NICHOLAS SBORDONE

BPCA VICE PRESIDENT OF COMMUNICATIONS AND PUBLIC AFFAIRS

NICHOLAS.SBORDONE@BPCA.NY.GOV

212-417-3194

646-531-2276

Q & A