NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT

Reaches 1 & 2 Workshop

February 16, 2023

NEW YORK STATE OF OPPORTUNITY. | Battery Park City Authority

Turner | DE LA CRUZ | ARCADIS | SCAPE | BIG | WSP

Project Team

CLIENT TEAM:

CLIENT:

NEW YORK STATE OF OPPORTUNITY. | Battery Park City Authority

ADVISORS:

AECOM ●ne architecture

CONSULTANTS:

AKRF

EIS CONSULTANT

DESIGN-BUILD TEAM:

PRIMARY CONTRACT:

Turner de la CRUZ

CONSTRUCTION

CONSULTANT:

ARCADIS

CIVIL / STRUCTURAL ENGINEERING

SUB-CONSULTANTS:

BIG

URBAN DESIGN

SCAPE

LANDSCAPE ARCHITECTURE

wsp

GEOTECHNICAL

Today's Workshop

1. **Introduction and Project Overview** (20 mins)
2. **Small Group Discussion** (1 hour)
3. **Small Group Report Out and Response** (1 hour)
4. **Closing Remarks**

Project Schedule

Precise construction completion dependent upon agency permitting and approvals.

A Piece of a Connected & Resilient Waterfront

TRIBECA

SEAPORT

FINANCIAL DISTRICT

US ARMY CORPS OF ENGINEERS NY-NJ HARBOR AND TRIBUTARIES STUDY

BATTERY PARK CITY RESILIENCE PROJECTS
1.15 MILES

THE BATTERY COASTAL RESILIENCE
.33 MILES

THE FINANCIAL DISTRICT AND SEAPORT CLIMATE RESILIENCE MASTERPLAN
HIGHLY CONSTRAINED AREA
.90 MILE

BROOKLYN BRIDGE - MONTGOMERY COASTAL RESILIENCE
.80 MILES

EAST SIDE COASTAL RESILIENCY

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Today's Focus Area

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Future Flood Risk

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Reach 1 + 2
REACH 1
NORTH MOORE ST
HUDSON RIVER PARK
WEST ST / 9A
REACH 2
NORTH ESPLANADE
ROCKEFELLER PARK
N
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REACH 2

NORTH ESPLANADE

North Esplanade

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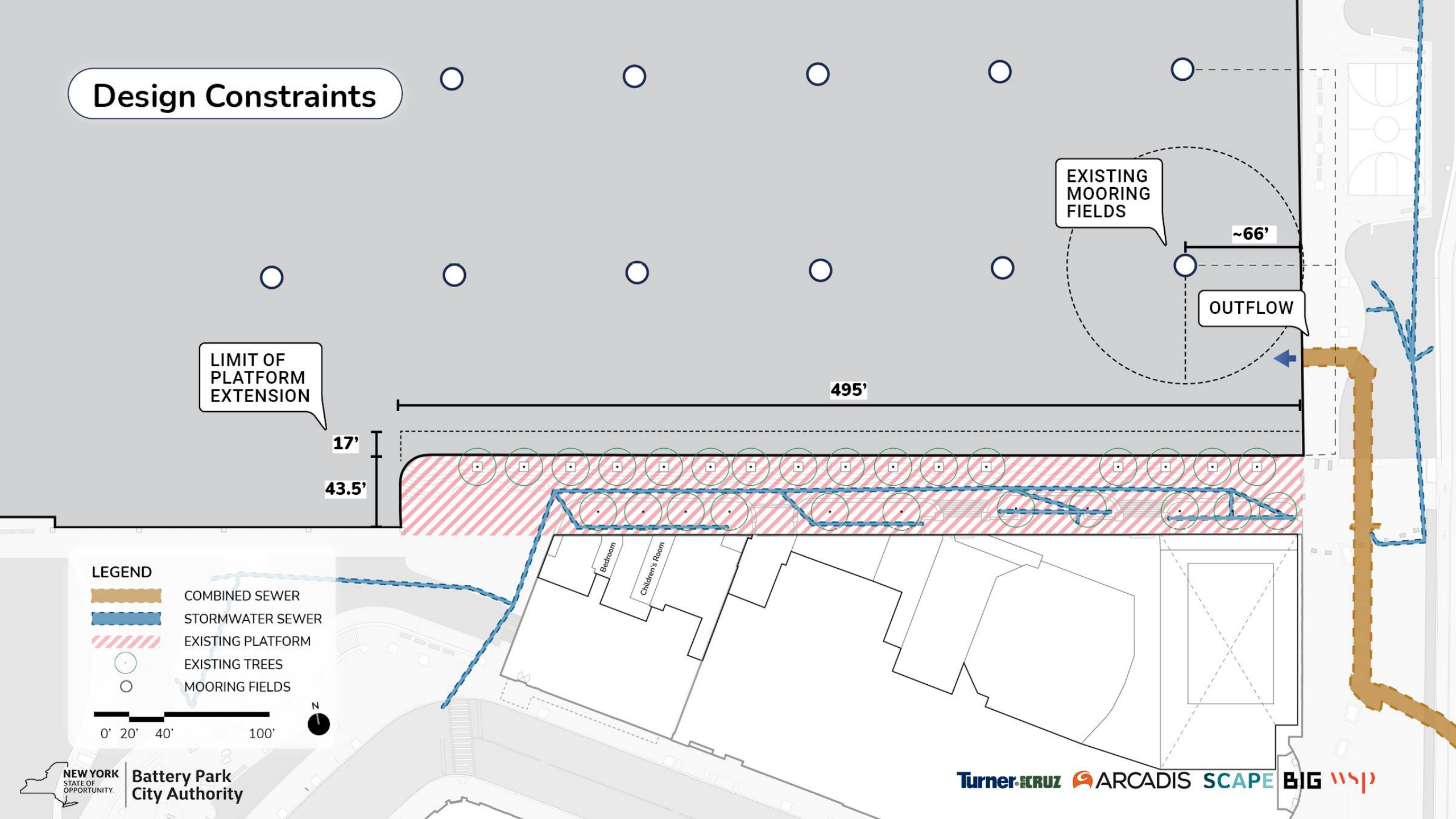
What We Heard

- Concerns over circulation conflicts.
- Desire for enhanced relationship with the waterfront.

Design Constraints



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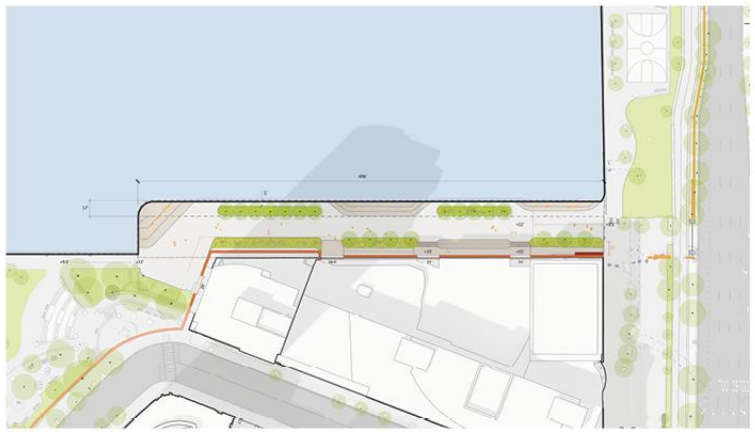
Discussion

1: Extension

Previously presented layout with a continuous 17’ platform extension.

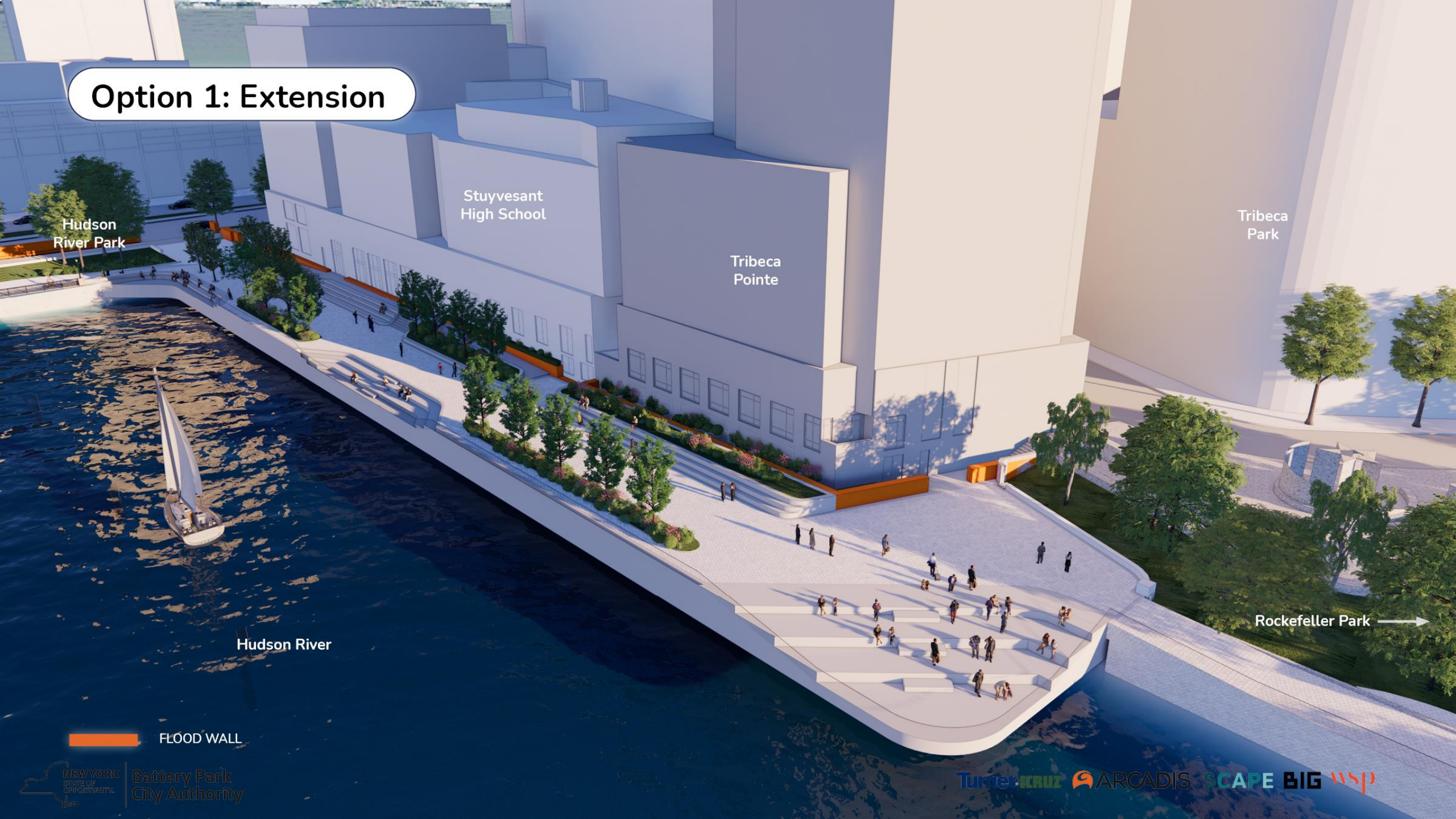


2: Meander

Shared path meanders to optimize planting and social space opportunities.

3: Wave

Strategically expands to address pinch-points and minimize over-water coverage.


Option 1: Extension
Hudson River Park
Stuyvesant High School
Tribeca Pointe
Tribeca Park
Rockefeller Park
Hudson River
FLOOD WALL
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Option 2: Meander
Hudson River Park
Stuyvesant High School
Tribeca Pointe
Tribeca Park
Rockefeller Park
Hudson River
FLOOD WALL
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Option 3: Wave
Hudson River Park
Stuyvesant High School
Tribeca Pointe
Tribeca Park
Rockefeller Park
Hudson River
FLOOD WALL
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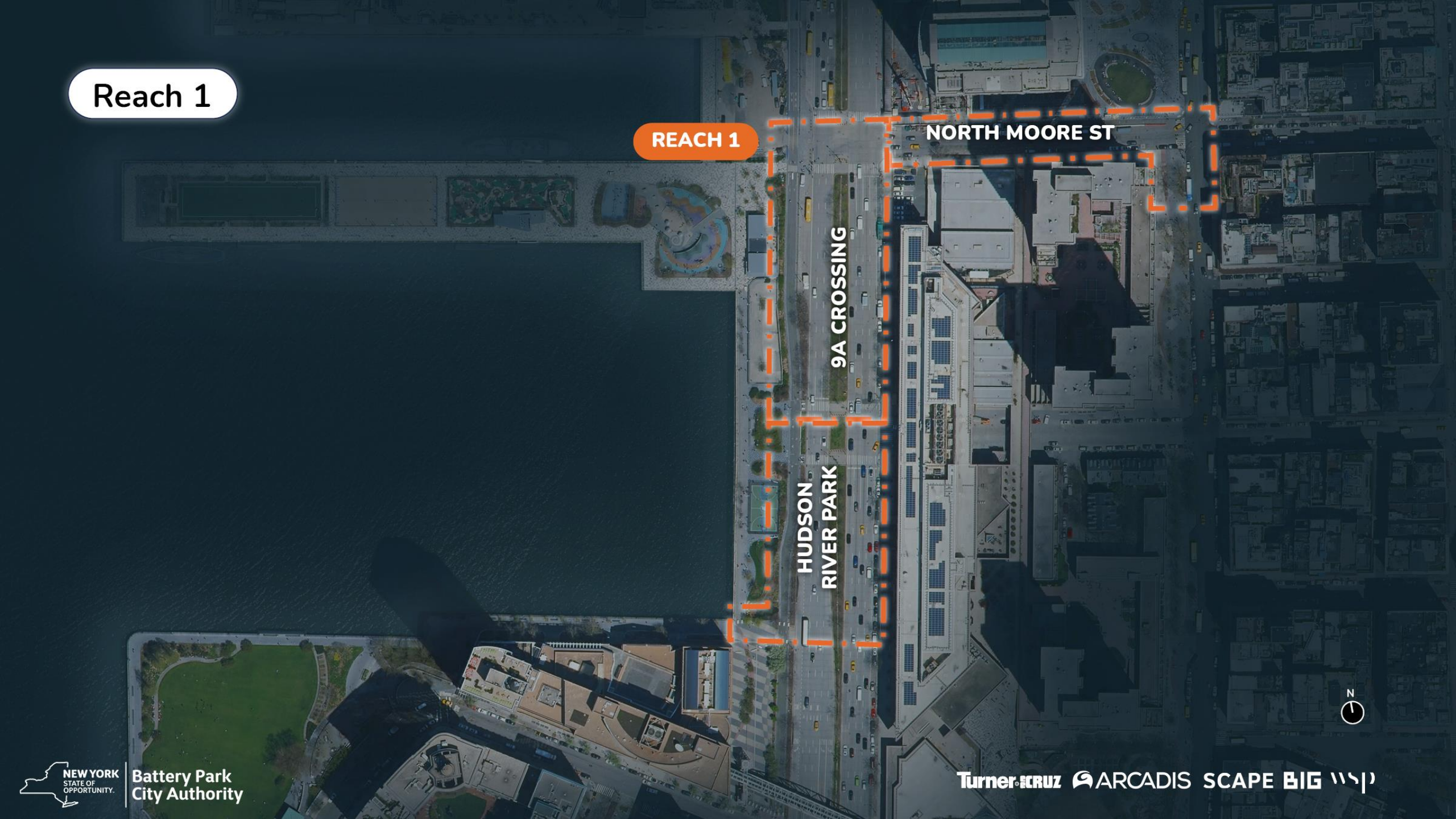
REACH 1

TRIBECA TIE-BACK


Reach 1
REACH 1
NORTH MOORE ST
9A CROSSING
HUDSON RIVER PARK
N
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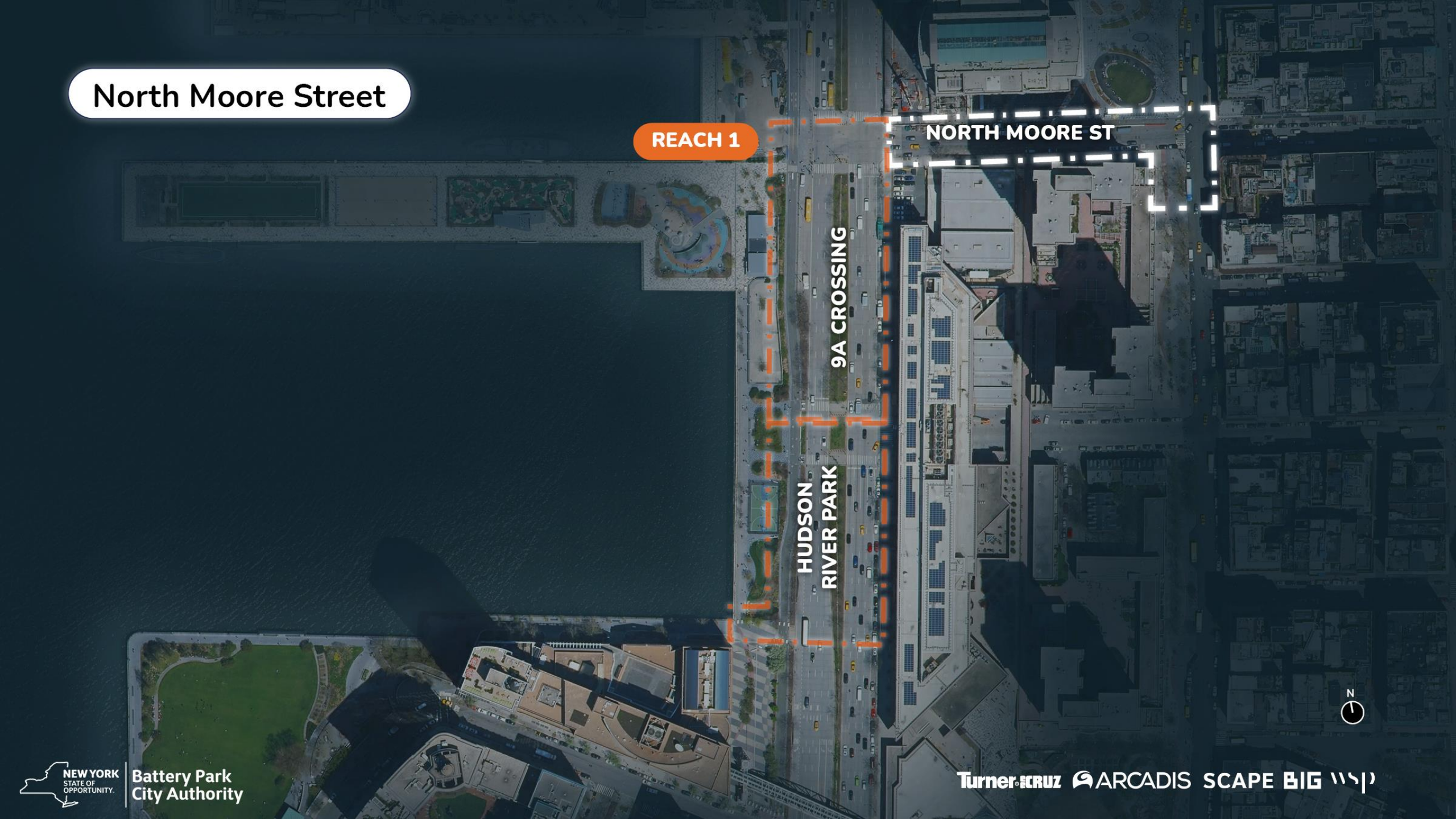
What We Heard

- Concerns over impact to bikepaths and circulation.
- Concerns over wall height and impacts on views.
- Minimize impact to existing trees.


North Moore Street
REACH 1
NORTH MOORE ST
9A CROSSING
HUDSON RIVER PARK
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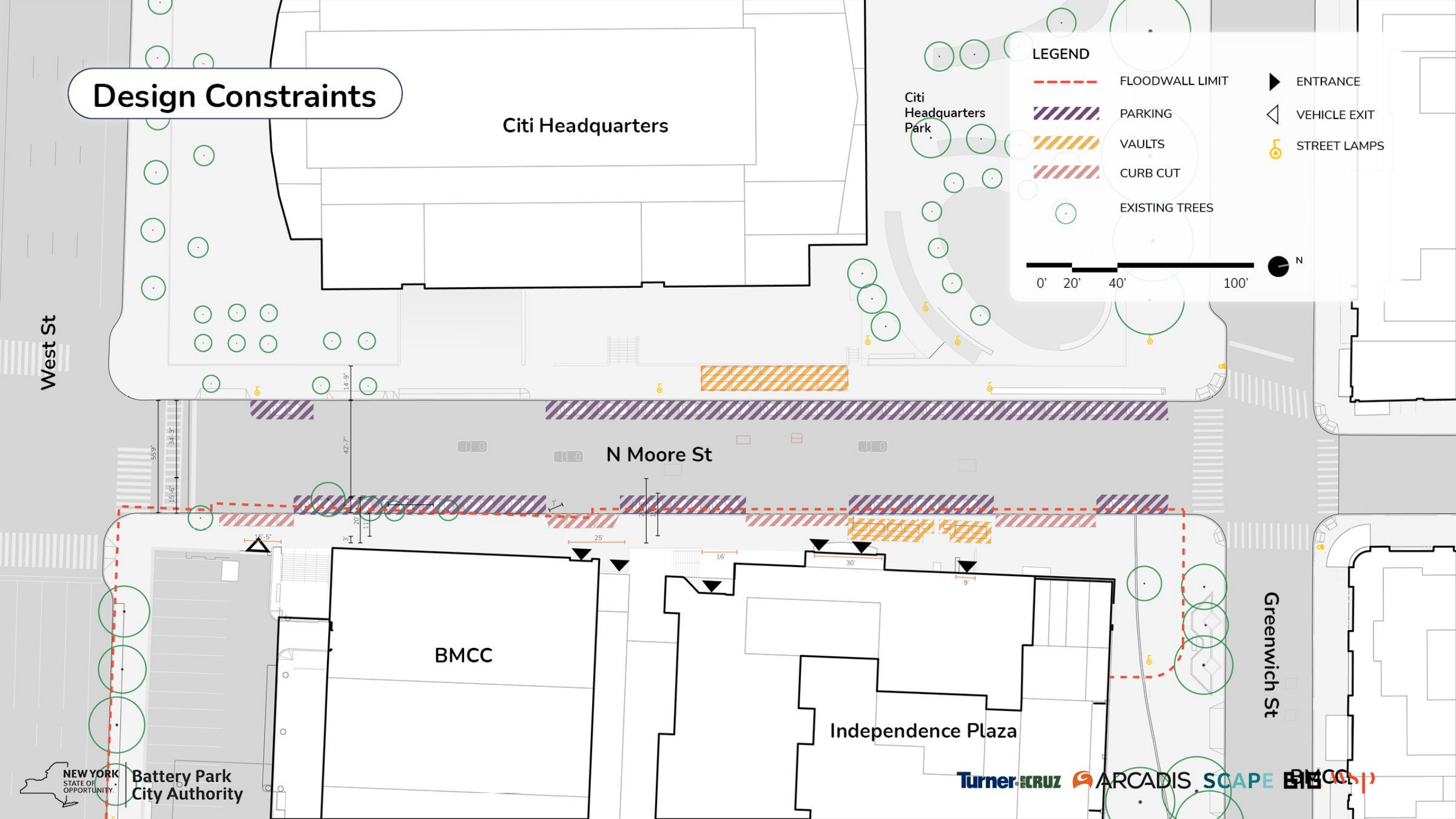
Design Constraints



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Discussion

1: Align With Curb

Construct floodwall along curb to minimize impacts to residential building.

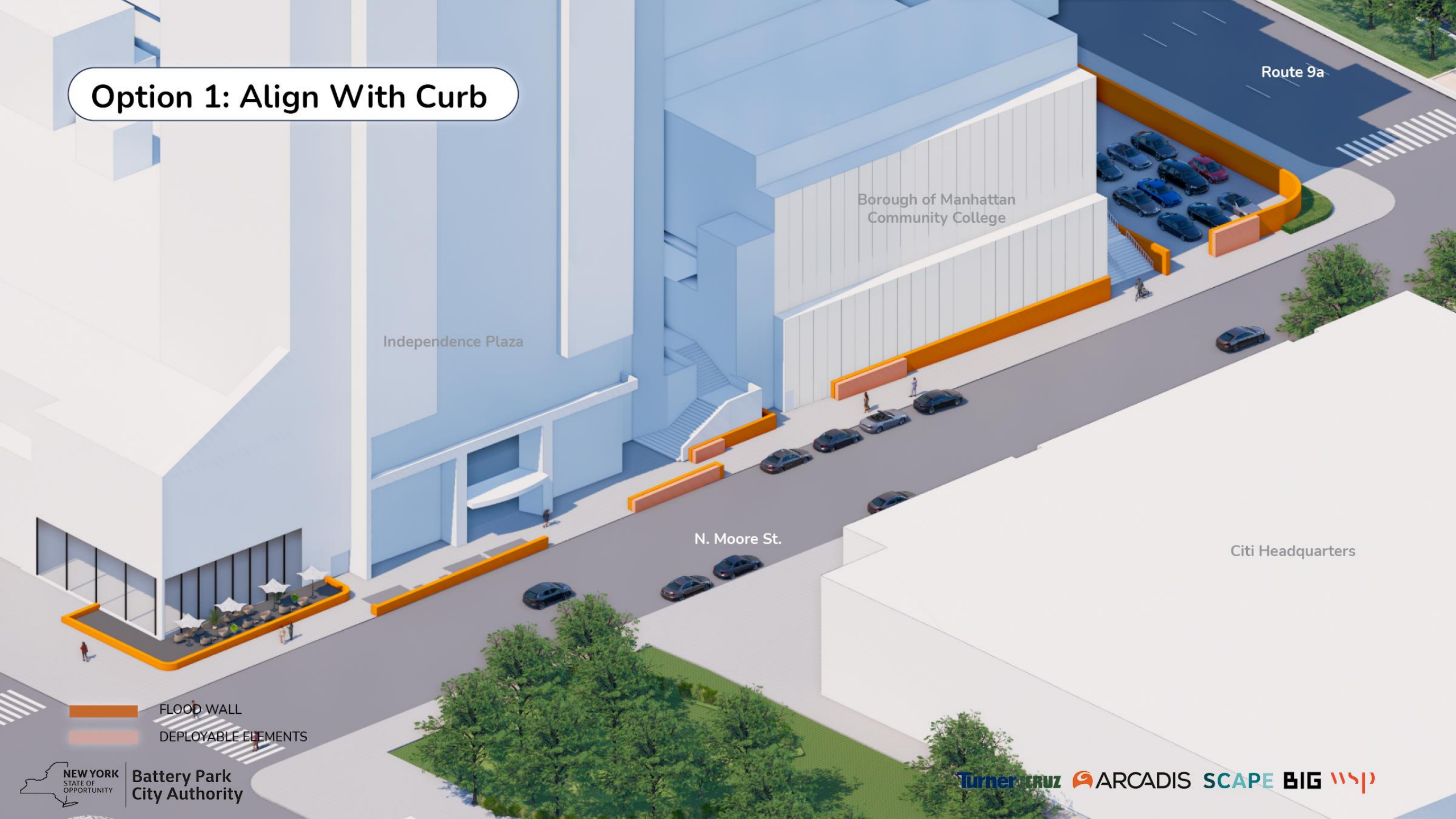
2: Align With Building

Align floodwall along building to reduce impact to existing streetscape uses.

3: Enhance Streetscape

Align floodwall along building and widen sidewalk to accomodate tree canopy.

Option 1: Align With Curb



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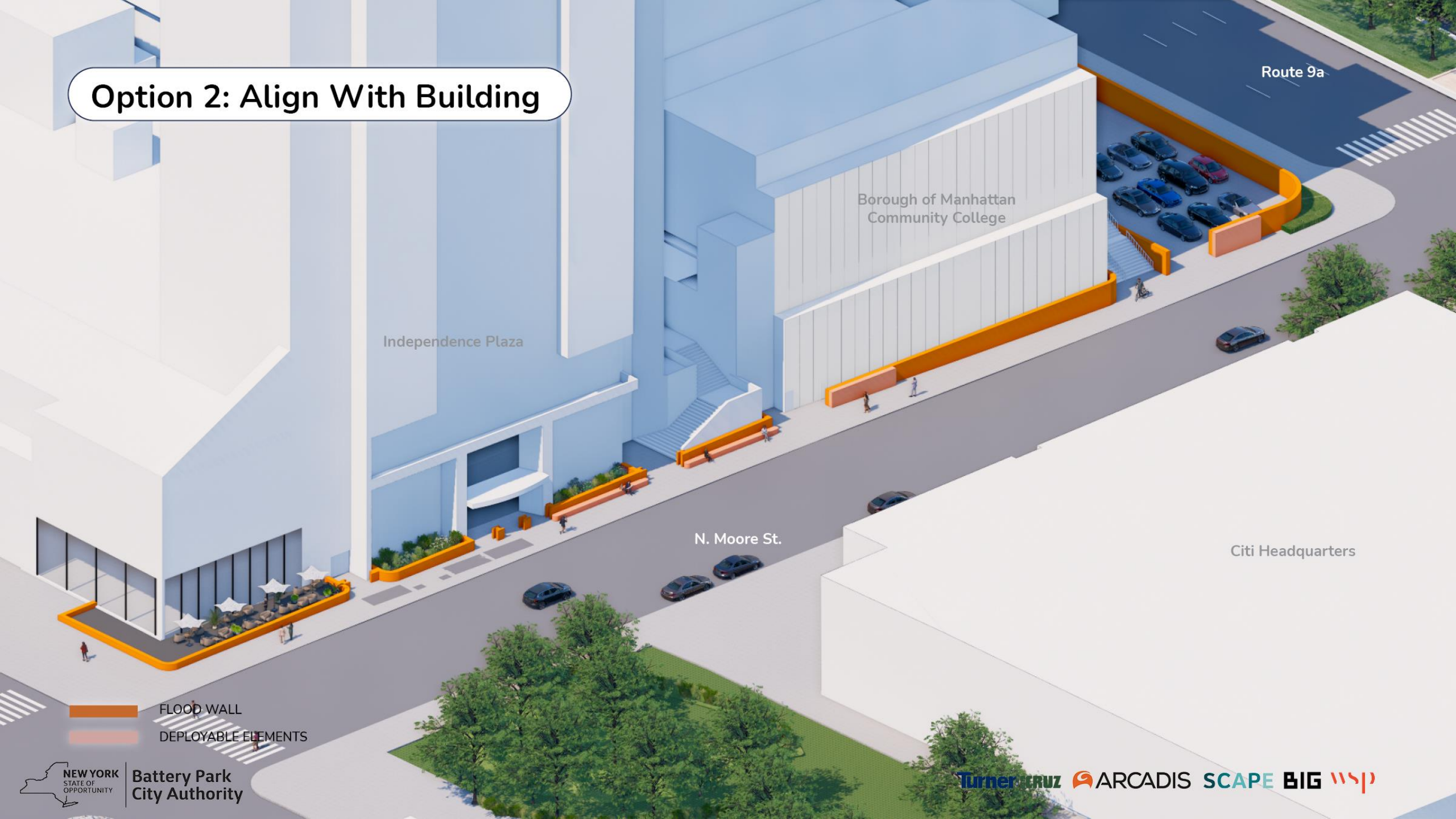
Option 2: Align With Building



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Option 3: Enhanced Streetscape

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West Street (NY-9A) Crossing
REACH 1
NORTH MOORE ST
9A CROSSING
HUDSON RIVER PARK
N
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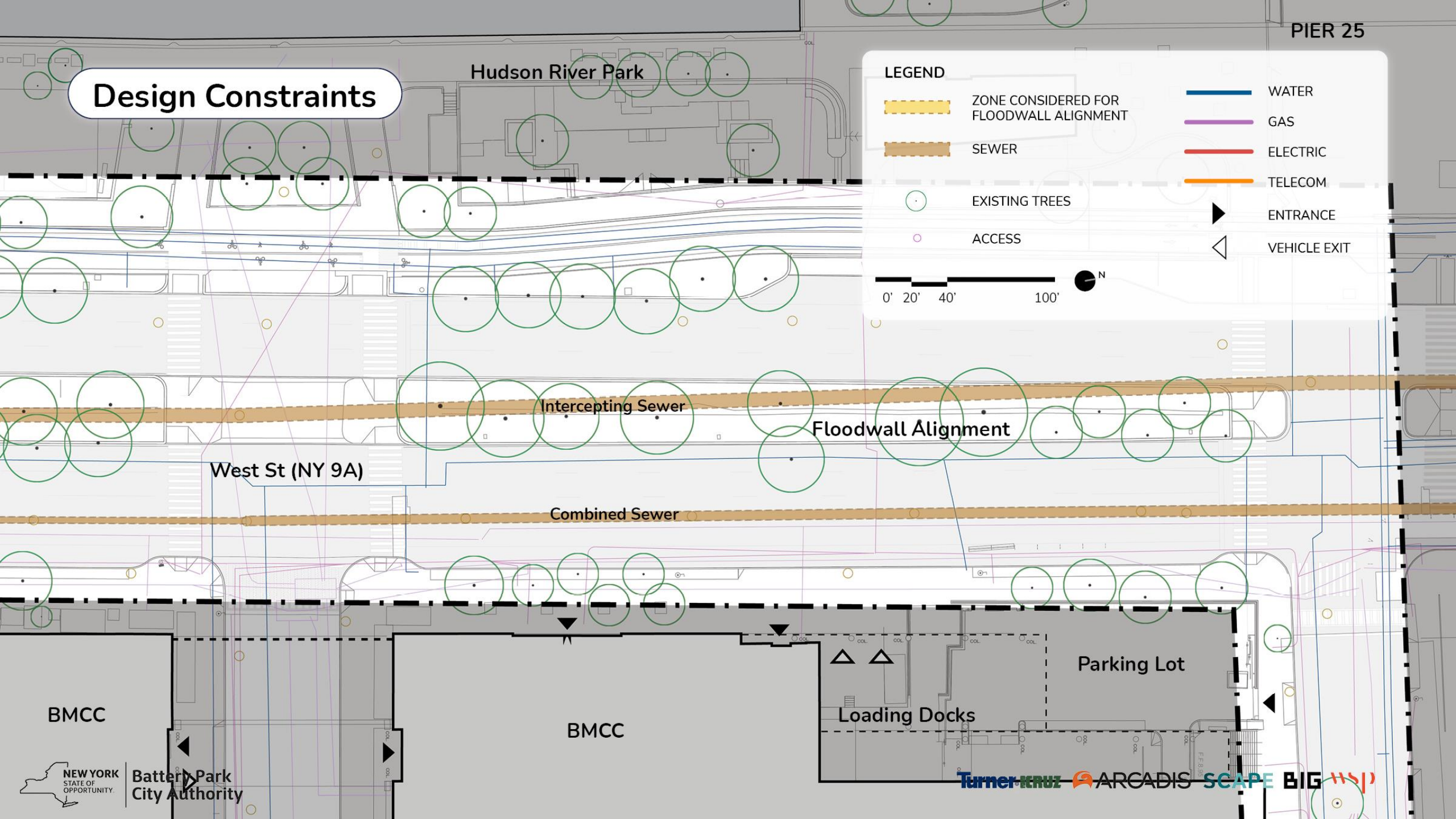
Design Constraints



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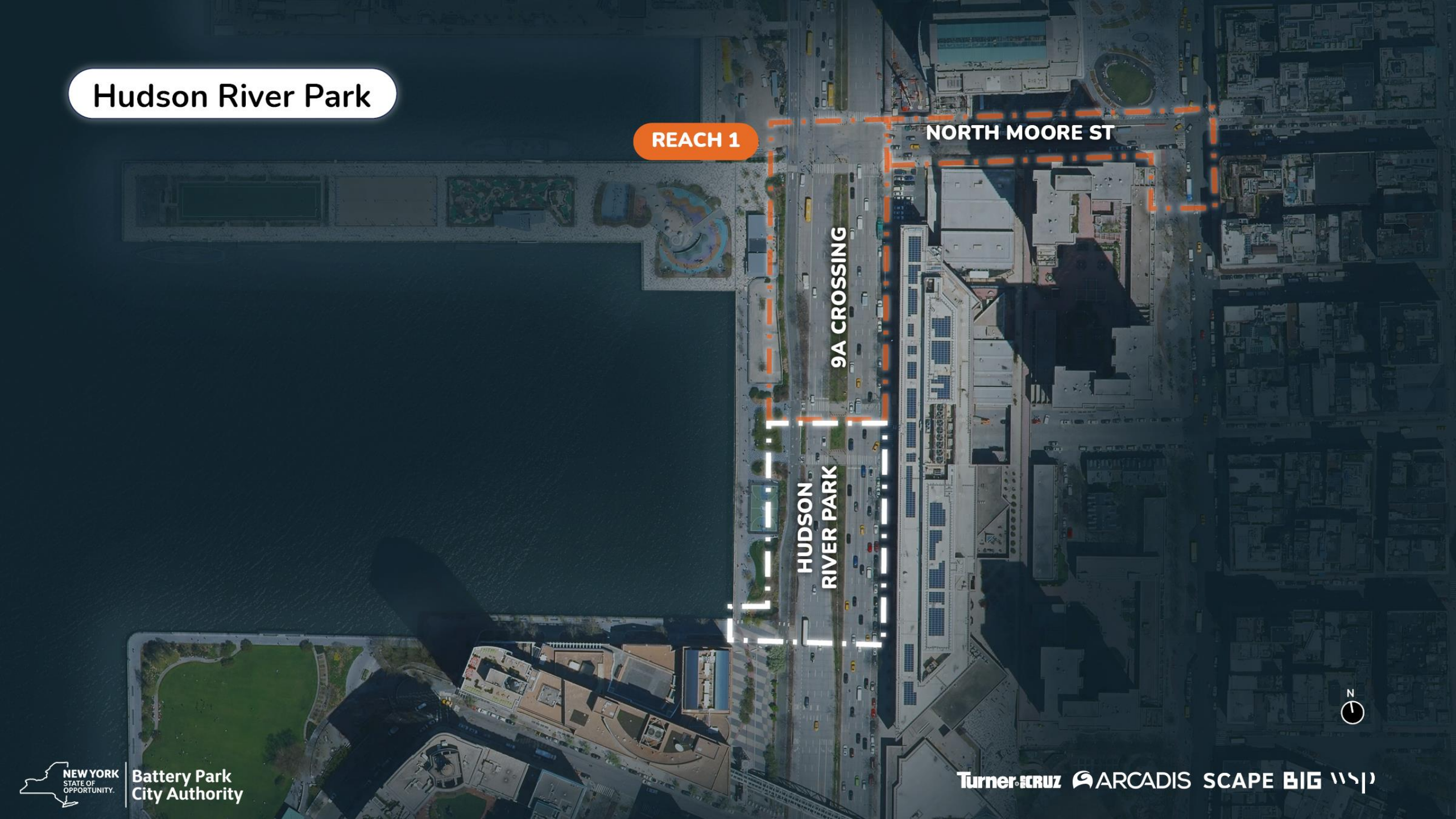
Turner ICRUZ ARCADIS SCAPE BIG

West Street (NY-9A) Crossing: Next Steps Underway

- Continued evaluation of median alignment - confirming technical feasibility.
- Additional coordination with NY State and City Departments of Transportation – better understanding of operational constraints and flexibility.
- Construction logistics development.


Hudson River Park
REACH 1
NORTH MOORE ST
9A CROSSING
HUDSON RIVER PARK
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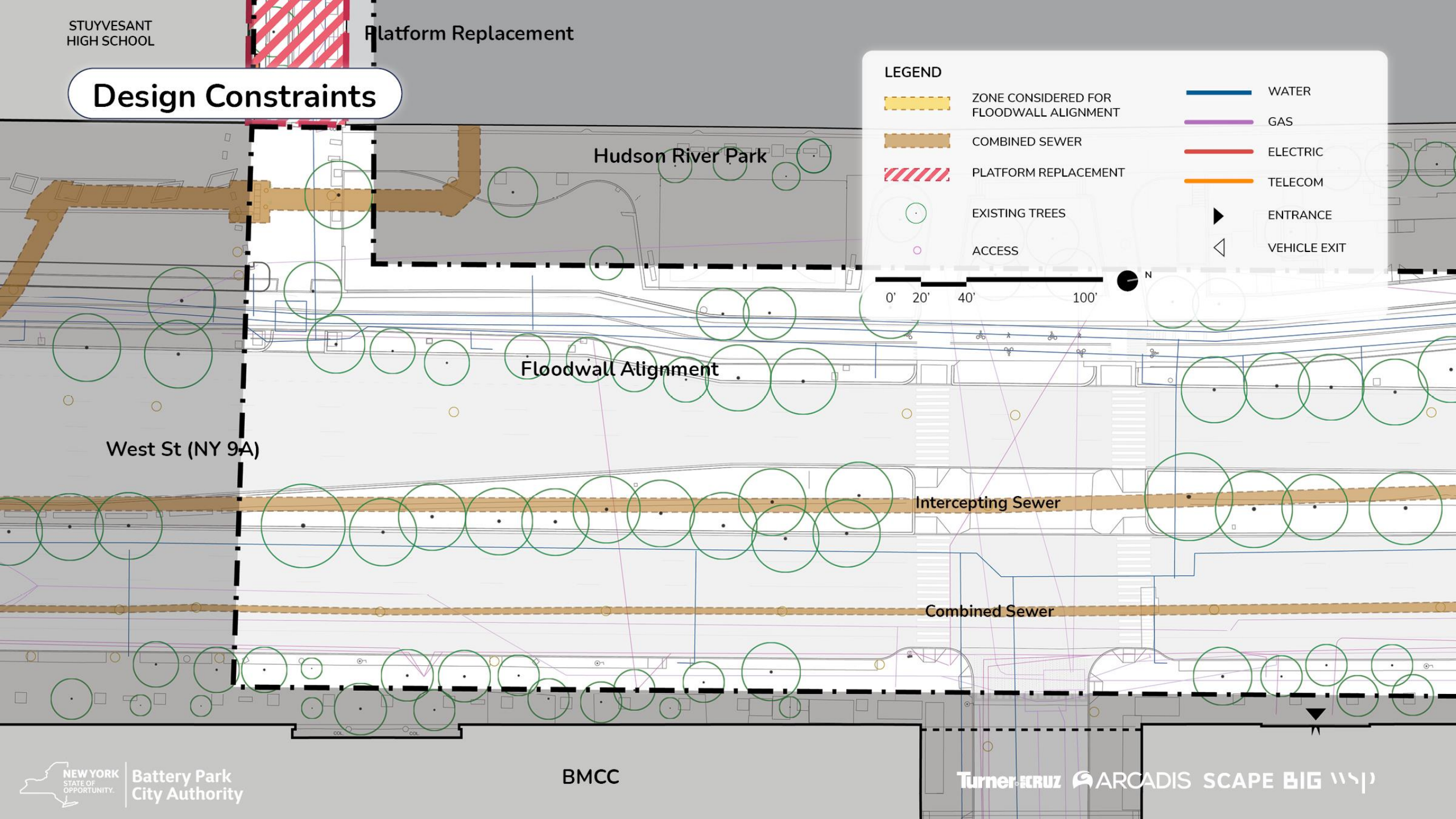
STUYVESANT HIGH SCHOOL
Platform Replacement
Design Constraints
Hudson River Park
LEGEND
ZONE CONSIDERED FOR FLOODWALL ALIGNMENT
COMBINED SEWER
PLATFORM REPLACEMENT
EXISTING TREES
ACCESS
WATER
GAS
ELECTRIC
TELECOM
ENTRANCE
VEHICLE EXIT
N
0'
20'
40'
100'
Floodwall Alignment
West St (NY 9A)
Intercepting Sewer
Combined Sewer
BMCC
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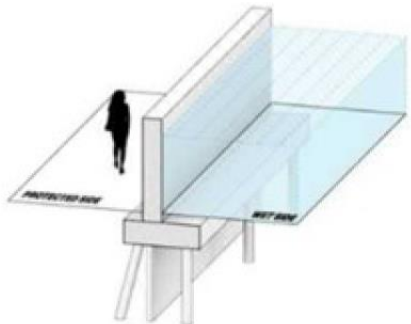
Discussion

- Full height fixed wall between bike path and Rte 9A

- Partial height fixed wall with deployable elements between bike path and Rte 9A

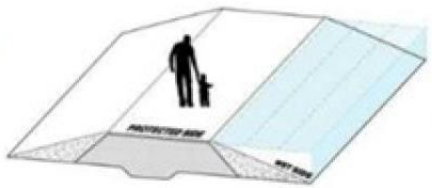
Discussion

STATIC

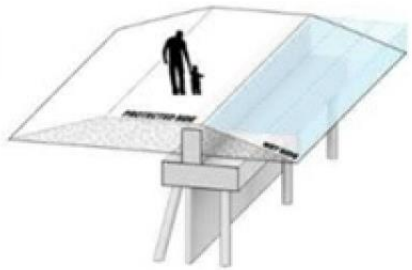


FLOOD WALL

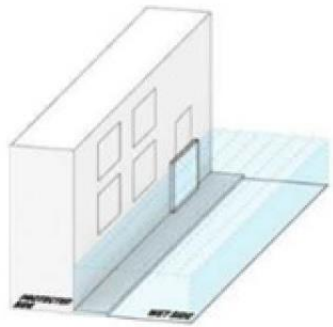
CONCEALED FLOODWALL



STRUCTURAL BERM

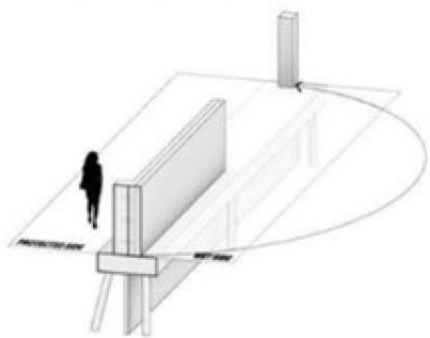


BERM WITH CONCEALED FLOODWALL

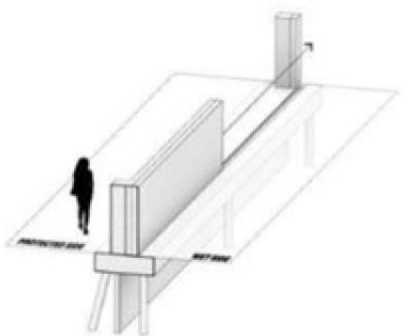


DRY-FLOOD PROOFING

DEPLOYABLES

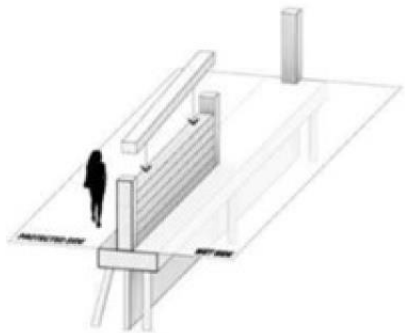


SWING GATE

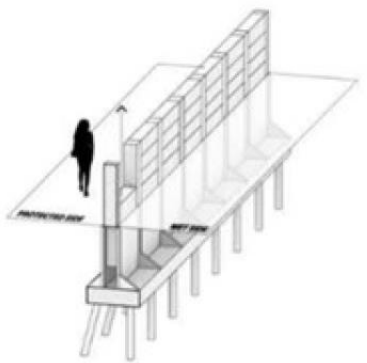


SLIDING GATE

FLIP UP GATE



STOP LOGS



VERTICAL SLIDING GATE

Today's Workshop

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3. **Small Group Report Out and Response** (1 hour)
4. **Closing Remarks**