

# SEAPORT

## Coastal Resilience

**Community Board 1 Project Update**  
October 21, 2024

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# 01

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## Meeting Objectives

# Meeting Objectives

- **Seaport project overview**
- **Community engagement update: walkshop recap and Q&A**
- **Flood alignment alternatives update**
- **Next steps**

# 02



## Project Overview

# Project Overview | Seaport District Today



Neighborhood history



Markets, events & open space



Historic facades



Maritime history



FDR Viaduct



Brooklyn Bridge & esplanade

# Project Overview | Why is Seaport being protected?

The Seaport District has a rich history that is at threat from climate change and sea level rise.

The district will experience **monthly** tidal flooding as early as the **2050s** and **daily** tidal flooding by the **2080s**.

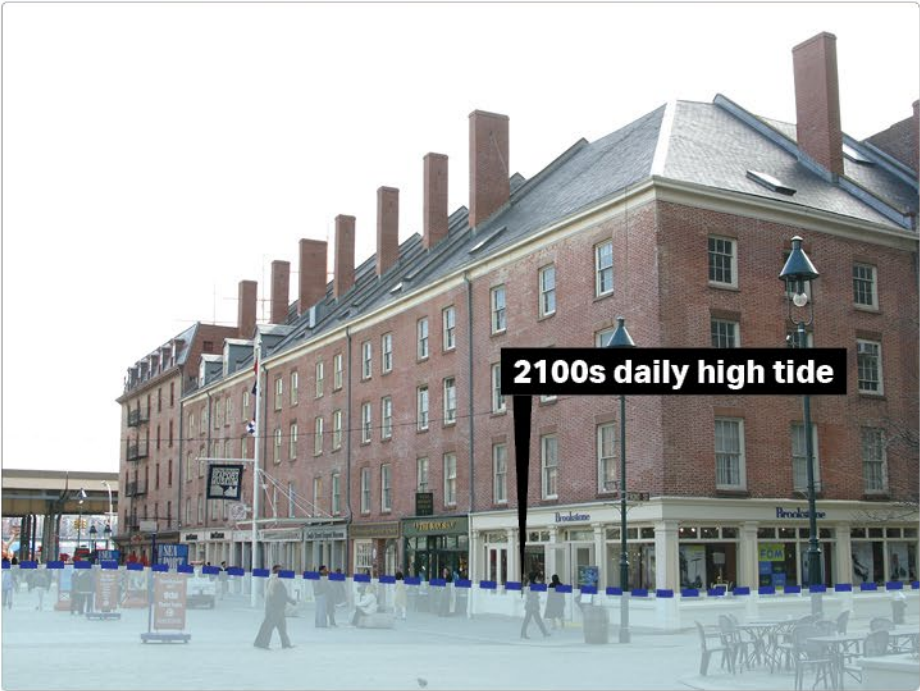
By **2100**, daily high tides will reach up to **three blocks inland** at Pearl Street.



Schermerhorn Row, c. 1970.  
Source: The Seaport Community Coalition

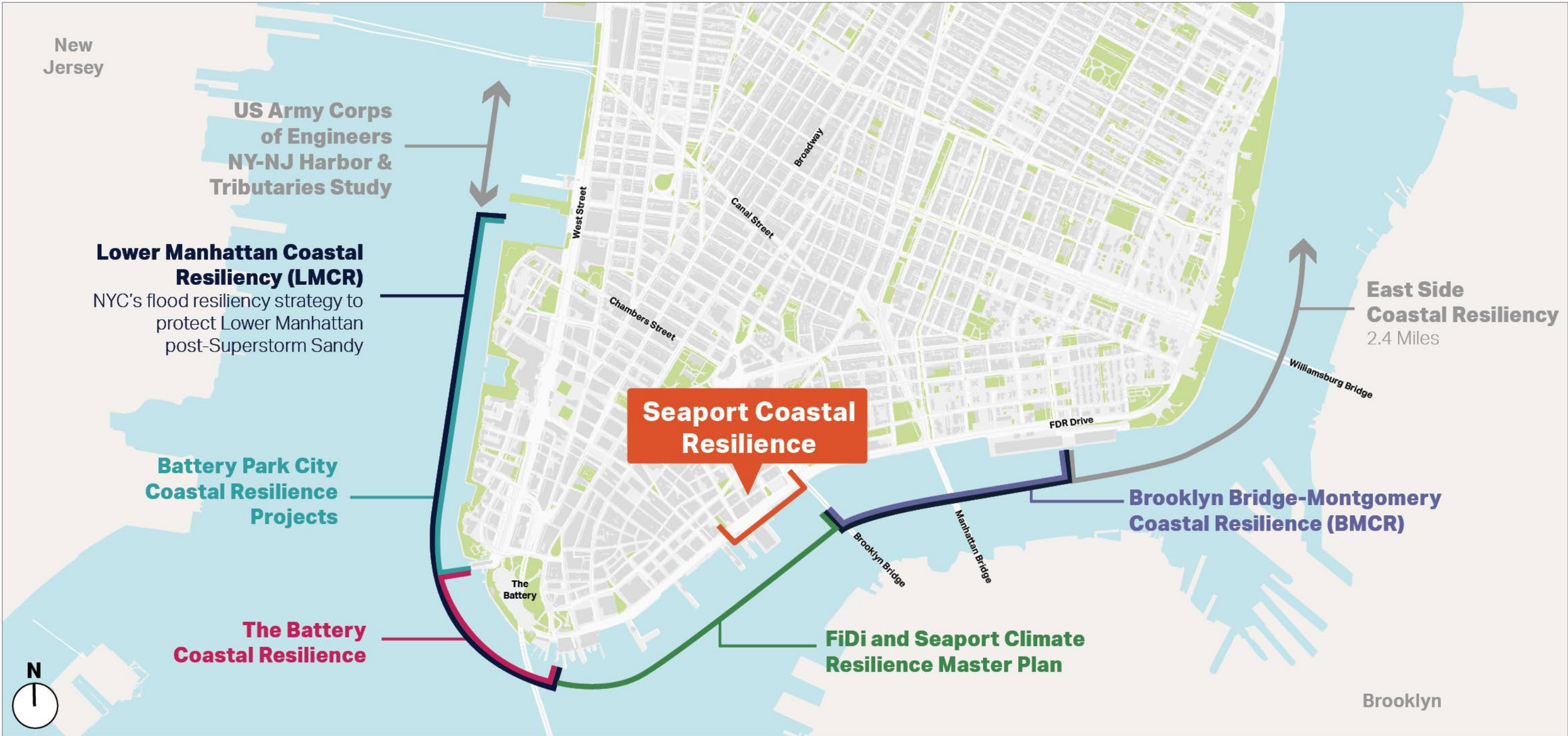


Top: Schermerhorn Row and the Fulton Market, c. 1834.  
Source: Artist William James Bennett; The Seaport Community Coalition



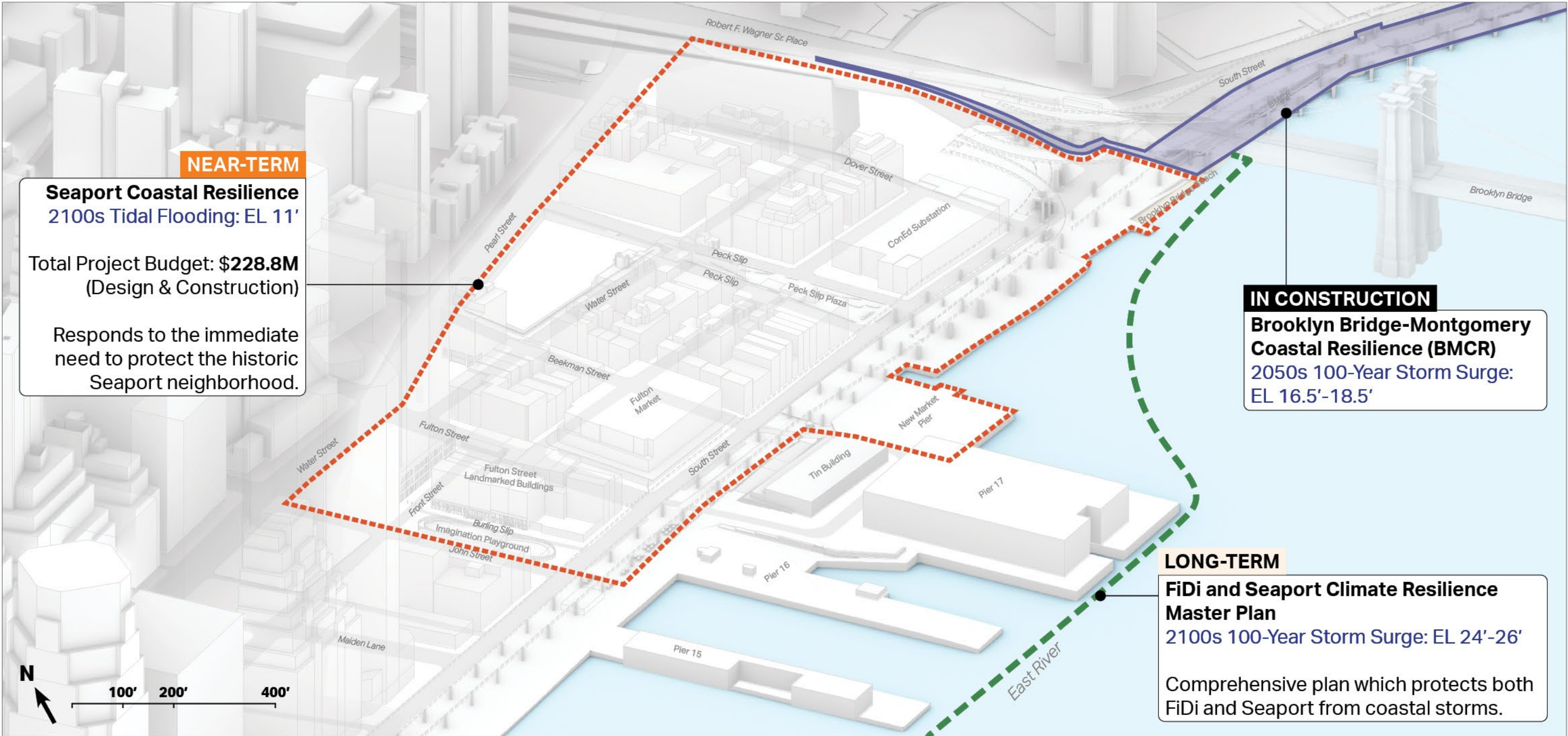
Bottom: Schermerhorn Row today with 2100 tidal flooding levels depicted

# Project Overview | Lower Manhattan Coastal Resilience (LMCR)





# Project Overview | What is Seaport Coastal Resilience?



**NEAR-TERM**

**Seaport Coastal Resilience**  
 2100s Tidal Flooding: EL 11'  
 Total Project Budget: **\$228.8M**  
 (Design & Construction)  
 Responds to the immediate need to protect the historic Seaport neighborhood.

**IN CONSTRUCTION**

**Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)**  
 2050s 100-Year Storm Surge: EL 16.5'-18.5'

**LONG-TERM**

**FiDi and Seaport Climate Resilience Master Plan**  
 2100s 100-Year Storm Surge: EL 24'-26'  
 Comprehensive plan which protects both FiDi and Seaport from coastal storms.

# Project Overview

## Purpose and Need

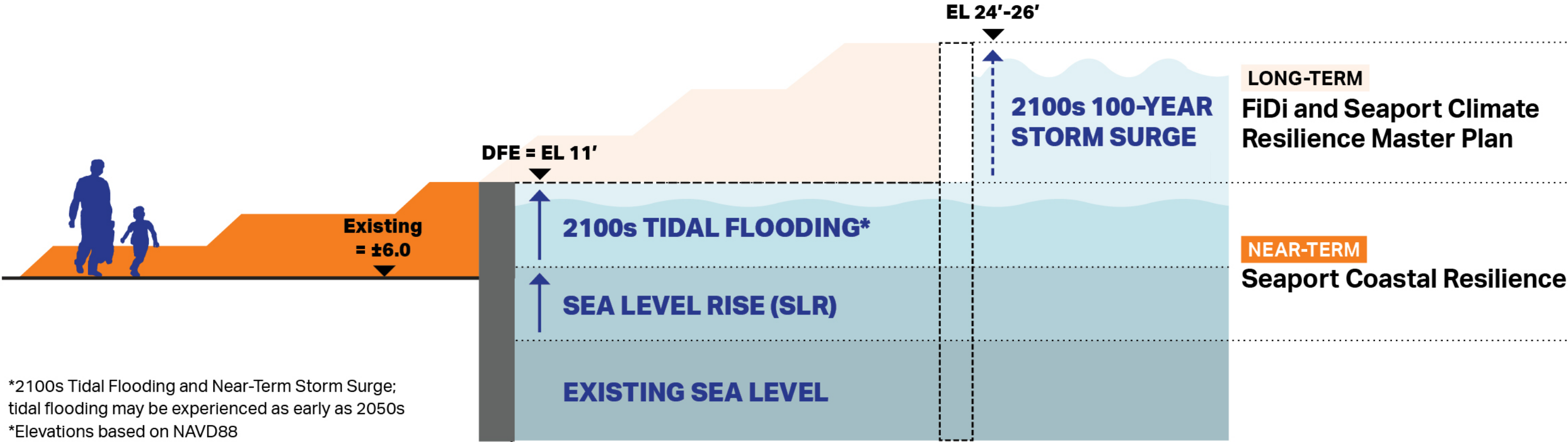
- Protect the Seaport neighborhood from projected Sea Level Rise in 2100
- Achieve a Design Flood Elevation of 11 ft (NAVD88)
- Mitigate impacts from extreme precipitation and the urban heat island effect
- Project is necessary to protect the Seaport from environmental hazards that would cause major disruptions and ultimately render the area unusable

## Additional Goals and Objectives

- Use innovative design and engineering strategies to integrate flood protection into a public esplanade and historic district
- Improve access to and along the waterfront
- Avoid or minimize impacts to existing infrastructure



# Project Overview | Design Flood Elevation



\*2100s Tidal Flooding and Near-Term Storm Surge; tidal flooding may be experienced as early as 2050s

\*Elevations based on NAVD88

# 03



## Walkshop Recap

# Community Engagement Updates

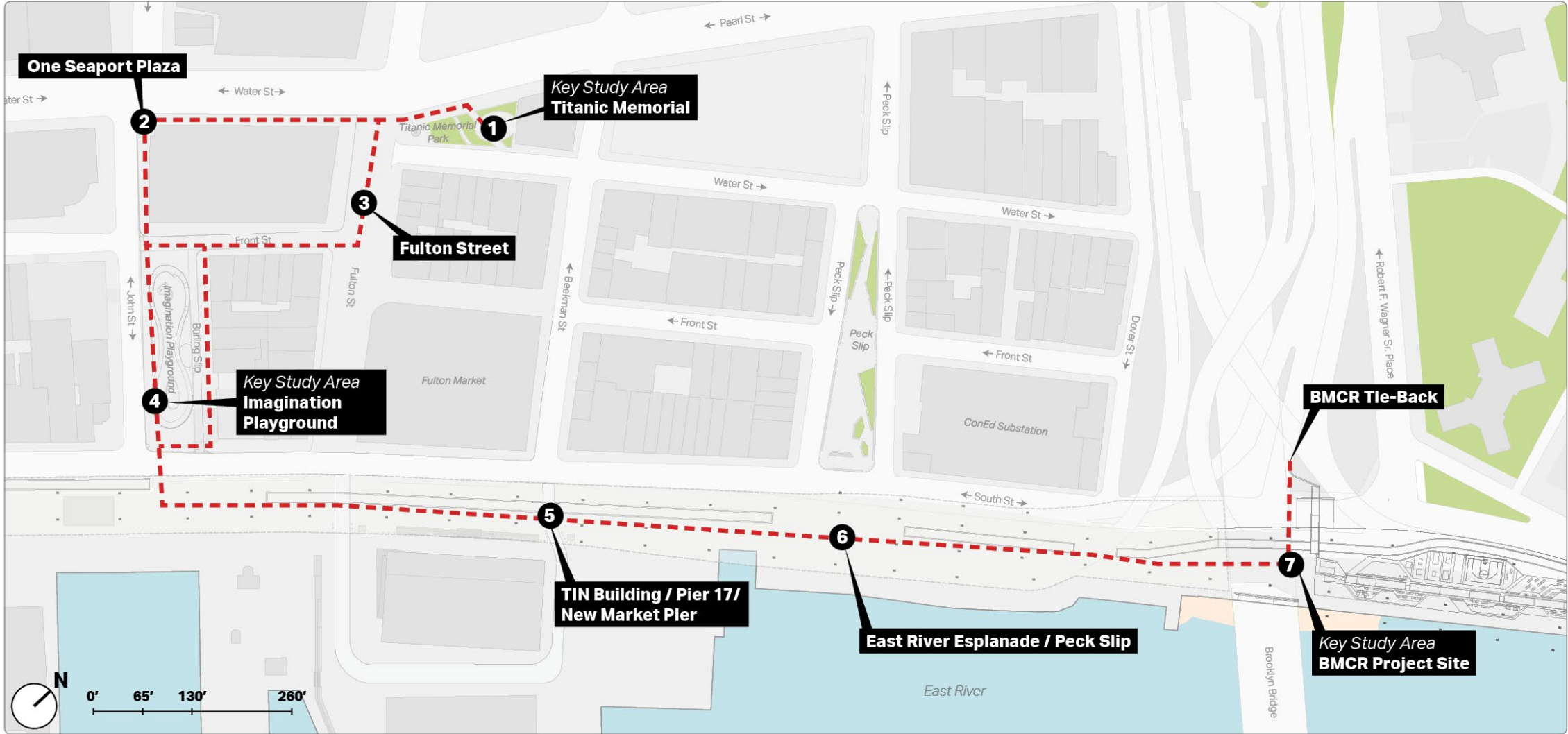
# Walkshop Recap | Overview

## 43 Attendees

- 5 Agencies
  - EDC
  - NYCDOT
  - NYCDEP
  - MOCEJ
  - Parks
- CB1 Members
- Representatives of:
  - Elected Officials
  - South Street Seaport Museum
  - Seaport Coalition

Presentation materials available online at:  
[www.nyc.gov/site/lmcr/progress/seaport-coastal-resilience-project-presentation.page](http://www.nyc.gov/site/lmcr/progress/seaport-coastal-resilience-project-presentation.page)

## Walking Route



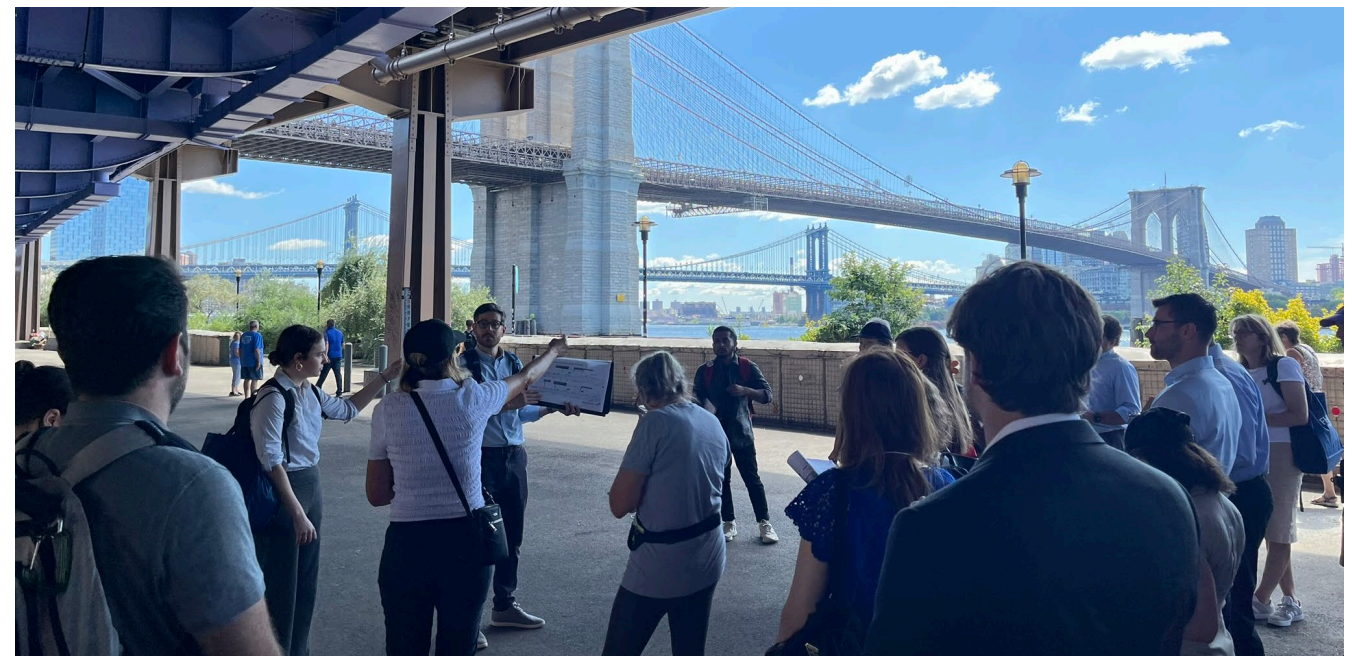
# Walkshop Recap | Key Themes & Questions

## Flooding & Water Table

- Groundwater flooding mitigation
- Storm surge protection

## Community Concerns

- Protection and improvement for Imagination Playground
- Condition of Titanic Memorial trees
- Exclusion of Pier 16 from SPCR
- New Market Pier – do not preclude recreational space or potential docks
- Public realm integration



# Walkshop Recap | Key Themes & Questions

## Construction & Design

- Impact of construction on historic buildings
- Width of flood protection measures
- Construction duration and staging
- Integration with other projects

## Other

- Emergency vehicle access
- Ferry operations
- Coordination with community projects, including proposed Brooklyn Bridge Manhattan Park
- Requests for project area graphics (Front Street)



# Community Engagement Updates | How will this project address sustainability?

## The project is targeting Envision and WEDG certifications:



### What is Envision?

A sustainability framework was developed by ISI (Institute for Sustainable Infrastructure) to assess sustainability, resiliency, and equity in civil infrastructure.



### What is WEDG?

A national rating system recognizing developers and landowners for resilient, sustainable, and accessible waterfront projects.

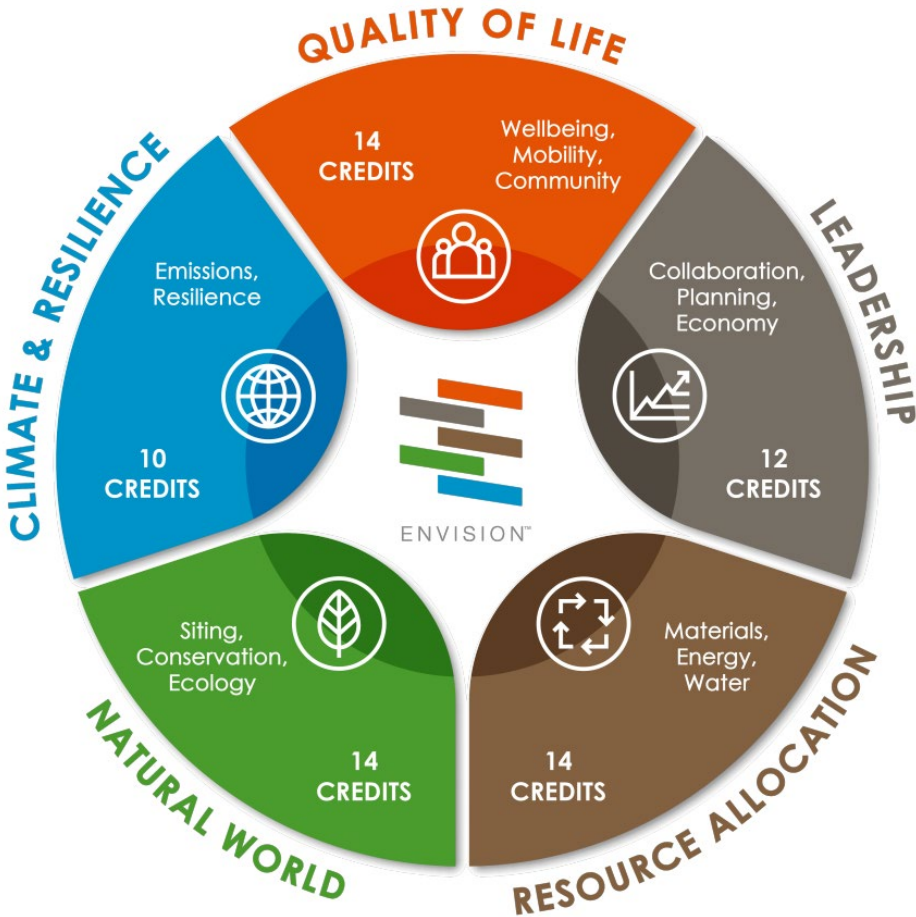
## Past projects that have achieved certifications:



- Envision: Lower Manhattan Coastal Resilience – The Battery
- WEDG: South Battery Park City – Wagner Park
- Both: East Side Coastal Resilience (ESCR)



# Community Engagement Updates | How does this project address sustainability?



**6**  
CATEGORIES

**37**  
CREDITS

**143**  
PERFORMANCE CRITERIA

**CREDITS ARE ORGANIZED INTO SIX BROAD CATEGORIES:**

	<b>Category 0:</b> Site Assessment & Planning
	<b>Category 1:</b> Climate & Hazard Resilience
	<b>Category 2:</b> Community Access & Connections
	<b>Category 3:</b> Edge Composition
	<b>Category 4:</b> Natural Resources & Sustainability
	<b>Category 5:</b> Innovation

# Community Engagement Updates | How does this project address sustainability?

## How does this project align with NYCEDC's Clean and Circular Design and Construction Guidelines?

- Reuse and Recycle concrete and soil
- Use Low-Carbon building materials
- Explore options to reuse existing pavement and other existing materials



# Community Engagement Updates | Project Coordination

## Seaport Community



### Bi-Weekly Meetings



Mayor's Office of Climate & Environmental Justice



NYC Parks

### Meetings on an as-needed basis



### Monthly Meetings



FEMA

## Community Engagement Updates | Does this project protect...

### ...Pier 16?

Pier 16 is outside the scope of this project but included within the scope of the FiDi and Seaport Climate Resilience Master Plan.

### ...New Market Pier?

The demolition and reconstruction of the New Market Pier **structure only** to the design flood elevation level of protection.

### ...Imagination Playground?

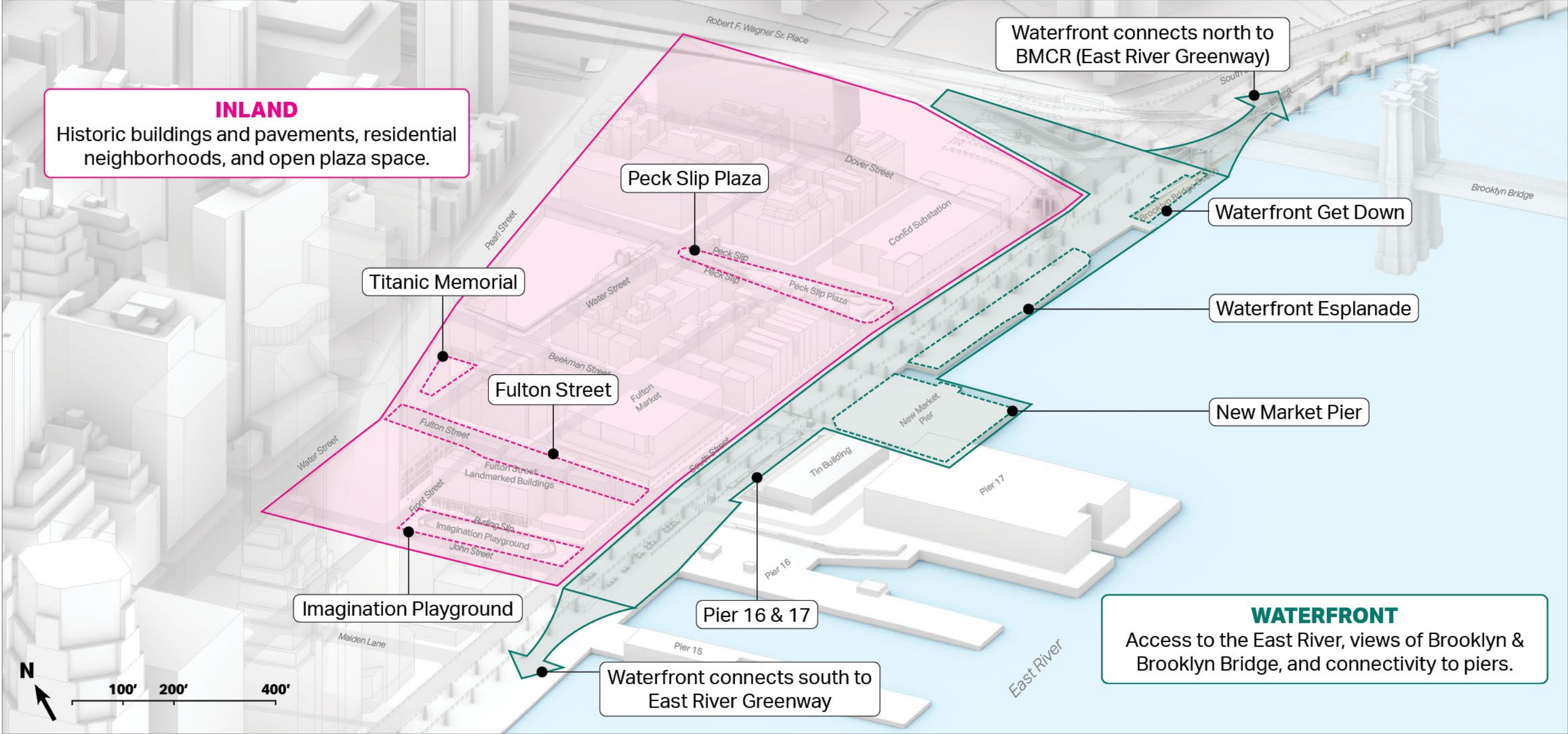
The project team is studying options to protect the existing playground.

# 04

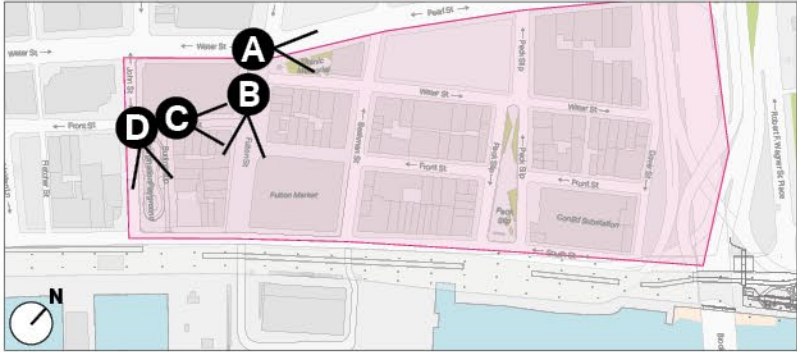


## Flood Alignment Update

# Flood Alignment Update | Two Project Zones



# Flood Alignment Update | Inland Existing Conditions



**A** Titanic Memorial



**B** Fulton Street

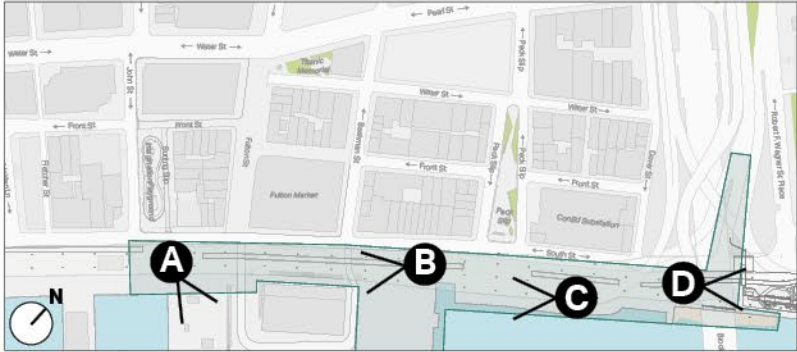


**C** Front Street



**D** Imagination Playground

# Flood Alignment Update | Waterfront Existing Conditions



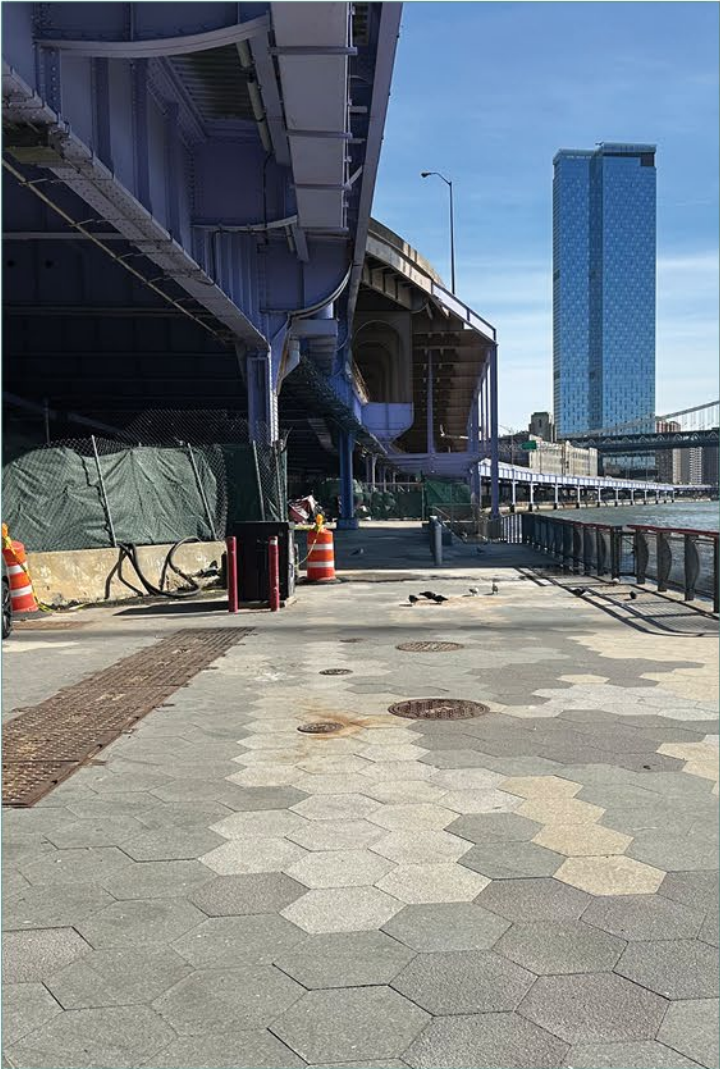
**A** Pier 17



**B** New Market Pier



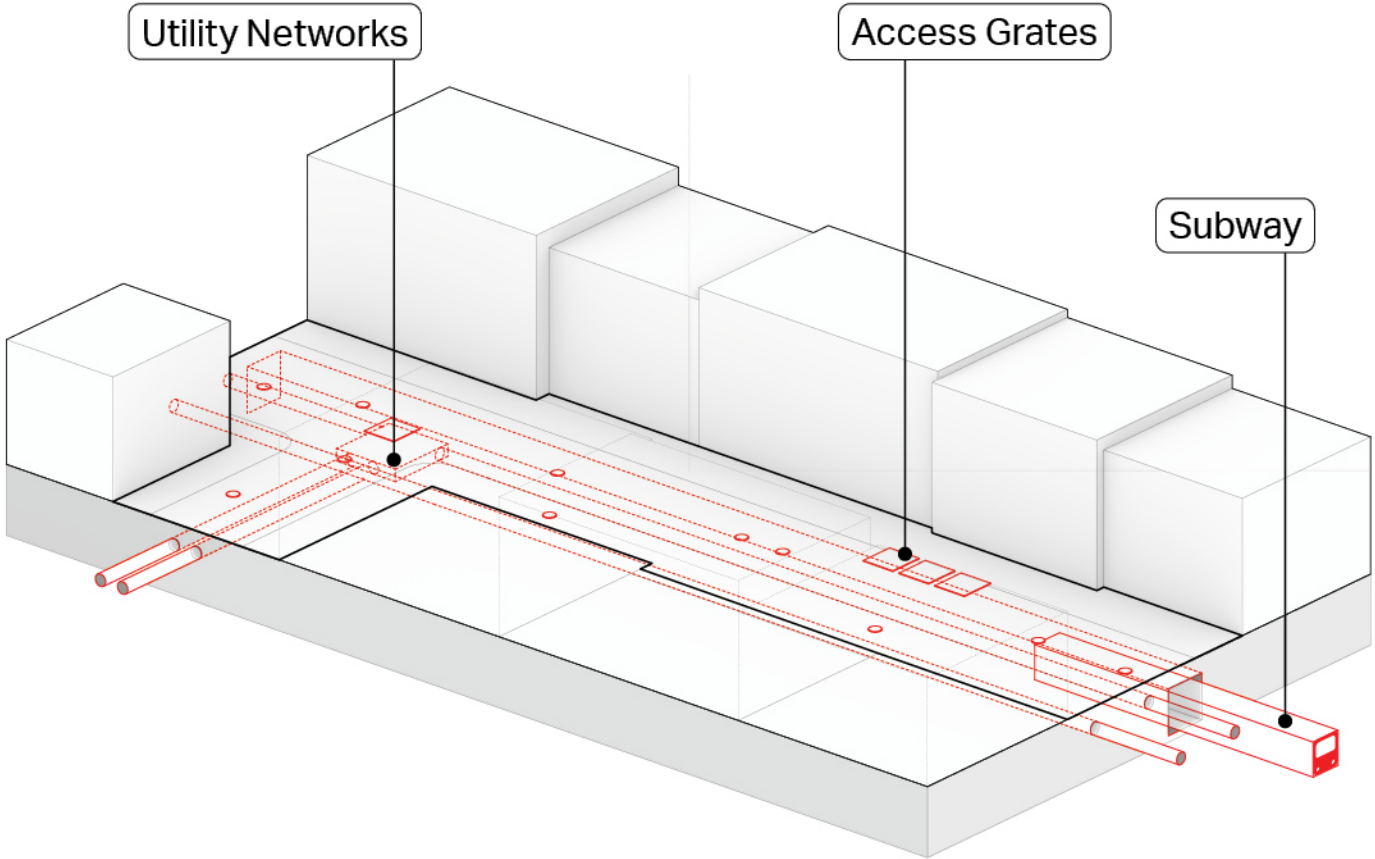
**C** Jerry Driscoll Walk



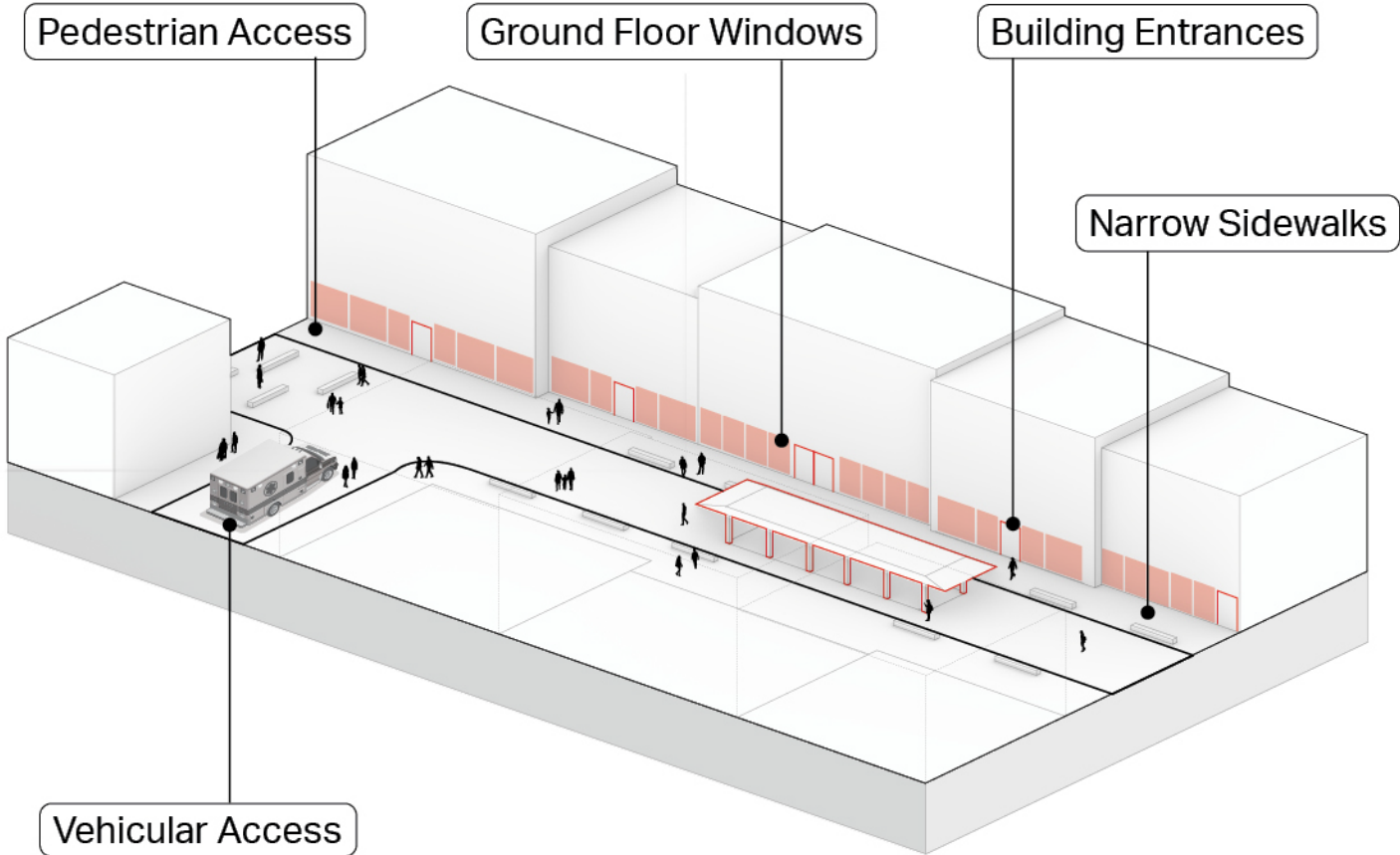
**D** BMCR Tie-in



# Flood Alignment Update | Inland Key Considerations

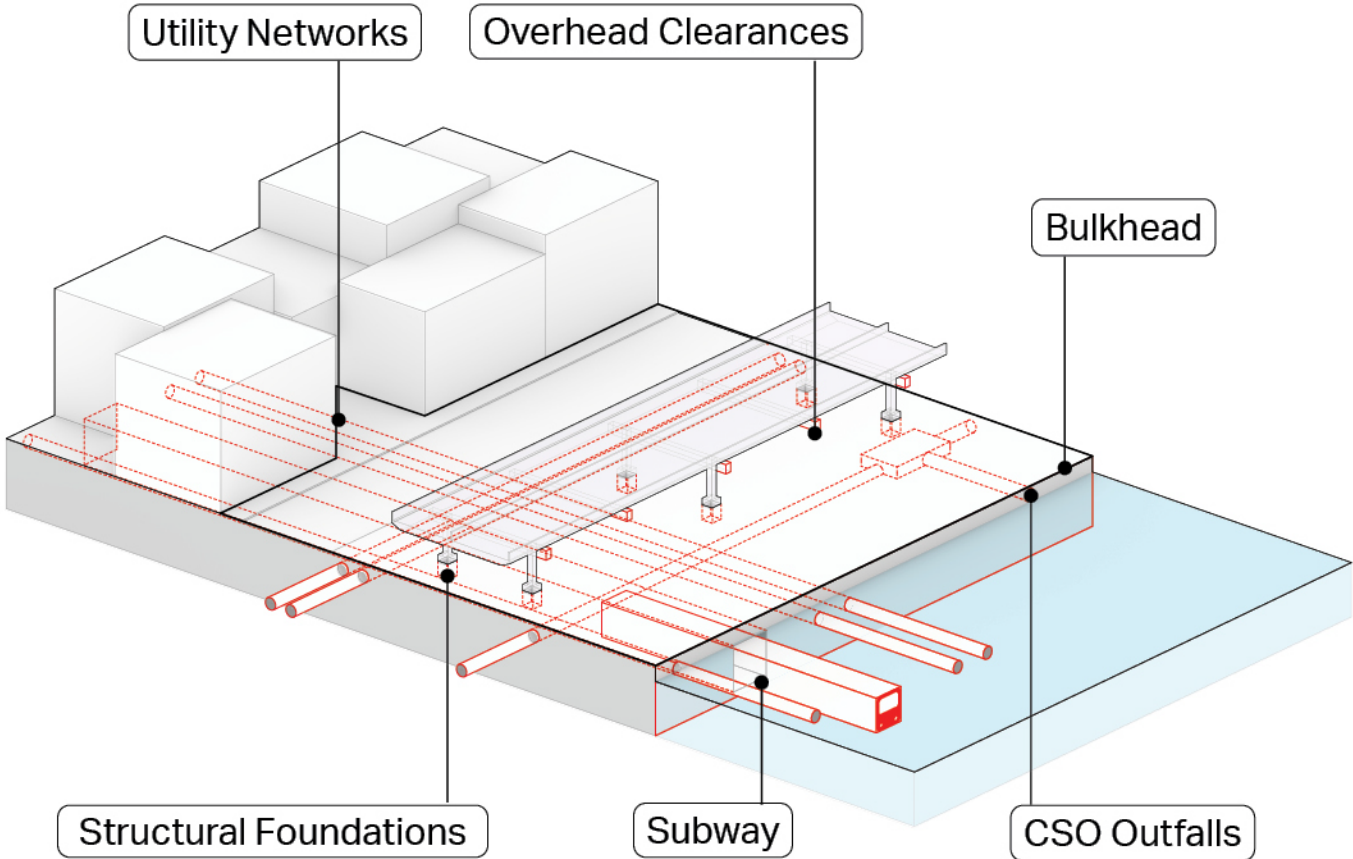


**Subsurface Infrastructure**

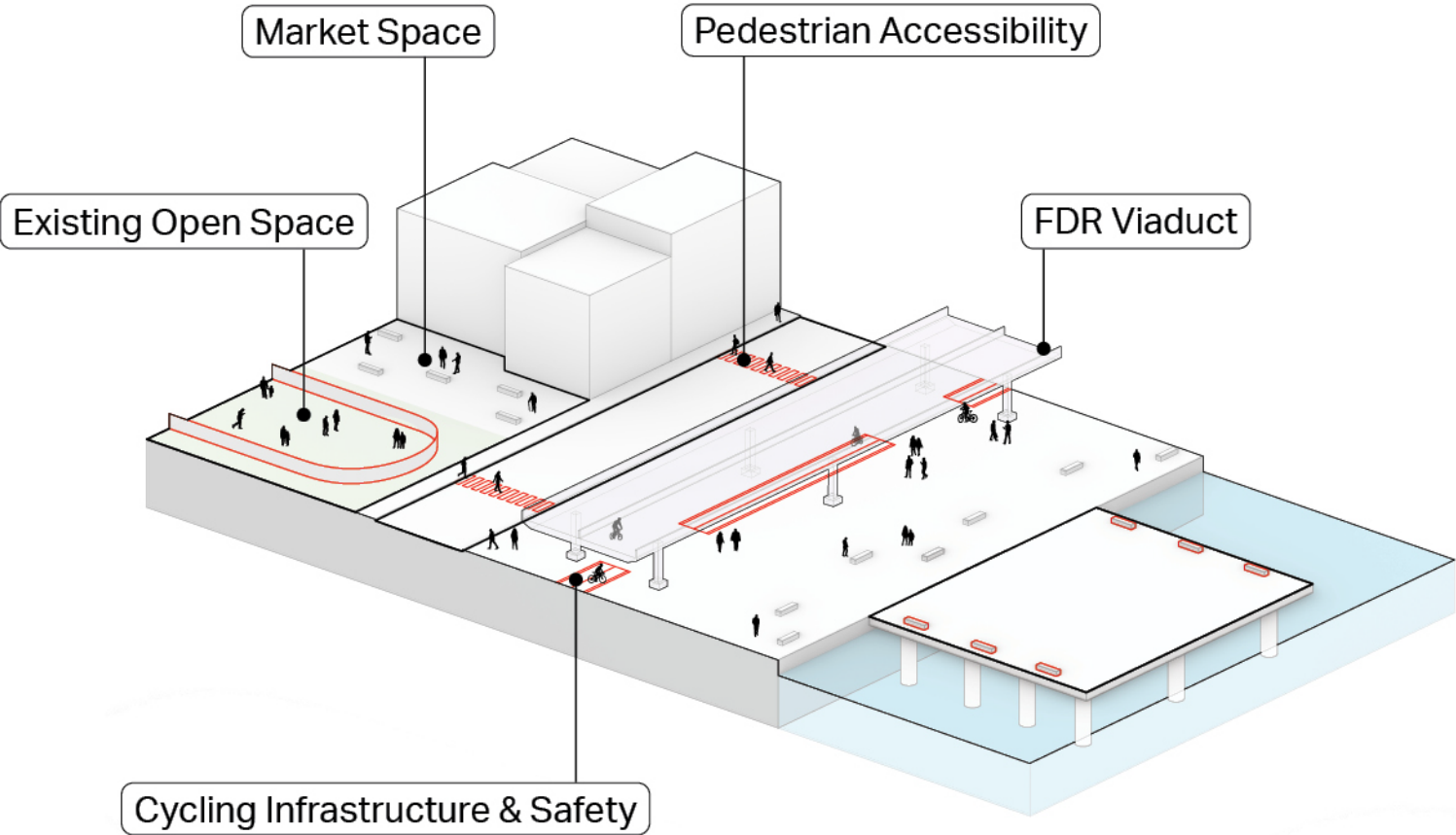


**Circulation & Adjacent Uses**

# Flood Alignment Update | Waterfront Key Considerations

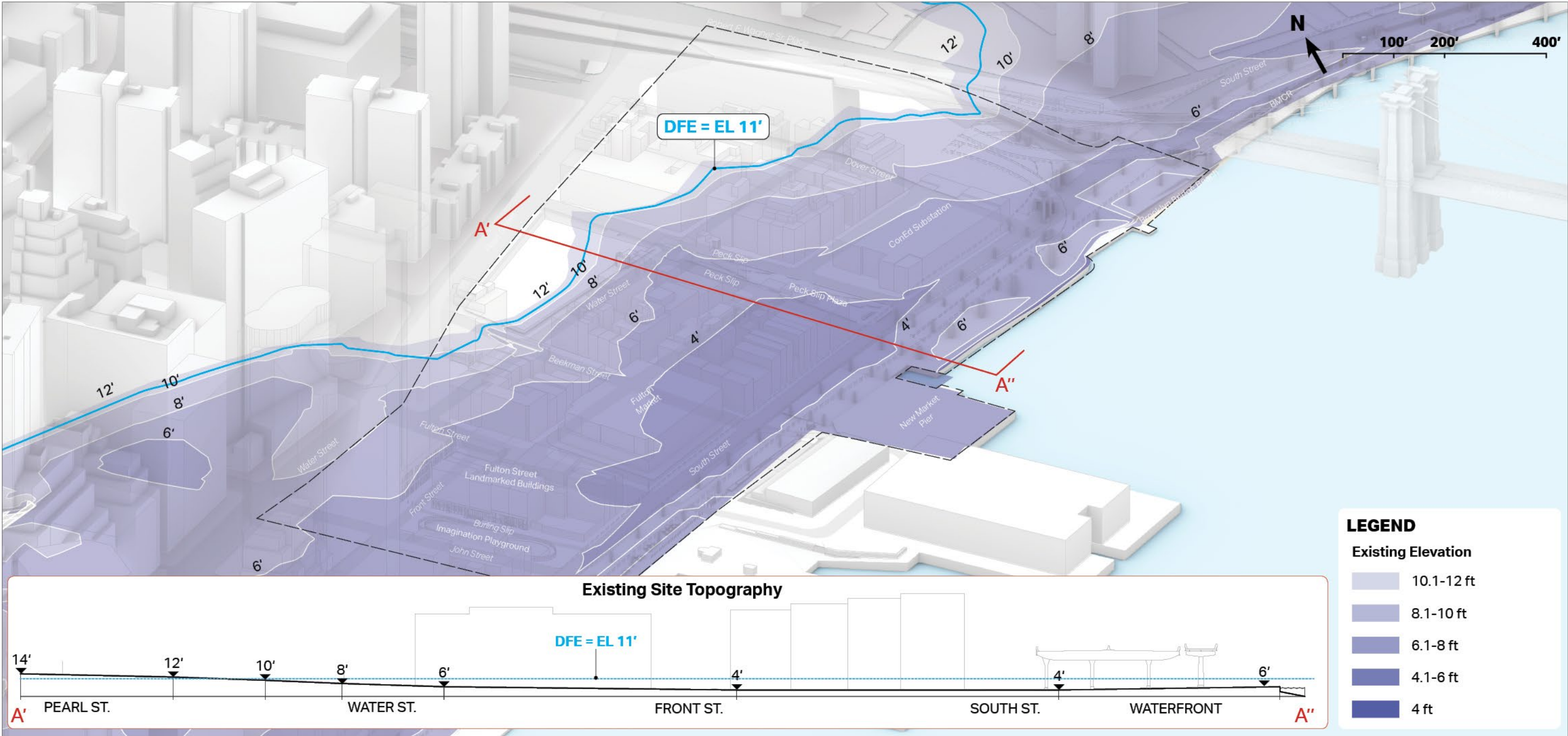


**Subsurface Infrastructure**

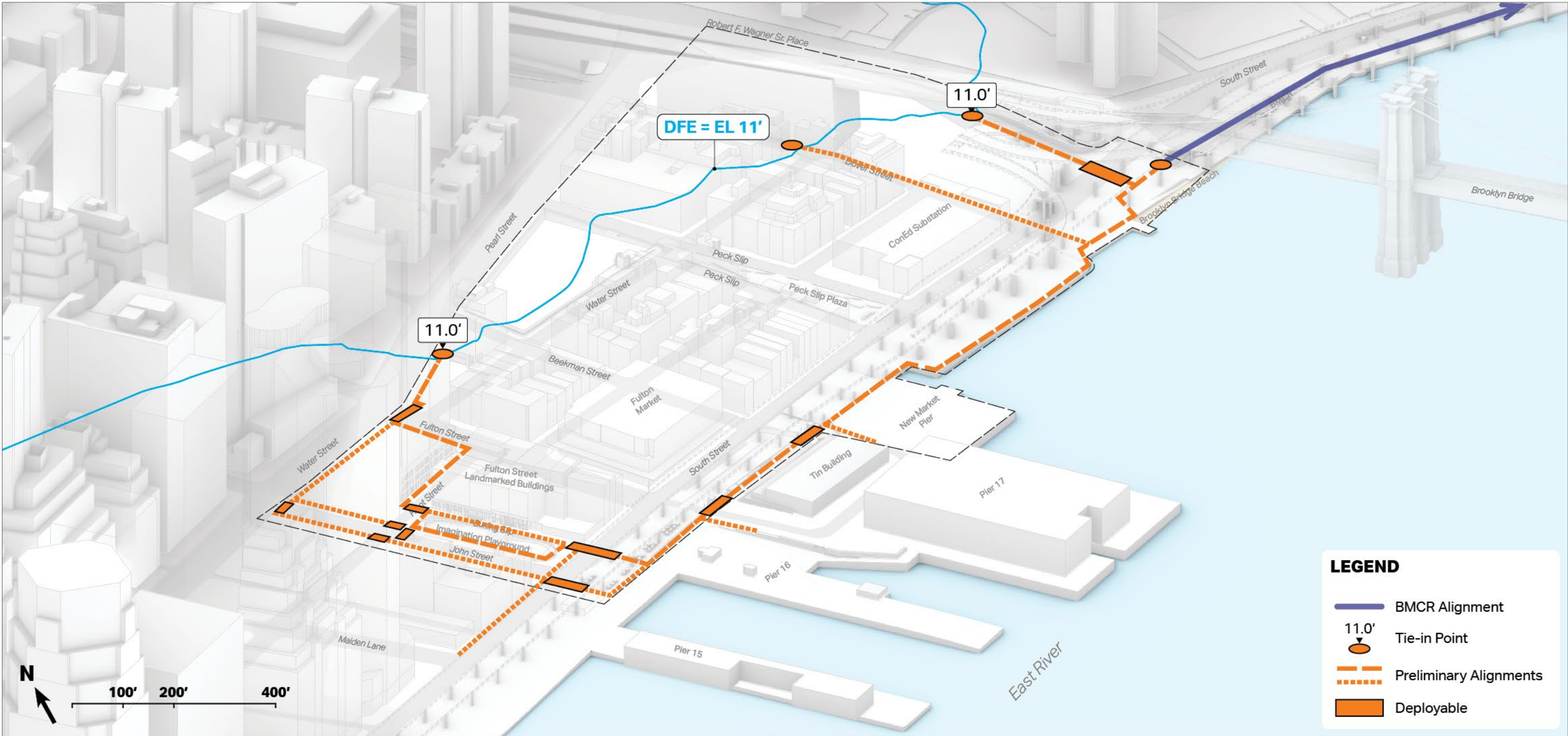


**Circulation & Adjacent Uses**

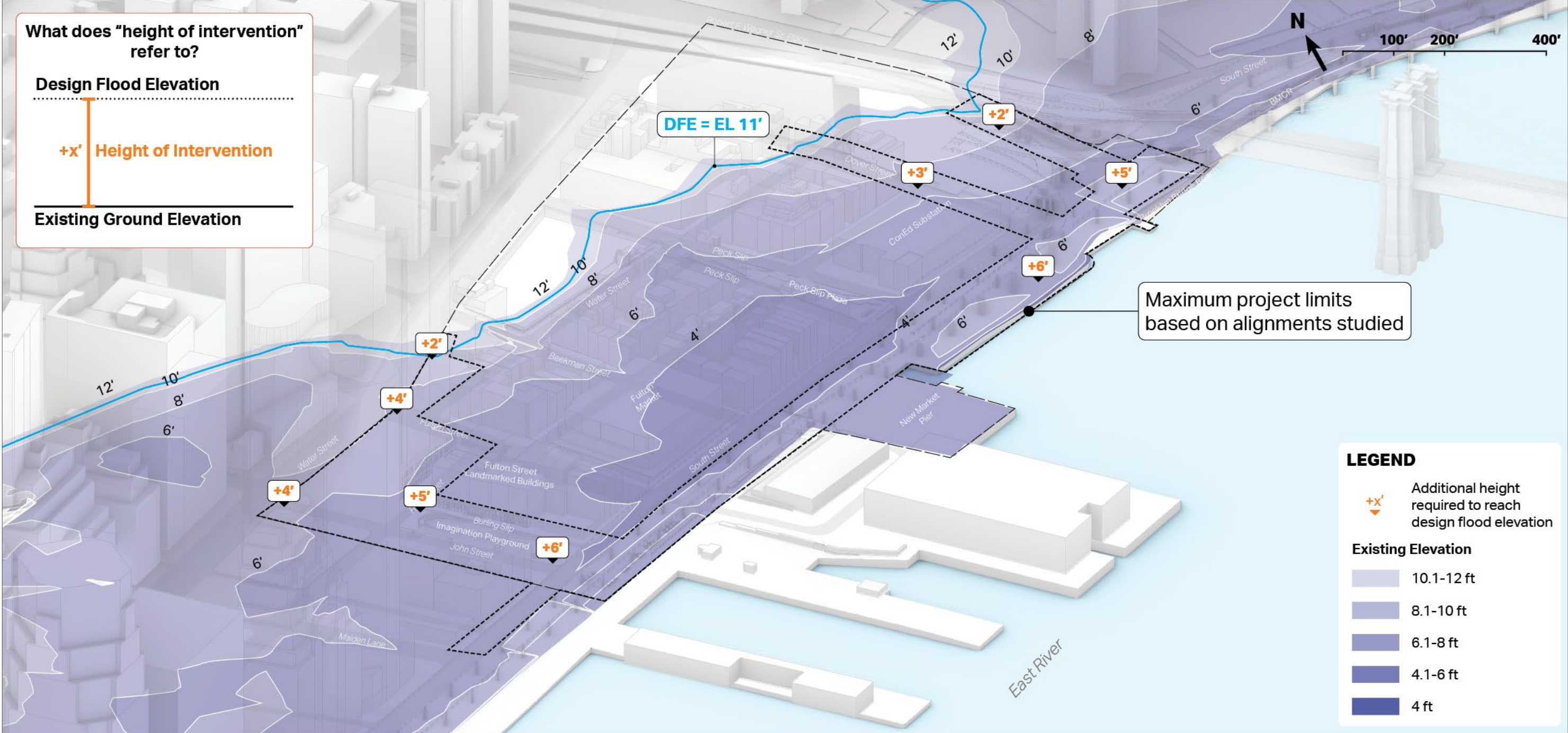
# Flood Alignment Update | Site Topography



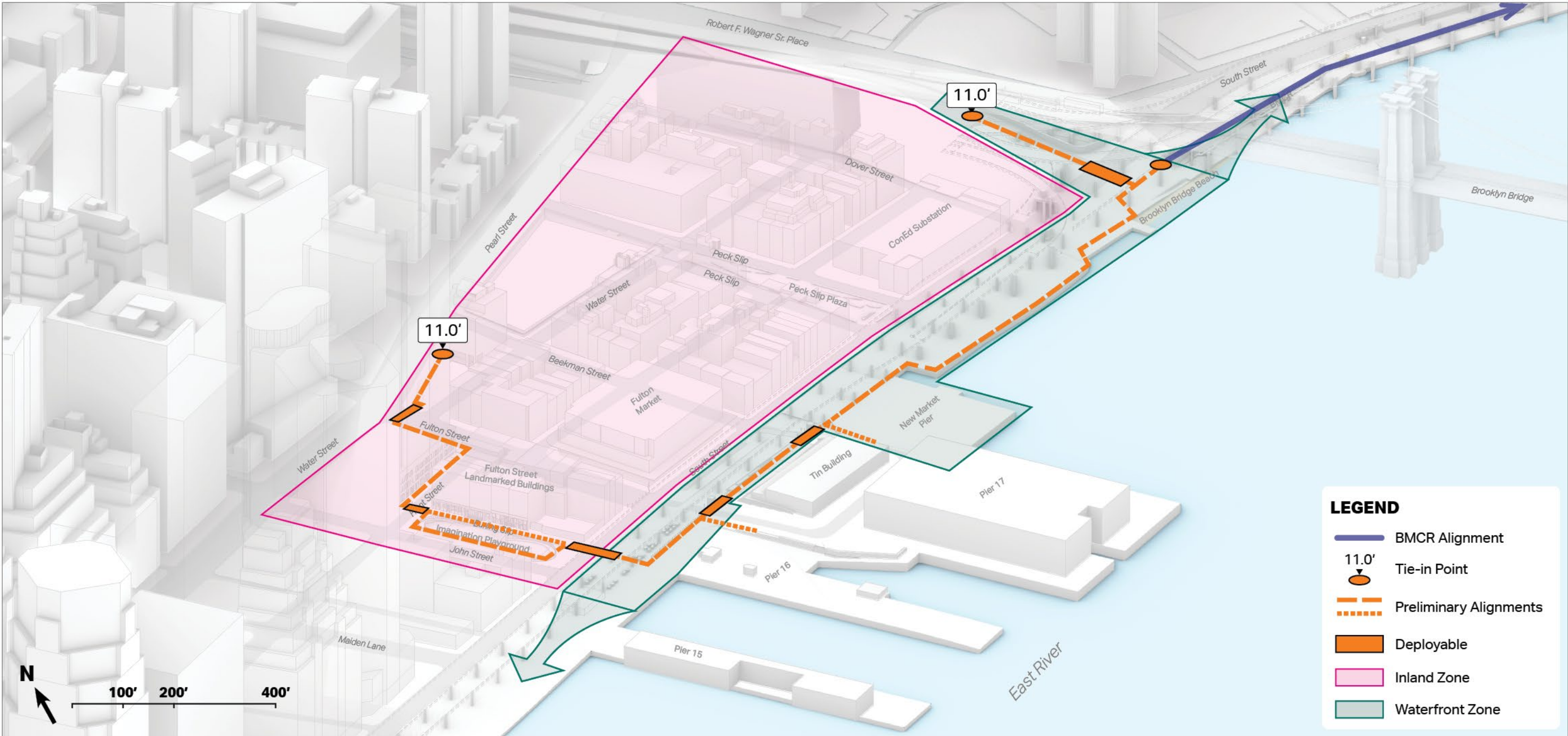
# Flood Alignment Update | Flood Alignments Considered



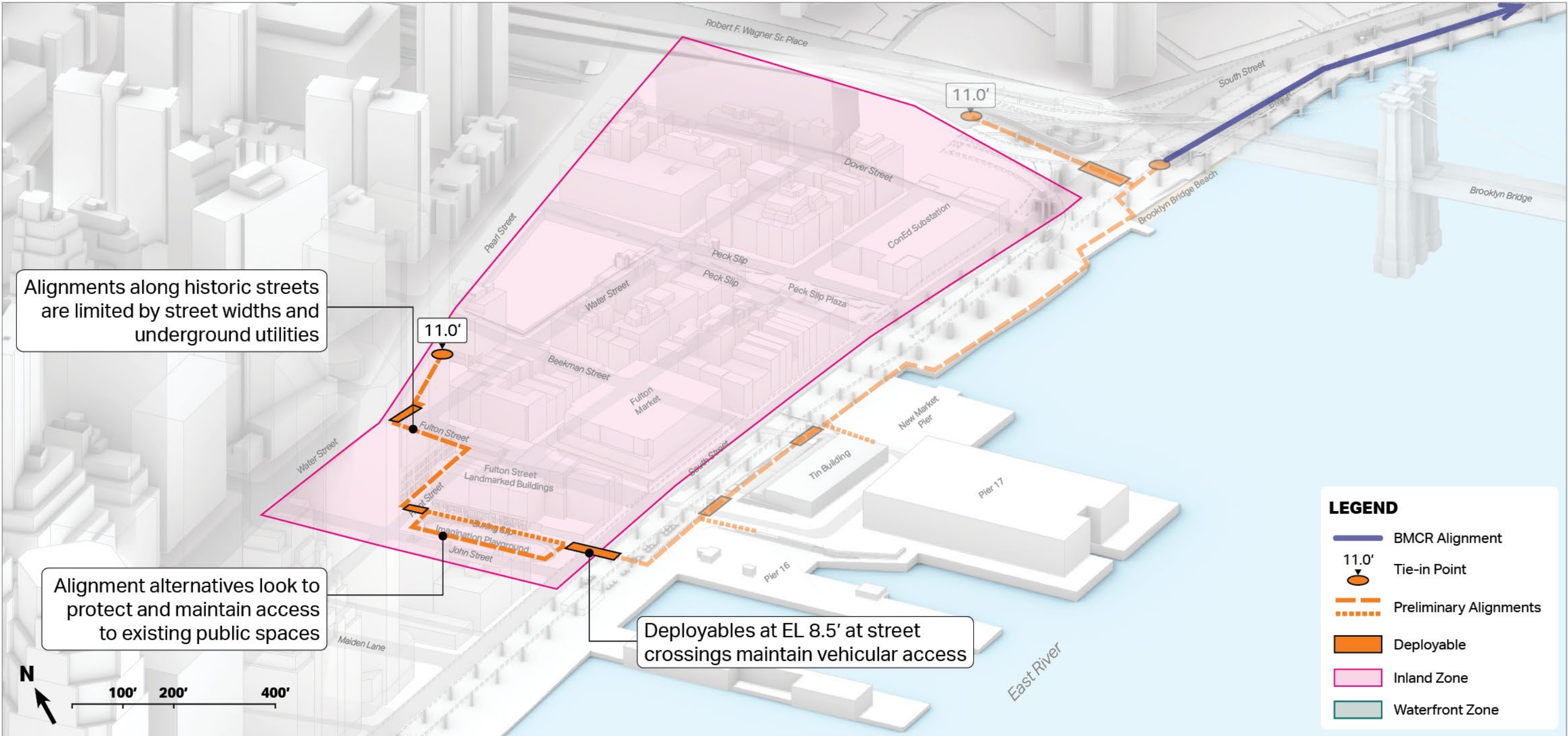
# Flood Alignment Update | Height of Intervention



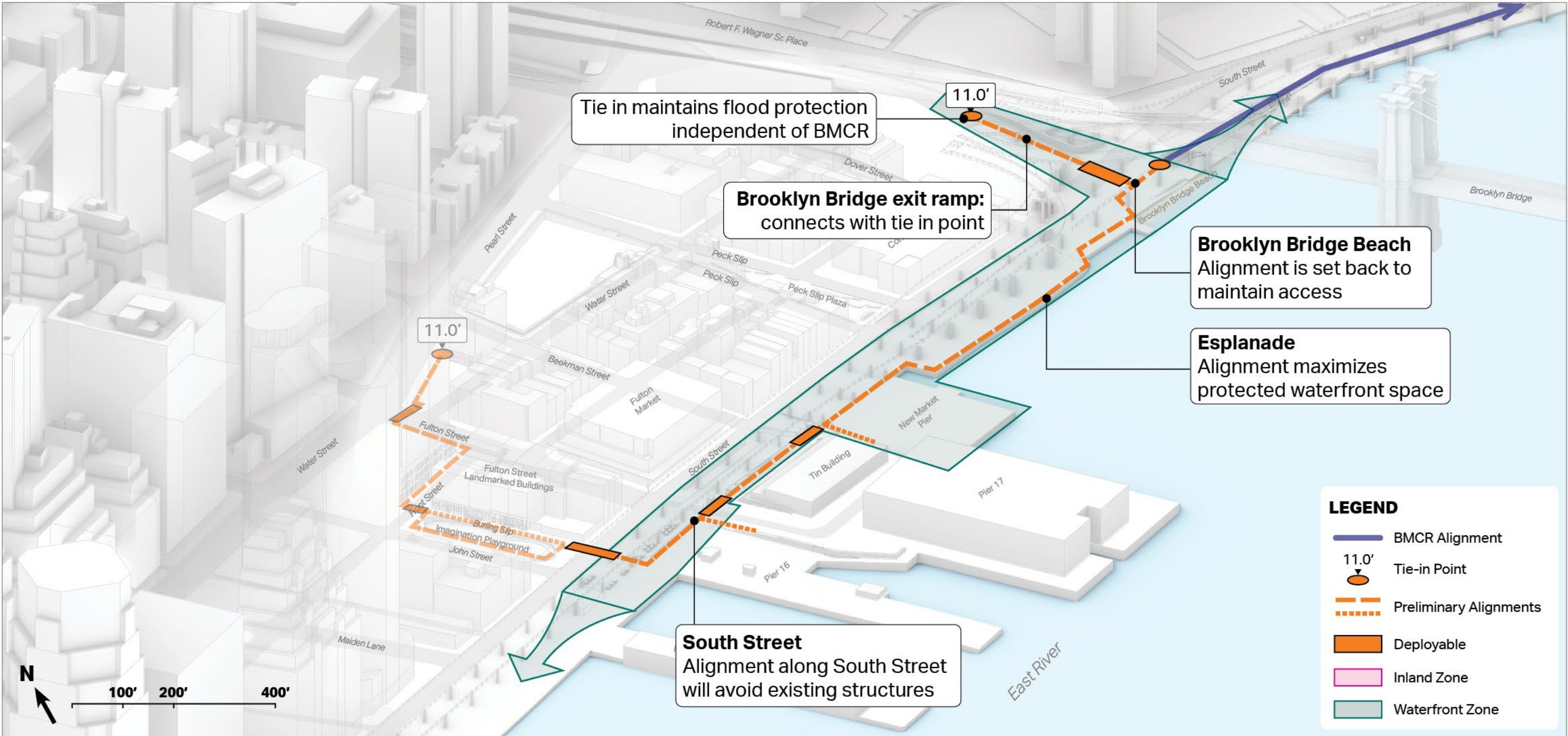
# Flood Alignment Update | Preliminary Flood Alignment



# Flood Alignment Update | Inland Zone

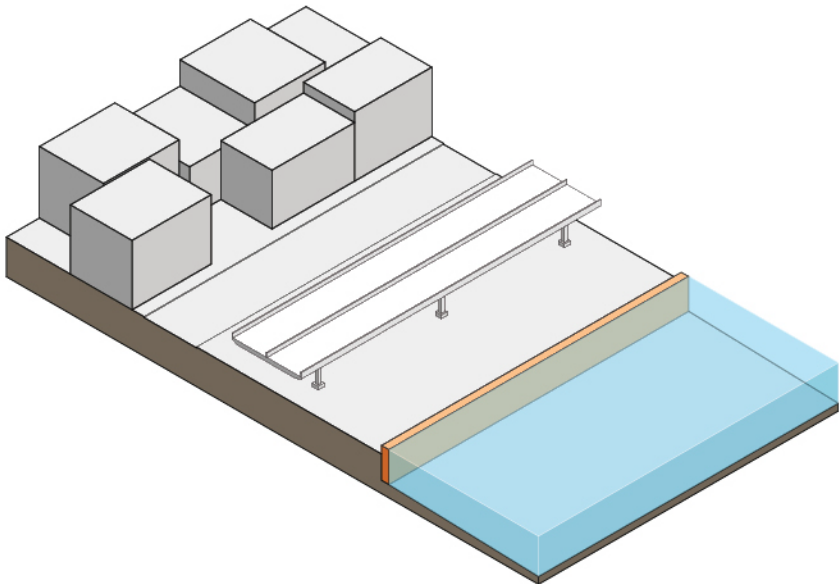


# Flood Alignment Update | Waterfront Zone

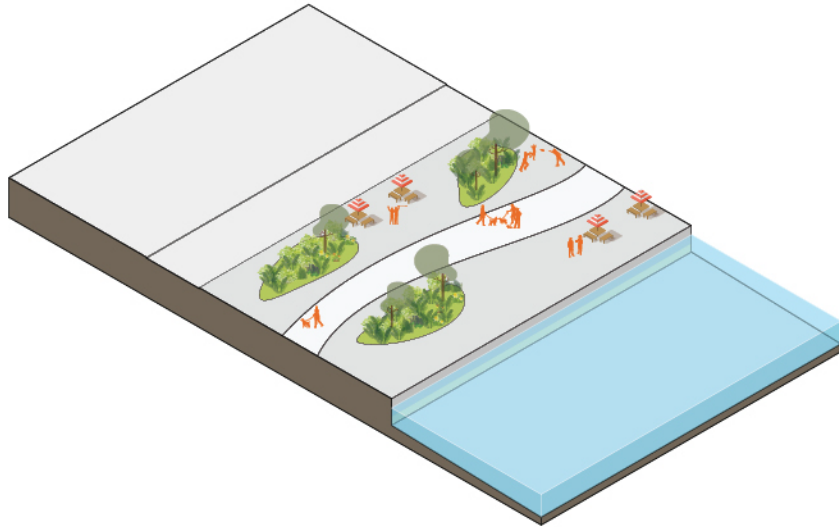




# Flood Alignment Update | Design Approach



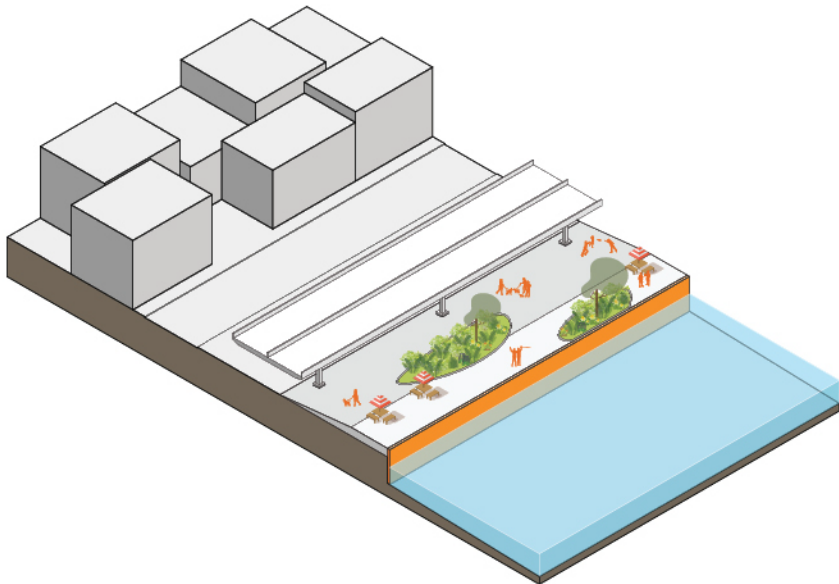
**Flood Infrastructure**



**Placemaking**

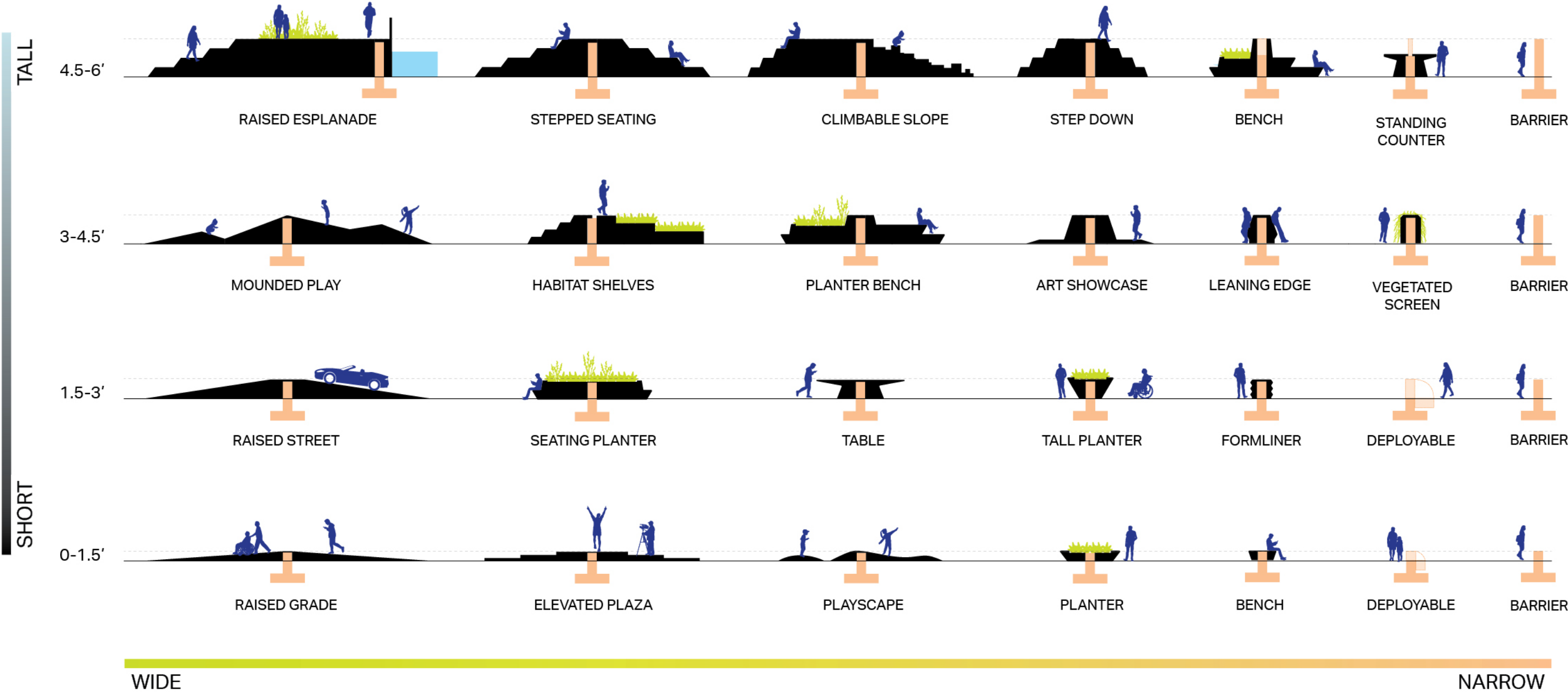
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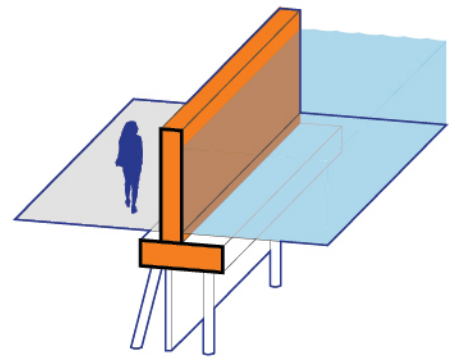


**Multi-Purpose Infrastructure**

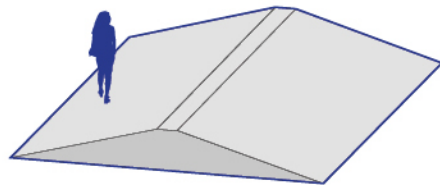
# Flood Alignment Update | Placemaking Design Toolkit



# Flood Alignment Update | Design Flood Alignment

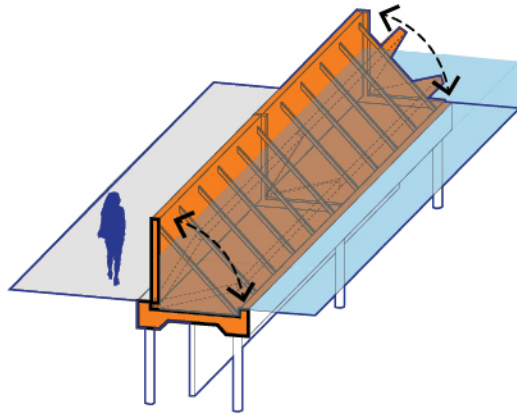


**Flood Barrier**

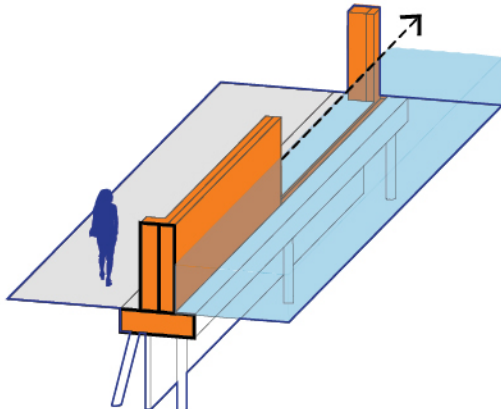


**Raised Grade**

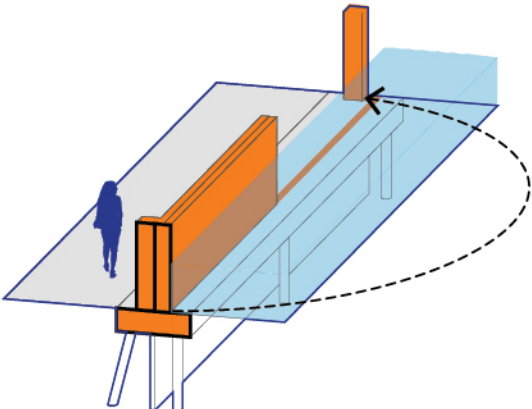
**PASSIVE**



**Flip-Up Gate**



**Roller Gate**



**Swing Gate**

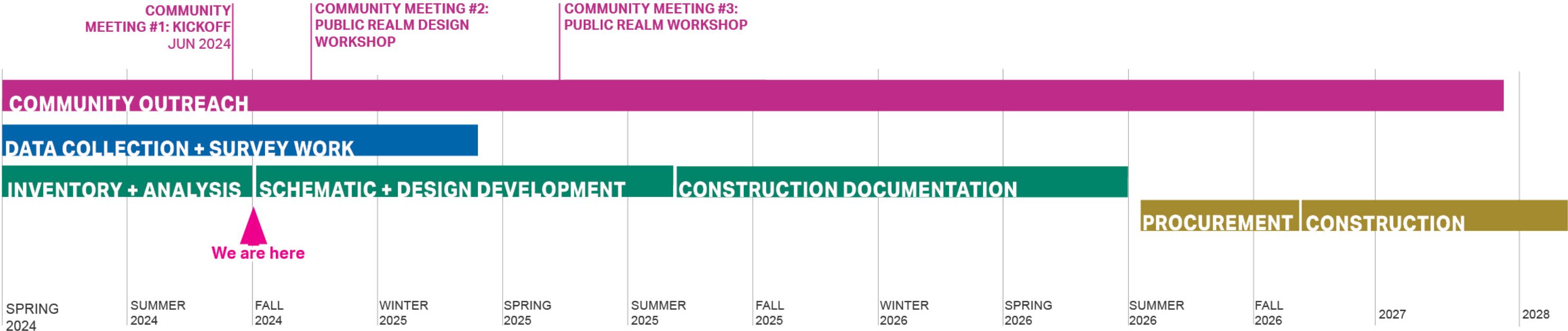
**DEPLOYABLE**

# 05

## Next Steps



# Next Steps | Project Schedule



## DATA COLLECTION + DESIGN (Summer / Fall 2024)

- Existing Drawing Collection
- Surveys (Topographic, Geotechnical, Utility, Bathymetric, Hydraulic)
- Site Inventory and Analysis
- Preliminary Alignment Feasibility Studies
- Coordination with Agencies
- Begin Public Art Process

# Next Steps | Community Outreach

**November** Factsheet/ Newsletter: Project facts and updates in preparation for Community Meeting #2

**November** LMCR Quarterly Update

**December** Community Meeting #2: Alignment Updates & Public Realm Design Workshop

**December/ January** Community Board 1 (Environmental Protection Committee): Share feedback from Community Workshop and design progress

**Spring 2025** Walking Tours/ Pop Up Events

**Spring 2025** Community Meeting #3: Present design progress and receive feedback

