

#ONENYC

NYC
Mayor's Office of
Recovery and Resiliency

NYC
DDC
Department of
Design and
Construction



NYC
Environmental
Protection

EAST SIDE COASTAL RESILIENCY PROJECT

Proposed Action Plan Amendment 13 Public Hearing

April 4, 2017

PROPOSED ACTION PLAN AMENDMENT 13 HEARING

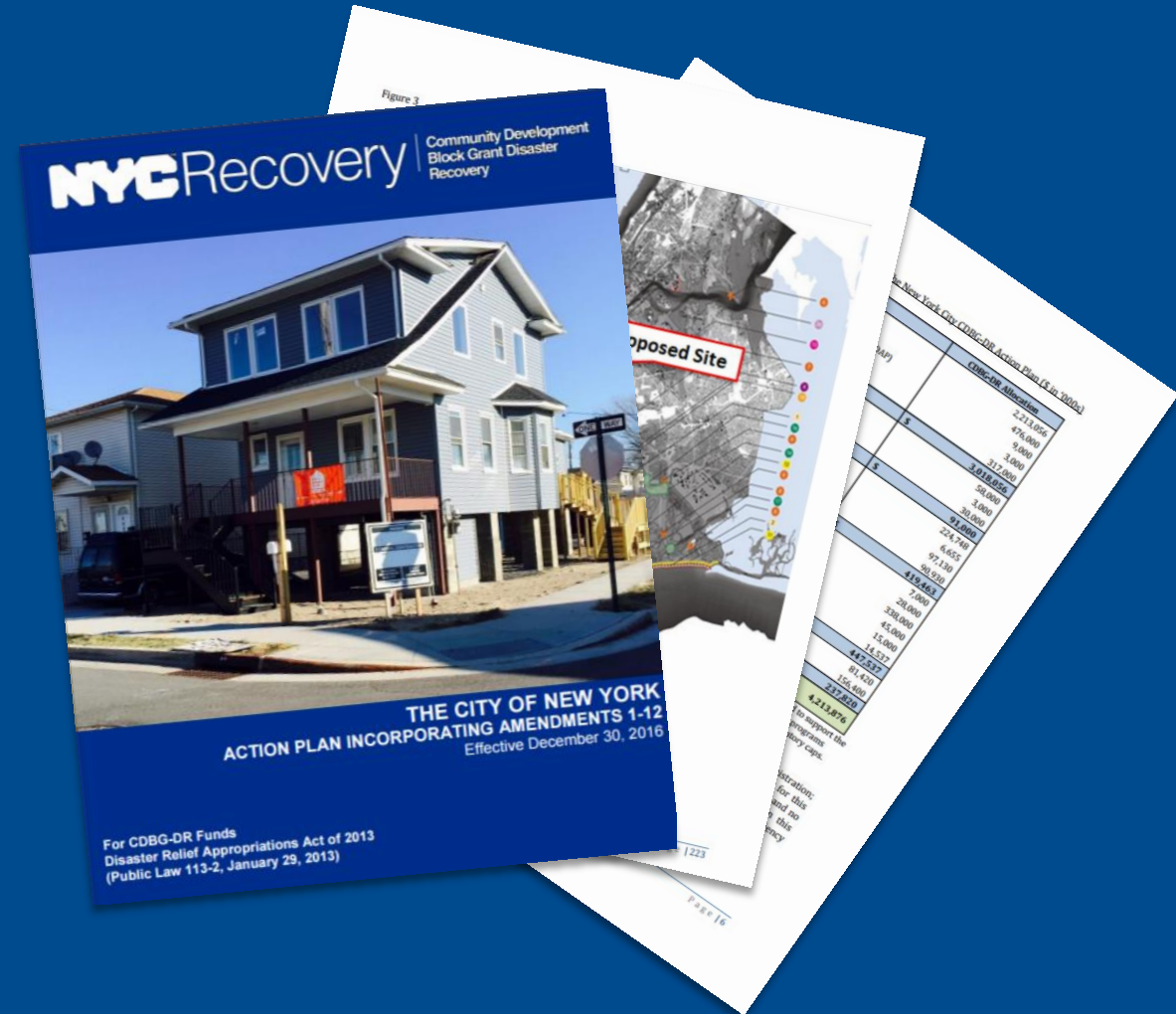
April 4, 2017

- 1. Action Plan Overview**
- 2. ESCR Project Description**
- 3. Public Outreach**
- 4. Implementation Partnerships**
- 5. Funding and Benefit Cost Analysis**
- 6. Comment Period**

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What Is An Action Plan?

- New York City received \$4.2 billion from HUD for Hurricane Sandy disaster recovery
- \$338 million allocated for the East Side Coastal Resiliency (ESCR) Project
- The Action Plan describes the City's plan for these funds



Why Are We Here Tonight?

- Rebuild By Design (RBD) was an international resiliency competition; NYC was one of the recipients of the award
- Community engagement is a critical component of that process
- Per HUD requirements, an Action Plan Amendment for the RBD ESCR Project is being completed to identify project updates
- The ESCR Project has evolved since Substantial Amendment 8A (February 13, 2015) and 8B (April 13, 2015)
- Proposed Action Plan Amendment 13 describes these updates
- Action Plan Amendments are subject to public review prior to HUD approval

COMMENT PROCESS

At the hearing tonight

- Oral and written comments may be given at the public hearing today
- Please limit your comments to **3 MINUTES**
- If you wish to make an oral statement on the record, fill out a speaker card
- Speakers will be called in the order submitted, starting with elected officials
- Written comment cards are also available

East Side Coastal Resiliency Project

Proposed Action Plan Amendment Hearing

April 4th, 2017
Manny Cantor Center
197 East Broadway

Please use this comment form to let us know your thoughts.
These comments will become part of the official record.

Name (required): _____

Organization/Affiliation: _____

Street Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Telephone: _____ **Email:** _____

Comments: _____

Please leave this form with us today or submit any time during the comment period, which ends on **April 24, 2017**, to the contact noted below:

Calvin Johnson, Assistant Director CDBG-DR
New York City Office of Management and Budget
255 Greenwich Street – 8th Floor
New York, New York 10007
Fax: 212-788-6292
Email: CDBG-DRenviro@omb.nyc.gov

Additional comments may be recorded on the back of this page.

NYC Deputy Office of
Resilience and Recovery
100-10 107th Street
#OneNYC

DOE Department of
Design and
Construction

NYC Parks

NYC Office of Management
and Budget

NEW YORK CITY
DOT

NYC
Environmental
Protection

COMMENT PROCESS

Online & By Mail

- Comments accepted through **APRIL 24, 2017**
- Proposed CDBG-DR Action Amendment 13 and public commenting forms are available at <http://www.nyc.gov/cdbg>
- Written comments may also be directed by mail to:

Calvin Johnson
Assistant Director, CDBG-DR
NYC Office of Management and Budget
255 Greenwich Street, 8th Floor
New York, NY 10007

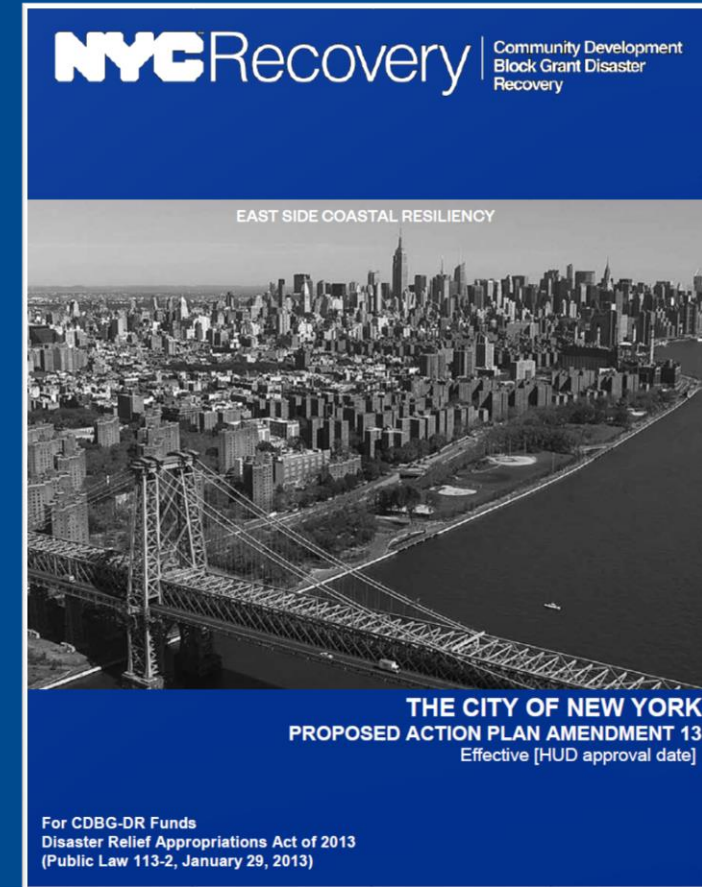
The screenshot shows the NYC Recovery website. The header includes the NYC logo, 'NYC Recovery' text, and navigation links for 'Community Development', 'Block Grant Disaster', and 'Recovery'. A search bar is visible in the top right. The main content area is titled 'Proposed Action Plan Amendments' and features a section for 'PROPOSED ACTION PLAN 13'. The text describes a proposed amendment to the plan for \$4.21 billion in Federal disaster aid from HUD to help with recovery from Hurricane Sandy. It details a project on the East Side Coastal Resiliency project, including a Benefit Cost Analysis (BCA) and a description of the proposed project area. The amendment includes alternative designs like berms, floodwalls, and deployable systems. A 'Quick Links' sidebar on the right lists various resources like 'NYC Recovery', 'NYC Special Initiative for Rebuilding and Resiliency', and 'FEMA'. At the bottom, there is a 'Get Involved' section with a 'HURRICANE SANDY RELIEF EFFORTS' banner and an 'NYC Service' logo.

What Happens to Our Comments?

- All comments shall be reviewed and a City response will be incorporated into the City's Responses to Public Comments document
- A summary of the comments and responses will be submitted to HUD for approval along with the revised Action Plan Amendment 13
- The revised Action Plan Amendment 13 will be posted at <http://www.nyc.gov/cdbg>

What Does The Proposed Action Plan Amendment Contain?

- Project Description
- Implementation Partnerships
- Outreach Plan
- Project Timeline
- Benefit Cost Analysis



Where Can I Find the Proposed Action Plan Amendment?

- Hard copies available today
- Proposed Action Plan Amendment 13 and public commenting forms are available at <http://www.nyc.gov/cdbg>

- Hard copy for reference:

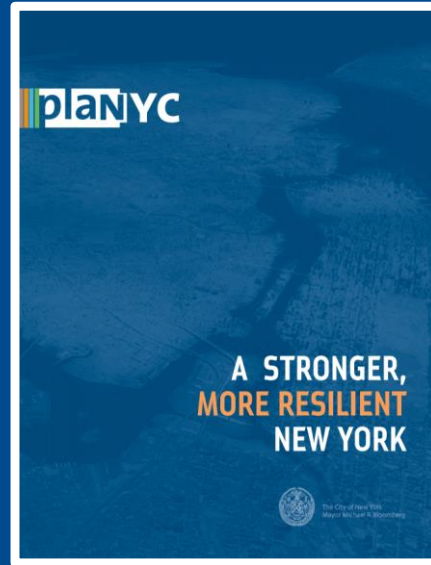
NYC OMB
255 Greenwich Street, 8th Floor
New York, NY 10007

The screenshot shows the NYC Recovery website. The header includes the NYC logo, 'NYC Recovery', and 'Community Development Block Grant Disaster Recovery'. Navigation links include 'Home', 'Proposed Action Plan Amendments', 'Approved Action Plan', 'HUD Quarterly Performance Reports', 'Contracts and Procurement', 'Public Hearings Information', 'Environmental Notices', 'National Disaster Resilience Competition', 'Job Opportunities', and 'Contact Us'. The main content area is titled 'Proposed Action Plan Amendments' and features a section for 'PROPOSED ACTION PLAN 13'. The text describes a proposed amendment to the plan for the \$4.21 billion in Federal disaster aid from HUD to help with recovery from Hurricane Sandy. It details the proposed project area along Montgomery Street and East 25th Street, including a flood protection system with berms, floodwalls, and deployable systems. It also mentions improvements to waterfront open space resources like East River and Stuyvesant Cove Parks. A 'Quick Links' sidebar on the right lists various resources like NYC Recovery, NYC Special Initiative for Rebuilding and Resiliency, and FEMA. A 'Get Involved' section at the bottom right features a banner for 'HURRICANE SANDY RELIEF EFFORTS' and the 'NYC Service' logo.

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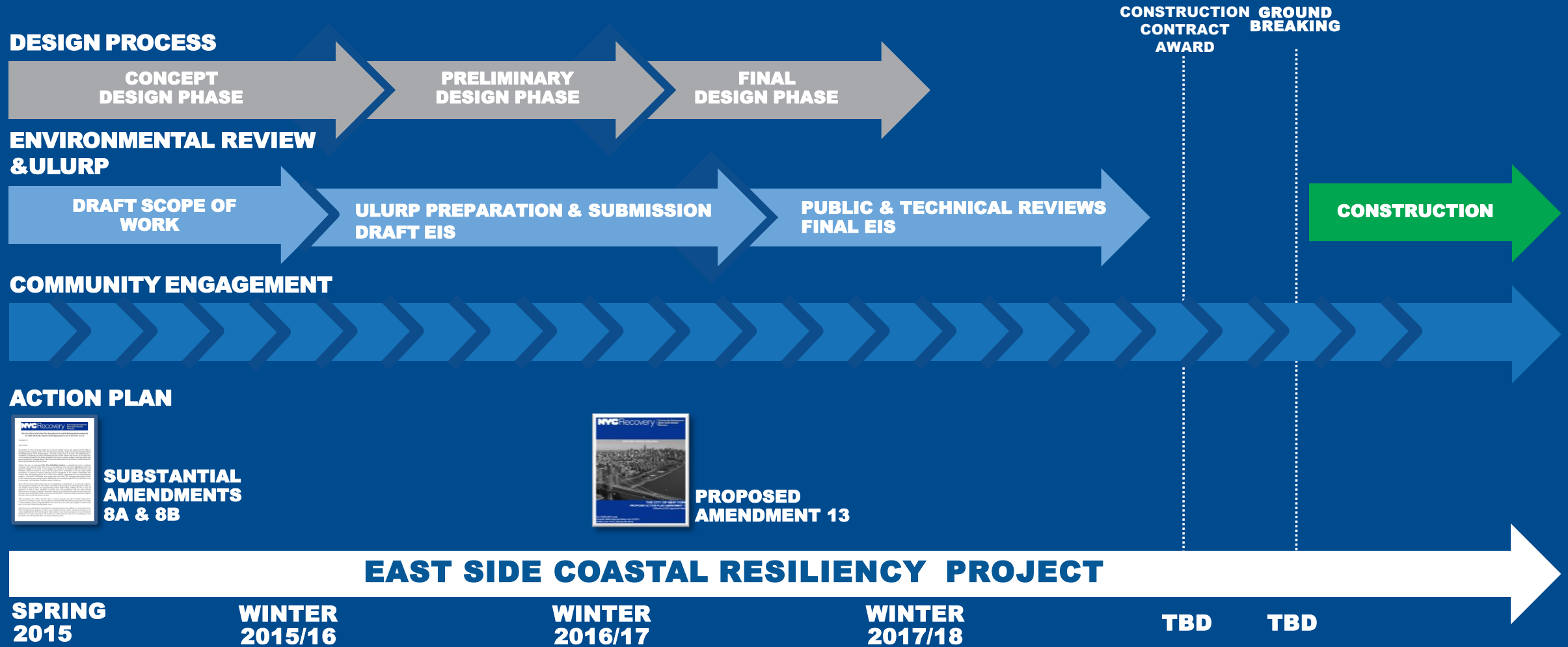
EAST SIDE COASTAL RESILIENCY

Context



EAST SIDE COASTAL RESILIENCY

Project Timeline



EAST SIDE COASTAL RESILIENCY

Project Goals

- Provide an integrated flood protection system to help minimize flooding; minimize use of closure structures and deployables
- Improve waterfront open spaces and access
- Respond quickly to the urgent need for increased flood protection and resiliency
- Achieve implementation milestones and project funding allocations as established by HUD



EAST SIDE COASTAL RESILIENCY

Project Approach: Designing Social Infrastructure



 PEOPLE



 RESILIENCY
INFRASTRUCTURE

CURRENT AND FUTURE RISKS

2015 and 2050's FEMA 100-YEAR FLOOD HAZARD AREAS

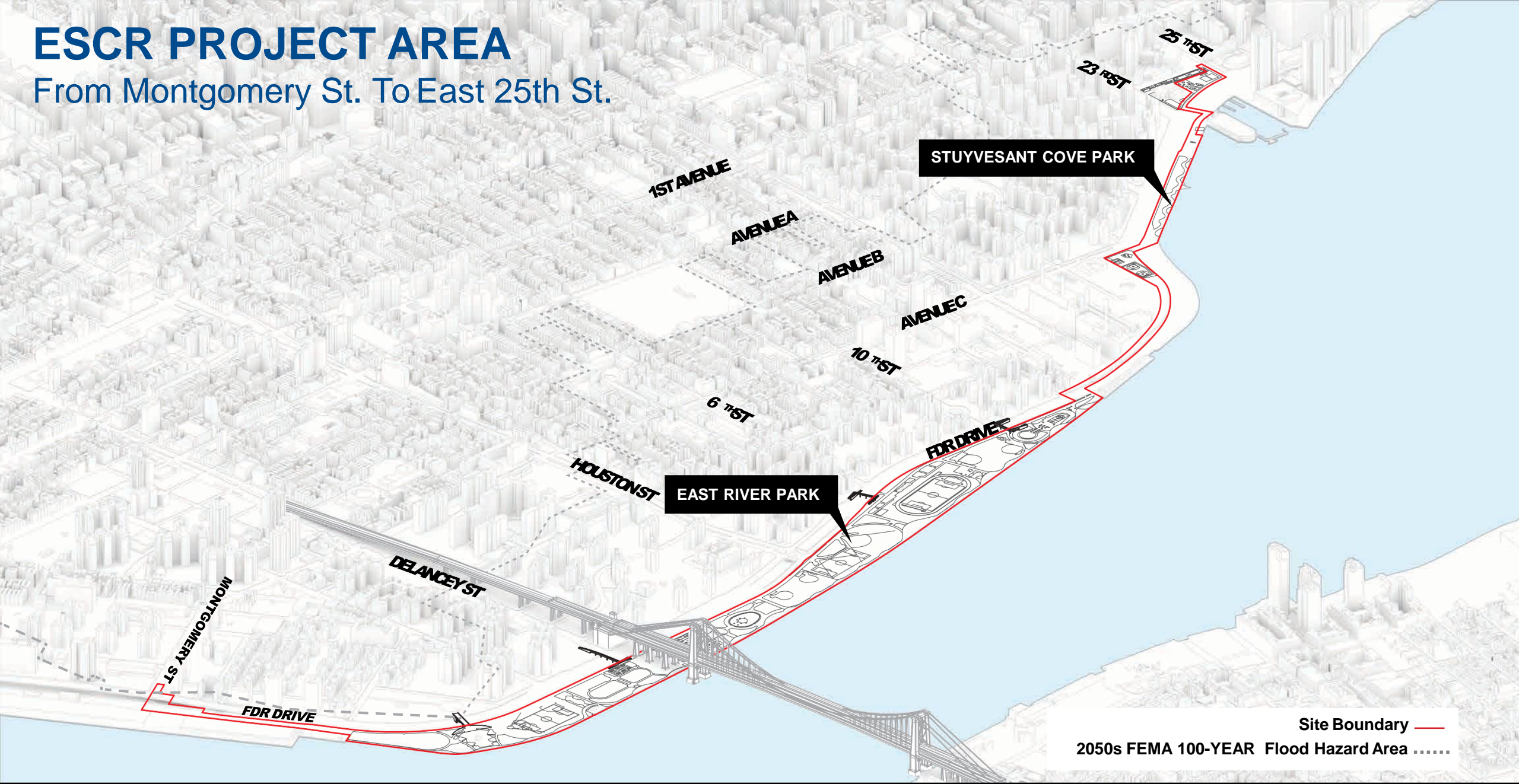


WATERFRONT OPEN SPACES AND UPLAND NEIGHBORHOODS WERE SEVERELY IMPACTED BY HURRICANE SANDY, AND ARE AT FURTHER RISK DUE TO FUTURE SEA LEVEL RISE AND INCREASING STORM FREQUENCIES



ESCR PROJECT AREA

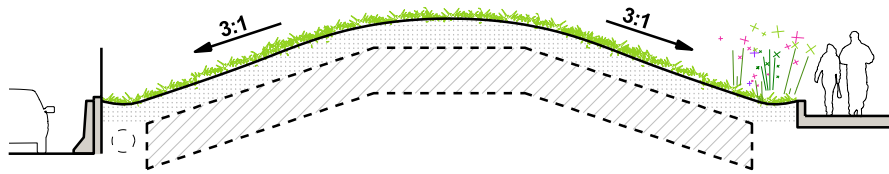
From Montgomery St. To East 25th St.



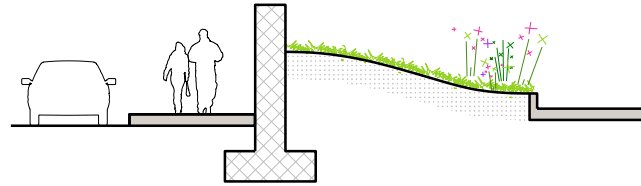
Site Boundary —
2050s FEMA 100-YEAR Flood Hazard Area

BASELINE FLOOD PROTECTION COMPONENTS

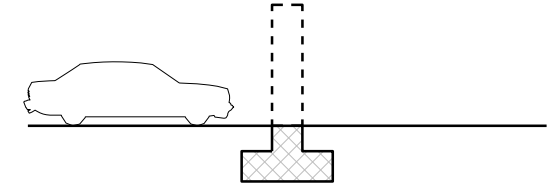
Typical Cross-Sections



BERM / LEVEE



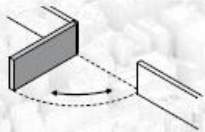
FLOODWALL



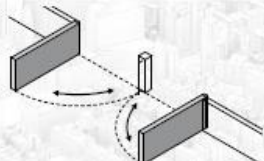
CLOSURE STRUCTURE

Baseline Flood Protection Components

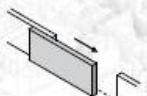
Closure Structures



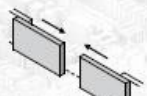
Single Swing Gate (x7)



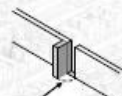
Double Swing Gates (x2)



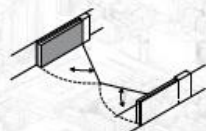
Single Roller Gates (x4)



Double Roller Gates (x1)



Pedestrian Gates (x3)



Miter Gates (x1)

*18 Total Closure Structures

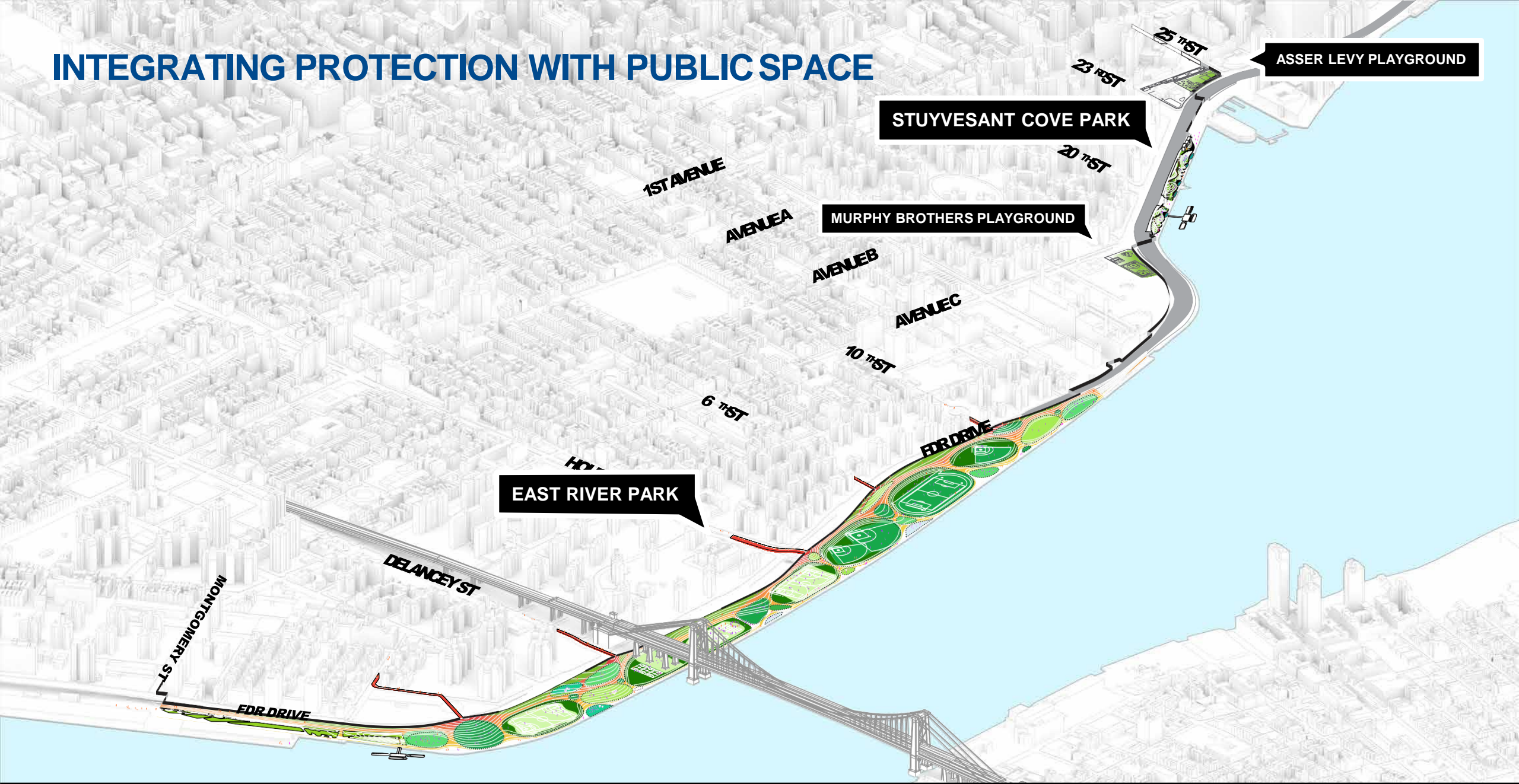
25TH STREET TIEBACK

MONTGOMERY STREET TIEBACK

THE FLOOD PROTECTION ALIGNMENT, REACHING +16' ABOVE MEAN SEA LEVEL, CREATES AN ELEVATED EDGE TYPICALLY 8'-9' ABOVE EXISTING GROUND LEVEL, WITH CLOSURE STRUCTURES ACROSS PEDESTRIAN, CYCLIST AND VEHICULAR ACCESSWAYS

- Pedestrian Crossings →
- Typical Floodwall ■
- Earthen Levee ■

INTEGRATING PROTECTION WITH PUBLIC SPACE



ASSER LEVY PLAYGROUND

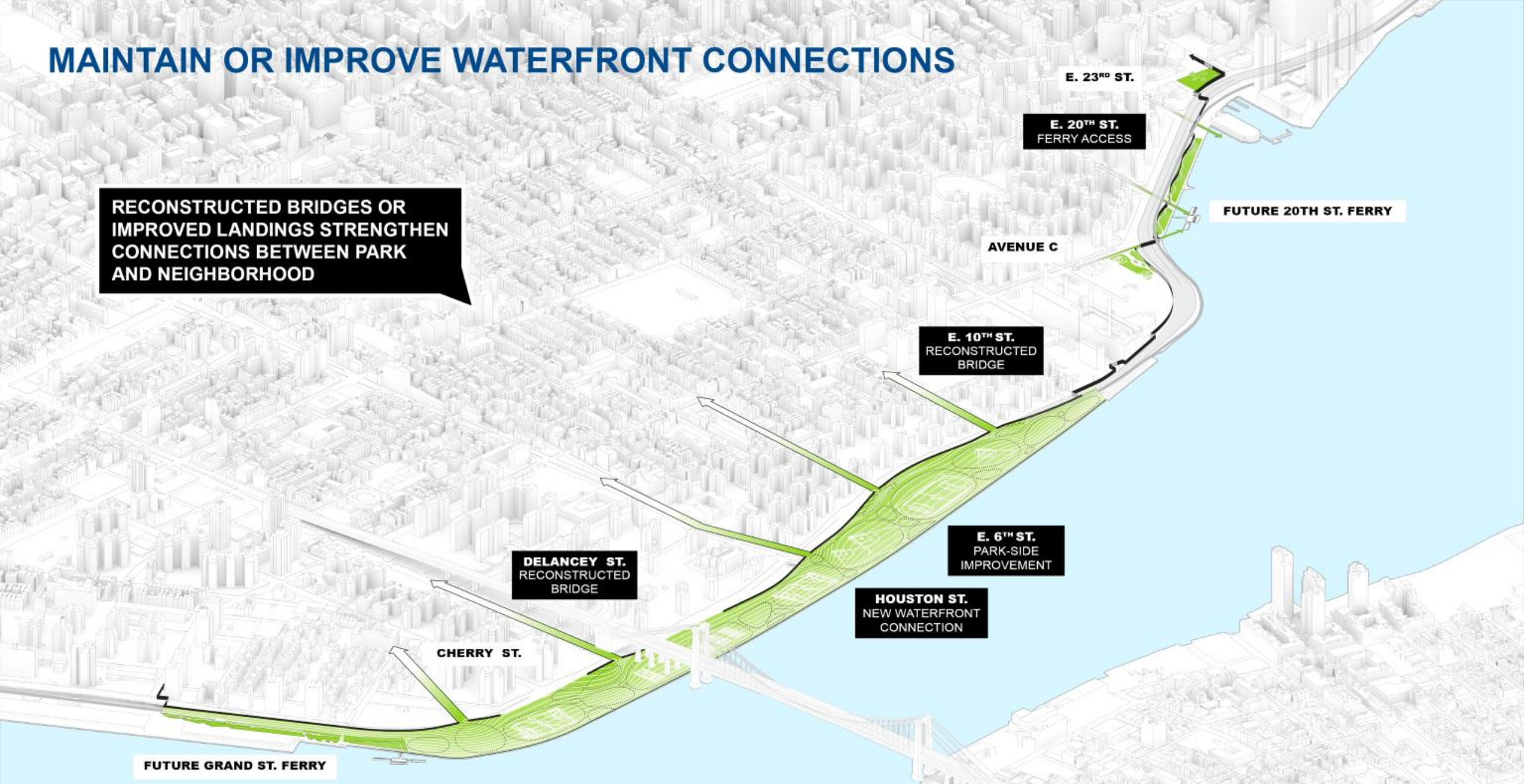
STUYVESANT COVE PARK

MURPHY BROTHERS PLAYGROUND

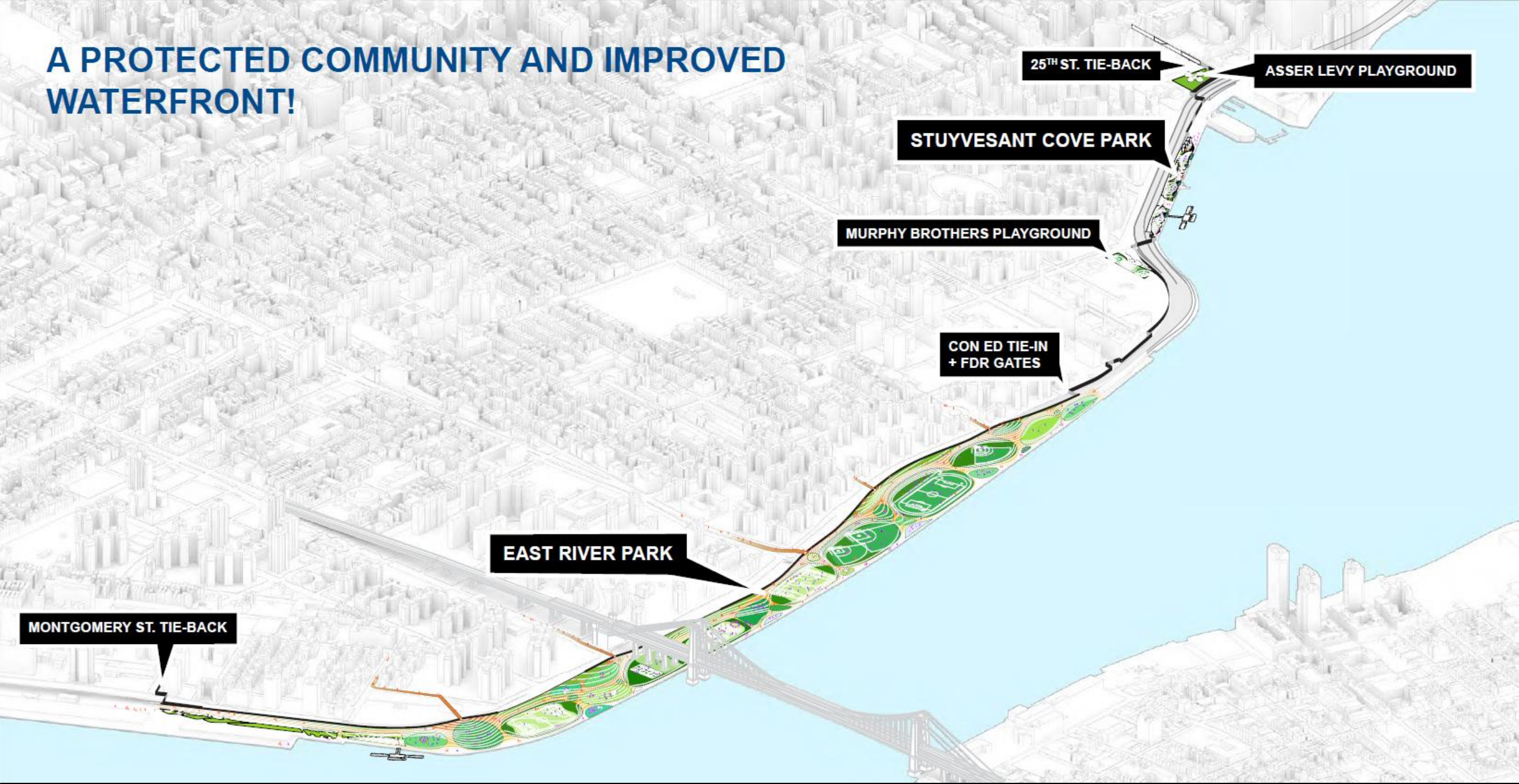
EAST RIVER PARK

MAINTAIN OR IMPROVE WATERFRONT CONNECTIONS

RECONSTRUCTED BRIDGES OR IMPROVED LANDINGS STRENGTHEN CONNECTIONS BETWEEN PARK AND NEIGHBORHOOD

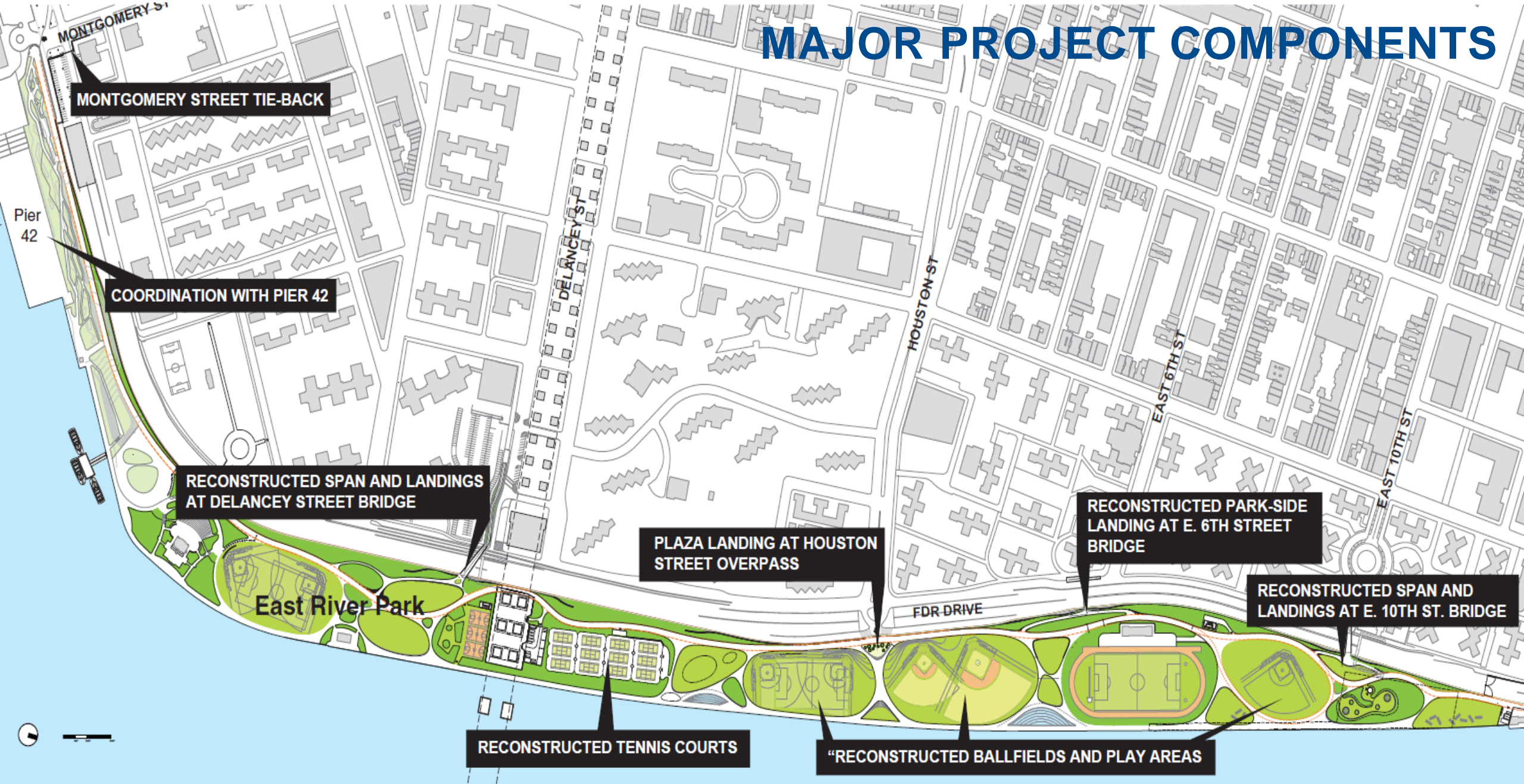


A PROTECTED COMMUNITY AND IMPROVED WATERFRONT!



MONTGOMERY STREET TO EAST 13TH STREET

MAJOR PROJECT COMPONENTS





EXISTING CONDITIONS – MONTGOMERY STREET

DRAFT



**PROPOSED CONCEPT DESIGN – MONTGOMERY ST. TIE-BACK
GATES STORED**

**NOTE: DRAFT ILLUSTRATIVE SKETCH
FINISHES/MATERIALS/DETAILING TO BE DEVELOPED
IN FINAL DESIGN**

DRAFT



**PROPOSED CONCEPT DESIGN – MONTGOMERY ST. TIE-BACK
GATES CLOSED**

**NOTE: DRAFT ILLUSTRATIVE SKETCH
FINISHES/MATERIALS/DETAILING TO BE DEVELOPED
IN FINAL DESIGN**

EXISTING CONDITIONS – DELANCEY STREET ENTRANCE



PROPOSED CONCEPT DESIGN - DELANCEY STREET ENTRANCE

DRAFT



Note: Render depicts condition 15 years post-completion.



PROPOSED CONCEPT DESIGN – DELANCEY STREET ENTRANCE

DRAFT



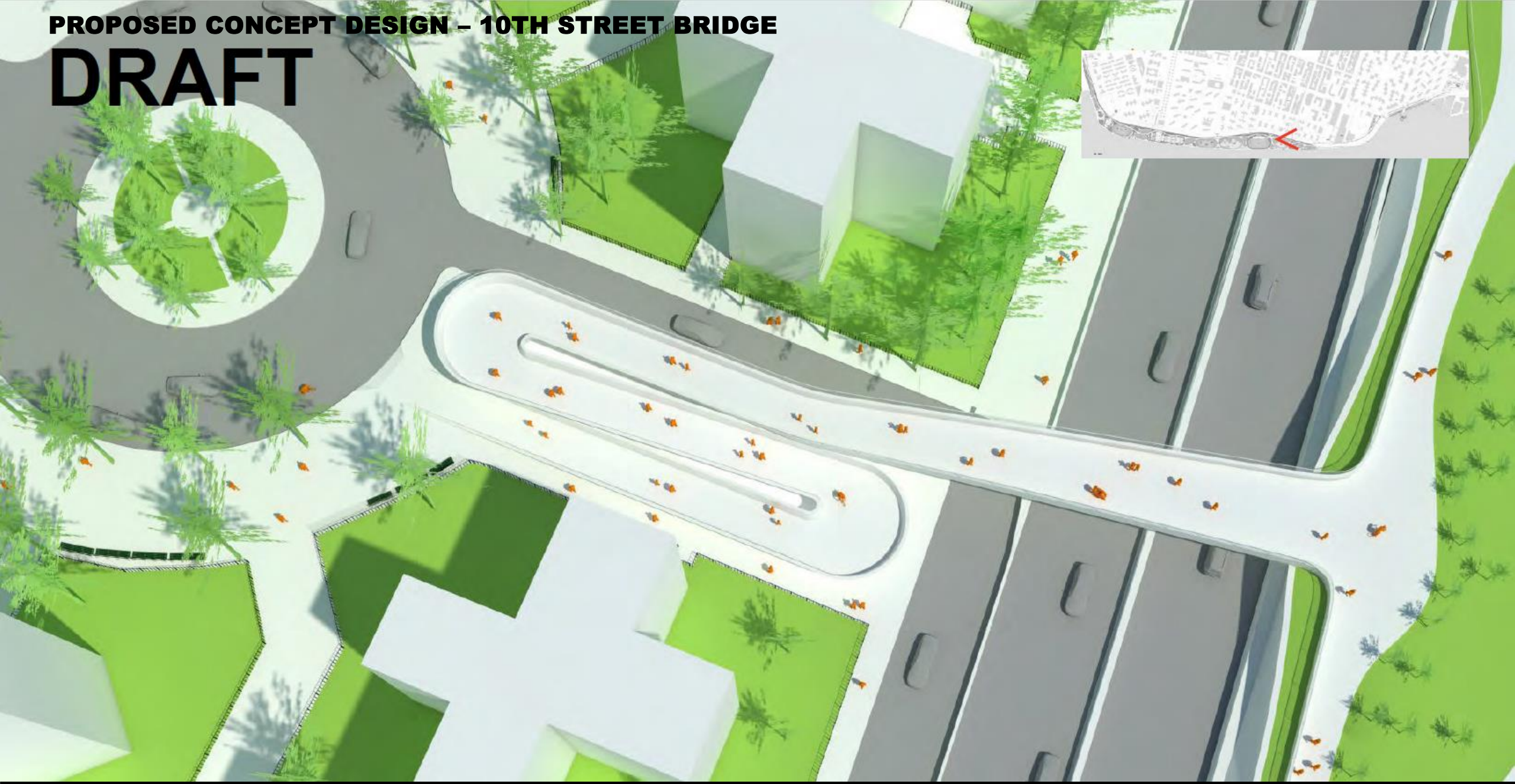
Note: Rendering depicts condition 15 years post-completion in a storm scenario.



EXISTING CONDITIONS – 10TH STREET BRIDGE

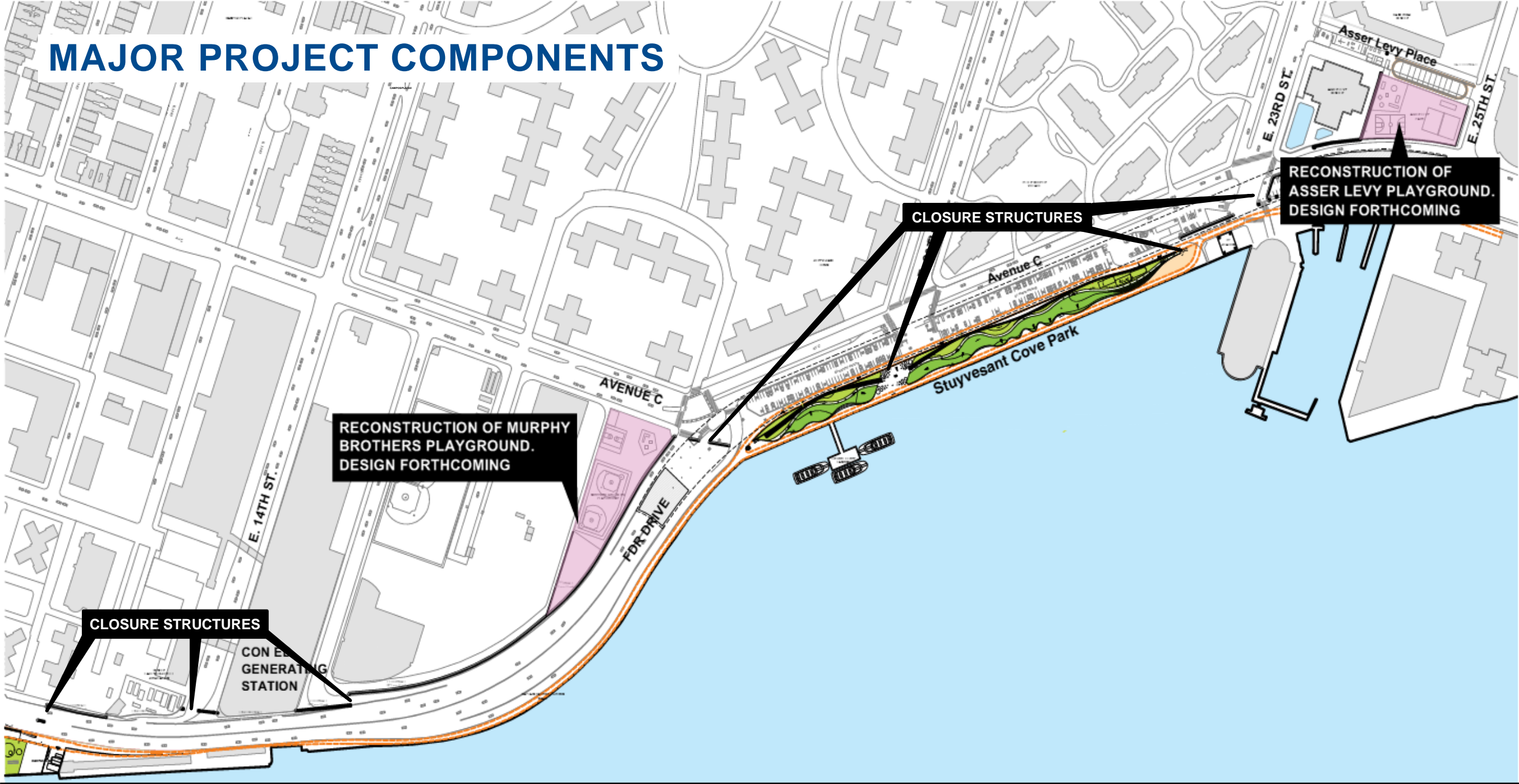


DRAFT



EAST 13TH STREET TO EAST 25TH STREET

MAJOR PROJECT COMPONENTS



RECONSTRUCTION OF MURPHY BROTHERS PLAYGROUND. DESIGN FORTHCOMING

CLOSURE STRUCTURES

RECONSTRUCTION OF ASSER LEVY PLAYGROUND. DESIGN FORTHCOMING

CLOSURE STRUCTURES

CON E
GENERATING
STATION

EXISTING CONDITIONS – FDR DRIVE GATE CROSSING



PROPOSED CONCEPT DESIGN – FDR DRIVE GATE CROSSING GATES STORED



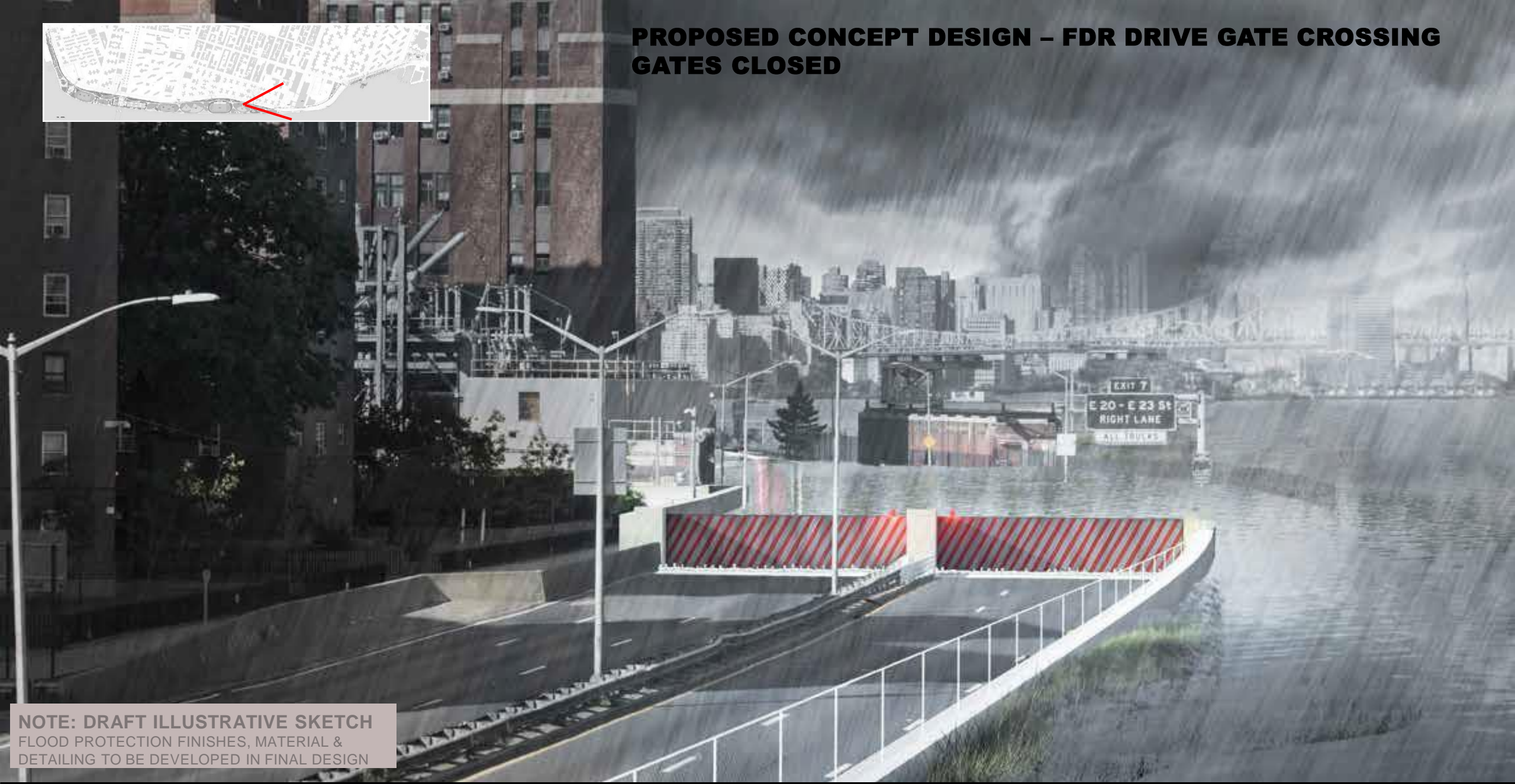
NOTE: DRAFT ILLUSTRATIVE SKETCH
FLOOD PROTECTION FINISHES, MATERIAL &
DETAILING TO BE DEVELOPED IN FINAL DESIGN

PROPOSED CONCEPT DESIGN – FDR DRIVE GATE CROSSING GATES CLOSING



NOTE: DRAFT ILLUSTRATIVE SKETCH
FLOOD PROTECTION FINISHES, MATERIAL &
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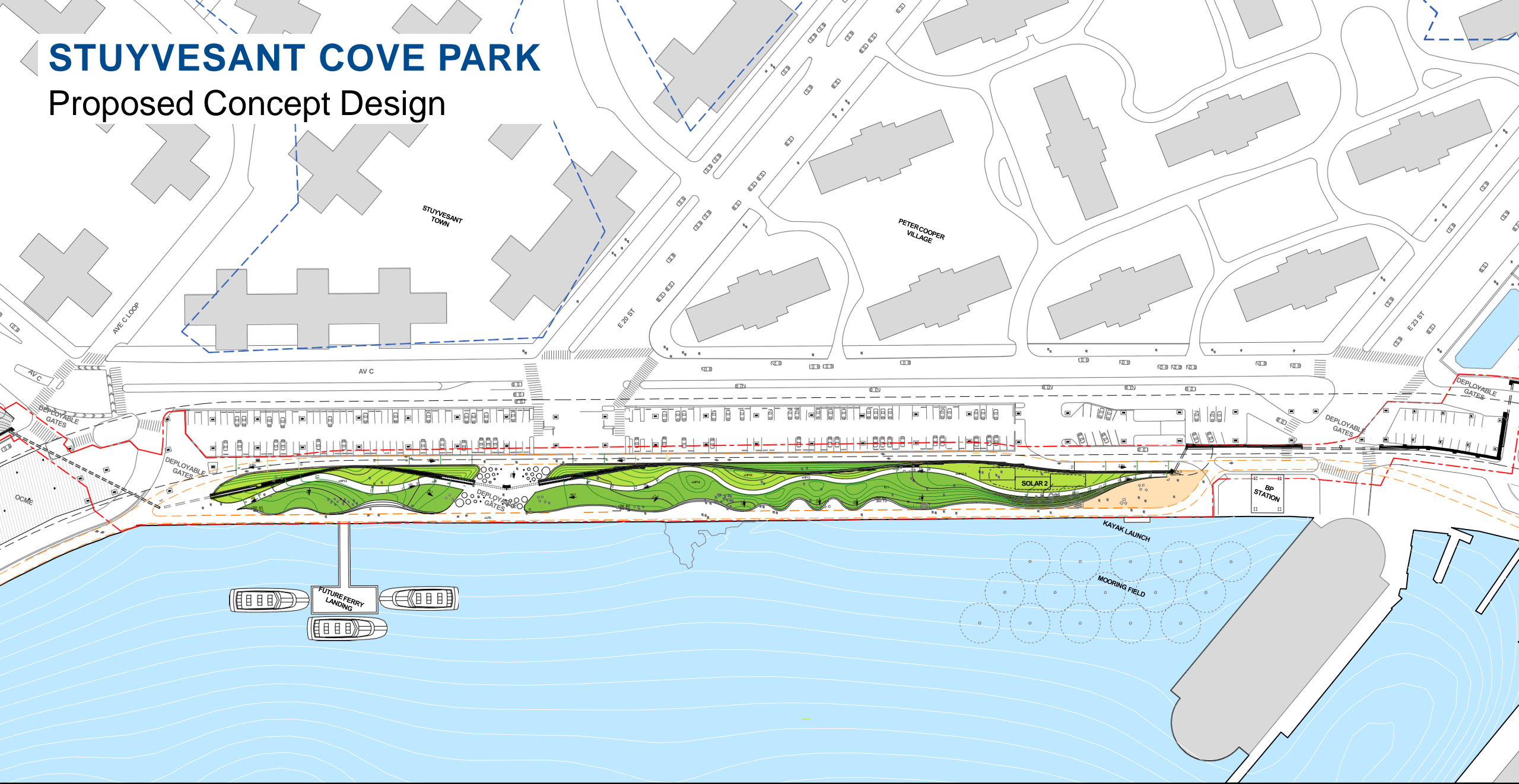
PROPOSED CONCEPT DESIGN – FDR DRIVE GATE CROSSING GATES CLOSED



NOTE: DRAFT ILLUSTRATIVE SKETCH
FLOOD PROTECTION FINISHES, MATERIAL &
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STUYVESANT COVE PARK

Proposed Concept Design



EXISTING CONDITIONS - STUYVESANT COVE PARK





PROPOSED CONCEPT DESIGN - STUYVESANT COVE PARK



Note: Rendering depicts condition 15 years post-completion



NOTE: DRAFT ILLUSTRATIVE SKETCH
FLOOD PROTECTION FINISHES, MATERIAL &
DETAILING TO BE DEVELOPED IN FINAL DESIGN

PROPOSED CONCEPT DESIGN - STUYVESANT COVE PARK



Note: Rendering depicts condition 15 years post-completion in a coastal flood event.



NOTE: DRAFT ILLUSTRATIVE SKETCH
FLOOD PROTECTION FINISHES, MATERIAL &
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PUBLIC OUTREACH

2015 Community Engagement Recap

ROUND 1

X2 Meetings



MARCH 19 + 23, 2015

How do you use the waterfront?

ROUND 2

X3 Meetings



MAY 19, 20 + 28, 2015

Where should the flood protection alignment go?

ROUND 3

X4 Meetings



JULY 28, 29, 30 + SEPT. 10, 2015

What are the options for integrating the Park and the Protection?

ROUND 4

X2 Meetings



OCTOBER 6 + 8, 2015

Initial Design Direction: Feedback and Discussion



QUARTERLY TASK FORCE MEETINGS
(January, April, July, September)

PUBLIC OUTREACH

2016 - 2017 Community Engagement

CB3/CB6 JOINT TASK FORCE

How is the project being developed in response to the new constraints?



MAY 23RD



SEPTEMBER 20TH

CB6 PARKS

How has the design of the parks been refined since the initial concept?



OCTOBER 4TH

CB3 PARKS



OCTOBER 13TH

PUBLIC OUTREACH

2016 - 2017 Community Engagement

INPUT SESSION

How will the flood protection integrate with the playgrounds?



NOVEMBER 14, 2016
FEBRUARY 16, 2017
Asser Levy Playground and
Murphy Brothers Playground

COMMUNITY ENGAGEMENT WORKSHOPS

How have the flood protection alignments and design been updated since last year?



NOVEMBER 28TH
Project Area 2



DECEMBER 1ST
Project Area 1 South



DECEMBER 7TH
Project Area 1 North

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IMPLEMENTATION PARTNERSHIPS

Partner Agencies



Mayor's Office of
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Department of
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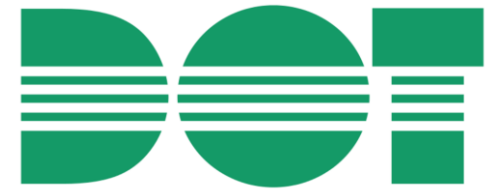


Office of Management
and Budget



NYC Parks

NEW YORK CITY



Environmental
Protection



Small Business
Services

IMPLEMENTATION PARTNERSHIPS

Cooperating, Involved, and Interested Agencies

Federal

- FEMA
- HUD
- NMFS
- NPS
- USACE
- USCG
- USEPA
- USFWS
- VA

State

- MTA
- NYCHA
- NYSDEC
- NYSDOS
- NYSDOT
- NYSOGS
- NYPA
- OPRHP

City

- DCP
- DOB
- EM
- FDNY
- HPD
- LPC
- MOEC
- NYPD
- OER
- PDC

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PROJECT FUNDING

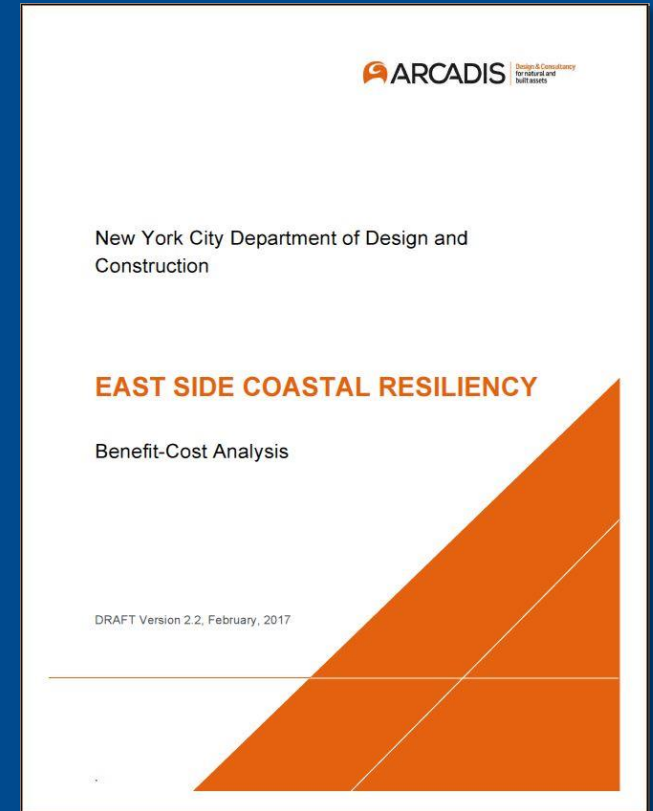
The City and HUD have committed \$760 million:

- \$338 million in HUD CDBG-DR funds
- \$170 million in City capital funding for interior drainage management
- \$252 million in additional City capital (will be reflected in an upcoming financial plan)

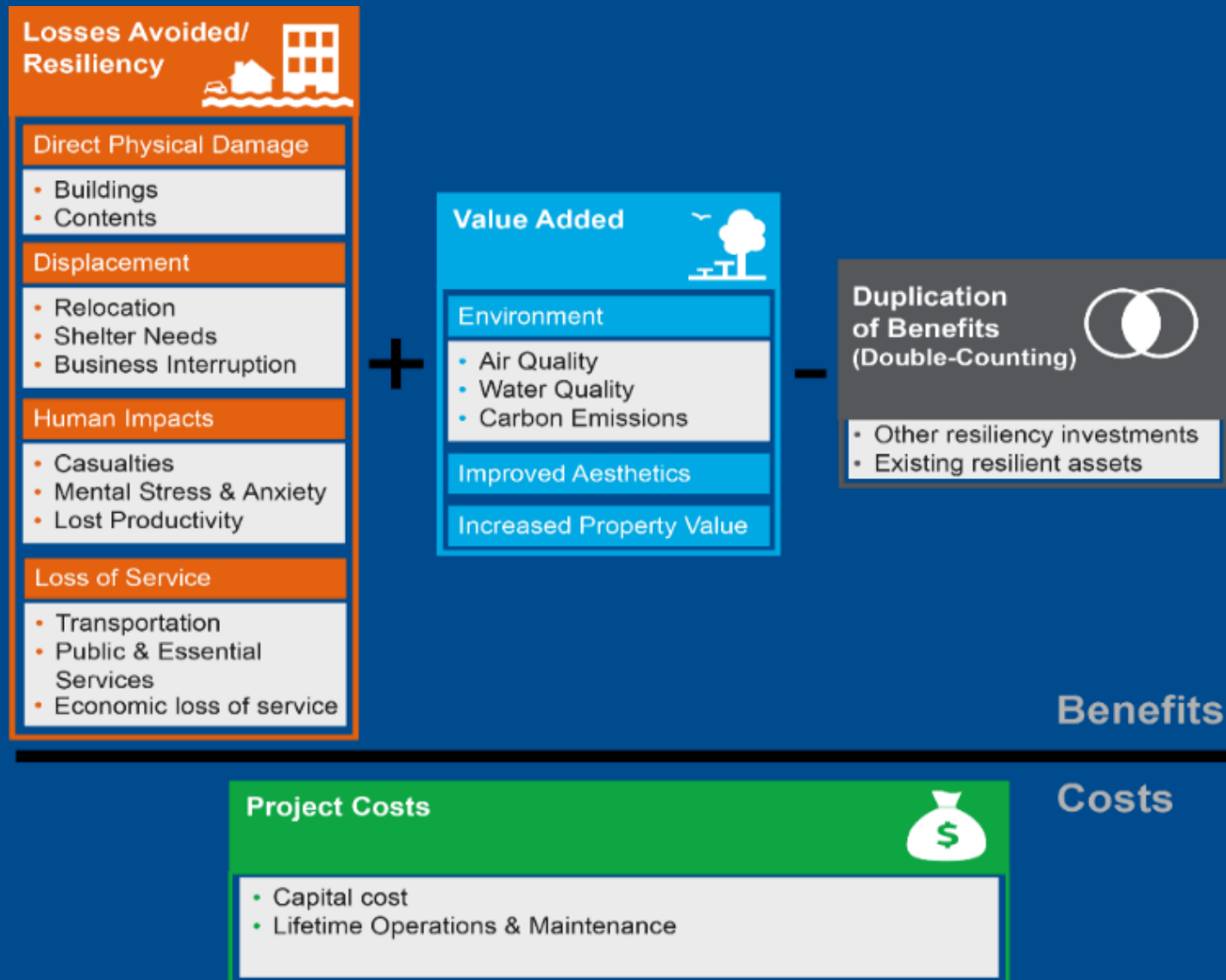
BENEFIT COST ANALYSIS

Overview

- Demonstrates how ESCR achieves resiliency, social, economic, and environmental project benefits
- Considers losses avoided and value added
- A Benefit Cost Ratio greater than one indicates a cost effective project
- The ESCR Benefit Cost Ratio is 2.84 (7% Discount Rate)



How is the Benefit Cost Ratio Calculated?



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PUBLIC COMMENT PERIOD OPEN