

East Side Coastal Resiliency

NYCHA-Bernard M. Baruch Houses Resident Association

March 28, 2019

**Bard High School Early College, Auditorium
525 East Houston Street**



PROJECT GOALS & ORIGIN

Provide a reliable, integrated flood protection system; minimize use of closure structures.

Improve waterfront open spaces and access.

Achieve implementation milestones and project funding allocations as established by HUD.

Respond quickly to the urgent need for increased flood protection and resiliency.



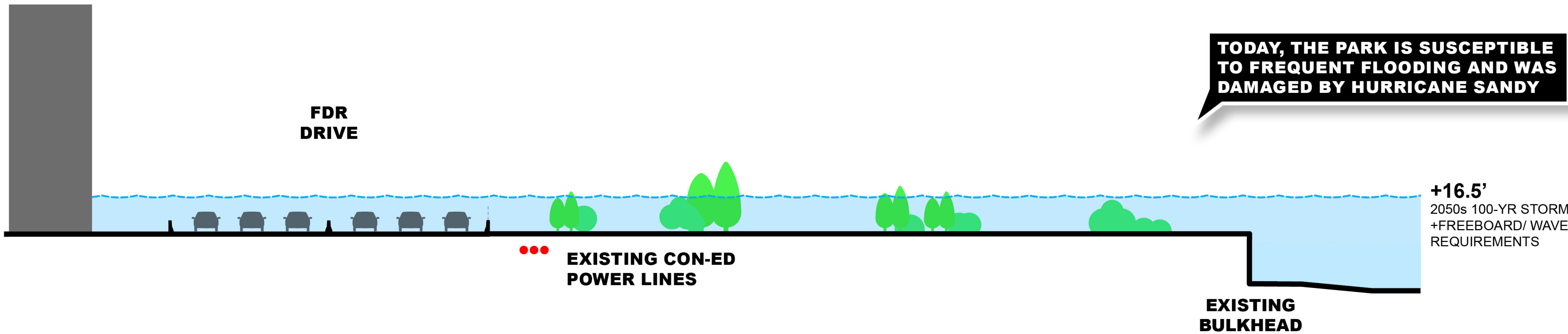


NYCHA HOUSING
ADJACENT TO EAST RIVER PARK

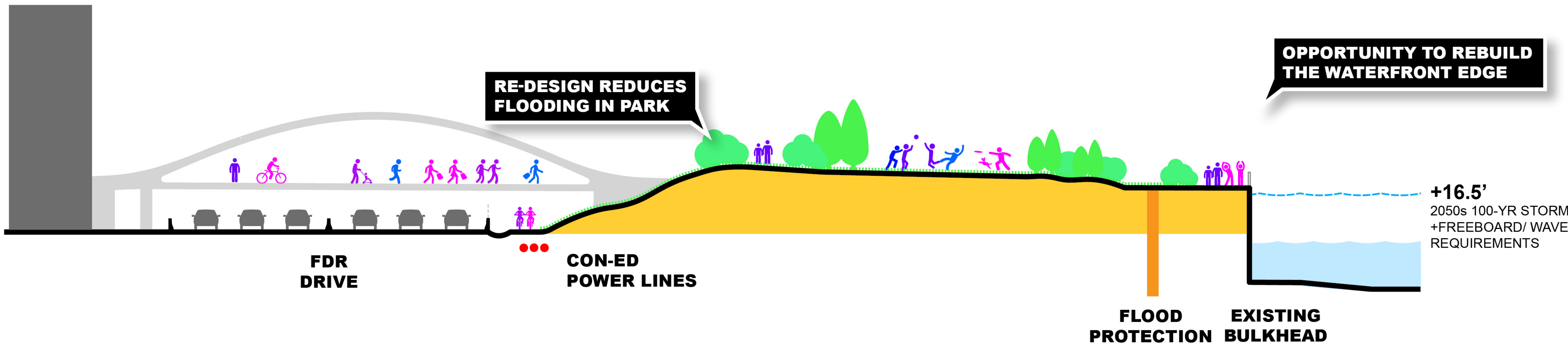
IMPROVED PARK RESILIENCY

PARK IS ABOVE THE 2050s 100-YEAR FLOODPLAIN

EXISTING CONDITIONS

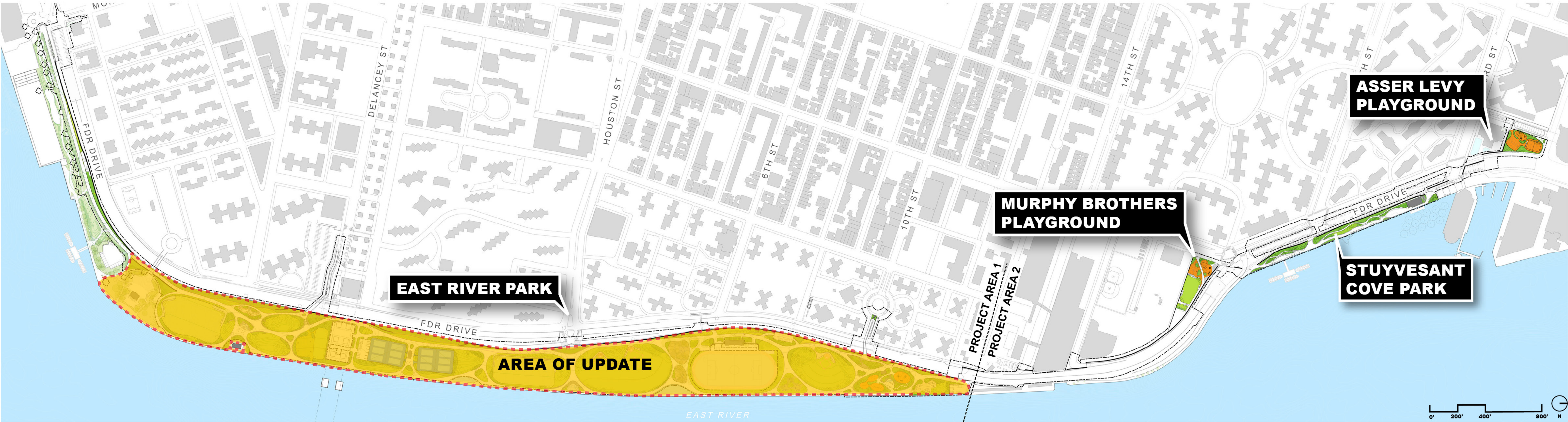


CURRENT PLAN



AREA OF DESIGN CHANGES

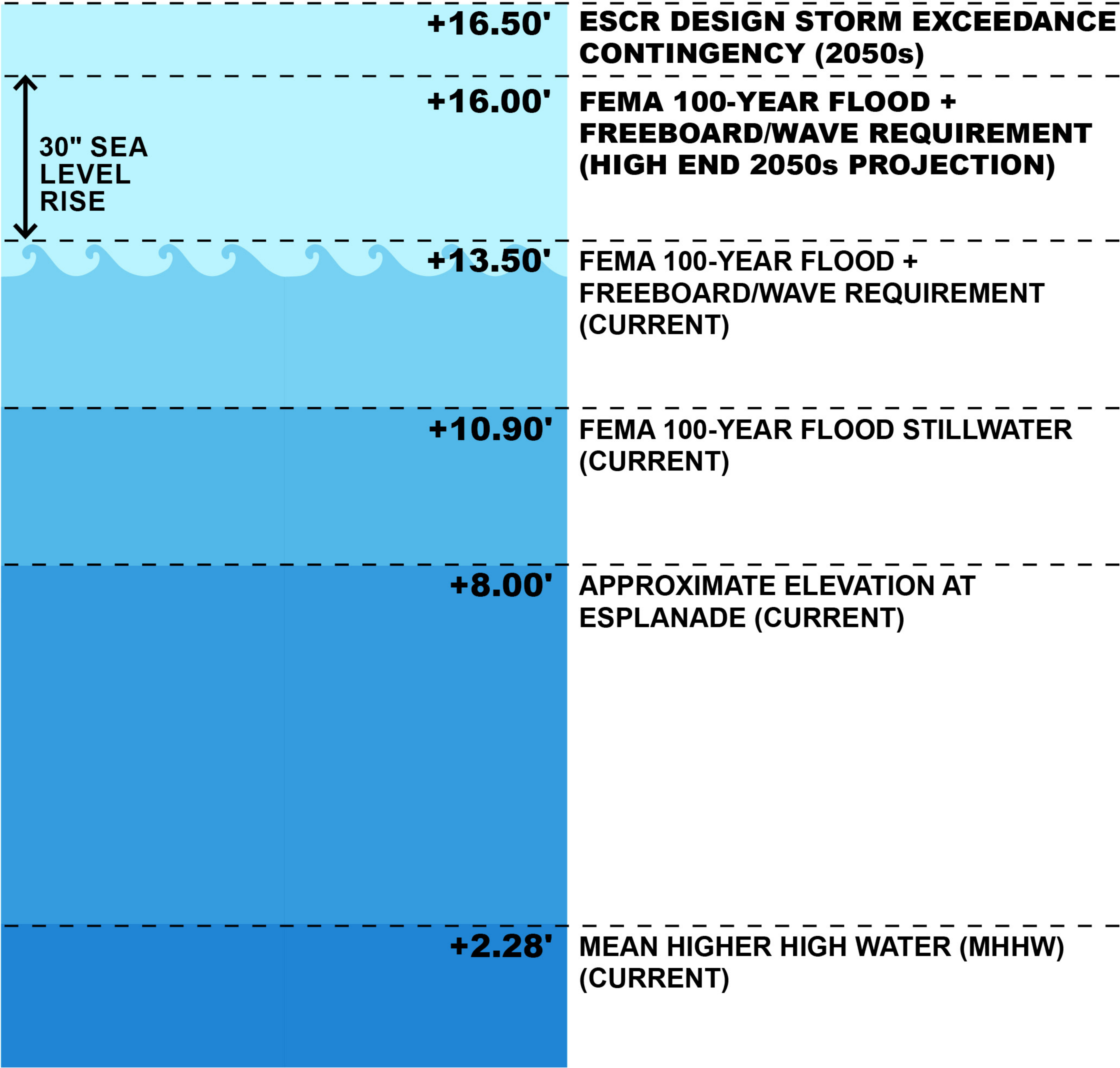
EAST SIDE COASTAL RESILIENCY PROJECT



IMPROVED PARK RESILIENCY

FLOOD DESIGN ELEVATIONS

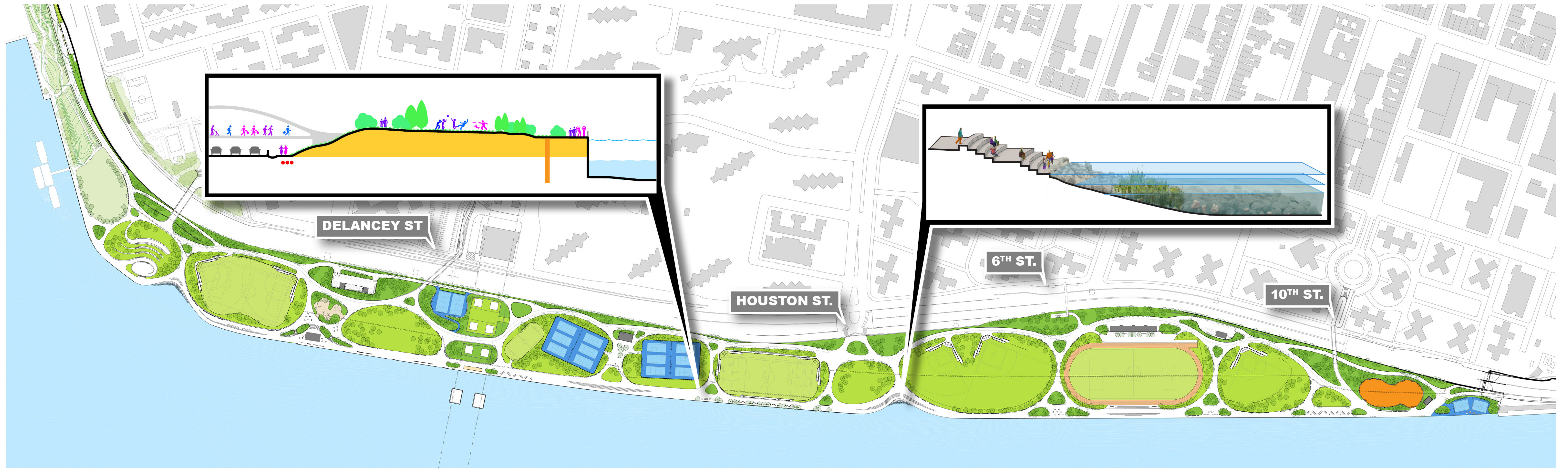
**HUD FUNDING REQUIREMENT:
THE SYSTEM MUST PURSUE FEMA
ACCREDITATION WITH MINIMUM
SYSTEM ELEVATION AT CURRENT
FEMA 100-YEAR STORM ELEVATION +
FREEBOARD**



NOTE: ALL ELEVATIONS SHOWN IN NAVD88

CURRENT PLAN

PROJECT GOALS

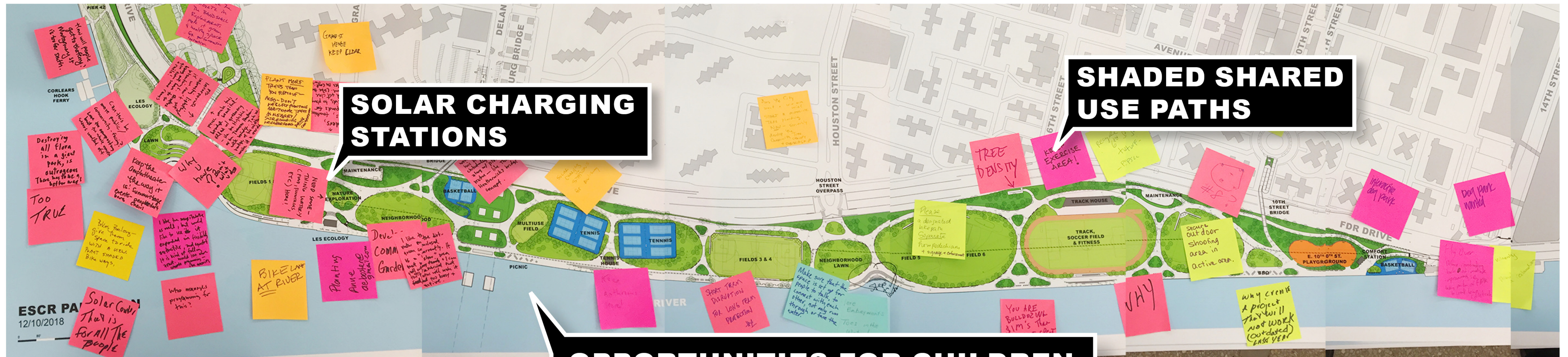


- **INTEGRATE PASSIVE FLOOD PROTECTION**
- **IMPROVE WATERFRONT ACCESS & OPEN SPACES**
- **ACHIEVE TIMELINE & FUNDING MILESTONES**
- **TIMELY DELIVERY OF FLOOD PROTECTION**

WHAT WE'VE HEARD - EAST RIVER PARK



PLAN ROLL OUT ON DECEMBER 10TH



PLAN ROLL OUT ON DECEMBER 11TH

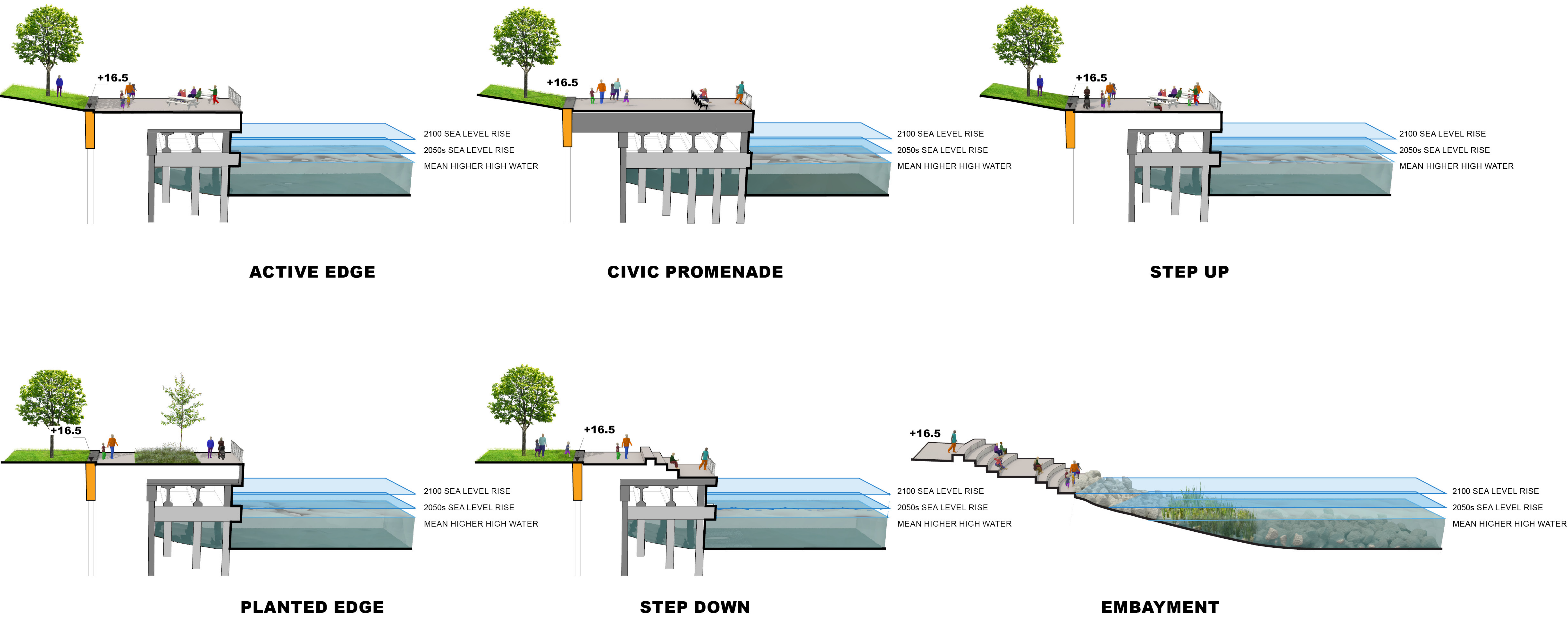
IMPROVED OPEN SPACE

PARK PROGRAM COMPARISON

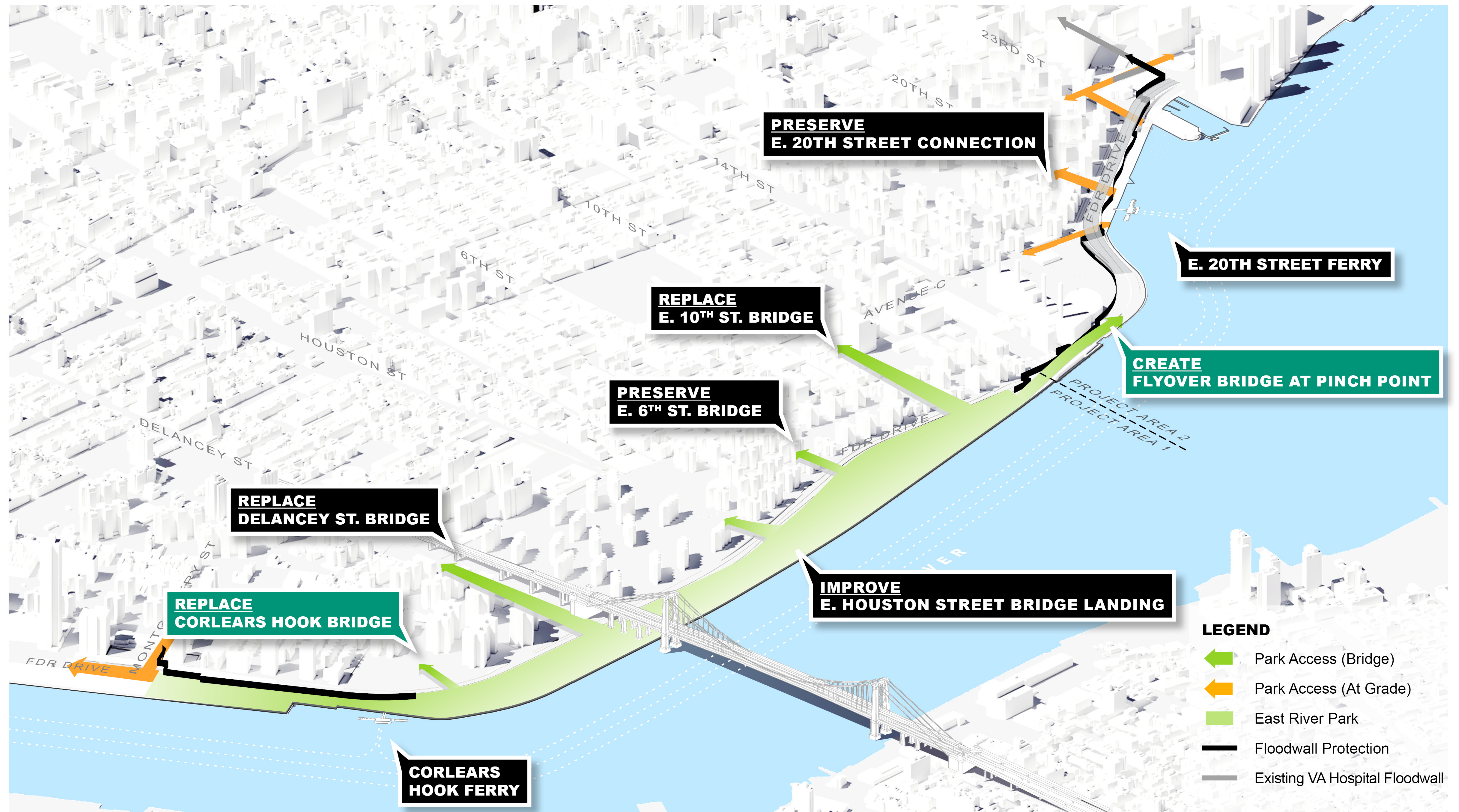


IMPROVED PARK RESILIENCY

DIFFERENT EXPERIENCES FOR WATERFRONT ACCESS



IMPROVED WATERFRONT OPEN SPACES & ACCESS

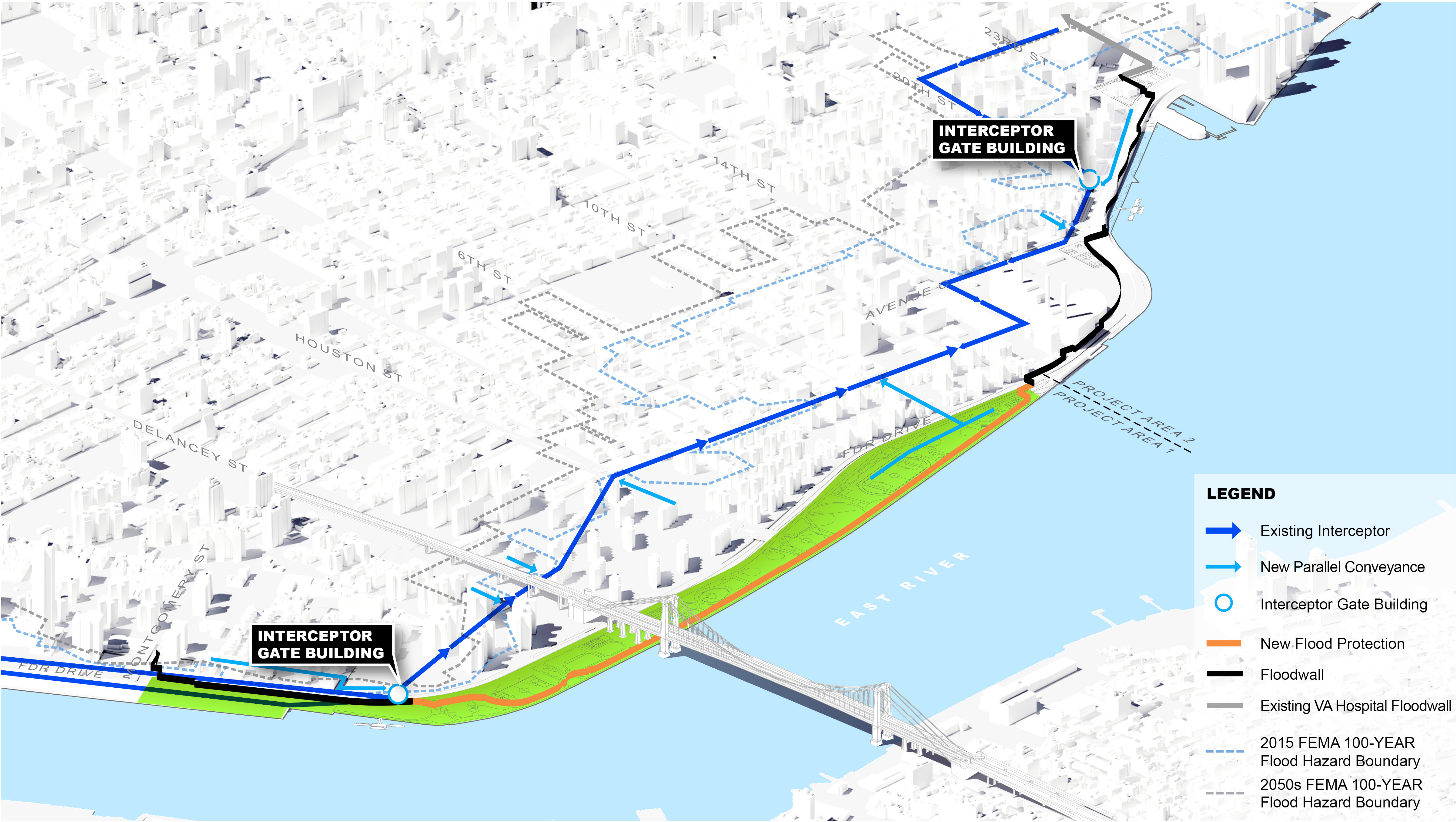


An aerial photograph of a city, likely San Francisco, showing a multi-lane highway (Golden Gate Bridge) crossing a body of water. The image is heavily stylized with a teal/cyan color overlay and a semi-transparent grid pattern. The text "DRAINAGE IMPROVEMENTS" is centered in white, bold, sans-serif font.

DRAINAGE IMPROVEMENTS

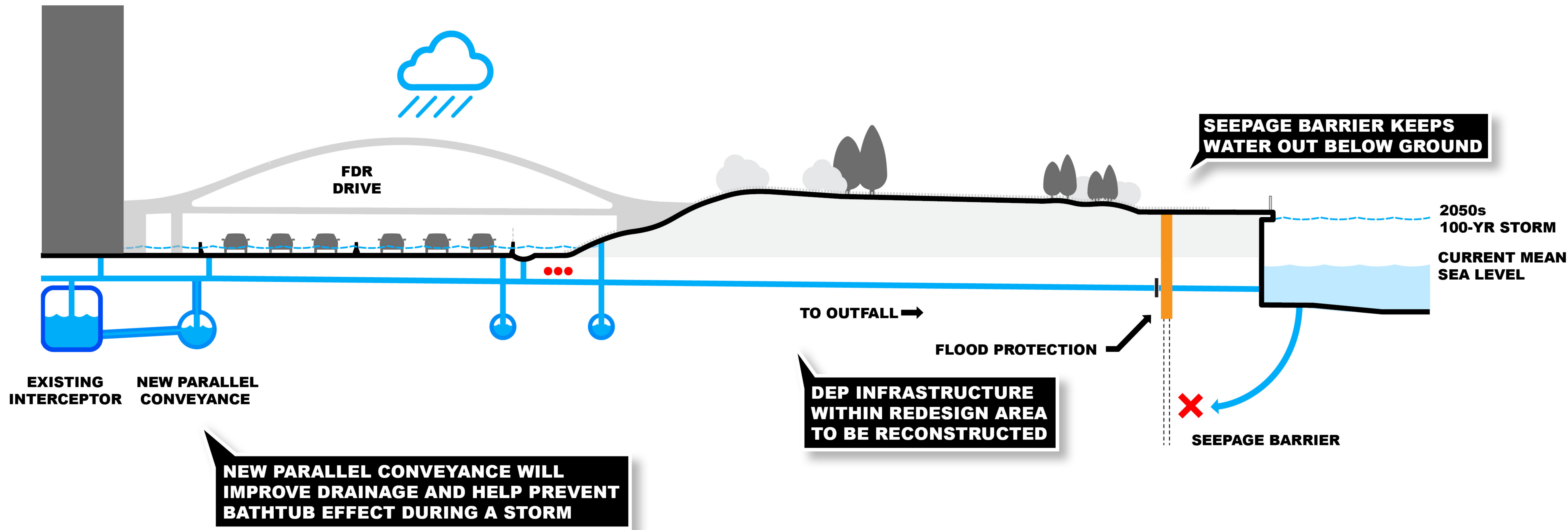
IMPROVED DRAINAGE

FULL SITE STRATEGY



PARK & FDR DRAINAGE

RAINWATER COLLECTED AT MULTIPLE POINTS BETWEEN PARK AND FDR



IMPROVED DRAINAGE

INTERCEPTOR GATE AND BUILDING SITING DESIGN CRITERIA

Design Criteria for Below Grade Interceptor Gate

- **Must be located inline with the existing interceptor sewer**
- **Sufficient vertical clearance above the interceptor to grade**
- **Sufficient space near chamber for an above grade building**
- **Must be upstream of any connections from protected area and downstream of any connections from unprotected area**

Design Criteria for Building

- **Located near the Interceptor Gate, as building contains electrical, hydraulic, and mechanical support system for the interceptor gate**
- **Located above grade so that it can be accessed easily by DEP operations personnel on a regular basis**
- **Sufficient area for operations and maintenance vehicle access**

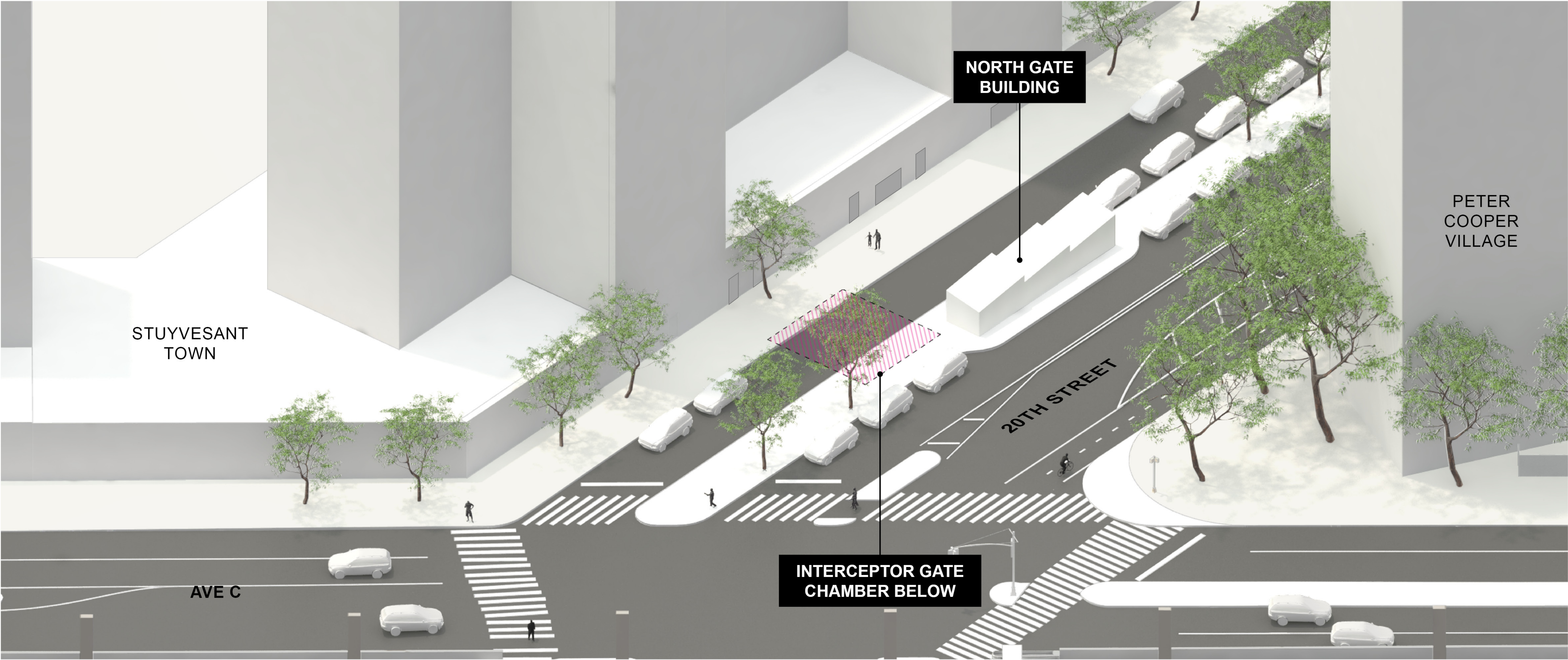
IMPROVED DRAINAGE

SOUTH INTERCEPTOR GATE CHAMBER BUILDING



IMPROVED DRAINAGE

NORTH INTERCEPTOR GATE CHAMBER BUILDING







AREA 3: TRACK & EAST 10TH STREET

AREA 2: BARUCH HOUSES

AREA 1: DELANCEY



AREA 1: DELANCEY
CONCEPTUAL PLAN



DELANCEY OVERLOOK
EXISTING CONDITIONS



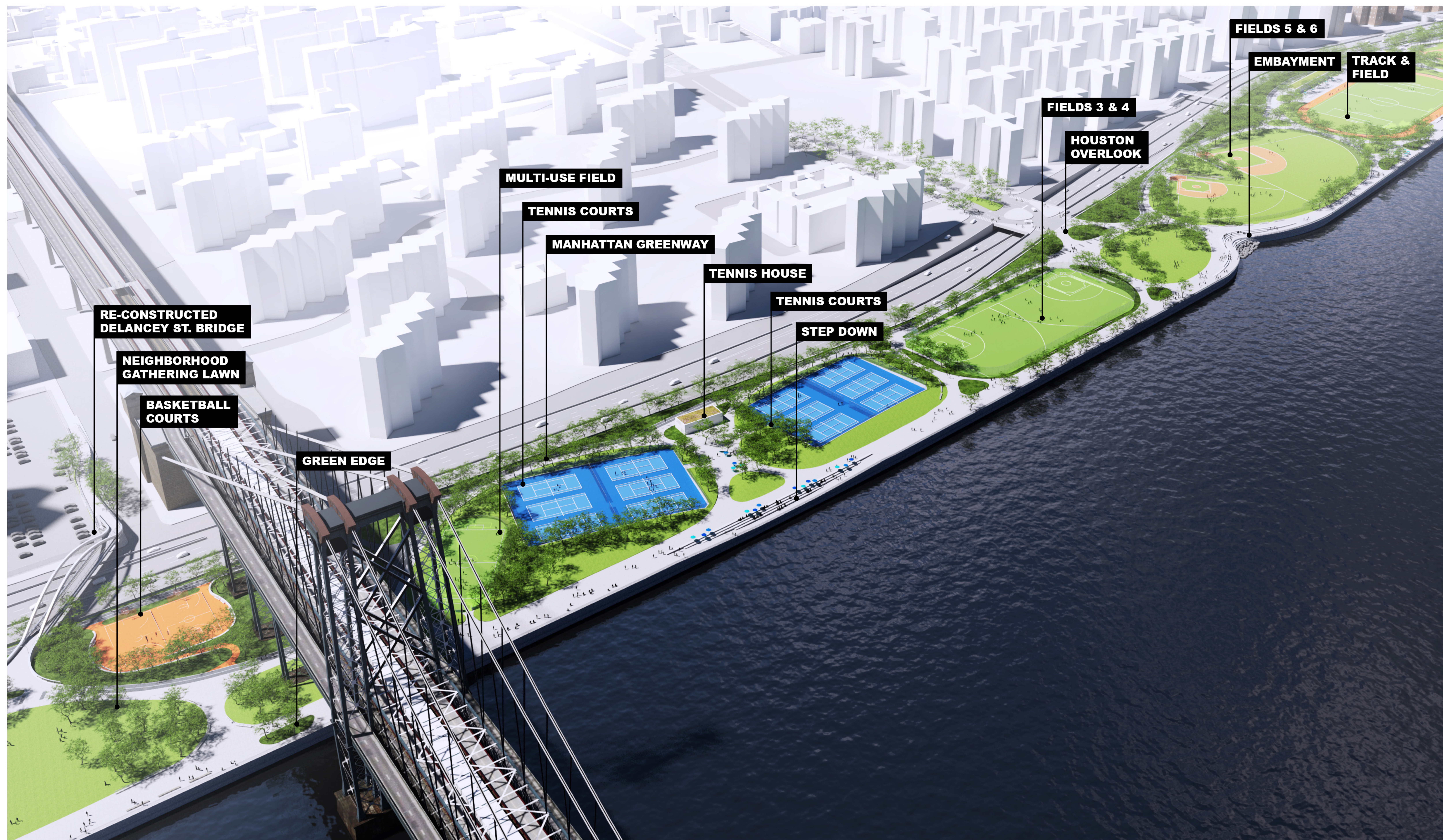
DELANCEY OVERLOOK
PREVIOUS DESIGN



DELANCEY OVERLOOK
CONCEPTUAL DESIGN



DELANCEY OVERLOOK
CONCEPTUAL DESIGN - STORM CONDITIONS



AREA 2: BARUCH HOUSES
CONCEPTUAL DESIGN



RENDERING DEPICTS 2015 MEAN HIGHER HIGH WATER

HOUSTON AREA
CONCEPTUAL DESIGN



RENDERING DEPICTS 2050 MEAN HIGHER HIGH WATER

HOUSTON AREA
CONCEPTUAL DESIGN



HOUSTON AREA
CONCEPTUAL DESIGN



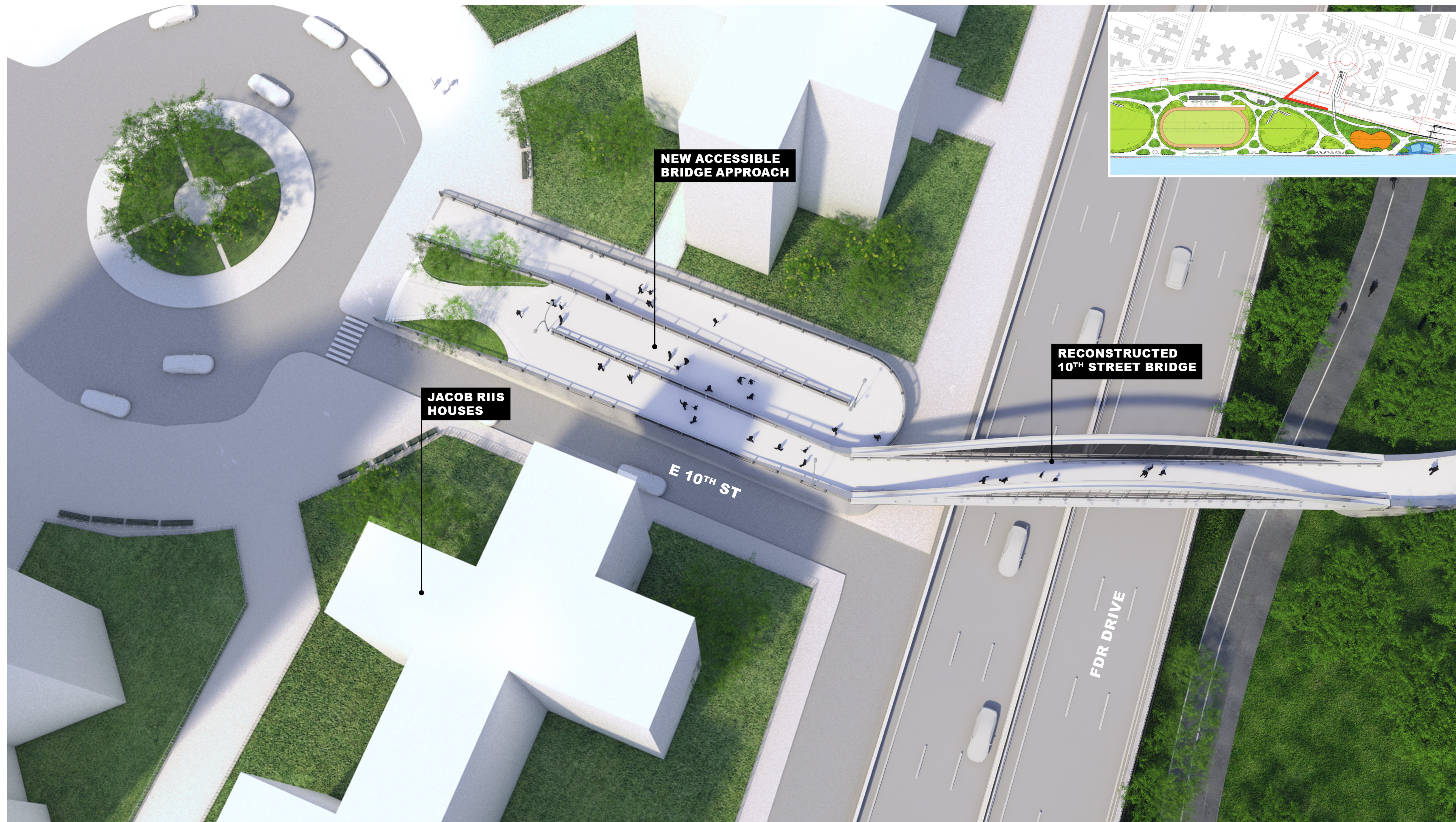
AREA 3: TRACK & E. 10TH ST.
CONCEPTUAL DESIGN



TRACK & FIELD AREA
CONCEPTUAL DESIGN



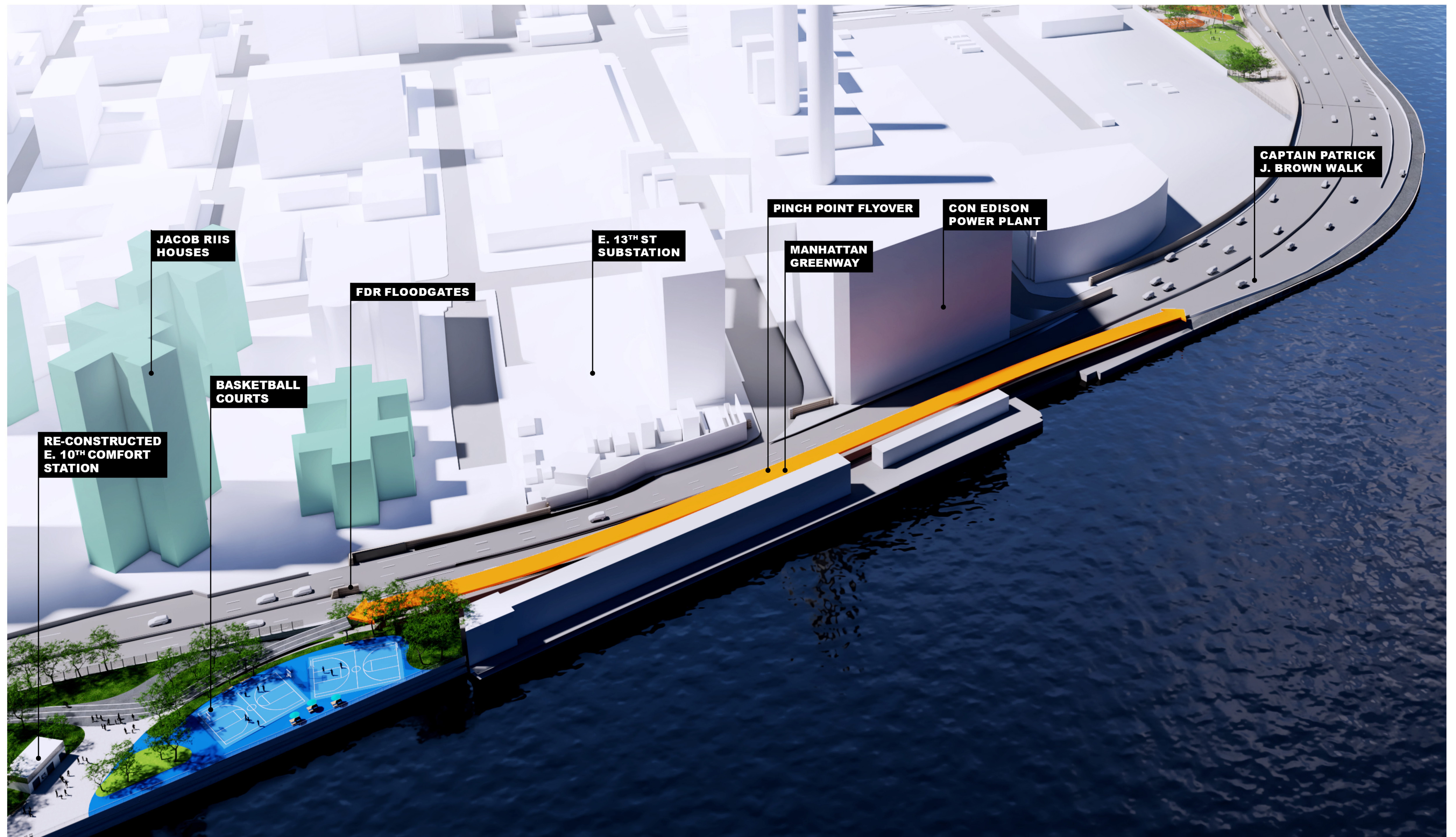
TRACK & FIELD AREA
CONCEPTUAL DESIGN - STORM CONDITIONS



E 10TH STREET BRIDGE
CONCEPTUAL DESIGN

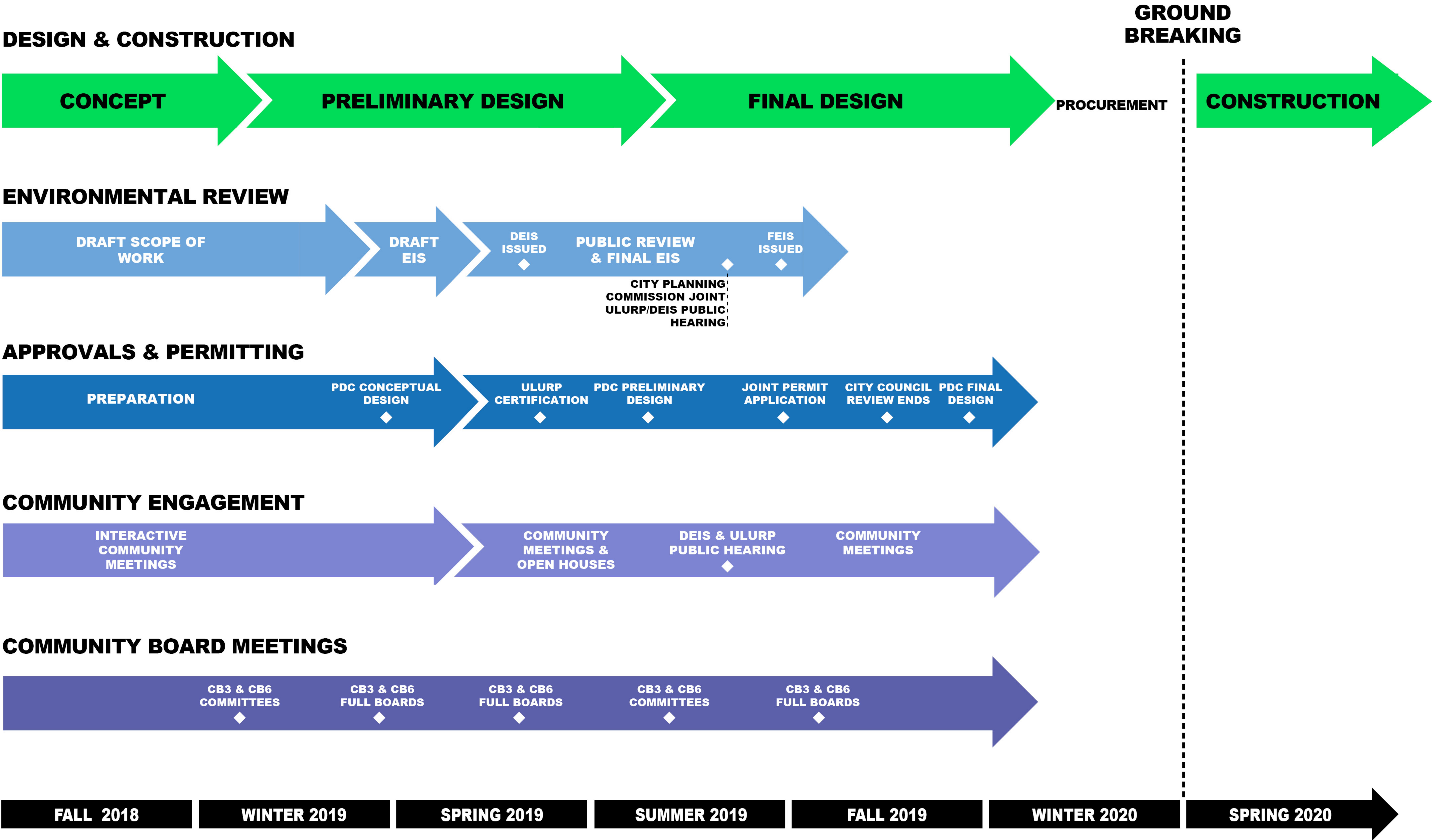


E 10TH STREET BRIDGE
BRIDGE VIEW



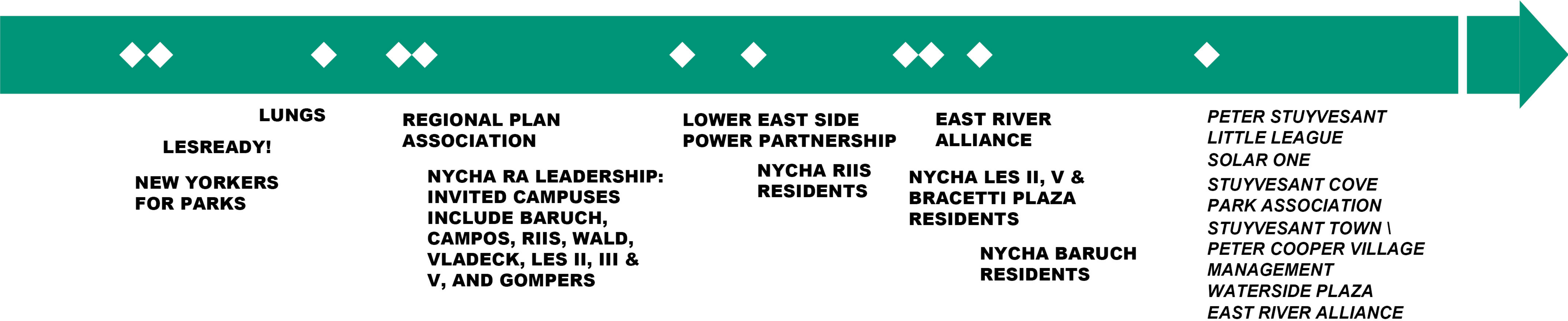
PINCH POINT FLYOVER BRIDGE
CONCEPTUAL DESIGN

COMMUNITY ENGAGEMENT



COMMUNITY ENGAGEMENT SCHEDULE

STAKEHOLDER MEETINGS

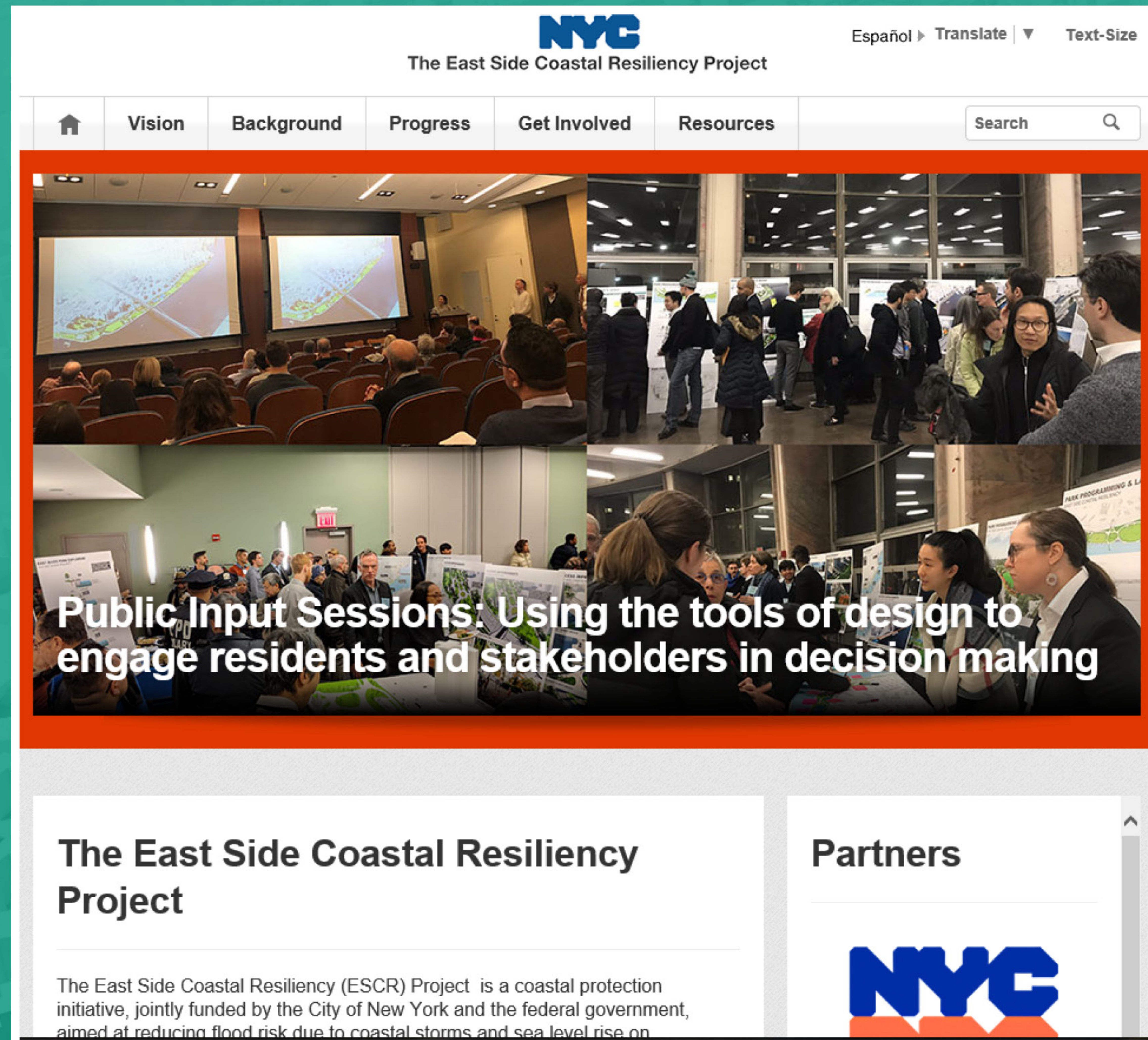


COMMUNITY BOARD & COUNCIL MEMBER MEETINGS



MEETING OCCURRED
MEETINGS TO TAKE PLACE/
TO BE SCHEDULED

Website



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