East Side Coastal Resiliency

Community Board 6
Land Use & Waterfront Committee

433 1st Avenue (NYU School of Dentistry), Room 210

April 22, 2019











PRESENTATION AGENDA PROJECT GOALS CONCEPTUAL DESIGN COASTAL STORM MODELING **ENVIRONMENTAL REVIEW NEXT STEPS**



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.



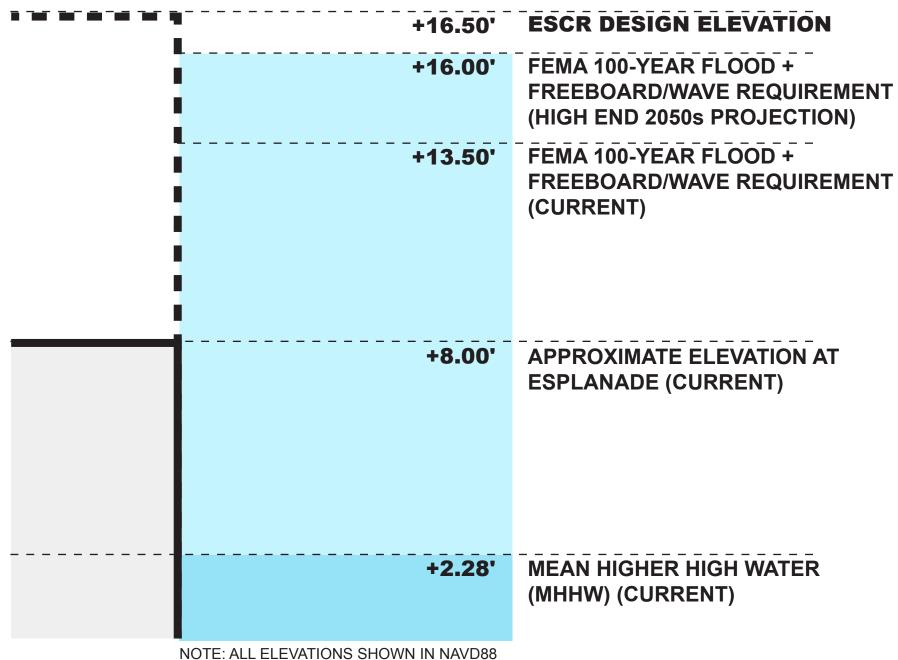
FLOOD PROTECTION DESIGN CRITERIA

DESIGN FLOOD ELEVATIONS

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

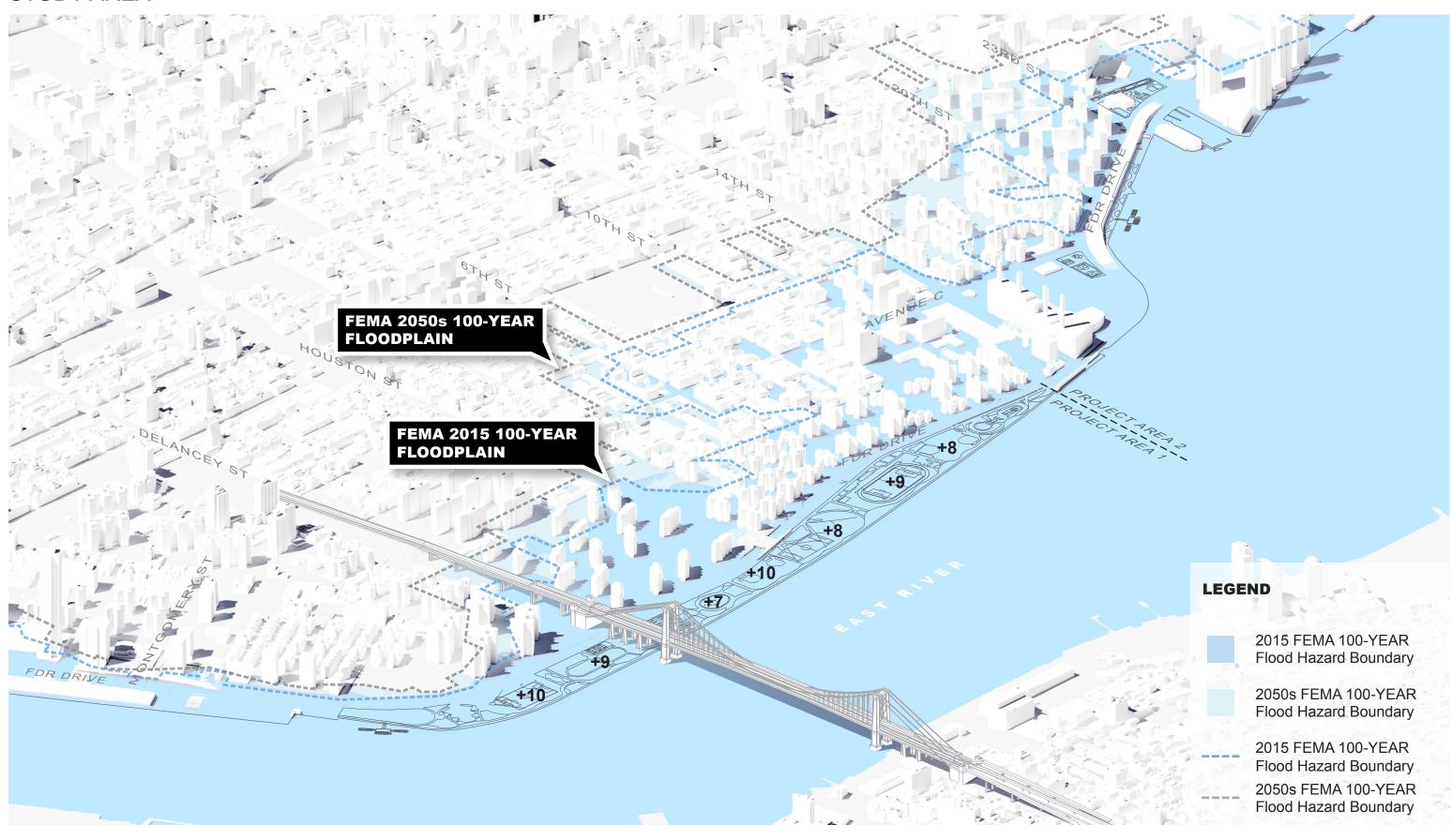
DESIGN HEIGHT:

DESIGN HEIGHT DETERMINED BY 2050s 100-YEAR STORM ELEVATION (INCL 30" SEA LEVEL **RISE) + WAVE ACTION**



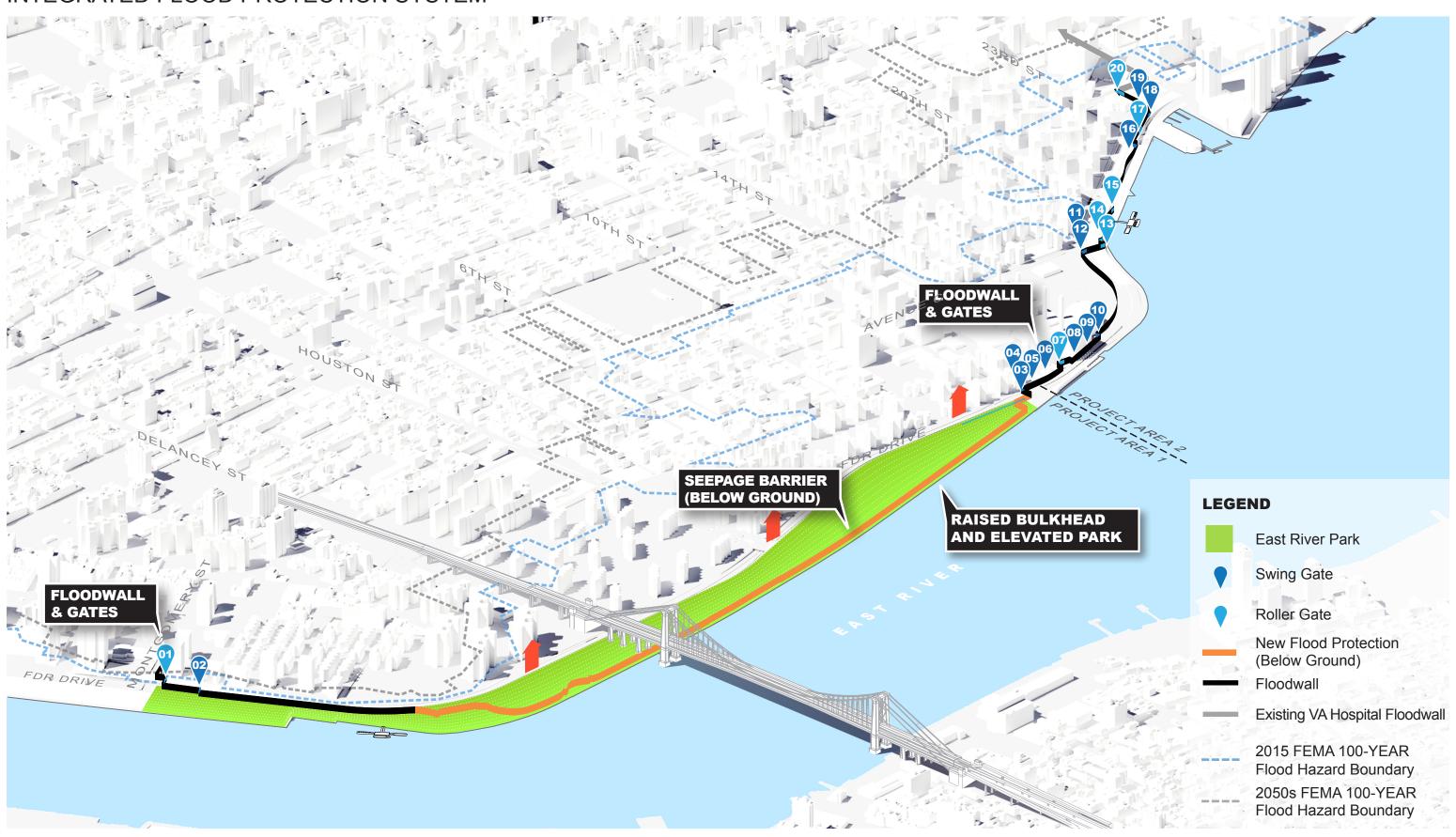
CURRENT AND 2050s 100-YEAR FLOODPLAINS

STUDY AREA



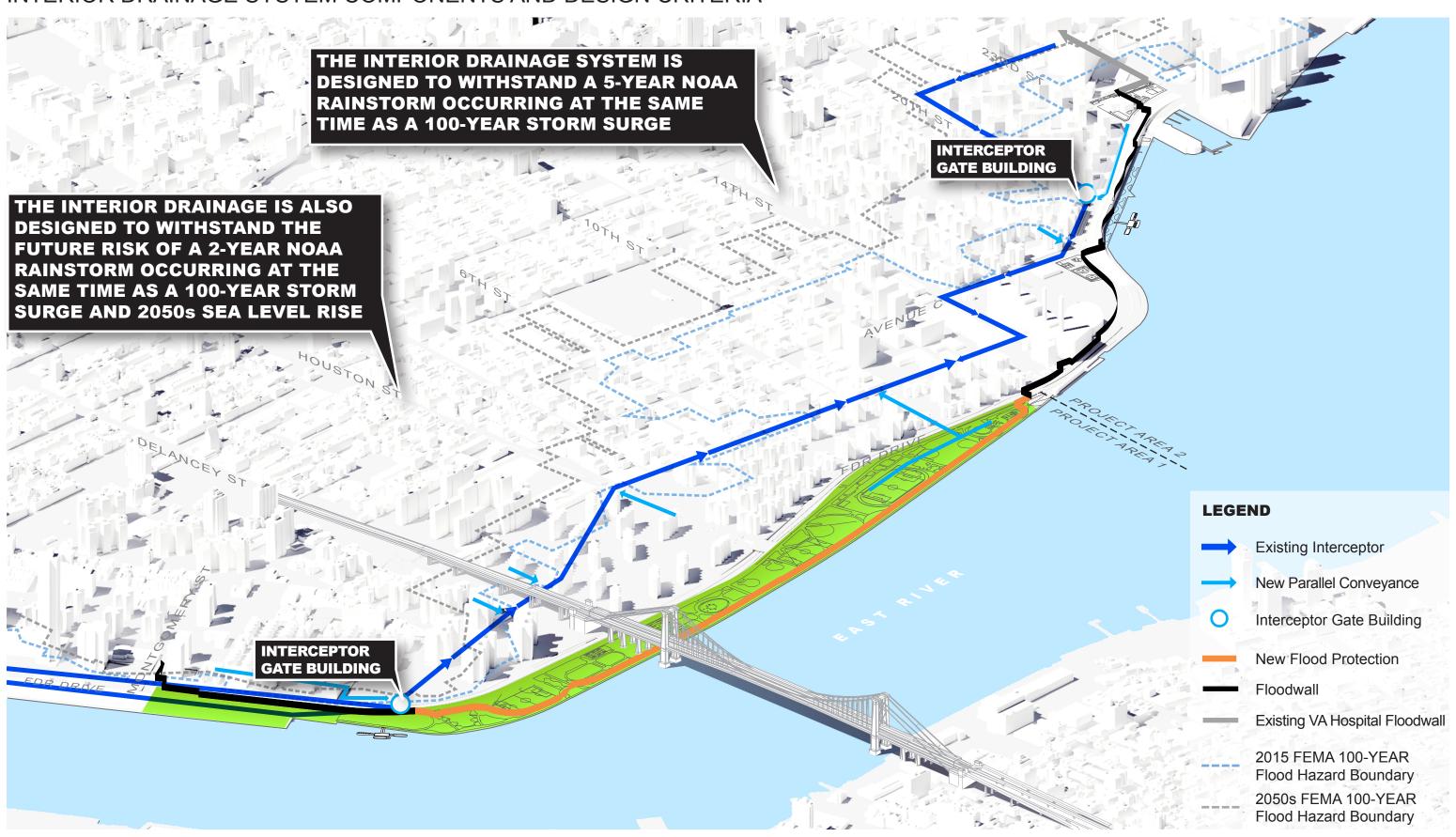
IMPROVED RESILIENCY FOR COMMUNITY

INTEGRATED FLOOD PROTECTION SYSTEM



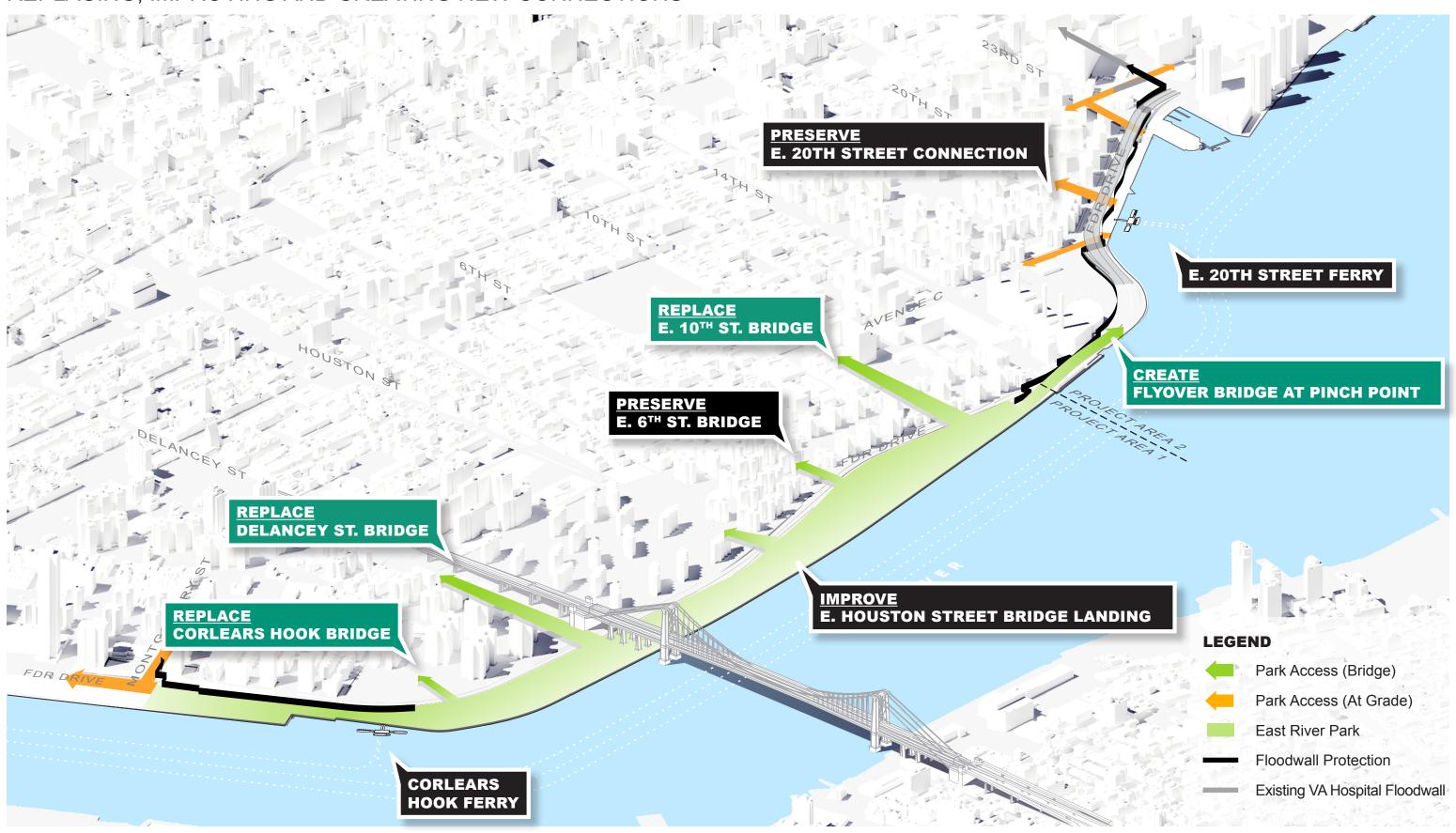
ENHANCING DRAINAGE INFRASTRUCTURE

INTERIOR DRAINAGE SYSTEM COMPONENTS AND DESIGN CRITERIA



IMPROVED WATERFRONT ACCESS

REPLACING, IMPROVING AND CREATING NEW CONNECTIONS







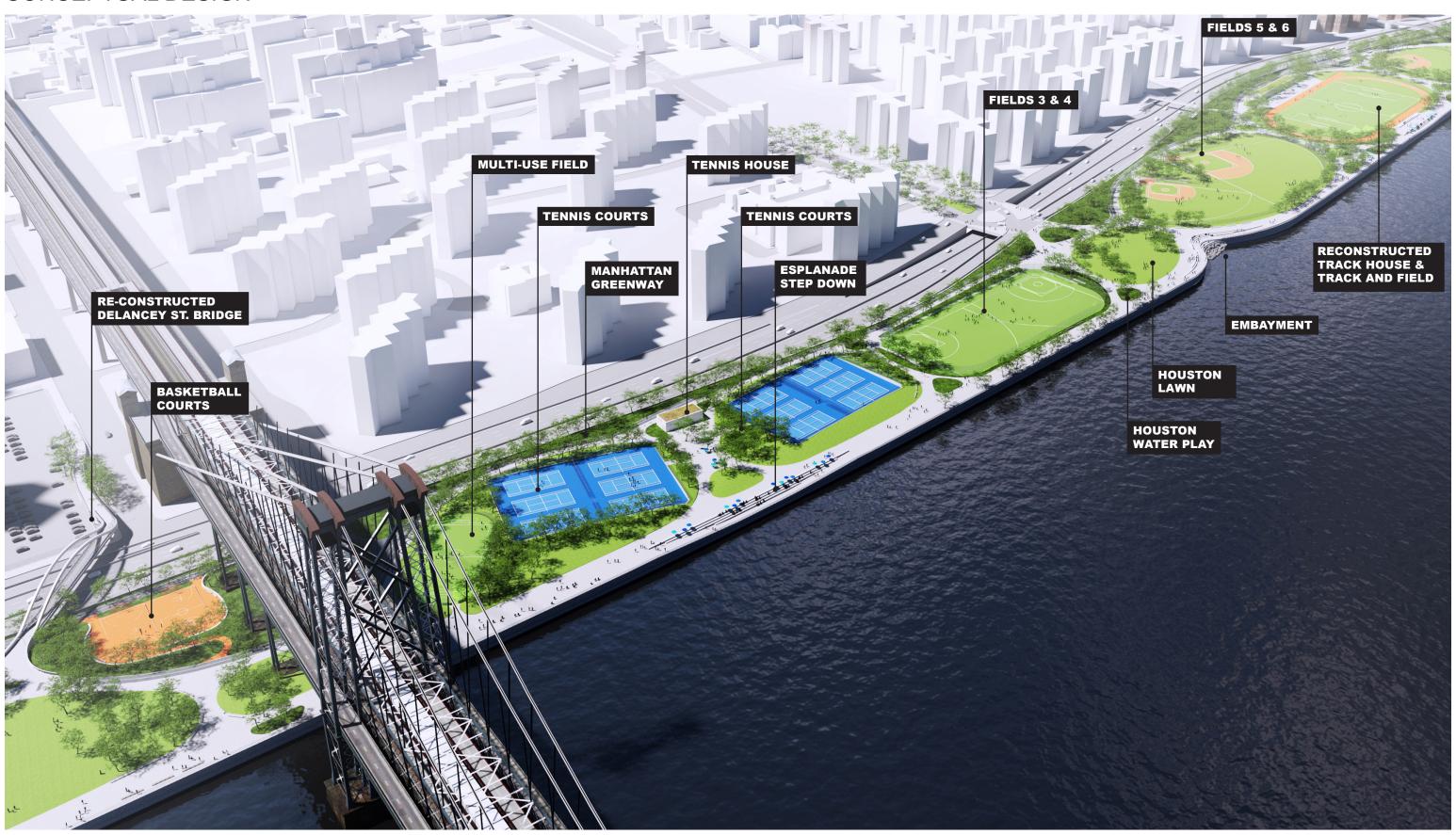
PIER 42 AREA



CORLEARS HOOK TO DELANCEY STREET



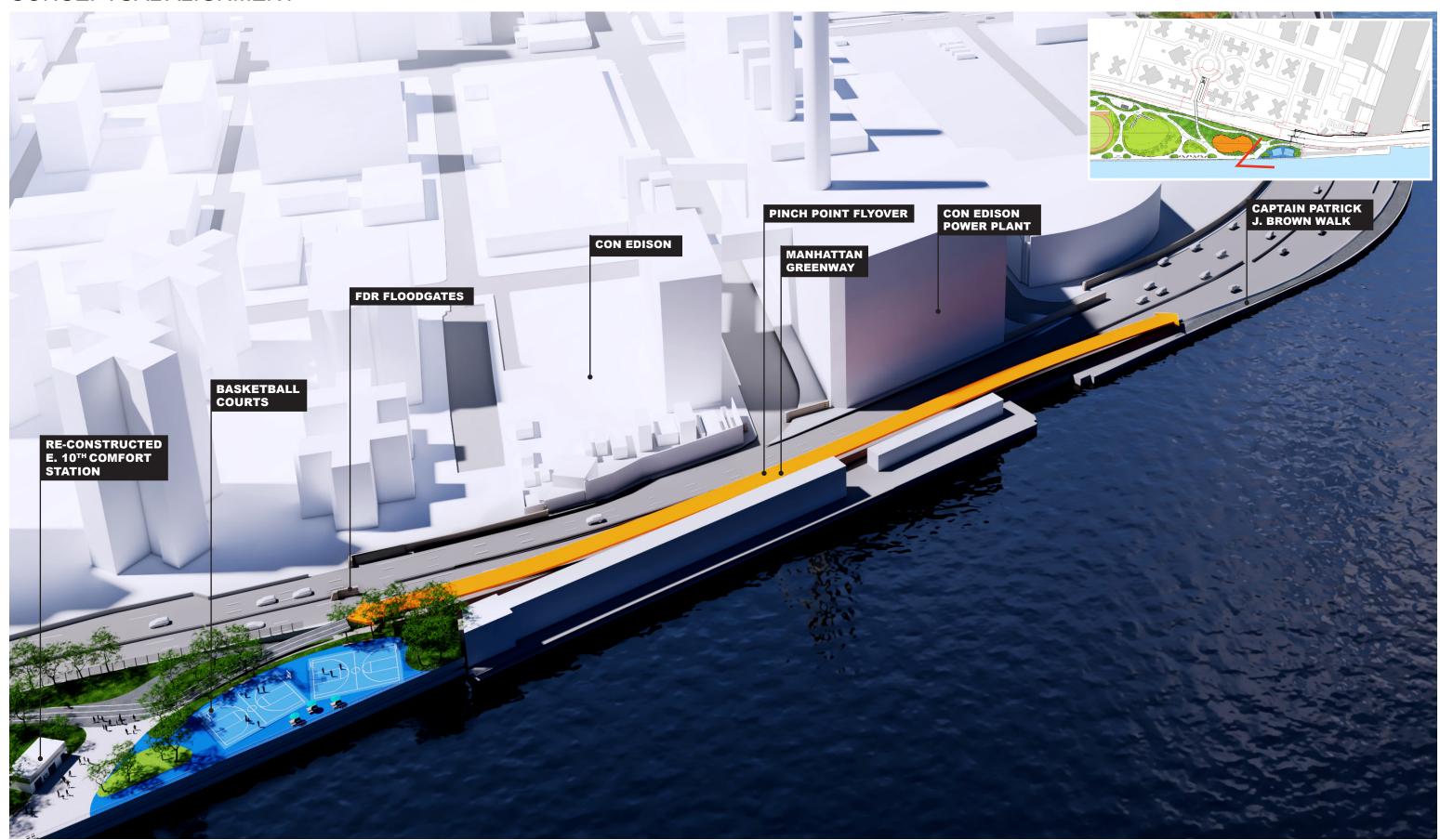
HOUSTON STREET



TRACK & EAST 10TH STREET



FLYOVER BRIDGE (PINCH POINT) CONCEPTUAL ALIGNMENT



PROJECT AREA 2



MURPHY BROTHERS PLAYGROUND

EXISTING CONDITIONS



MURPHY BROTHERS PLAYGROUND



STUYVESANT COVE PARK

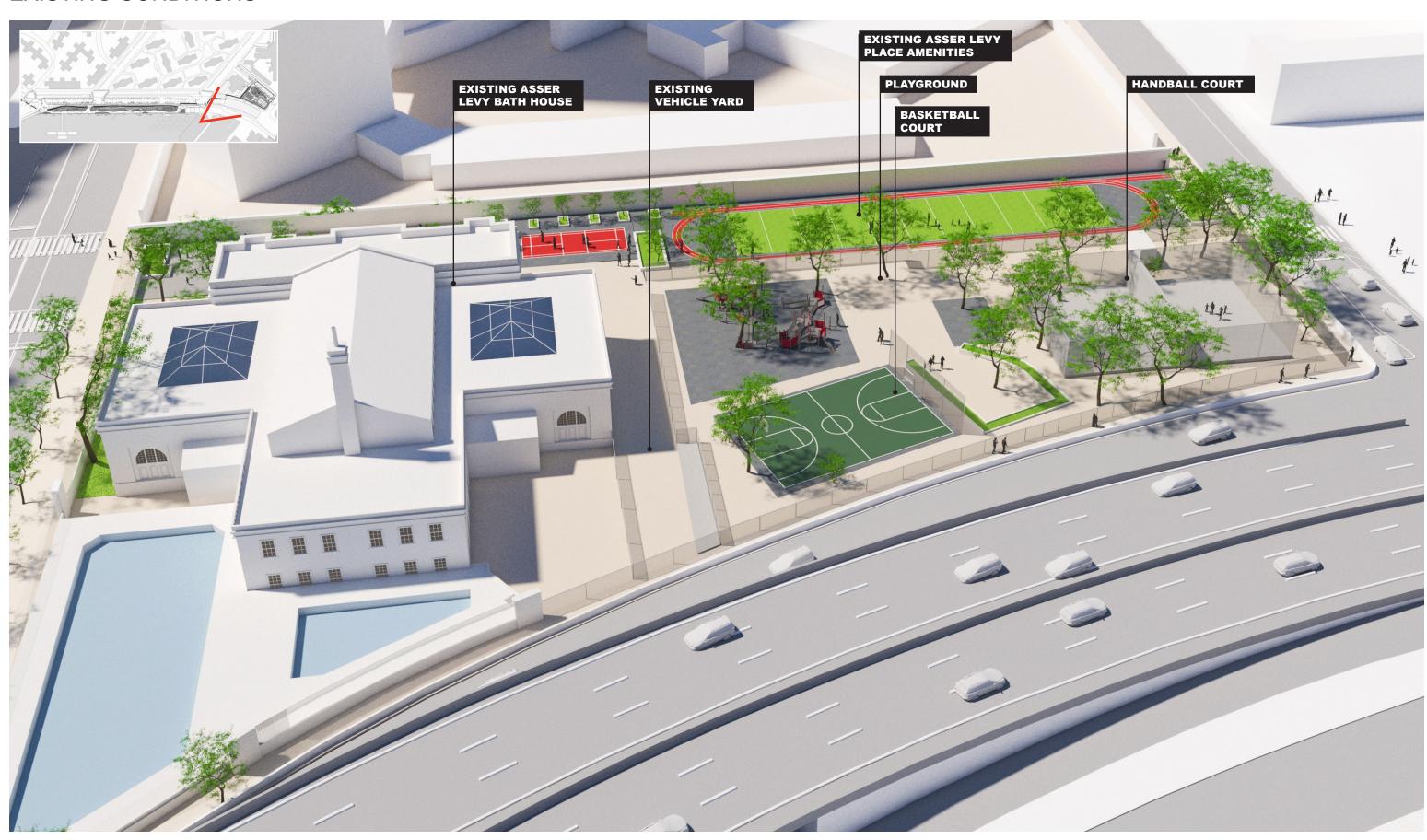
EXISTING CONDITIONS

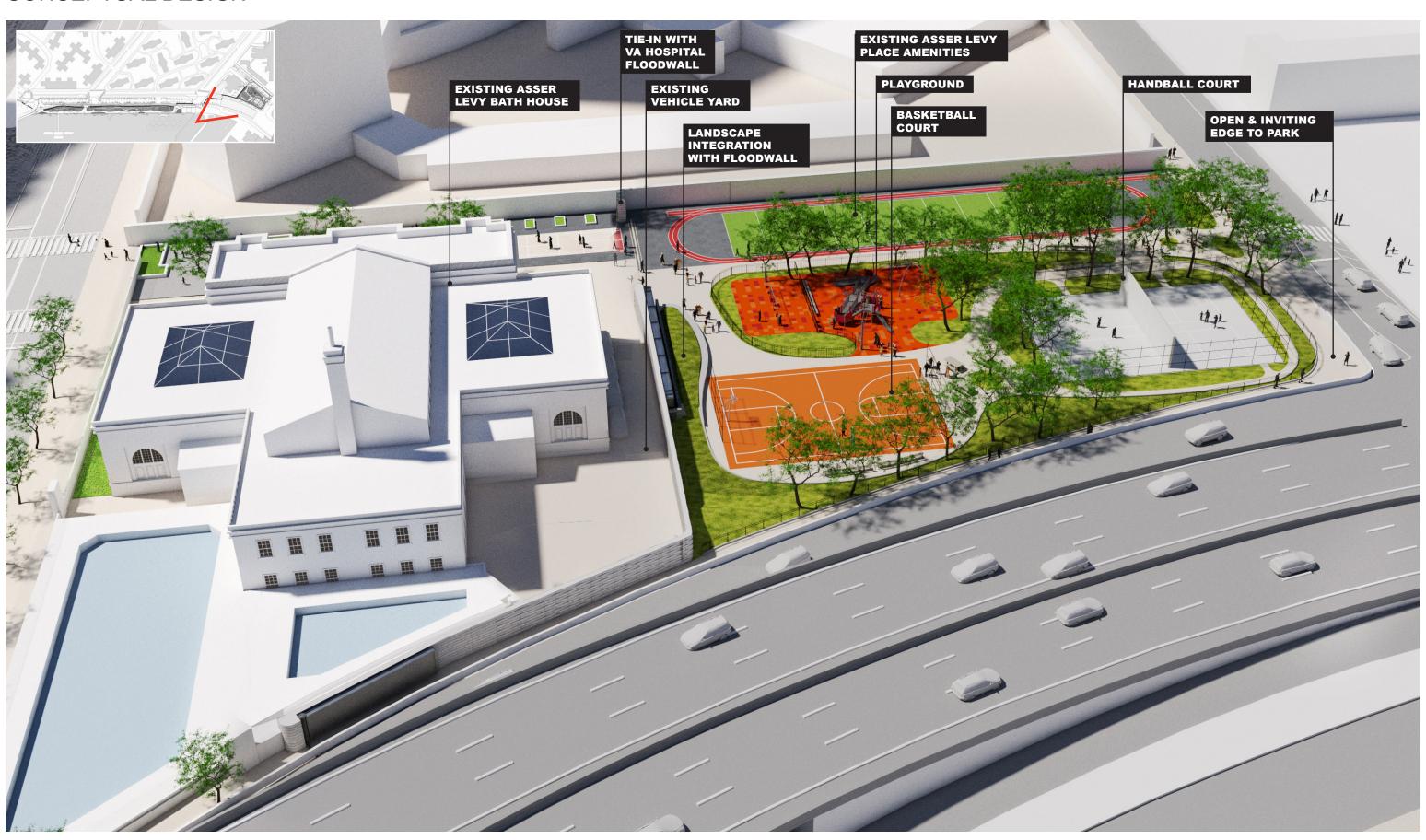


STUYVESANT COVE PARK

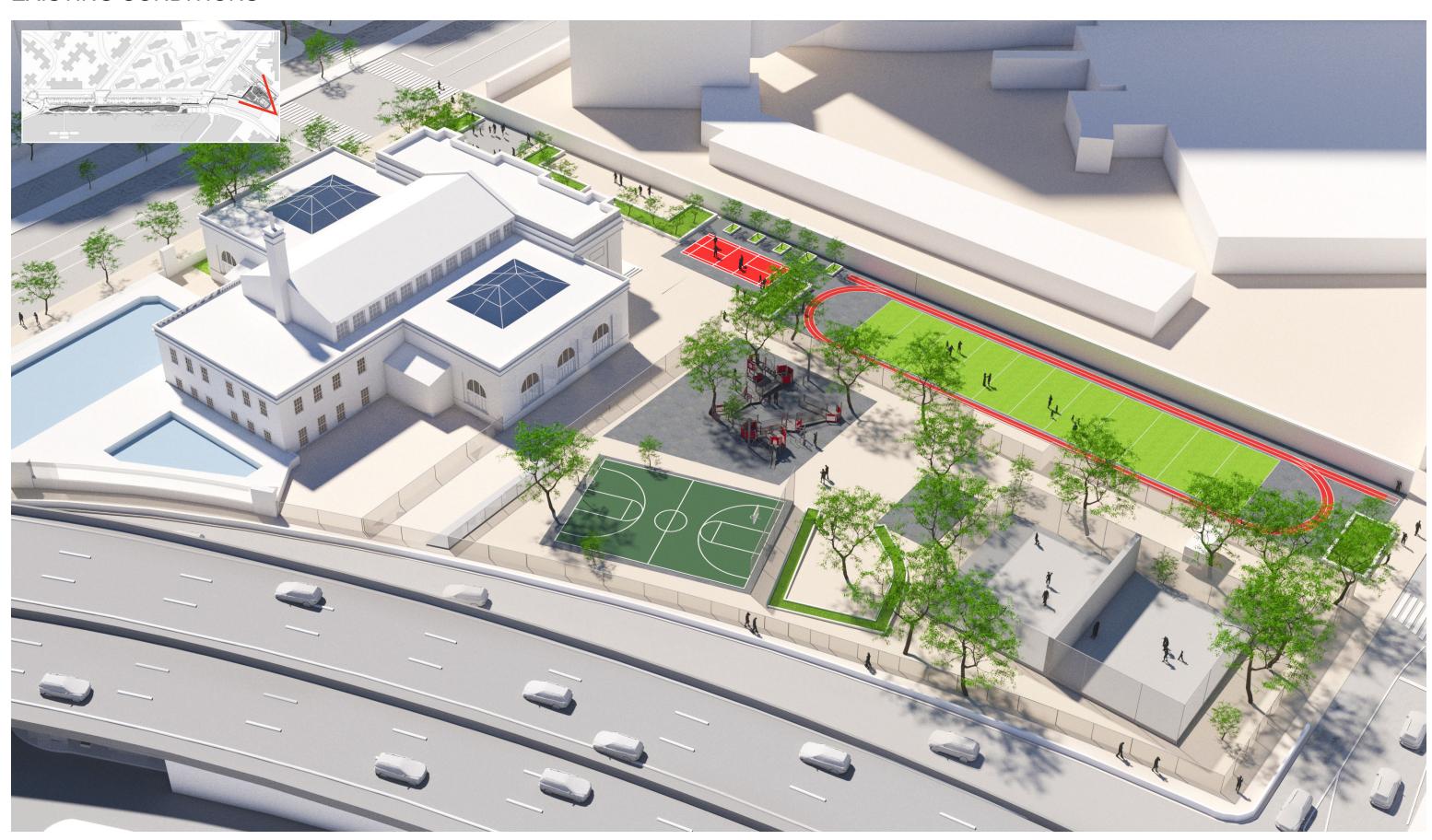


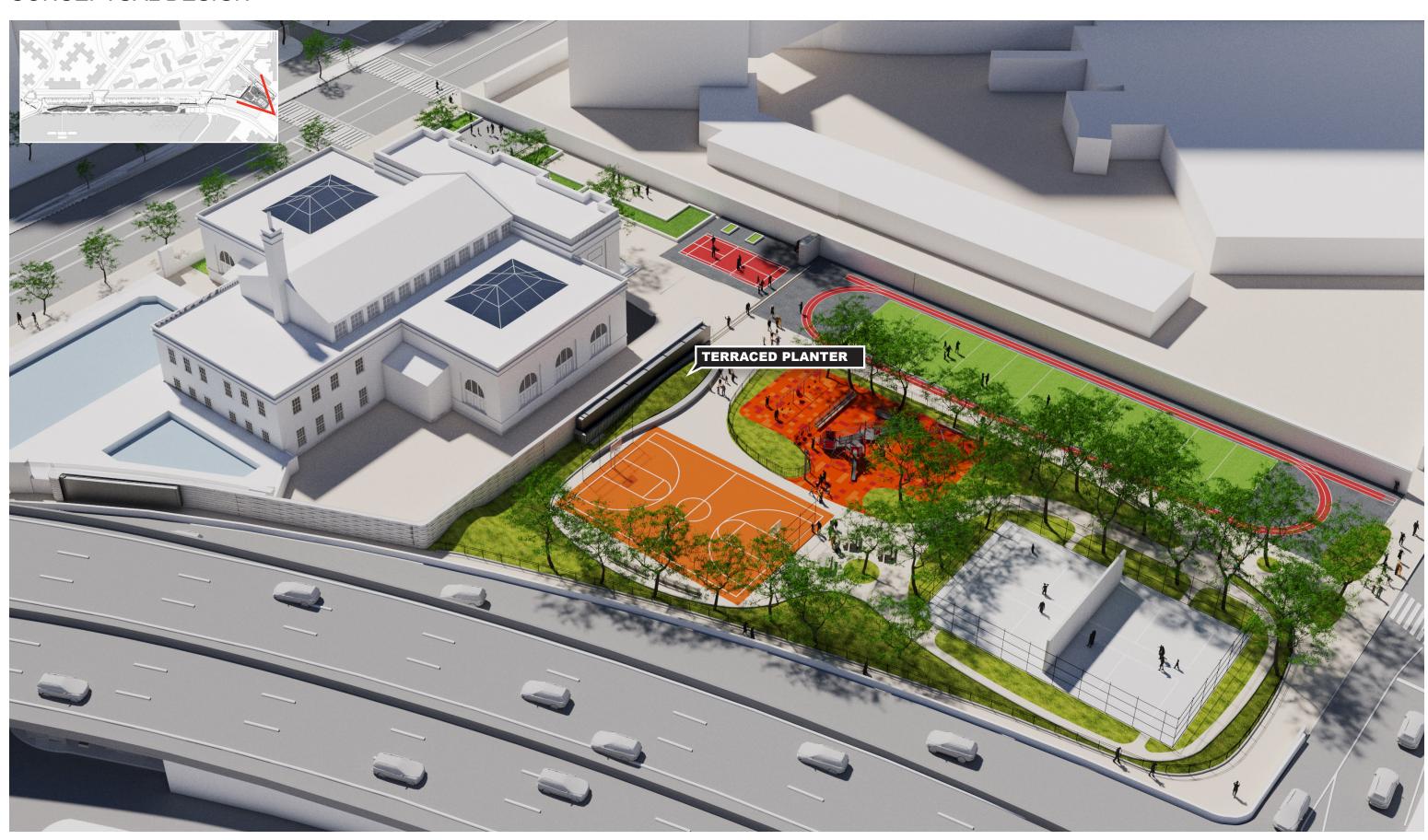
EXISTING CONDITIONS



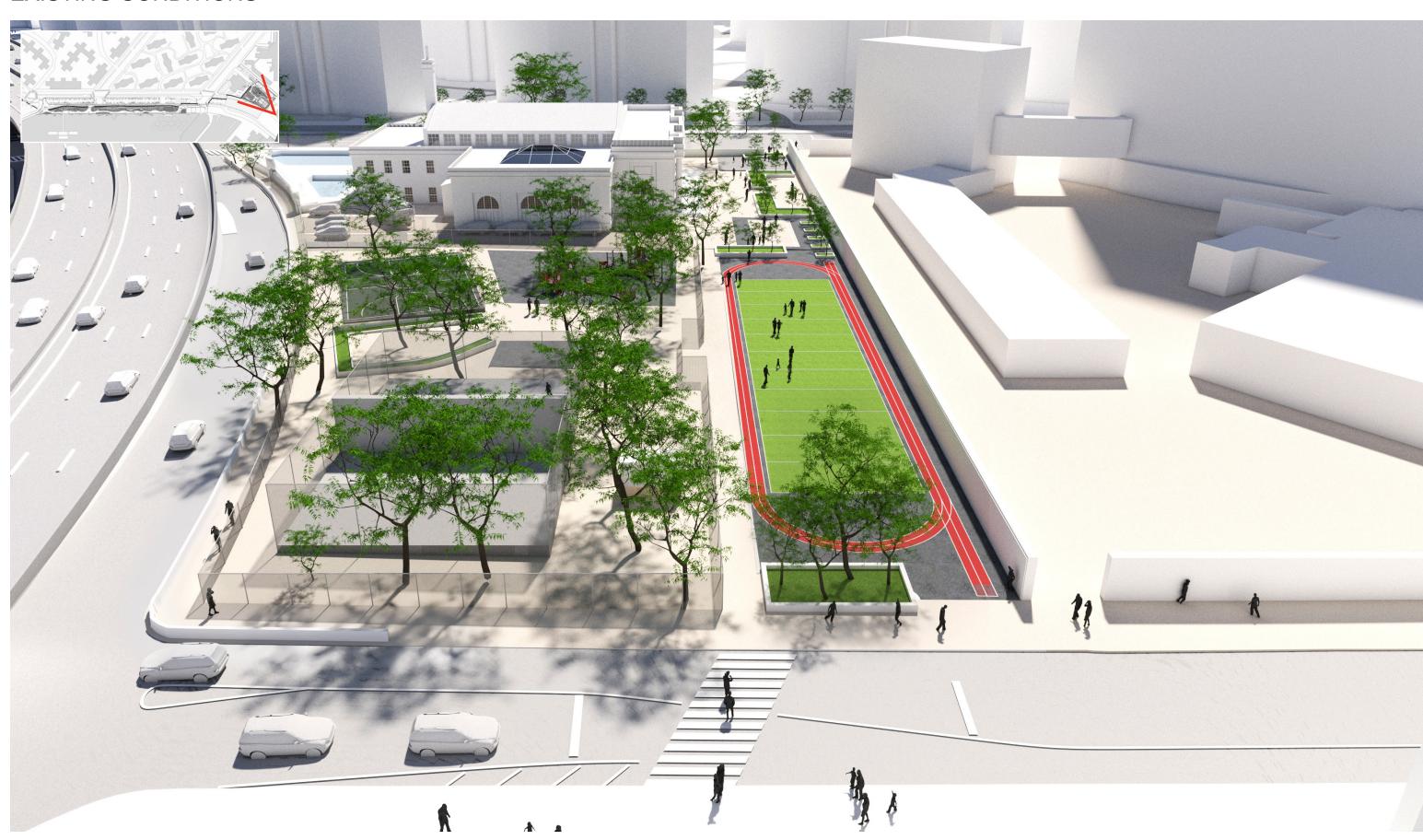


EXISTING CONDITIONS





EXISTING CONDITIONS





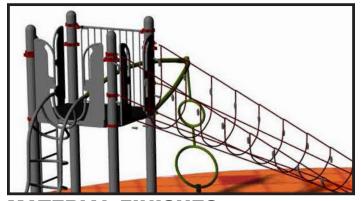
EXISTING CONDITIONS





RESILIENT PLAYGROUND FEATURES

SITE STRATEGY



MATERIAL FINISHES



PLANTING



HARDSCAPE

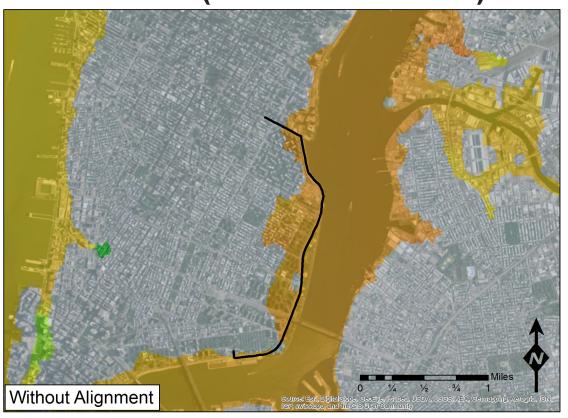


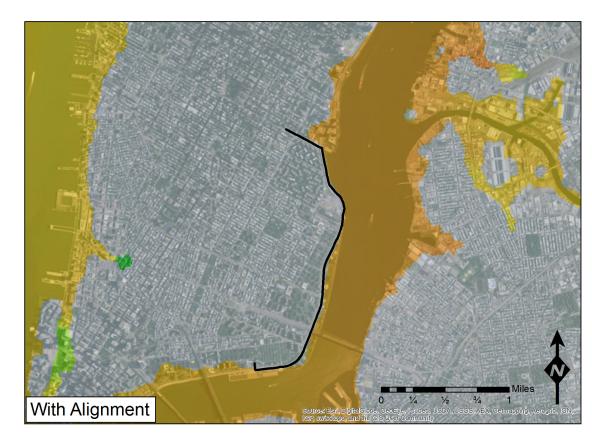


COASTAL STORM MODELING

100 YEAR PEAK STORM TIDE - PRELIMINARY ANALYSIS

CURRENT DAY (NO SEA LEVEL RISE)

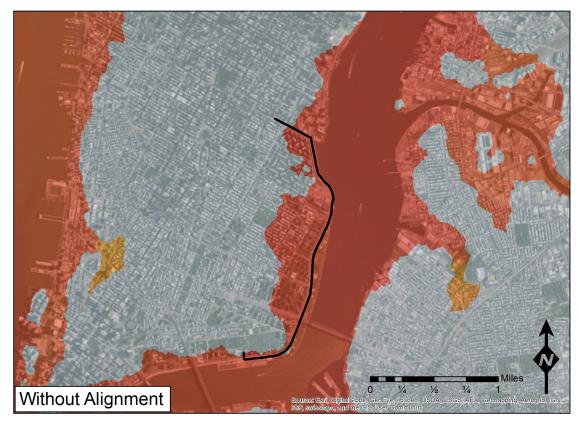


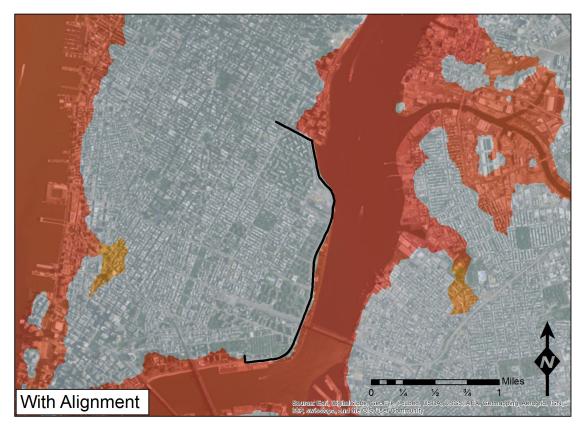


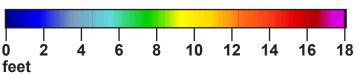
PRINCIPLE CONCLUSIONS

- Areas outside the ESCR Flood
 Protection System alignment would
 not experience any increase or
 decrease in peak storm tide
 elevations caused by the ESCR
 flood protection alignment, in both
 current or future conditions.
- The ESCR Flood Protection
 System would not increase
 flooding in the areas outside of the
 flood protection alignment.

WITH 2050s SEA LEVEL RISE

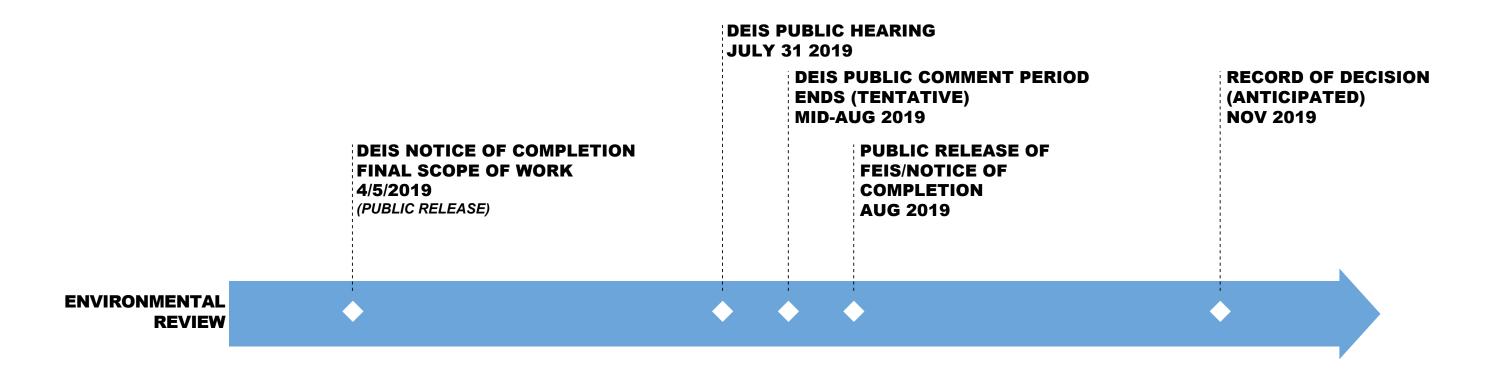


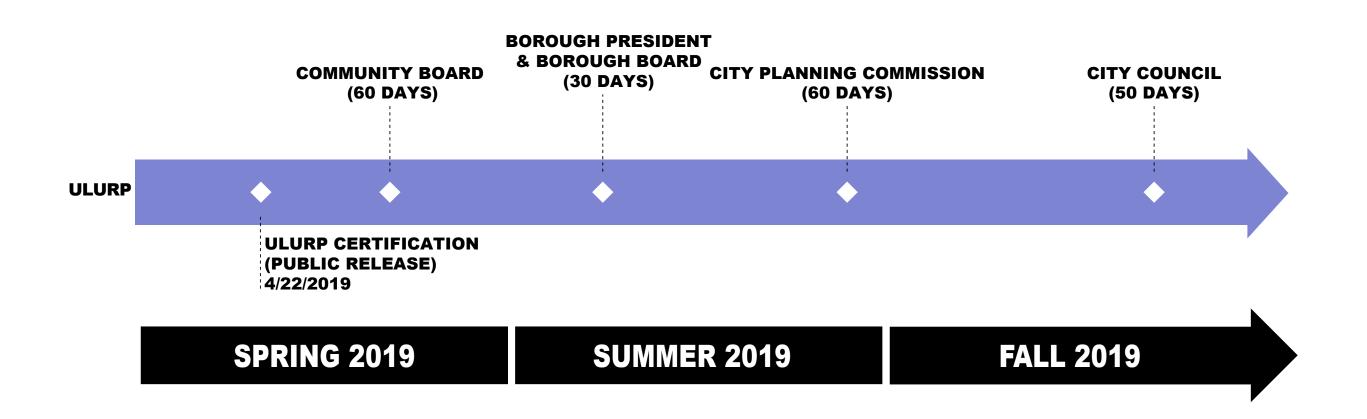






ENVIRONMENTAL REVIEW SCHEDULE





UNIFORM LAND USE REVIEW PROCEDURE (ULURP)

PROPOSED ACTIONS

ACQUISITIONS (EASEMENTS):

Project Area 1

- Gouverneur Gardens Cooperative
- East River Housing Corporation
- NYCHA (Riis Houses and Baruch Houses)

Project Area 2

- Con Edison For Operations & Maintenance of the Flood Protection System
 - Con Edison Power Station
 - Con Edison Office and Parking Lot
- VA Medical Center For Operations & Maintenance of the Flood Protection System
 - VA Hospital
- Captain Patrick J Brown Walk (NYSDOT) For Construction of the Flyover Bridge

A zoning text amendment is necessary to acknowledge compliance of the proposed design with the City's Waterfront Zoning regulations for a portion of the project area.

City Map change (anticipated at a later date) for the reconstruction of pedestrian bridges.

ENVIRONMENTAL REVIEW STANDARDS

COORDINATED ENVIRONMENTAL REVIEW UNDER 3 STATUTES:

Environmental Impact Statement (EIS) will satisfy requirements of all three statutes

- National Environmental Policy Act (NEPA)
- State Environmental Quality Review Act (SEQRA)
- City Environmental Quality Review (CEQR)

LEAD AGENCIES:

Environmental review coordinated by head agencies, with cooperating, involved and interested Federal, State and City agencies

- NEPA NYC Office of Management and Budget
- SEQRA/CEQR Department of Parks & Recreation

ALTERNATIVES ANALYZED IN THE DEIS

ALTERNATIVE 1: No Action Alternative

(Preferred Alternative)

ALTERNATIVE 2: Flood Protection System on the West Side of East River Park –

Baseline

ALTERNATIVE 3: Flood Protection System on the West Side of East River Park –

Enhanced Park and Access

ALTERNATIVE 4: Flood Protection System with a Raised East River Park

ALTERNATIVE 5: Flood Protection System East of FDR Drive

DEIS IMPACT ANALYSES OVERVIEW

DEIS CONSTRUCTION ANALYSES:

- Socioeconomics
- Open Space**
- Historic and Cultural Resources
- Urban Design and Visual Resources (views)
- Natural Resources
- Hazardous Materials
- Water and Sewer Infrastructure
- Energy
- Transportation*
- Air Quality
- Greenhouse Gas
- Noise**
- Public Health

DEIS OPERATIONAL ANALYSES:

- Land Use, Zoning, and Public Policy
- Socioeconomics
- Open Space
- Historic and Cultural Resources
- Urban Design and Visual Resources (views)**
- Natural Resources
- Hazardous Materials
- Water and Sewer Infrastructure
- Transportation
- Neighborhood Character
- Environmental Justice

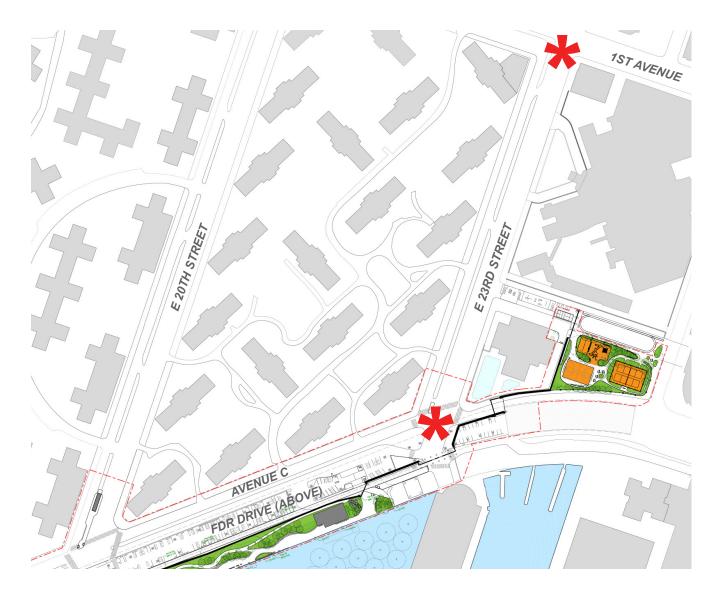
^{*}Potential For Significant Adverse Impacts

^{**}Unavoidable

DEIS - CONSTRUCTION PERIOD EFFECTS

PROJECT AREA 2 - ANALYSES, ASSUMPTIONS AND RESULTS

TRANSPORTATION

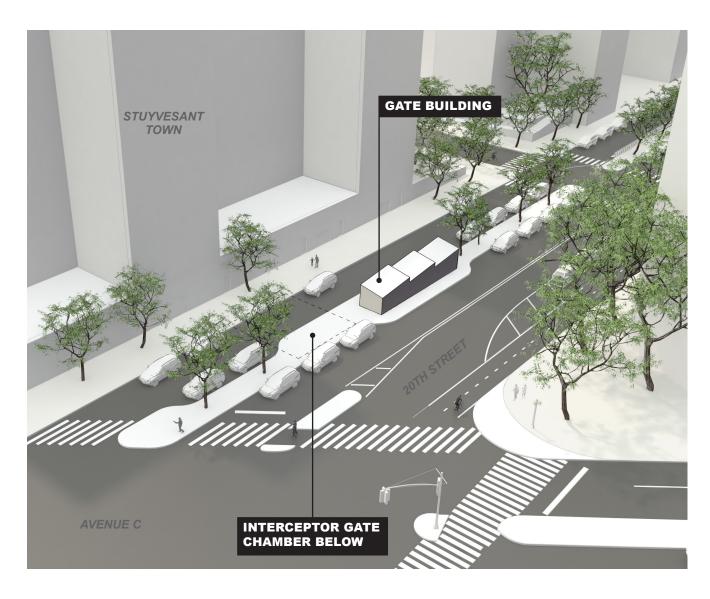


- Traffic impacts during construction identified at the following intersections (and effects could be fully mitigated with signal timing changes):
 - East 23rd Street and First Avenue
 - East 23rd Street and Avenue C
- Maintenance and Protection of Traffic (MPT) Plans are being developed to ensure safety of the public and maintenance of traffic flow during construction

DEIS - CONSTRUCTION PERIOD EFFECTS

PROJECT AREA 2 - ANALYSES, ASSUMPTIONS AND RESULTS

NORTH INTERCEPTOR GATE CHAMBER AND BUILDING

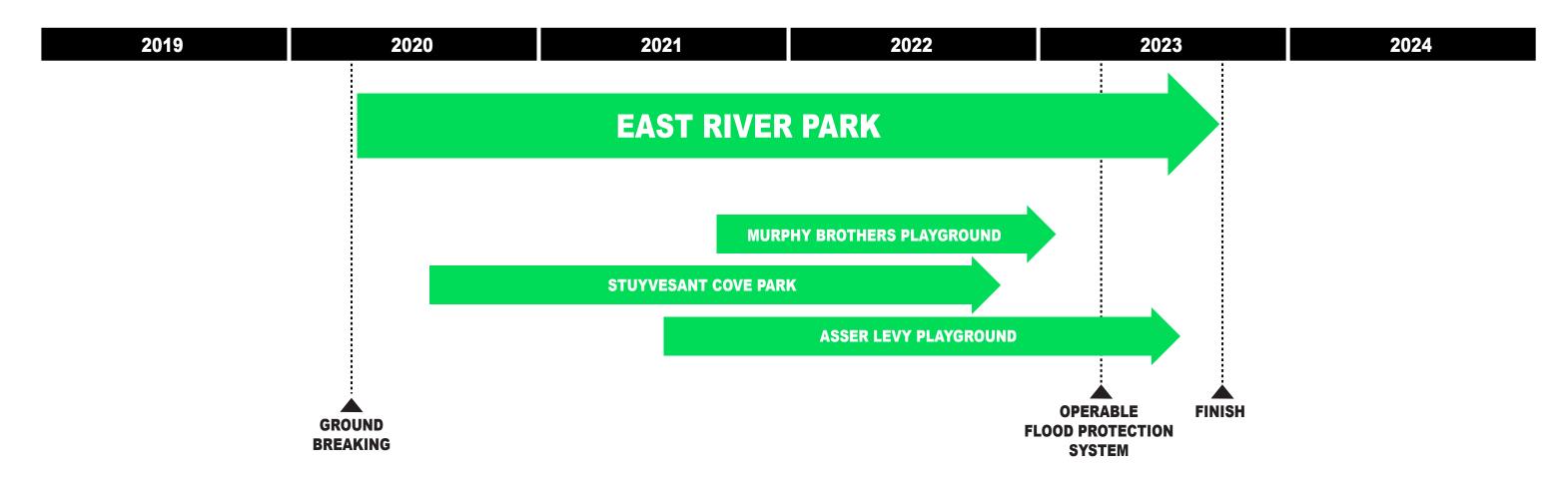


- 20th Street Gate/Gate House construction is anticipated to last for approximately 1 year
- Approximately 11 parking spaces could be lost on East 20th Street during construction and completion of the Interceptor Gate House
- Potential air emission reduction measures include fugitive dust suppression program and an Air Emission Reduction Program (e.g. fuel and idling restrictions)
- Potential construction noise mitigation measures include specifying use of quieter equipment models or methods, as well as use of noise barriers and equipment enclosures
- Preliminary staging areas include existing parking areas under the FDR Drive and the median on East 20th Street

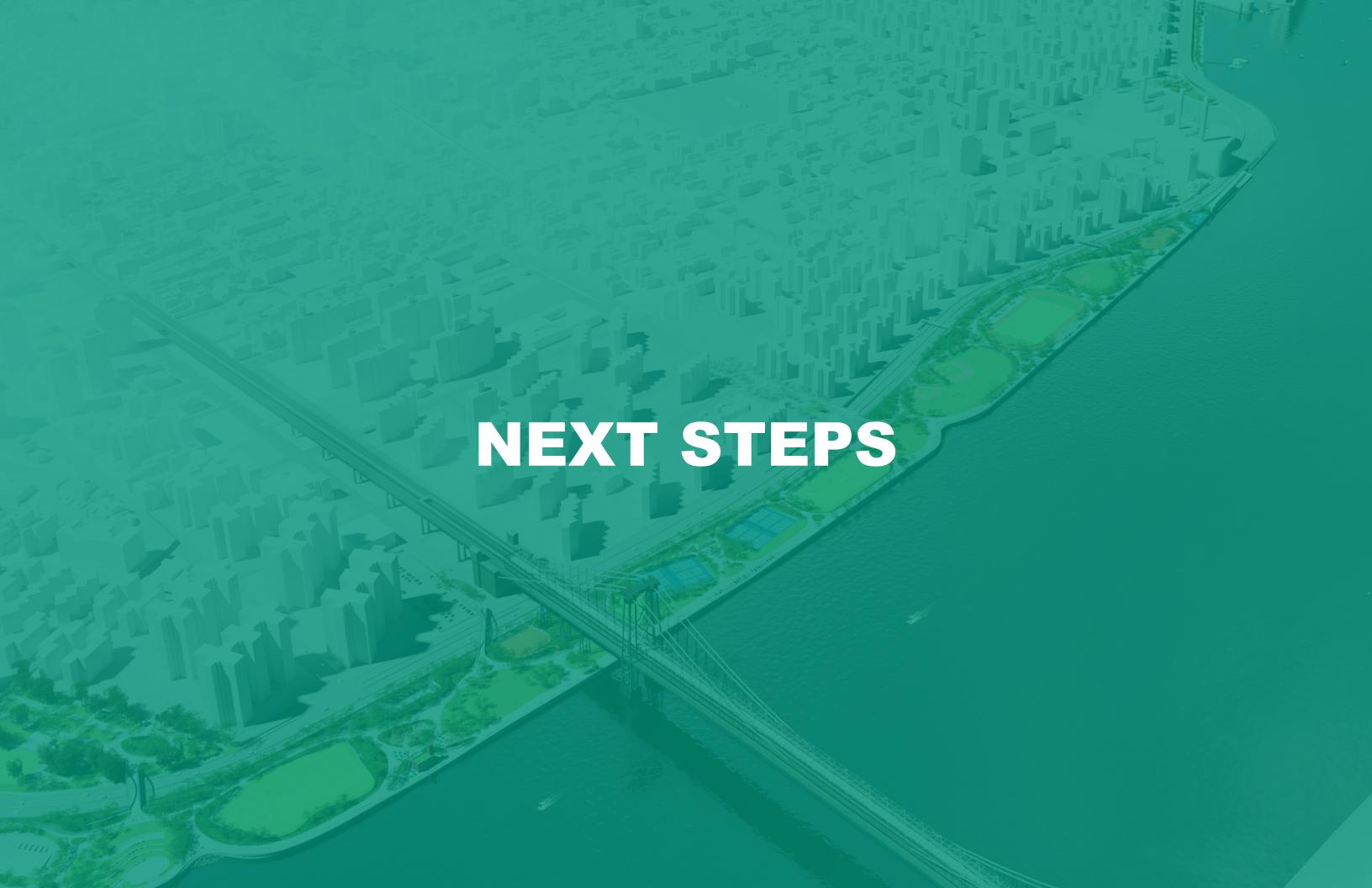
DEIS - CONSTRUCTION PERIOD EFFECTS

PROJECT AREA 2 - ANALYSES, ASSUMPTIONS AND RESULTS

OPEN SPACES:



Note: Pedestrian access to Solar One will be maintained during construction, ferry service will be maintained



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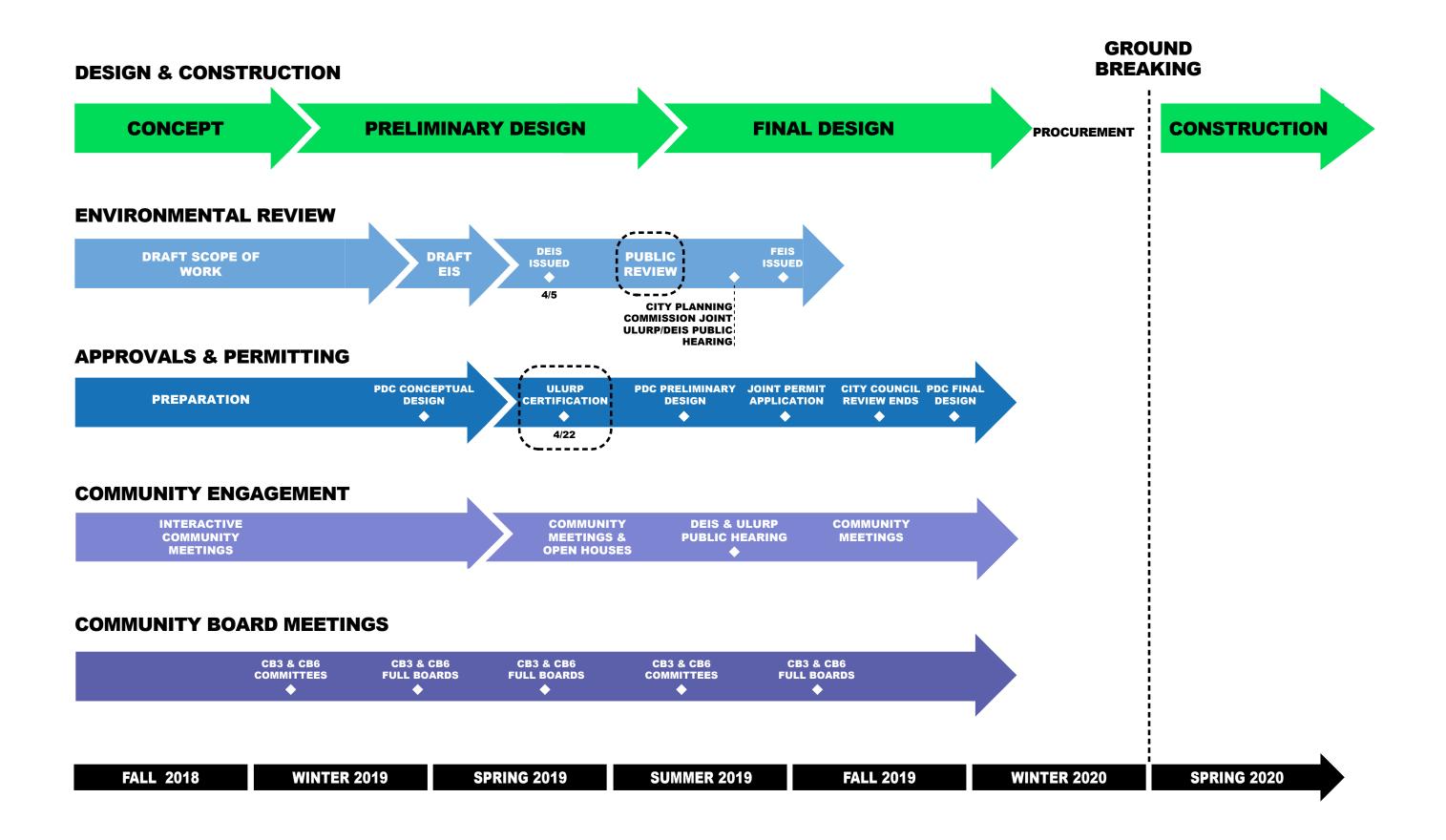
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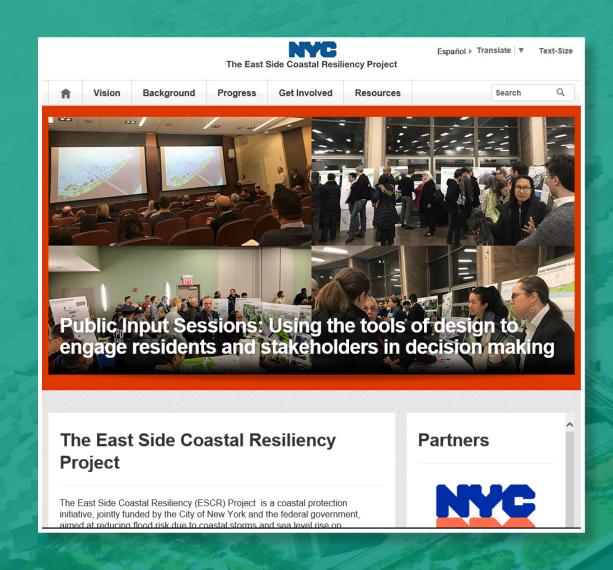
Respond quickly to the urgent need for increased flood protection and resiliency.



NEXT STEPS: DESIGN AND ENGAGEMENT PROCESS



Website



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Twitter: @NYClimate