

# East Side Coastal Resiliency

Stuyvesant Town-Peter Cooper Village  
Tenants Association Meeting

March 26, 2019

Podell Auditorium, Mount Sinai Beth Israel  
10 Nathan D. Perlman Place



# **AGENDA**

An aerial architectural rendering of a city waterfront. A prominent curved road or highway runs along the water's edge. The background shows a dense urban landscape with various buildings and structures. The water is visible on the right side of the image. The entire scene is overlaid with a semi-transparent teal color.

**PROJECT SCHEDULE**

**DESIGN PROGRESS**

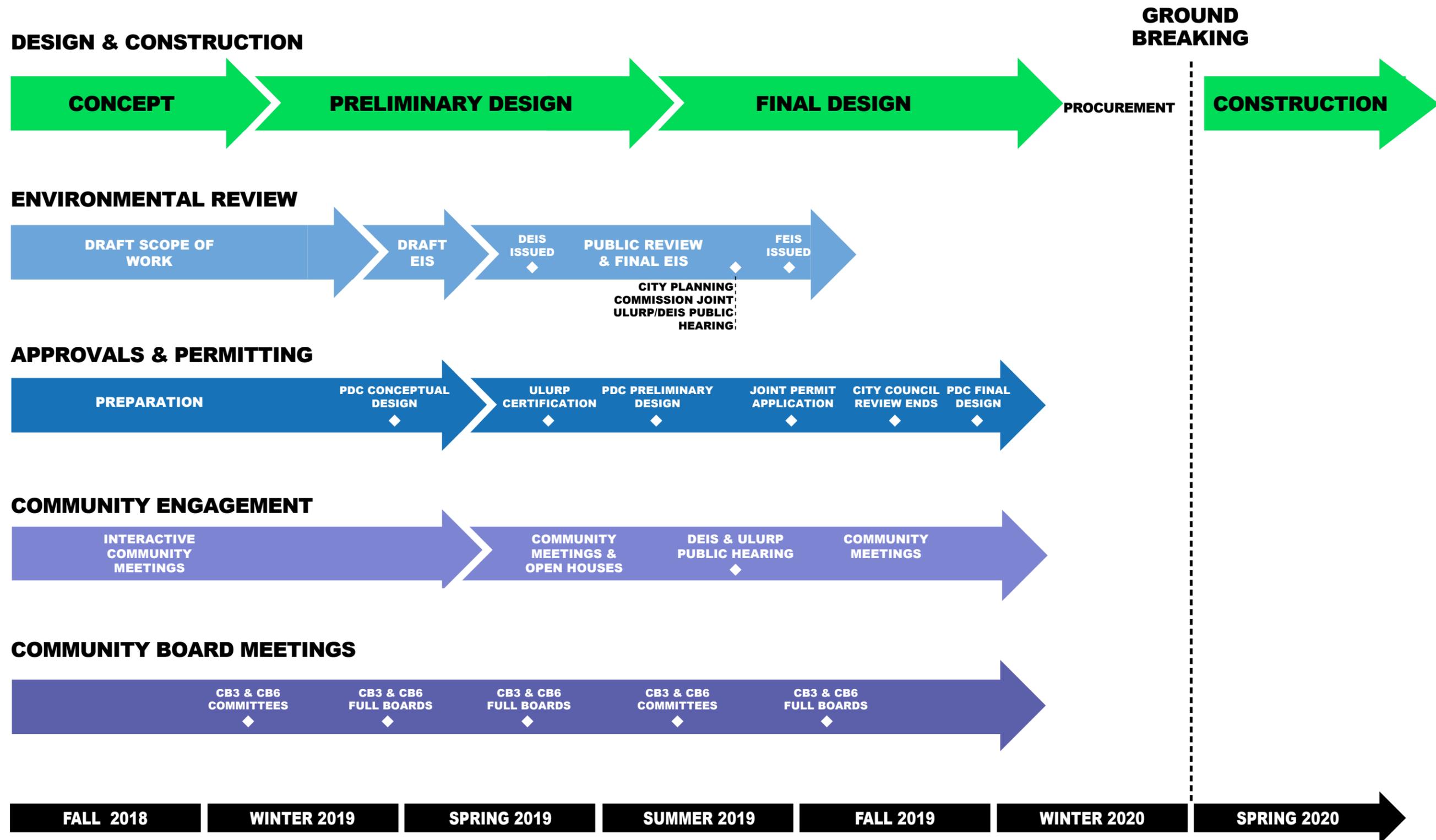
**CIRCULATION / VIEWS**

**DRAINAGE IMPROVEMENTS**

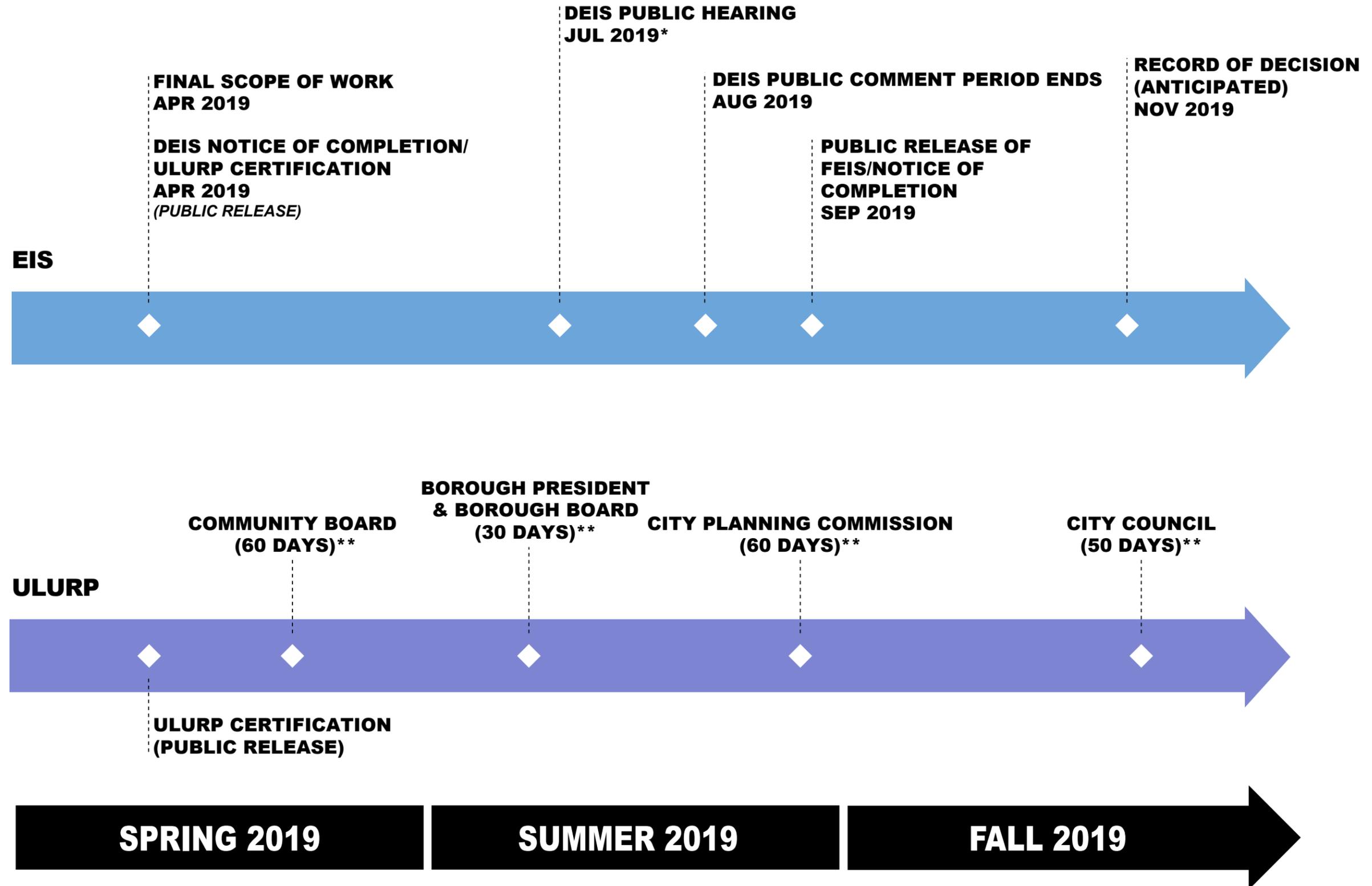
An aerial, top-down view of a cityscape, rendered in a monochromatic teal color. The image shows a dense urban environment with numerous buildings of varying heights. A prominent feature is a multi-lane highway that curves through the city, running parallel to a body of water. The water is also rendered in the same teal hue. In the lower-left quadrant, there is a small, rectangular area that appears to be a park or sports field, with some greenery and what looks like a basketball court. The overall scene is a stylized, architectural rendering of a city's infrastructure and layout.

# PROJECT SCHEDULE

# CONSTRUCTION & COMMUNITY ENGAGEMENT TIMELINE



# PRELIMINARY ENVIRONMENTAL REVIEW SCHEDULE

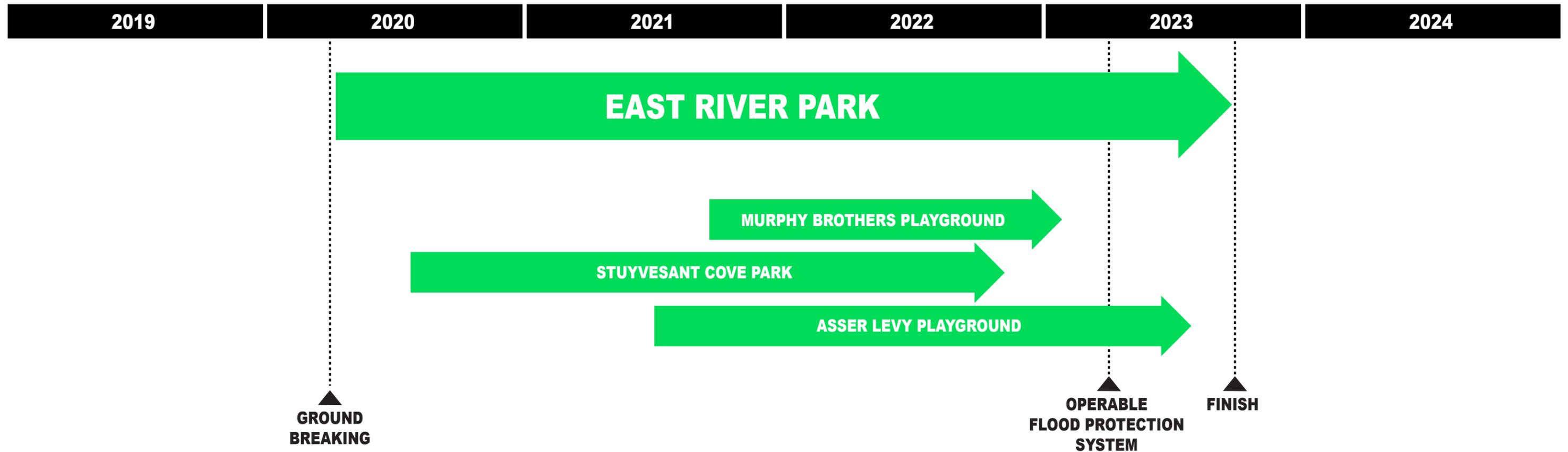


\* DEIS COMMENT PERIOD EXTENDS 15 DAYS AFTER PUBLIC HEARING

\*\* INCLUDES PUBLIC HEARING

# IMPROVED SCHEDULE

OPERABLE SYSTEMS FOR 2023 HURRICANE SEASON



An aerial architectural rendering of a city waterfront development. The scene features a multi-lane highway curving along a body of water. On the left side of the highway, there are several rectangular buildings and a green area with what appears to be a sports field or park. On the right side, there are more buildings, including a large, modern structure with a curved facade. The water is dark blue, and there are some small boats or structures in the distance. The entire image has a teal color overlay.

# DESIGN PROGRESS

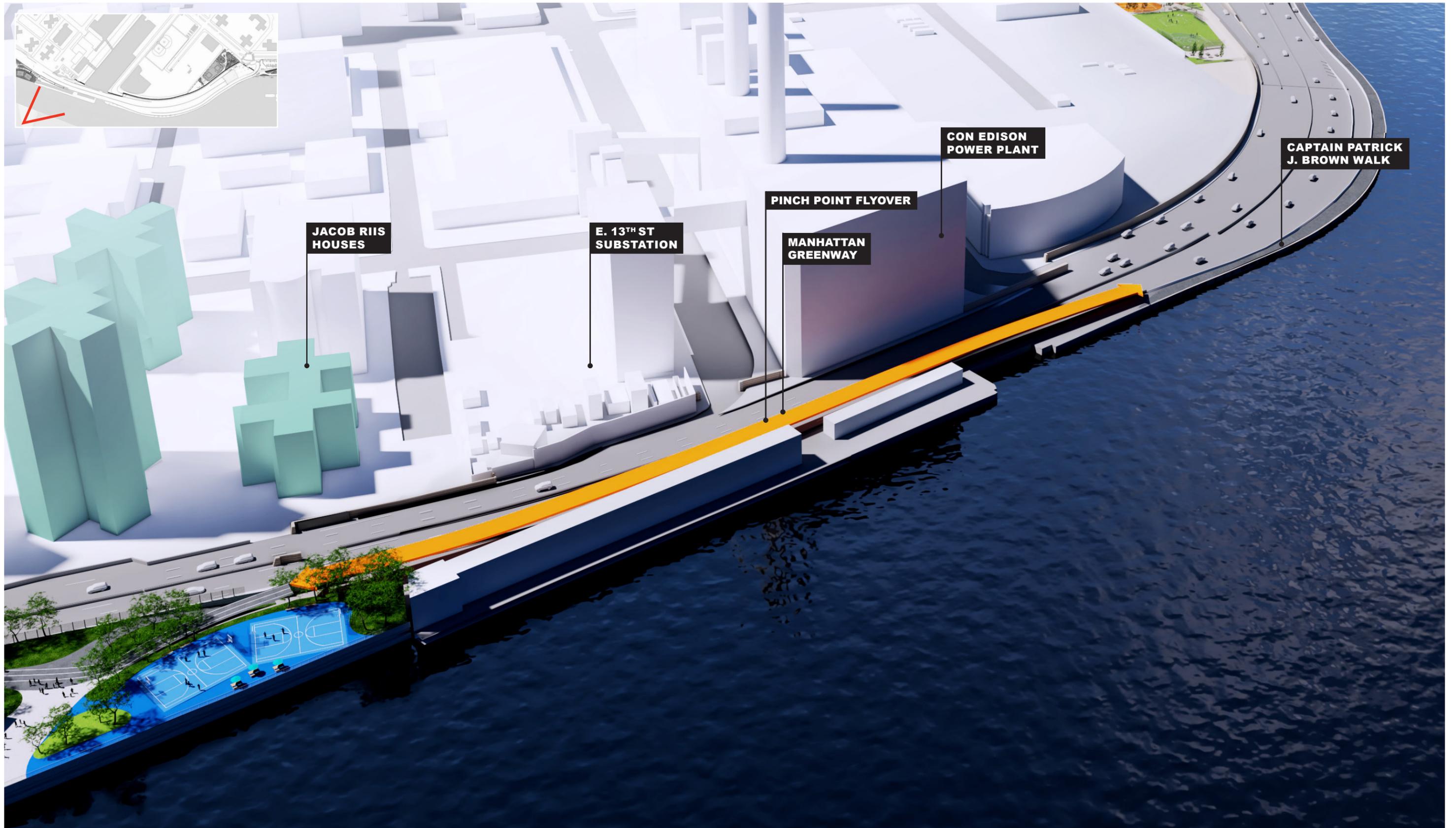
# OVERALL PROJECT AREA

## PROJECT AREA 1 AND 2



# PINCH POINT FLYOVER BRIDGE

AERIAL VIEW



# PROJECT AREA 2 PARKS

PRELIMINARY DESIGN



# MURPHY BROTHERS PLAYGROUND

EXISTING CONDITIONS



# MURPHY BROTHERS PLAYGROUND

PRELIMINARY DESIGN



# MURPHY BROTHERS PLAYGROUND

PRELIMINARY DESIGN



# STUYVESANT COVE PARK

EXISTING CONDITIONS



# STUYVESANT COVE PARK

PRELIMINARY DESIGN



# STUYVESANT COVE PARK - EAST 18TH STREET

PRELIMINARY DESIGN



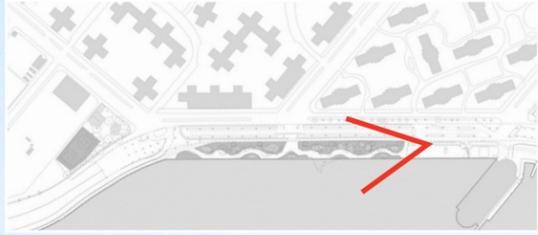
# STUYVESANT COVE PARK - 20TH STREET ENTRY

PRELIMINARY DESIGN



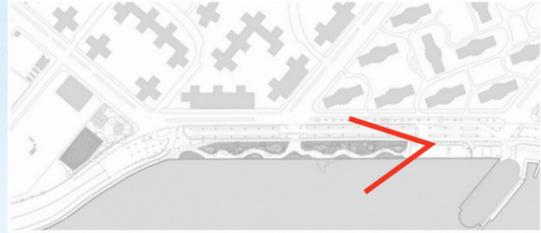
# STUYVESANT COVE PARK

EXISTING CONDITIONS



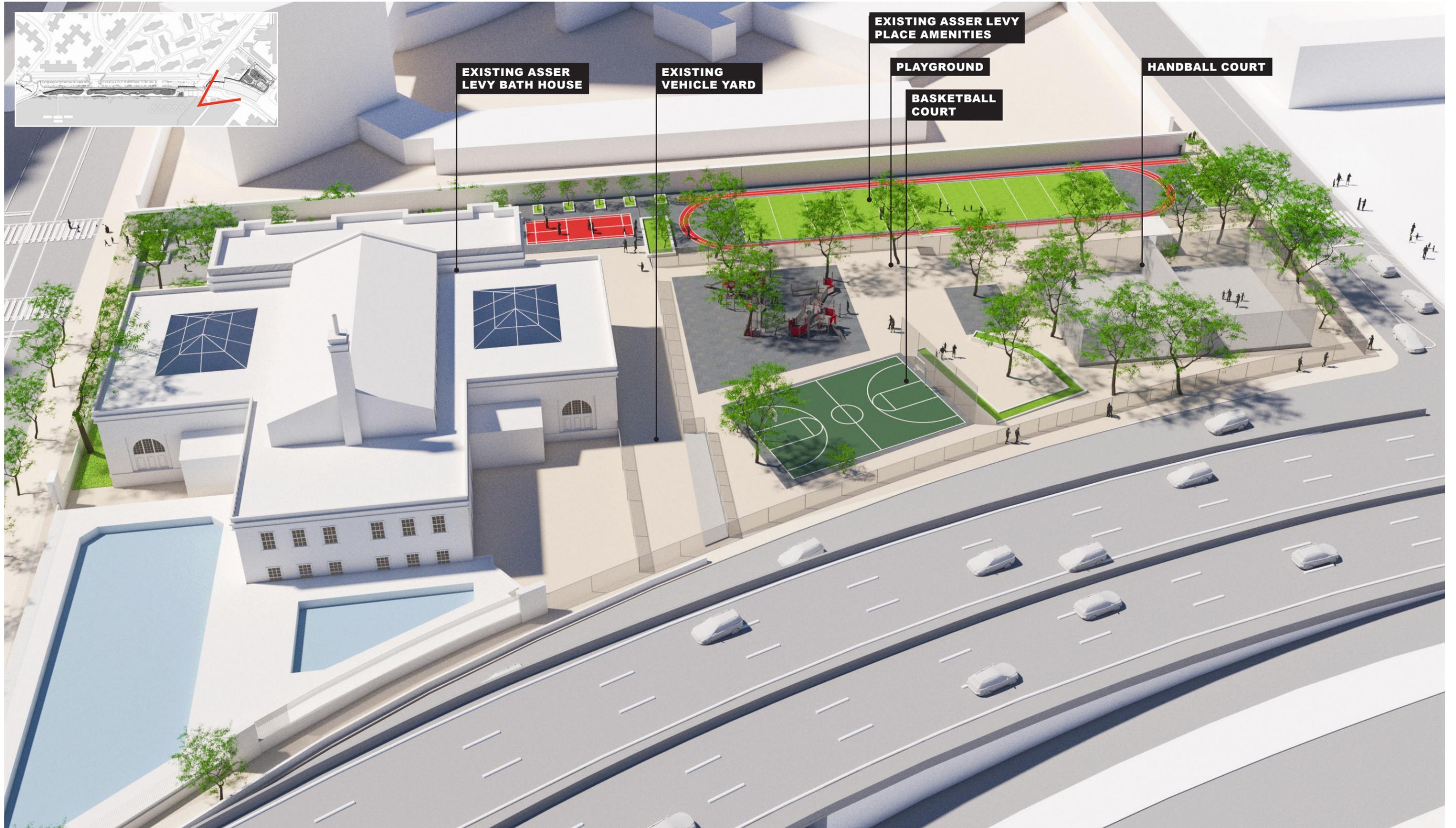
# STUYVESANT COVE PARK

PRELIMINARY DESIGN



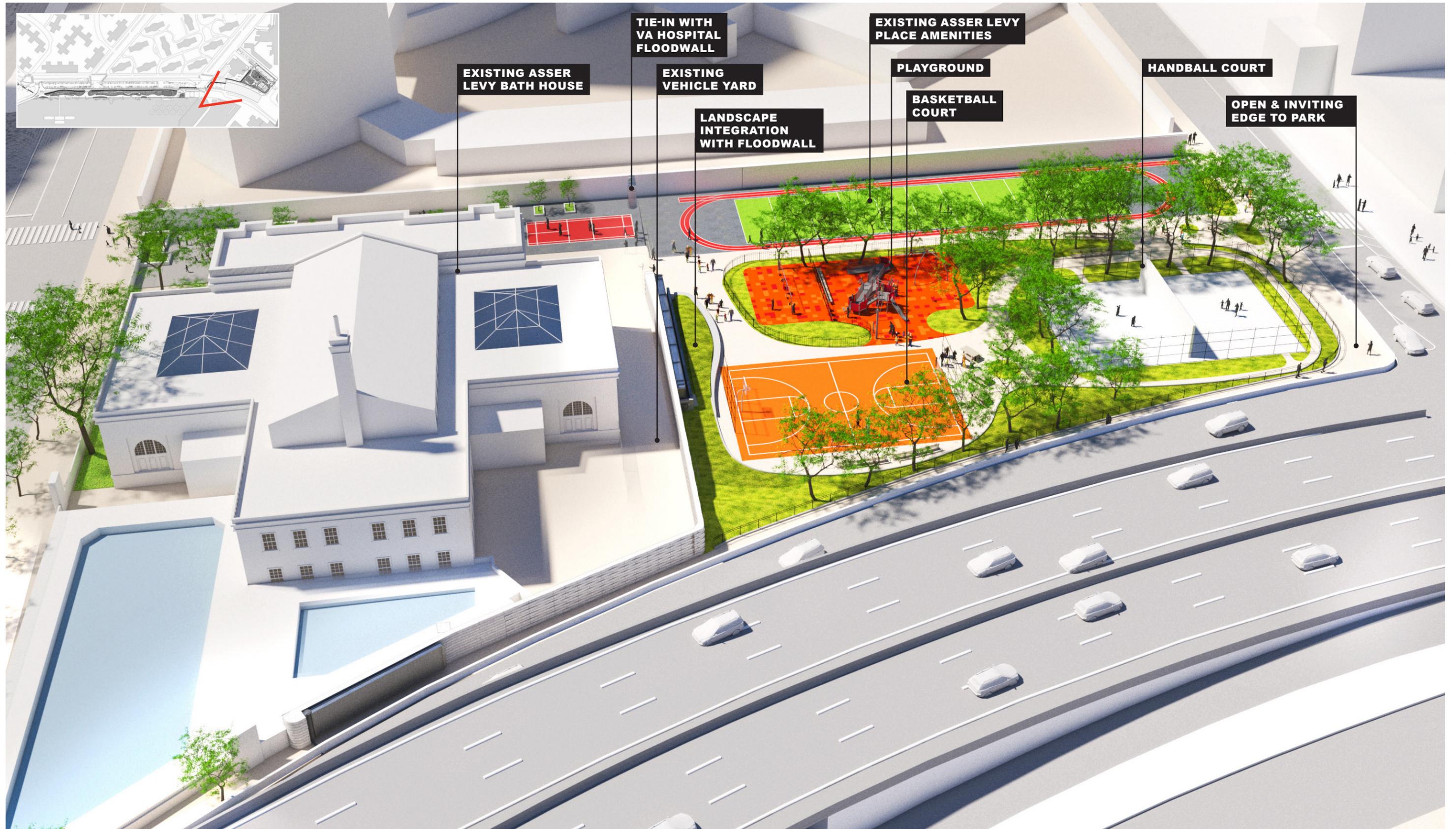
# ASSER LEVY PLAYGROUND

EXISTING CONDITIONS



# ASSER LEVY PLAYGROUND

PRELIMINARY DESIGN



# RESILIENT PLAYGROUND FEATURES

## SITE STRATEGY



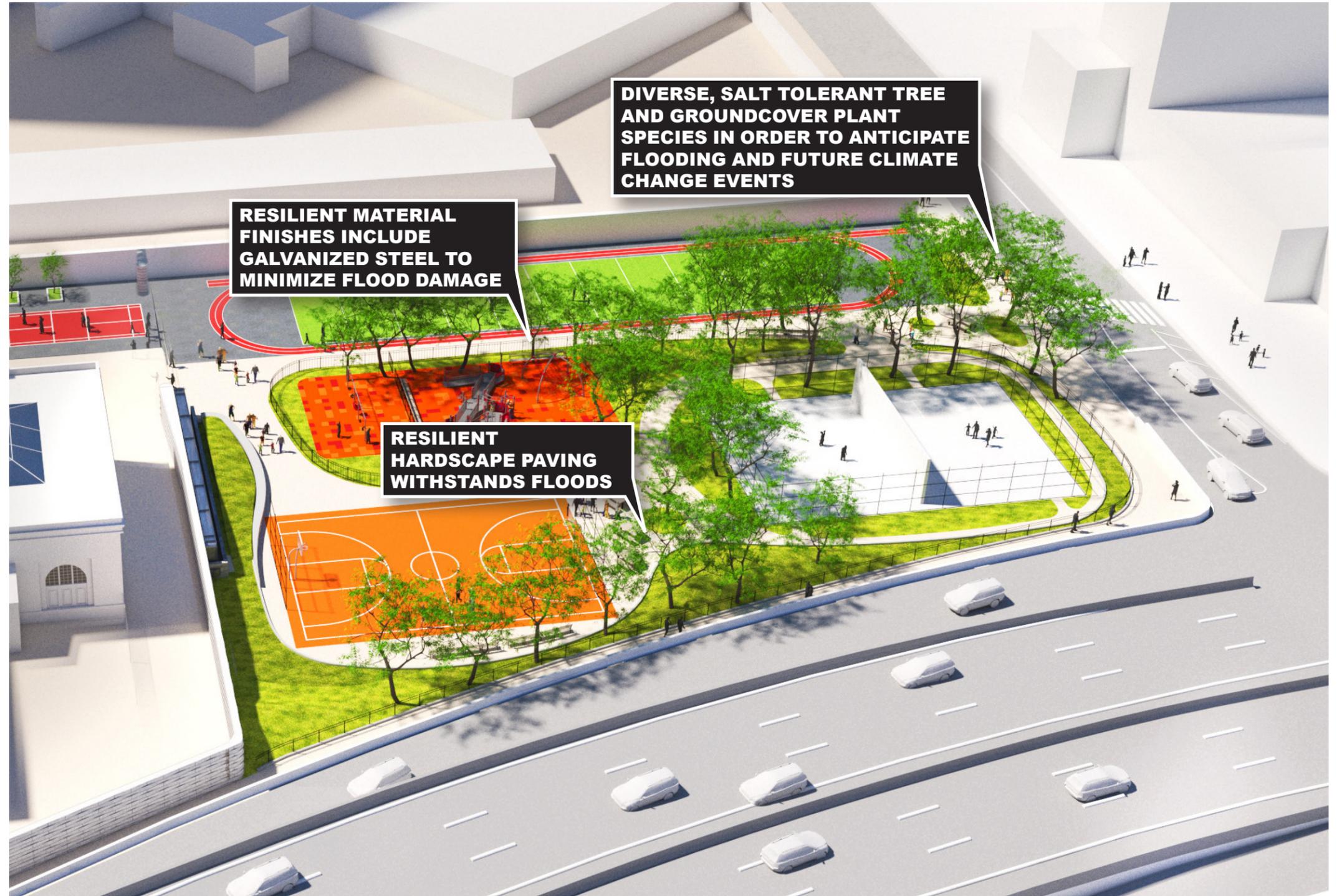
**MATERIAL FINISHES**



**PLANTING**



**HARDSCAPE**



**DIVERSE, SALT TOLERANT TREE AND GROUNDCOVER PLANT SPECIES IN ORDER TO ANTICIPATE FLOODING AND FUTURE CLIMATE CHANGE EVENTS**

**RESILIENT MATERIAL FINISHES INCLUDE GALVANIZED STEEL TO MINIMIZE FLOOD DAMAGE**

**RESILIENT HARDSCAPE PAVING WITHSTANDS FLOODS**

An aerial architectural rendering of a city waterfront. A multi-lane highway curves along the edge of a body of water. On the left side of the highway, there are several rectangular building footprints and a green park area with trees and a small structure. On the right side, the water is dark blue with some boats and a pier. In the background, a dense urban area with various building heights is visible. The entire scene is overlaid with a semi-transparent teal color.

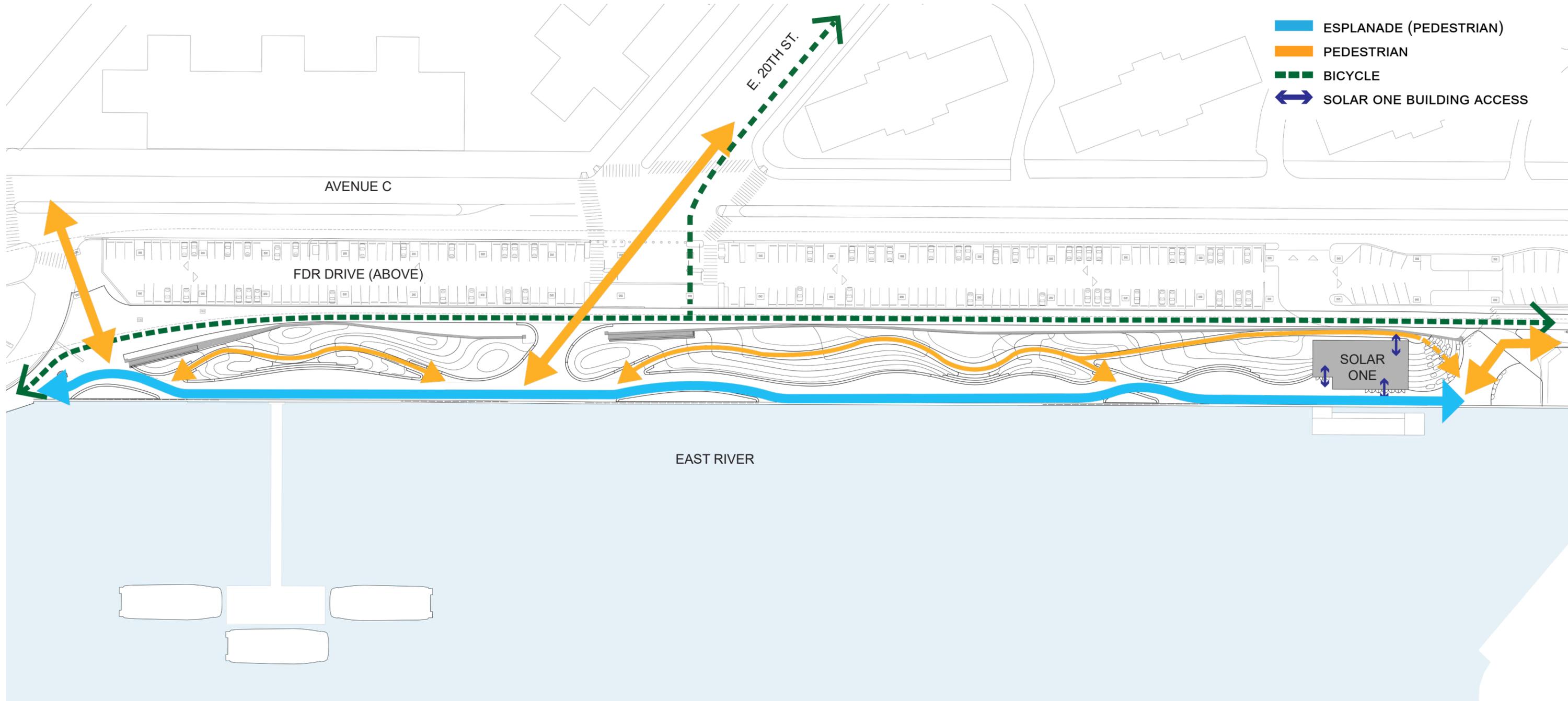
# **CIRCULATION / VIEWS**

# CIRCULATION / VIEWS

## PARK PATHS - POST CONSTRUCTION

### LEGEND

- ESPLANADE (PEDESTRIAN)
- PEDESTRIAN
- BICYCLE
- SOLAR ONE BUILDING ACCESS



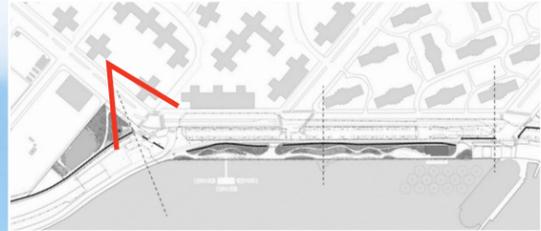
# AVENUE C AND FDR ON-RAMP

EXISTING CONDITIONS



# AVENUE C AND FDR ON-RAMP

PRELIMINARY DESIGN



# STUYVESANT COVE PARK - 20TH STREET GATE

PRELIMINARY DESIGN

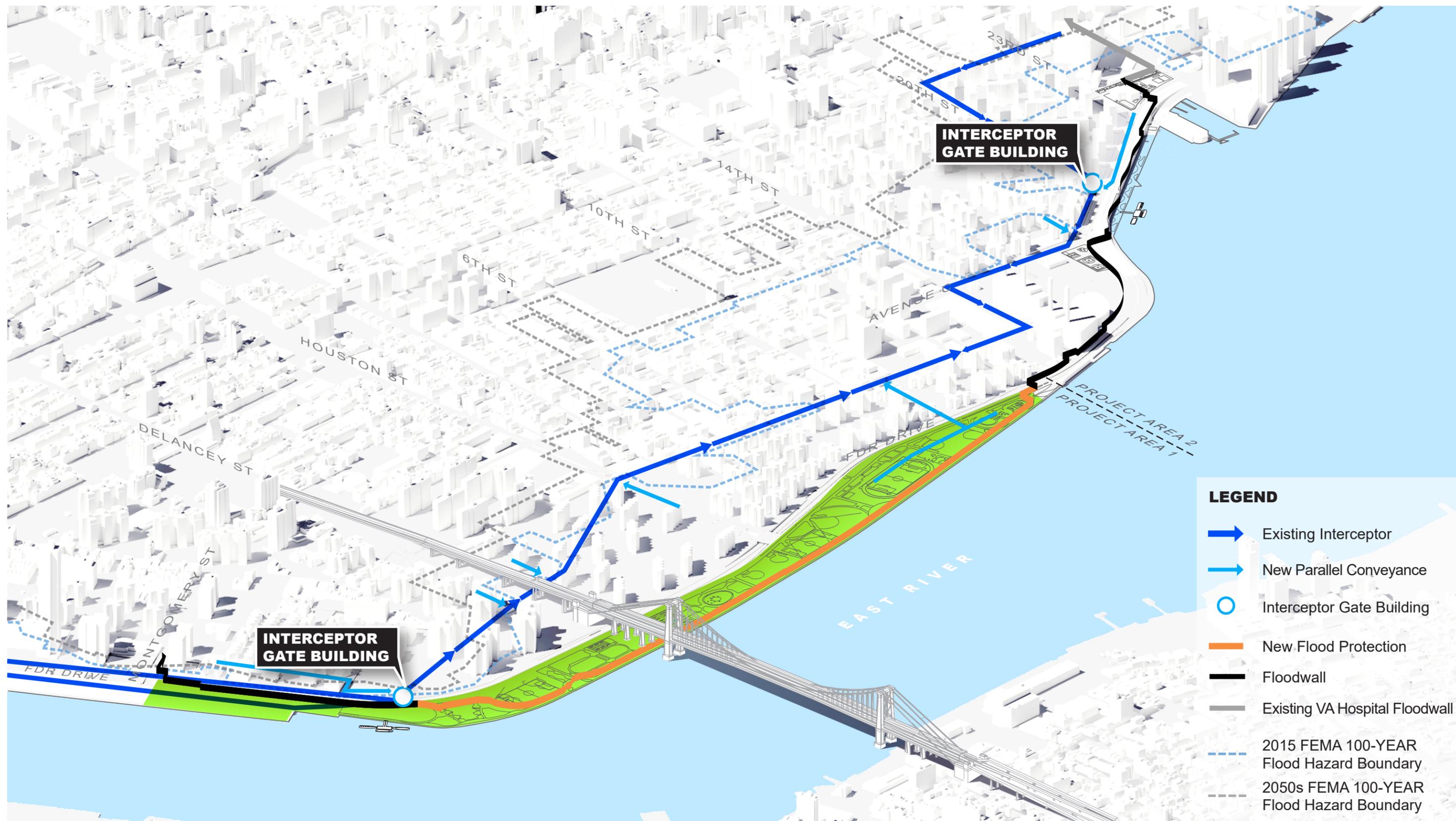


An aerial, high-angle view of a city waterfront. A multi-lane highway runs along the water's edge, curving from the bottom left towards the top right. The water is a deep blue-green color. In the background, there are numerous buildings of varying heights and shapes, representing a dense urban area. The entire image has a semi-transparent teal overlay. Centered over the image is the text "DRAINAGE IMPROVEMENTS" in a bold, white, sans-serif font.

# **DRAINAGE IMPROVEMENTS**

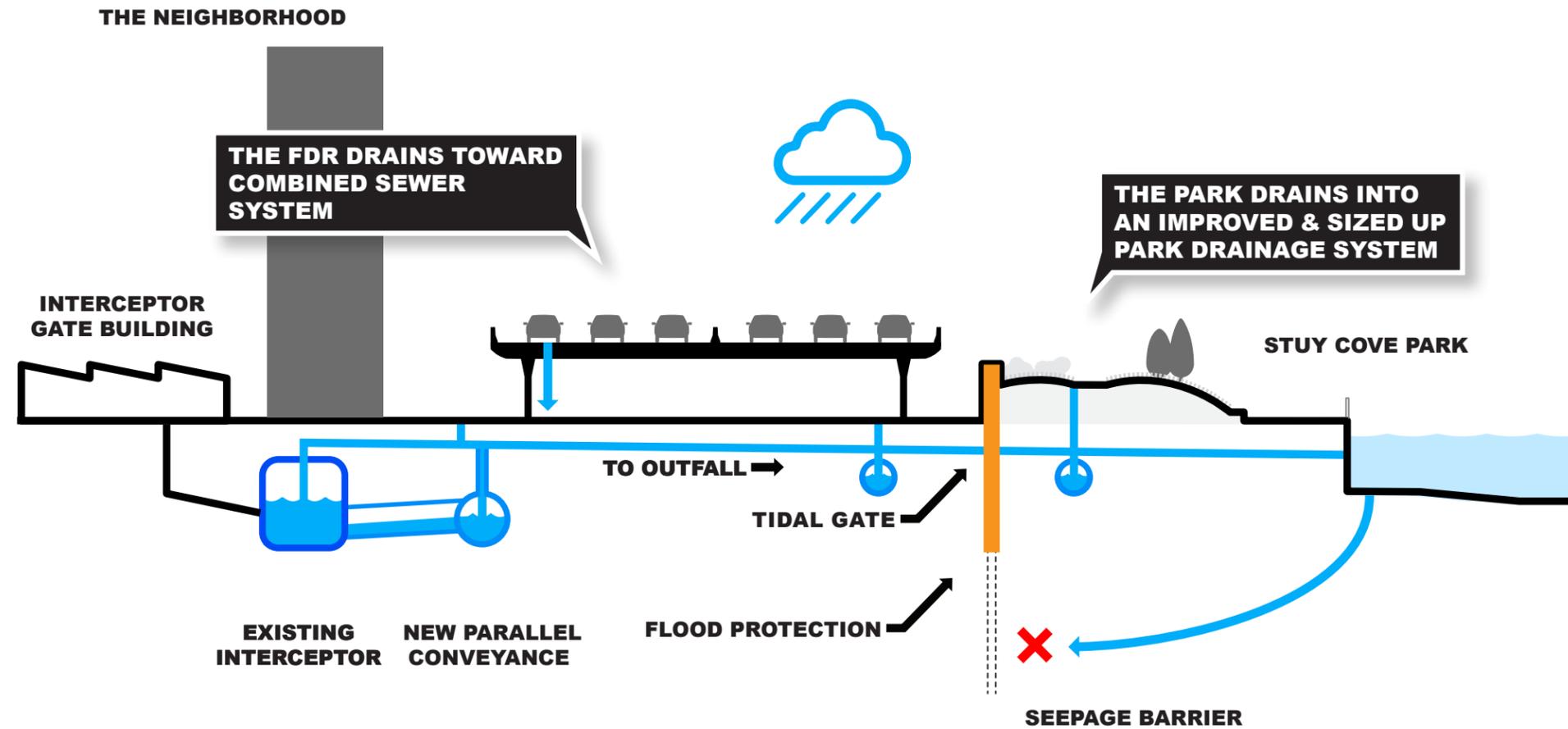
# IMPROVED DRAINAGE

## FULL SITE STRATEGY



# PARK & FDR DRAINAGE

RAINWATER COLLECTED AT MULTIPLE POINTS BETWEEN PARK & 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

## NORTH INTERCEPTOR GATE CHAMBER BUILDING

### EAST 20TH STREET SERVICE ROAD NEAR AVENUE C

- Meets all required siting criteria
- Co-locates parallel conveyance connection and interceptor gate, which provides construction cost and schedule efficiencies and minimizes area of disturbance
- Can accommodate the interceptor gate building on the median adjacent to the chamber
- Locating gate chamber in service road limits disturbance to traffic during both construction and routine maintenance operations



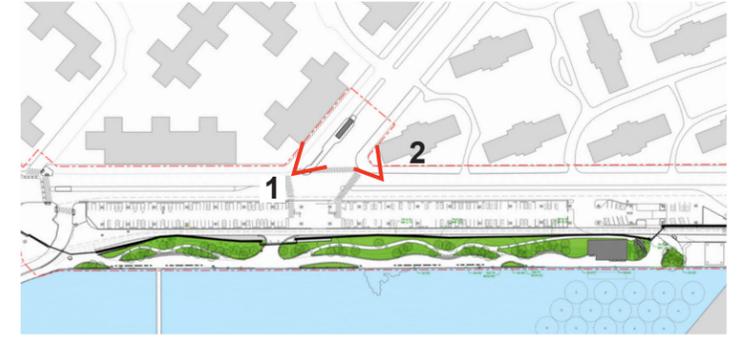
# IMPROVED DRAINAGE

## NORTH INTERCEPTOR GATE CHAMBER BUILDING



# DRAINAGE INFRASTRUCTURE

## NORTH INTERCEPTOR GATE CHAMBER BUILDING



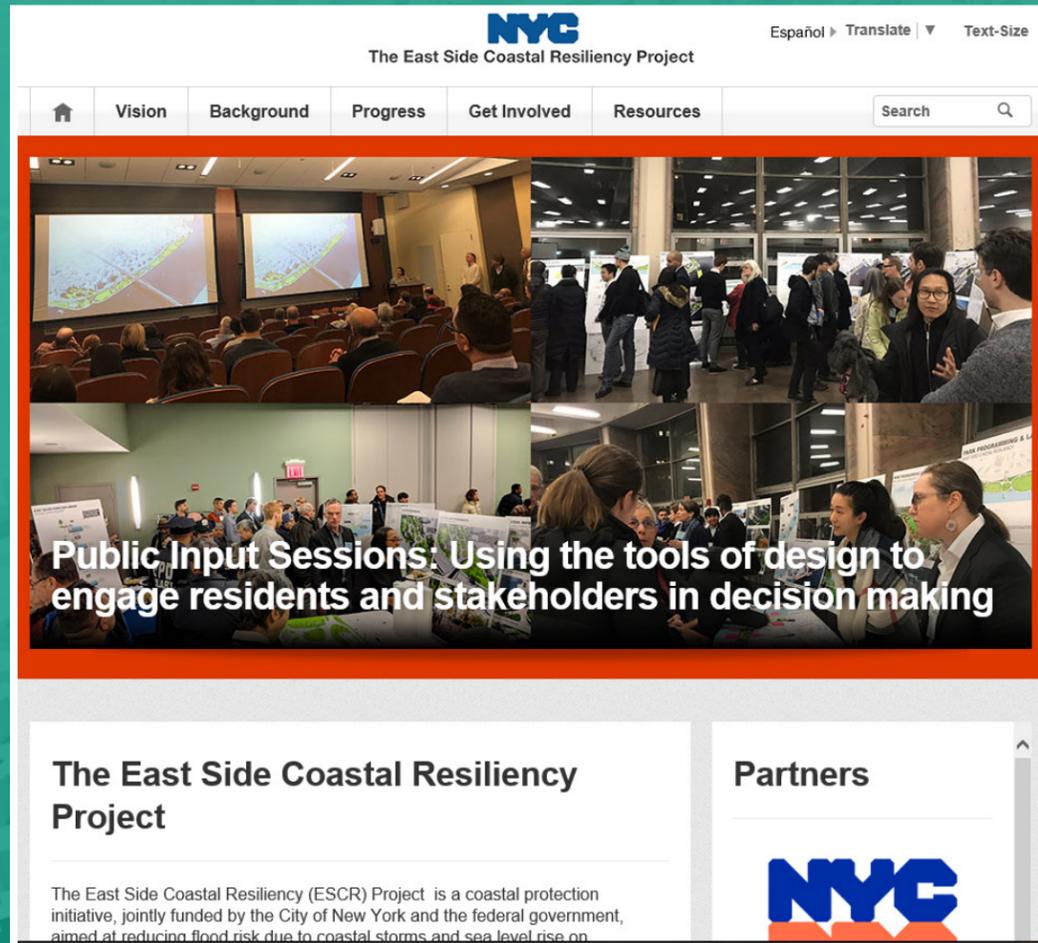
Site Rendering  
View From East 20th Street Sidewalk



Site Rendering  
View From North

//// Open space and stormwater improvement opportunity area

# Website



**Visit Us!**  
**[www.nyc.gov/escr](http://www.nyc.gov/escr)**  
Twitter: [@NYClimate](https://twitter.com/NYClimate)