

# East Side Coastal Resiliency

Community Board 6  
Land Use & Waterfront Committee Meeting

March 25, 2019

Japan Society  
333 East 47th Street  
Murase Room





An aerial photograph of a city, likely San Francisco, showing a highway, a bay, and various buildings. The entire image is covered with a semi-transparent teal overlay. The text is white and bold, positioned in the upper left and center of the image.

# **AGENDA**


**PROJECT SCHEDULE AND ENGAGEMENT**

**DESIGN PROGRESS**

**DRAINAGE IMPROVEMENTS**

**ENVIRONMENTAL REVIEW AND APPROVALS**

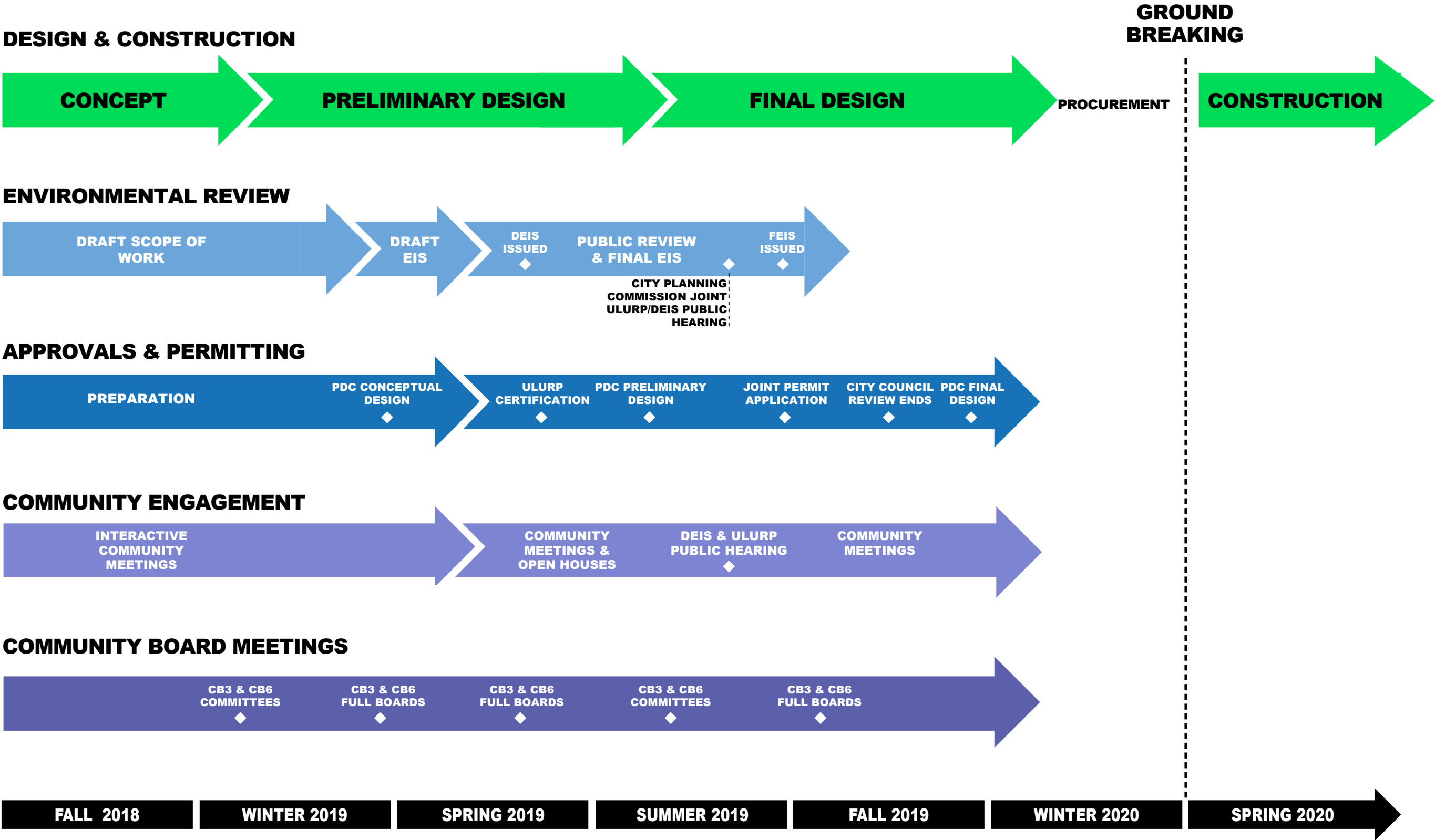


An aerial photograph of a city, overlaid with a semi-transparent teal filter. A multi-lane highway runs diagonally from the bottom left towards the top right. To the left of the highway is a dense urban area with numerous buildings. To the right is a body of water. In the bottom left corner, there is a small park area with green grass, trees, and a basketball court. The text "PROJECT SCHEDULE AND ENGAGEMENT" is centered in the middle of the image in a bold, white, sans-serif font.

# **PROJECT SCHEDULE AND ENGAGEMENT**



# CONSTRUCTION & COMMUNITY ENGAGEMENT TIMELINE





# CONSTRUCTION & COMMUNITY ENGAGEMENT TIMELINE

## MEETINGS TO DATE

### STAKEHOLDER

- Peter Stuyvesant Little League
- Waterside Plaza
- Solar One Planting
- Peter Cooper Village
- Stuyvesant Town
- Design and Programming workshops for Murphy Brothers and Asser Levy Playgrounds
- Multiple Asser Levy Alignment Meetings
- VA Hospital
- NYU Langone
- Large-scale Public Engagement Meetings -  
Most recent meeting held on 12/11/2018
- Various other targeted Stakeholder Meetings

### COMMUNITY BOARD AND COUNCIL MEMBER MEETINGS

- CB6 Land Use/Waterfront Committee
- CB6 Full Board
- CB6 Working Group
- CB3/CB6 Joint Waterfront Task Force
- Council Member Keith Powers
- Council Member Daniel Garodnick

## PLANNED MEETINGS

### STAKEHOLDER

- *Stuyvesant Cove Park Association*
- *Stuyvesant Town-  
Peter Cooper Village Tenants Association*
- *Peter Stuyvesant Little League*
- *Solar One Planting*
- *Waterside Plaza Tenants Association*
- *Stuyvesant Town-Peter Cooper Village  
Management*

### COMMUNITY BOARD AND COUNCIL MEMBER MEETINGS

- *CB6 Land Use/Waterfront Committee*
- *CB6 Full Board*
- *CB6 Working Group*

Meeting occurred

*Meeting to take place/to be scheduled*



# IMPROVED SCHEDULE

OPERABLE SYSTEMS FOR 2023 HURRICANE SEASON





An aerial photograph of a city, likely San Francisco, showing a large highway bridge crossing a body of water. The image is heavily overlaid with a semi-transparent teal color. The text "DESIGN PROGRESS" is centered in white, bold, sans-serif font. The background shows a dense urban area with many buildings, a park area with trees and sports fields, and a waterfront with boats and docks.

# DESIGN PROGRESS



# OVERALL PROJECT AREA

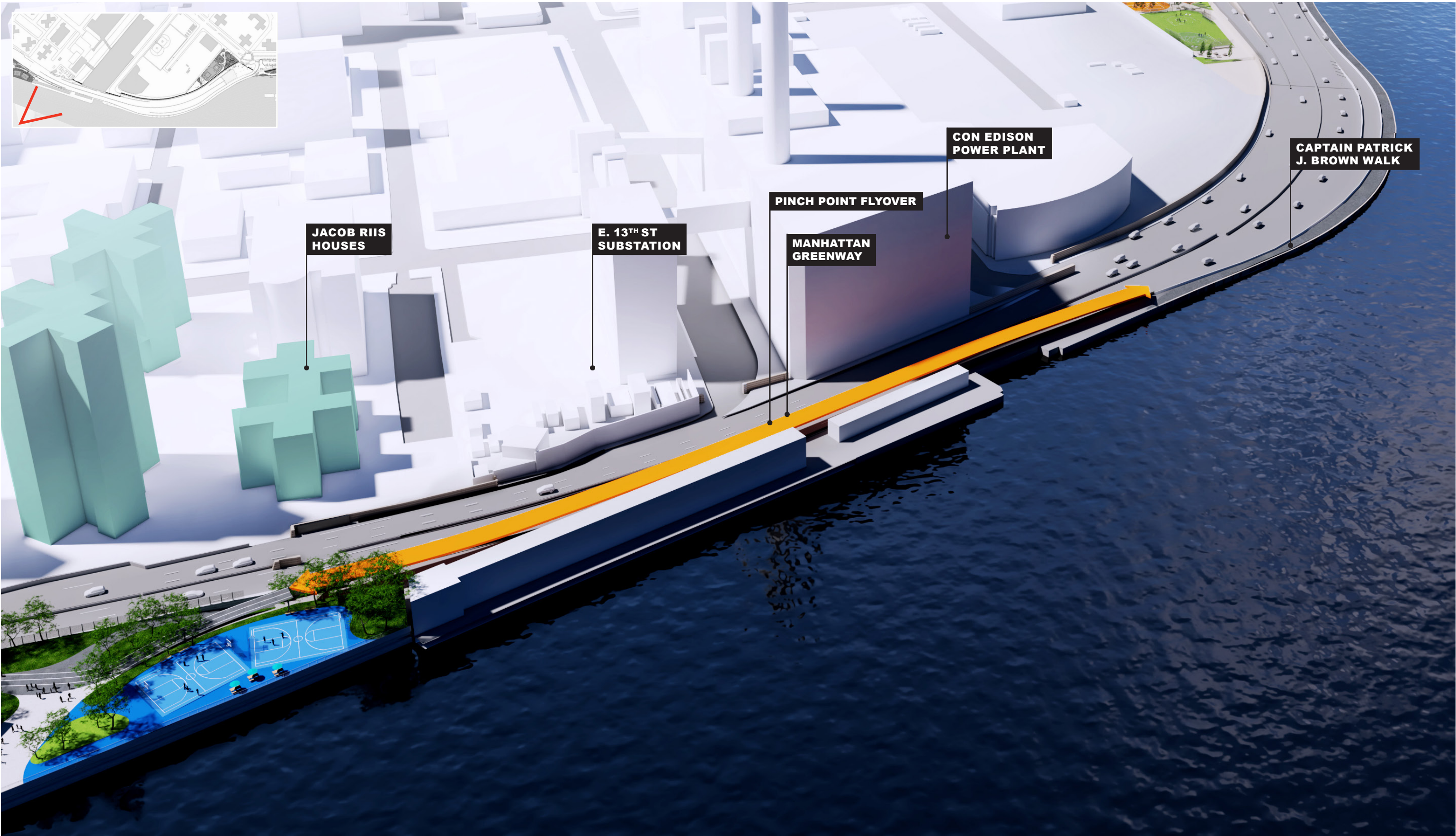
PROJECT AREA 1 AND 2





# PINCH POINT FLYOVER BRIDGE

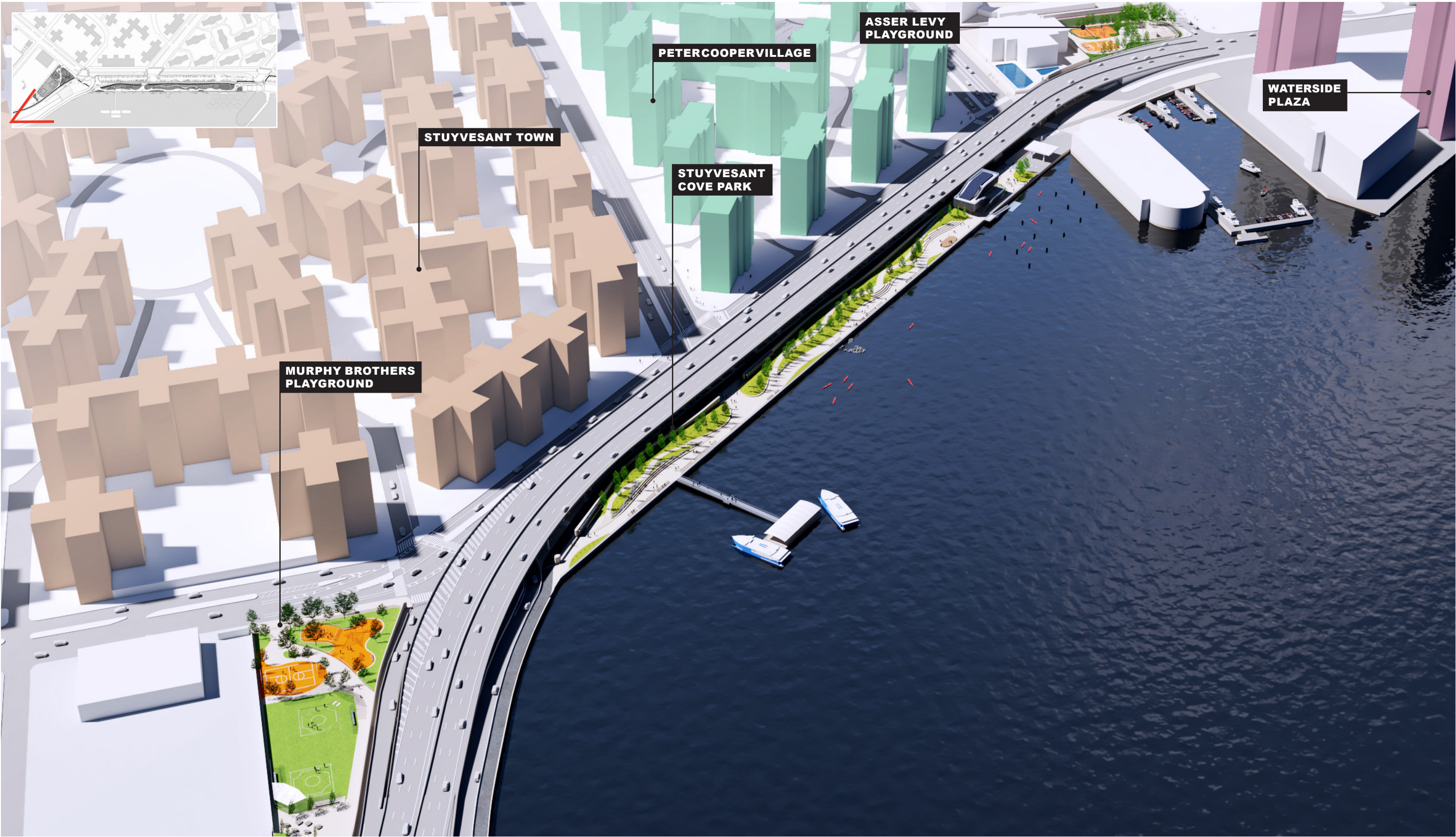
AERIAL VIEW





# PROJECT AREA 2 PARKS

PRELIMINARY DESIGN





# MURPHY BROTHERS PLAYGROUND

EXISTING CONDITIONS





# MURPHY BROTHERS PLAYGROUND

PRELIMINARY DESIGN





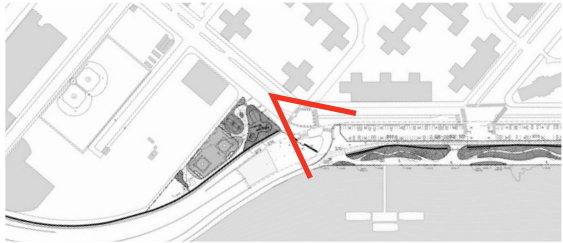
# MURPHY BROTHERS PLAYGROUND

PRELIMINARY DESIGN



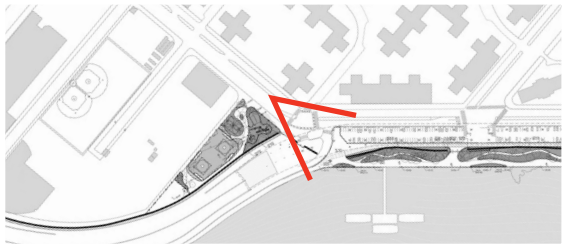


**AVENUE C**  
EXISTING CONDITIONS





**AVENUE C**  
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 - 20TH STREET GATE

PRELIMINARY DESIGN





# STUYVESANT COVE PARK

EXISTING CONDITIONS





# STUYVESANT COVE PARK

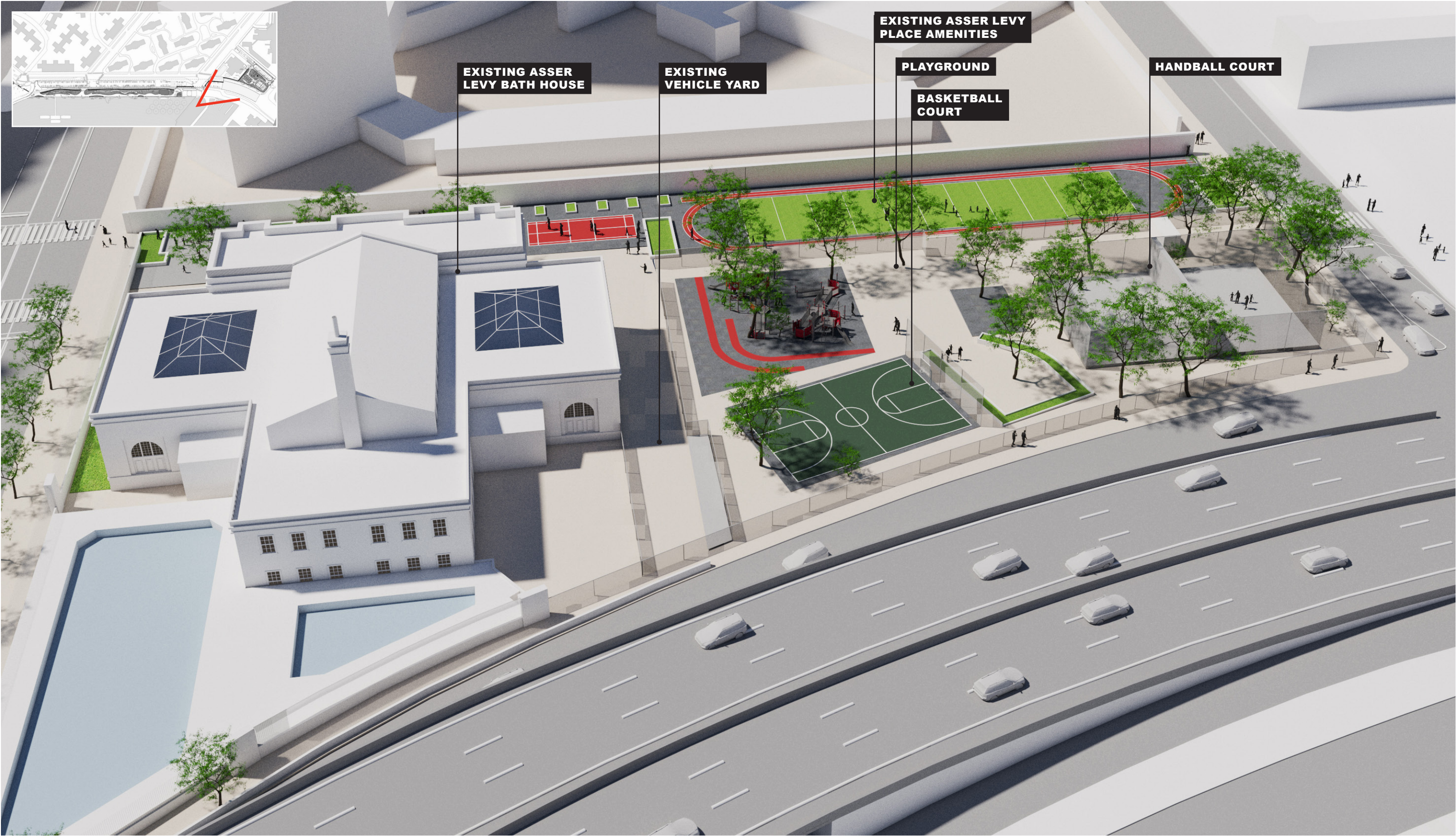
PRELIMINARY DESIGN





# ASSER LEVY PLAYGROUND

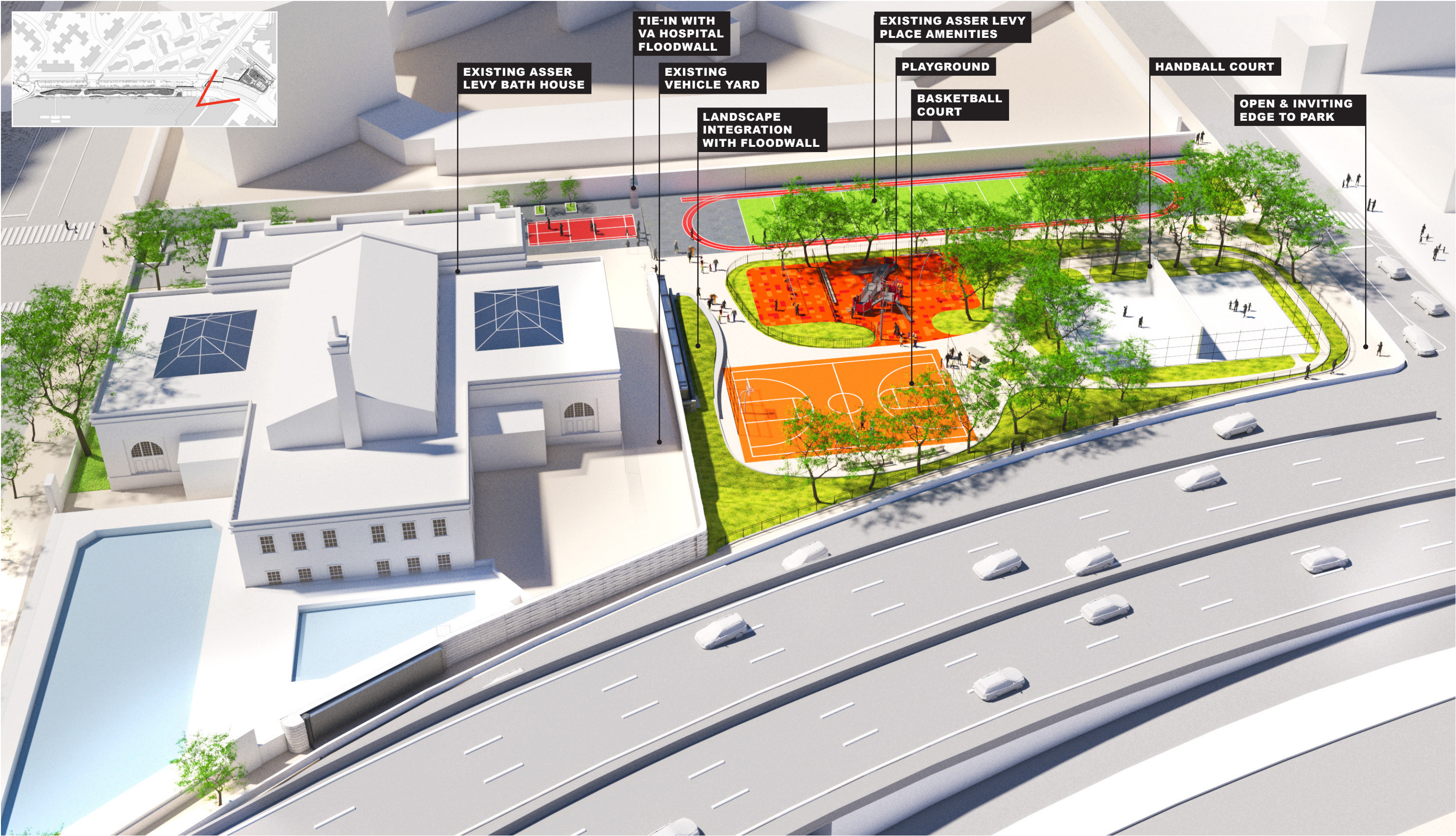
EXISTING CONDITIONS





# ASSER LEVY PLAYGROUND

PRELIMINARY DESIGN





# ASSER LEVY PLAYGROUND

EXISTING CONDITIONS





# ASSER LEVY PLAYGROUND

PRELIMINARY DESIGN





# FLOODWALL TIE-BACK

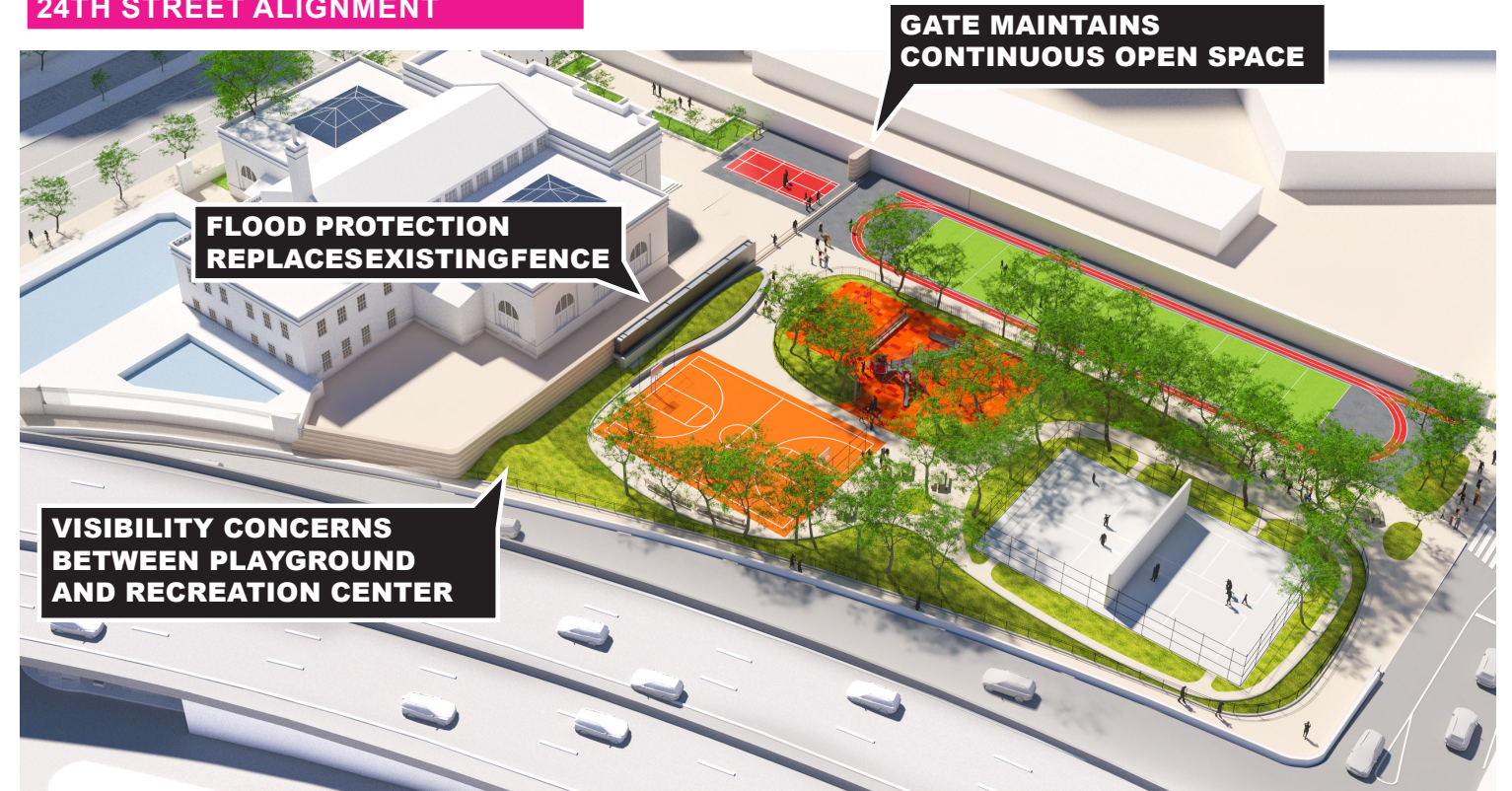
## ALIGNMENT CONSIDERATIONS

### 25TH STREET ALIGNMENT



- ✓ Provides flood protection for recreation center, playground and park
- ✓ Insulates playground from highway
- ✗ More complex underground conditions with greater above and below-ground disturbance
- ✗ Requires complex rerouting of sewer lines (more construction risk)
- ✗ Greater construction complexity (longer construction duration)
- ✗ Playground/sidewalk visibility and safety concerns
- ✗ Greater limitations on future site design, furnishings, and tree plantings

### 24TH STREET ALIGNMENT

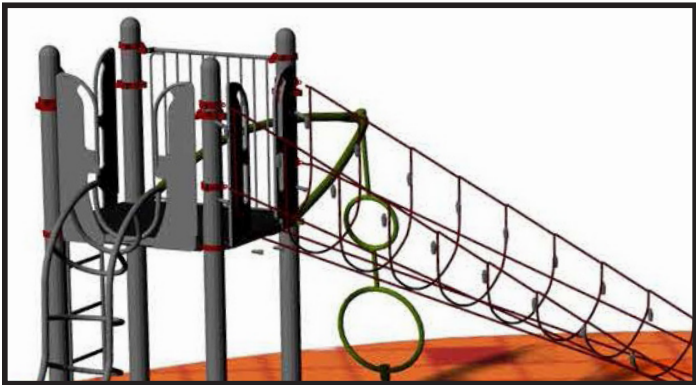


- ✓ Provides flood protection for recreation center and swimming pools
- ✓ Provides new resilient playground design
- ✓ Increased site security and visibility into playground from street
- ✓ Minimizes safety concerns along sidewalk by the FDR Drive on-ramp
- ✓ Less complex and fewer sewer system modifications needed (less construction risk)
- ✓ Simplified utility crossings (simpler construction)
- ✓ Shorter construction duration
- ✗ Visibility concerns between playground and park



# RESILIENT PLAYGROUND FEATURES

## SITE STRATEGY



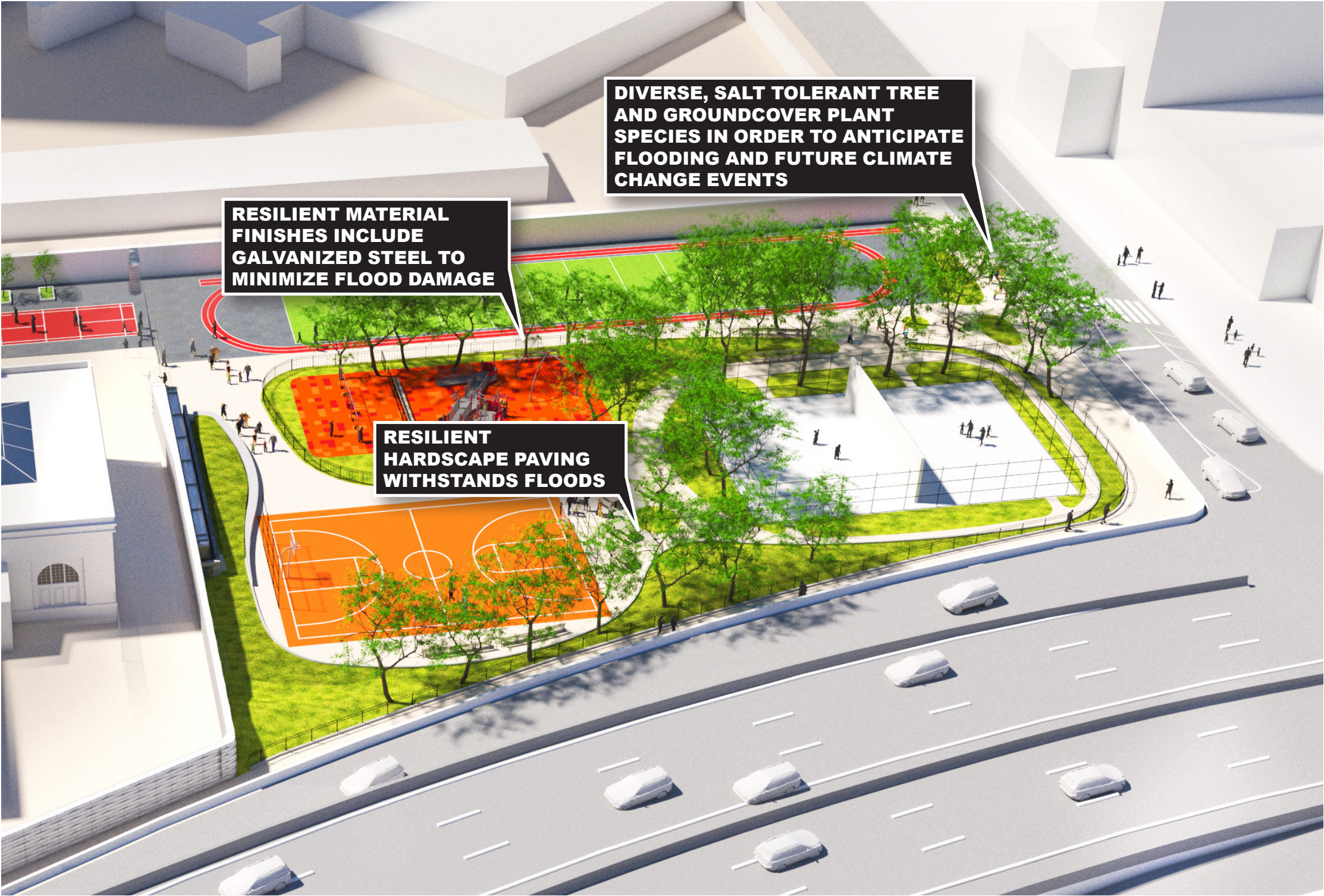
MATERIAL FINISHES



PLANTING



HARDSCAPE





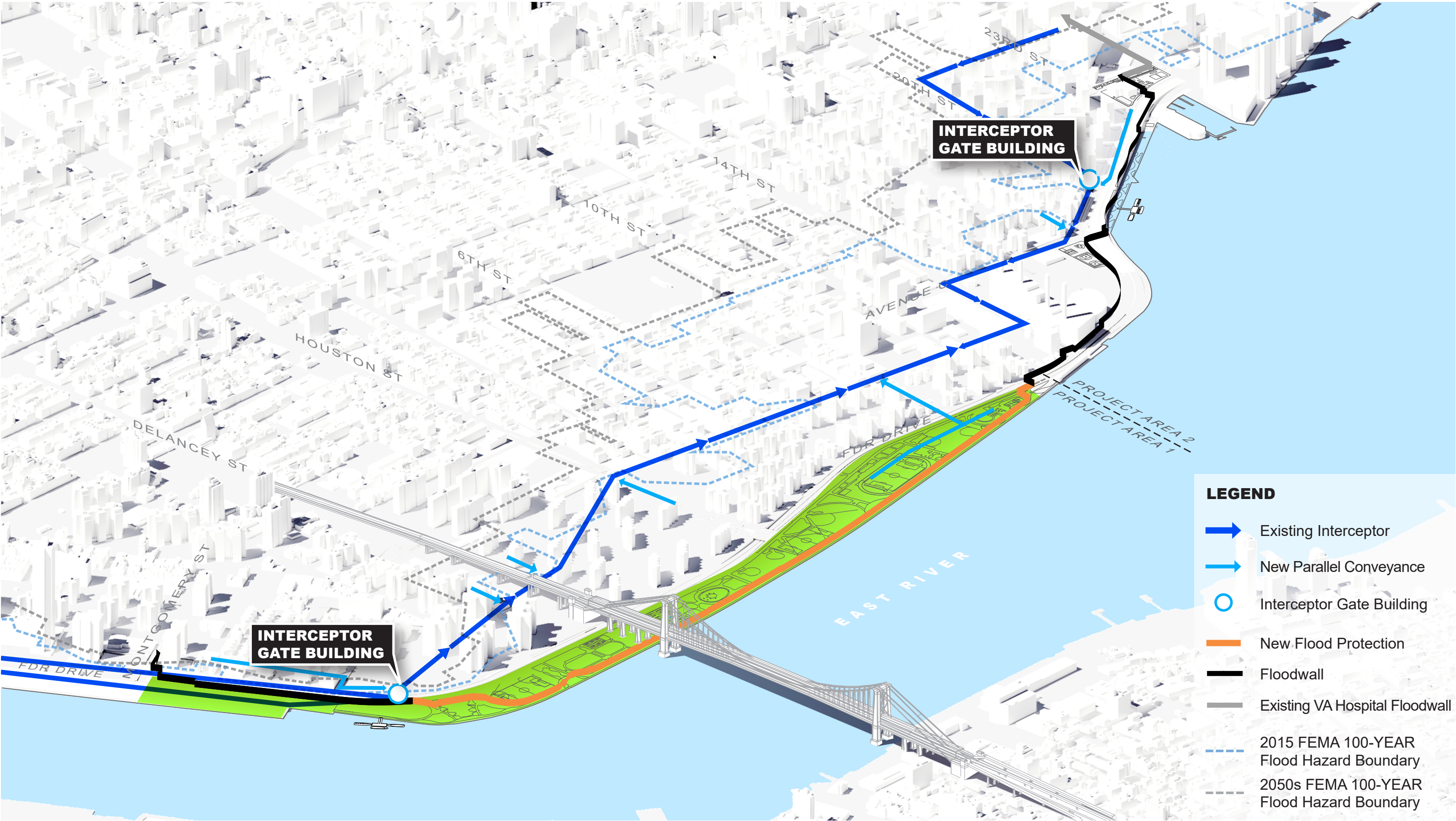
An aerial photograph of a city, likely San Francisco, showing a multi-lane highway (Golden Gate Bridge area) curving along a body of water. The image is heavily stylized with a teal/cyan color overlay and a semi-transparent grid pattern. The text "DRAINAGE IMPROVEMENTS" is centered in white, bold, sans-serif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

# **DRAINAGE IMPROVEMENTS**



# IMPROVED DRAINAGE

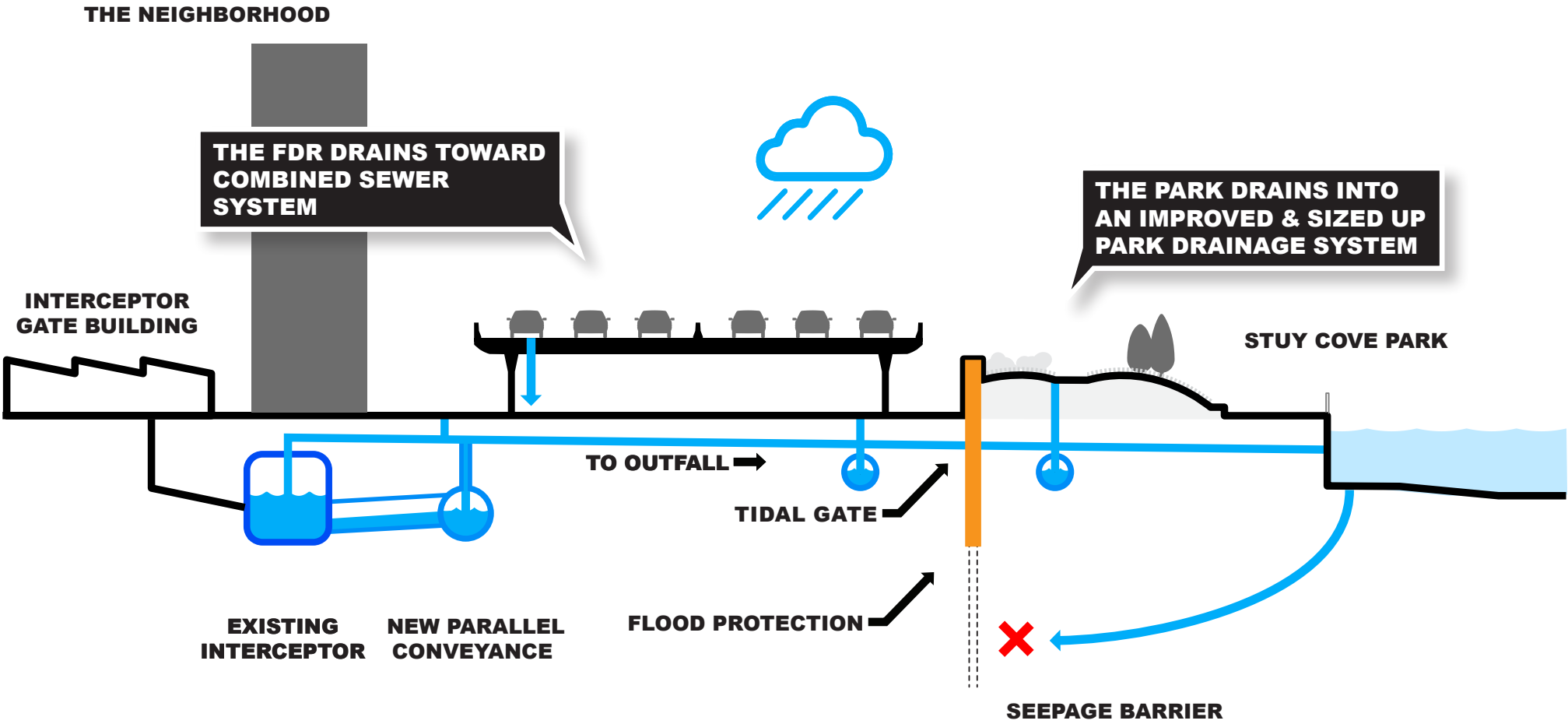
## FULL SITE STRATEGY





# PARK & FDR DRAINAGE

RAINWATER COLLECTED AT MULTIPLE POINTS BETWEEN PARK & 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

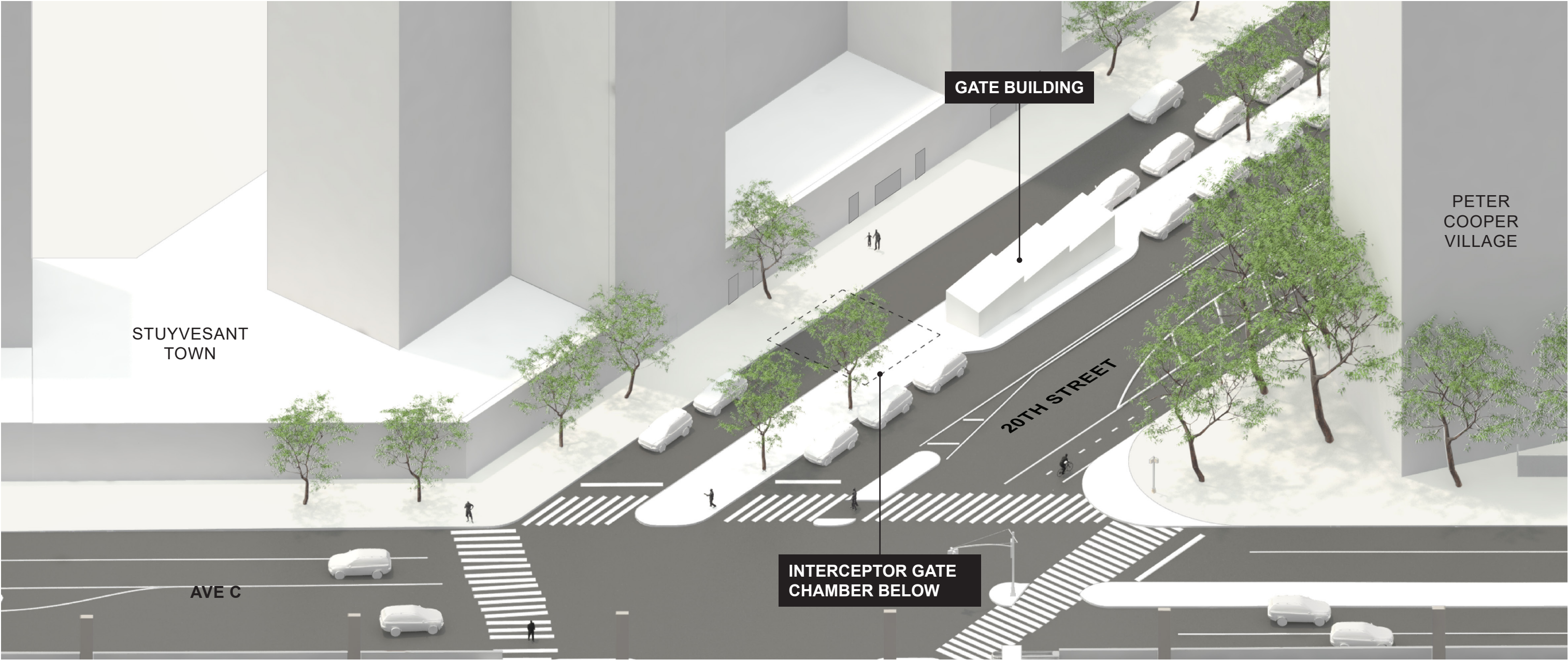
- Meets all required siting criteria
- Co-locates parallel conveyance connection and interceptor gate, which provides construction cost and schedule efficiencies and minimizes area of disturbance
- Can accommodate the interceptor gate building on the median adjacent to the chamber
- Locating gate chamber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





# IMPROVED DRAINAGE

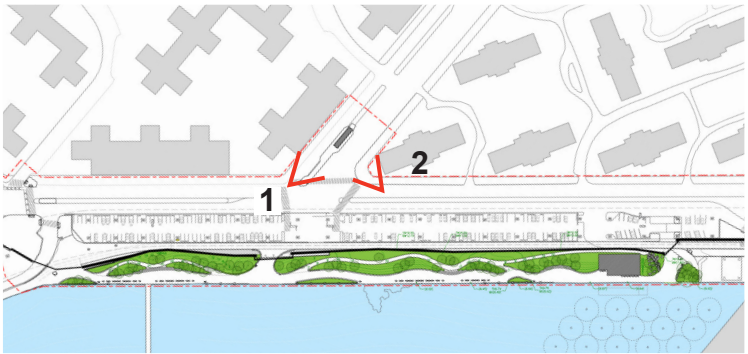
## NORTH INTERCEPTOR GATE CHAMBER BUILDING





# 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

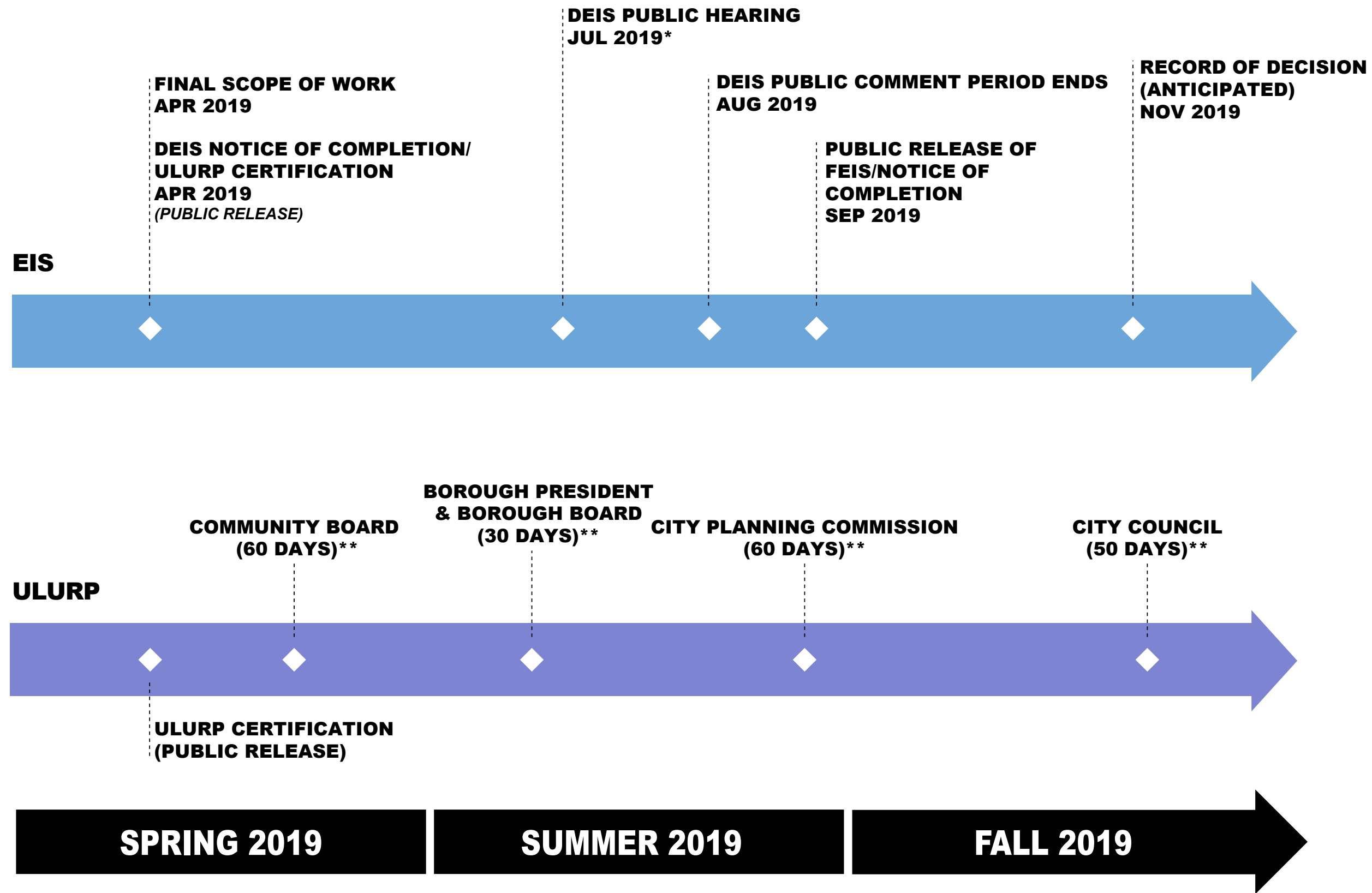


An aerial photograph of a city, likely San Francisco, showing a highway (Golden Gate Bridge area) and a body of water (San Francisco Bay). The image is overlaid with a teal gradient. The text "ENVIRONMENTAL REVIEW AND APPROVALS" is centered in white, bold, uppercase letters.

# **ENVIRONMENTAL REVIEW AND APPROVALS**



# PRELIMINARY ENVIRONMENTAL REVIEW SCHEDULE



\* DEIS COMMENT PERIOD EXTENDS 15 DAYS AFTER PUBLIC HEARING  
\*\* INCLUDES PUBLIC HEARING



# **ENVIRONMENTAL REVIEW STANDARDS**

## **PROJECT REVIEW BEING CONDUCTED UNDER 3 STATUTES:**

- **National Environmental Policy Act (NEPA)**
  - **State Environmental Quality Review Act (SEQRA)**
  - **City Environmental Quality Review (CEQR)**
- (Environmental Impact Statement (EIS) will satisfy requirements of all three statutes.)*

## **COORDINATED ENVIRONMENTAL REVIEW PROCESS**

### **LEAD AGENCIES:**

- **NEPA - NYC Office of Management and Budget (OMB)**
  - **SEQRA/CEQR - Department of Parks & Recreation**
- (Environmental review coordinated by head agencies, with cooperating, involved and interested Federal, State and City agencies.)*



# **ALTERNATIVES ANALYZED IN THE DEIS**

**ALTERNATIVE 1: No Action 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  
(Preferred Alternative)**

**ALTERNATIVE 5: Flood Protection System East of FDR Drive**



# **UNIFORM LAND USE REVIEW PROCEDURE (ULURP)**

## **PRELIMINARY PROPOSED ACTIONS**

### **Acquisitions (Easements) Needed**

- **Gouverneur Gardens Cooperative**
- **East River Housing Corporation**
- **NYCHA (Riis Houses and Baruch Houses)**
- **Con Edison**
- **Captain Patrick J Brown Walk (NYSDOT)**
- **VA Medical Center**

**Zoning text amendment related to Stuyvesant Cove Park and waterfront zoning requirements.**

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



# DEIS PRELIMINARY IMPACT ANALYSES

## CONSTRUCTION PERIOD EFFECTS

### DEIS CONSTRUCTION ANALYSES:

- **Socioeconomics**
- **Open Space (unavoidable)**
- **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 (unavoidable)**
- **Public Health**

*Majority of Project Impacts Would Occur During Construction*

■ - Chapters with significant impacts requiring mitigation



# DEIS PRELIMINARY IMPACT ANALYSES

## OPERATIONAL EFFECTS

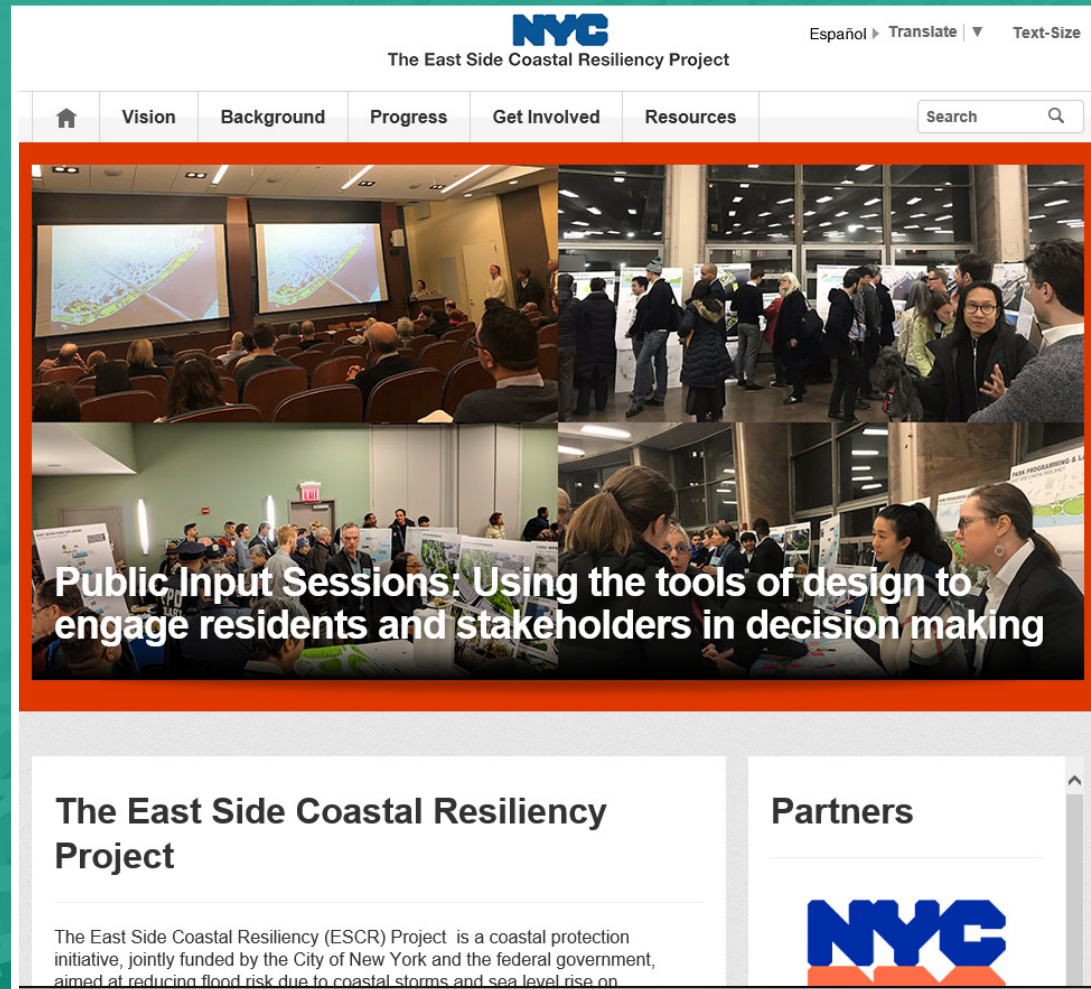
### DEIS CHAPTERS:

- 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
- Indirect and Cumulative Effects
- Unavoidable Adverse Effects
- Irreversible and Irretrievable Commitments of Resources

 - Chapters with significant impacts requiring mitigation



# Website



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