



# A STRONGER, MORE RESILIENT NEW YORK

## Community Workshop Project Area 1

May 20+28, 2015



The City of New York

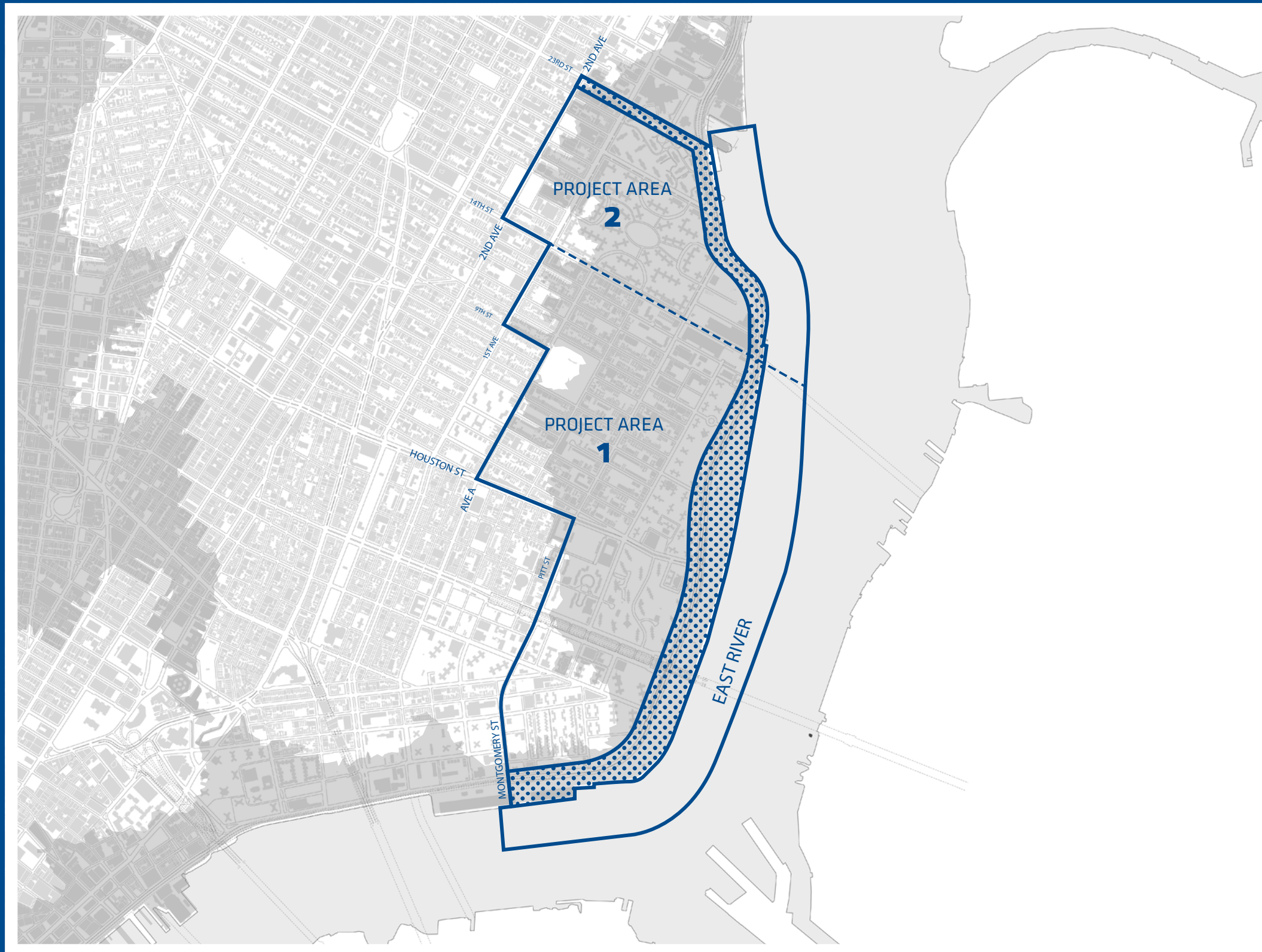
# PROJECT LOCATION

The ESCR project will be carried out with HUD funding for the area from E. 23rd St. to Montgomery St.



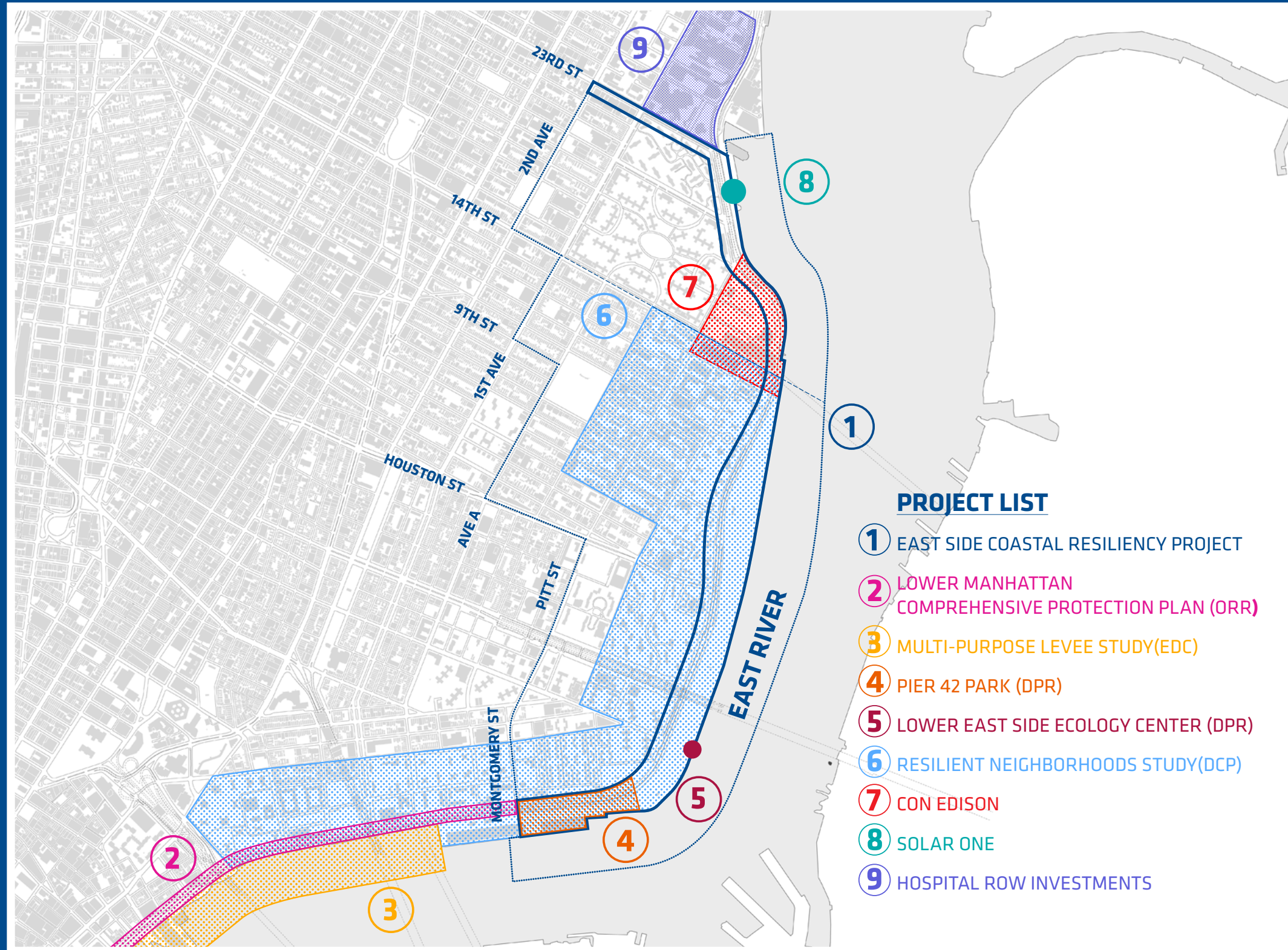
# ESCR PROJECT AREAS

## And 100-Year Floodplain



# COMPLEMENTARY INITIATIVES

The ESCR Project will be coordinated with other initiatives in the area. City and State funds will be used to advance planning south of Montgomery St.



# **Community Workshop Project Area 1**

May 20+28, 2015

**1. Project Schedule**

**2. ESCR Goals**

**3. Progress of Technical Studies**

**4. Rebuild by Design Concept**

**5. PA1: East River Park Connections**

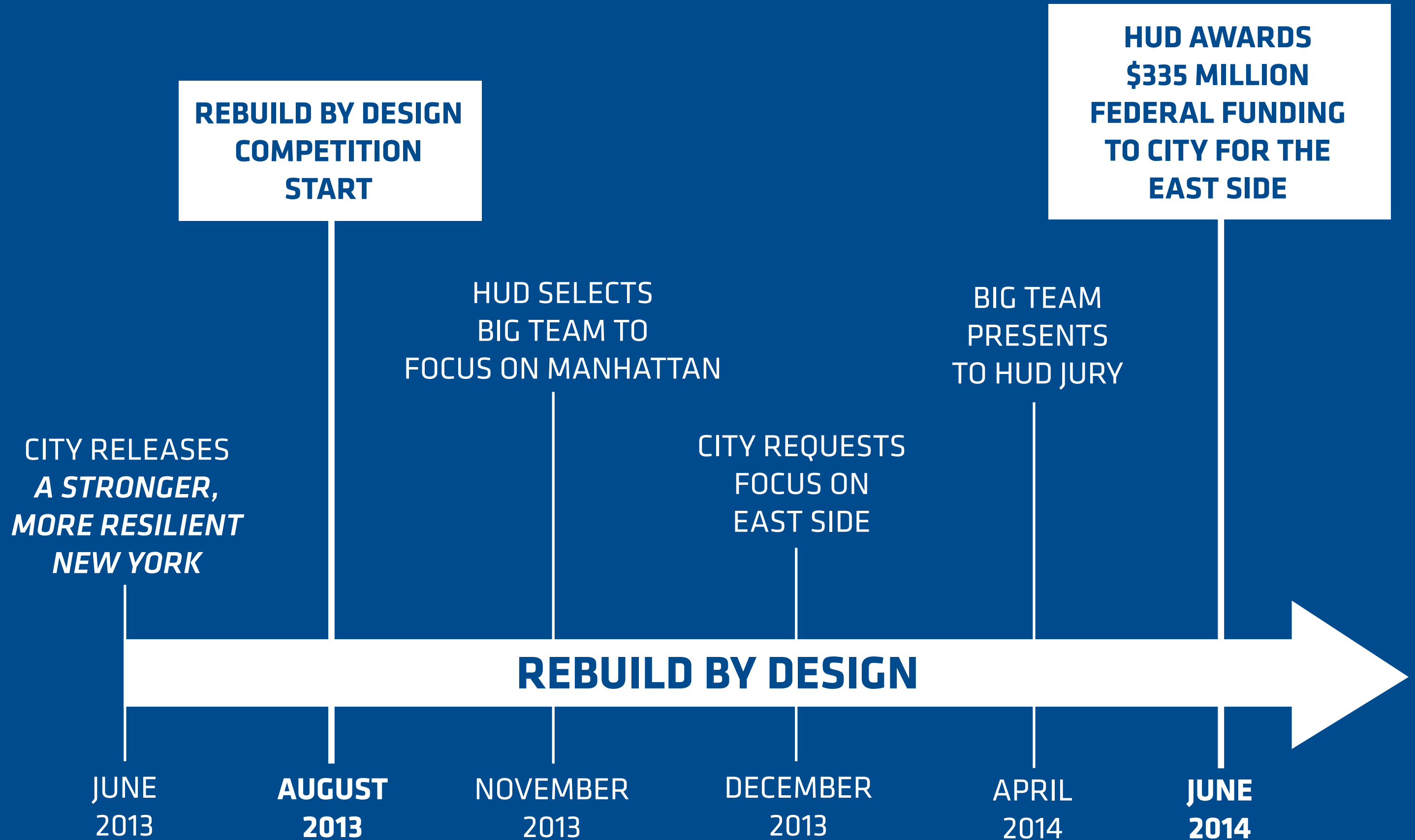
**6. March Community Engagement Meeting Findings**

**7. Workshop**

# PROJECT SCHEDULE

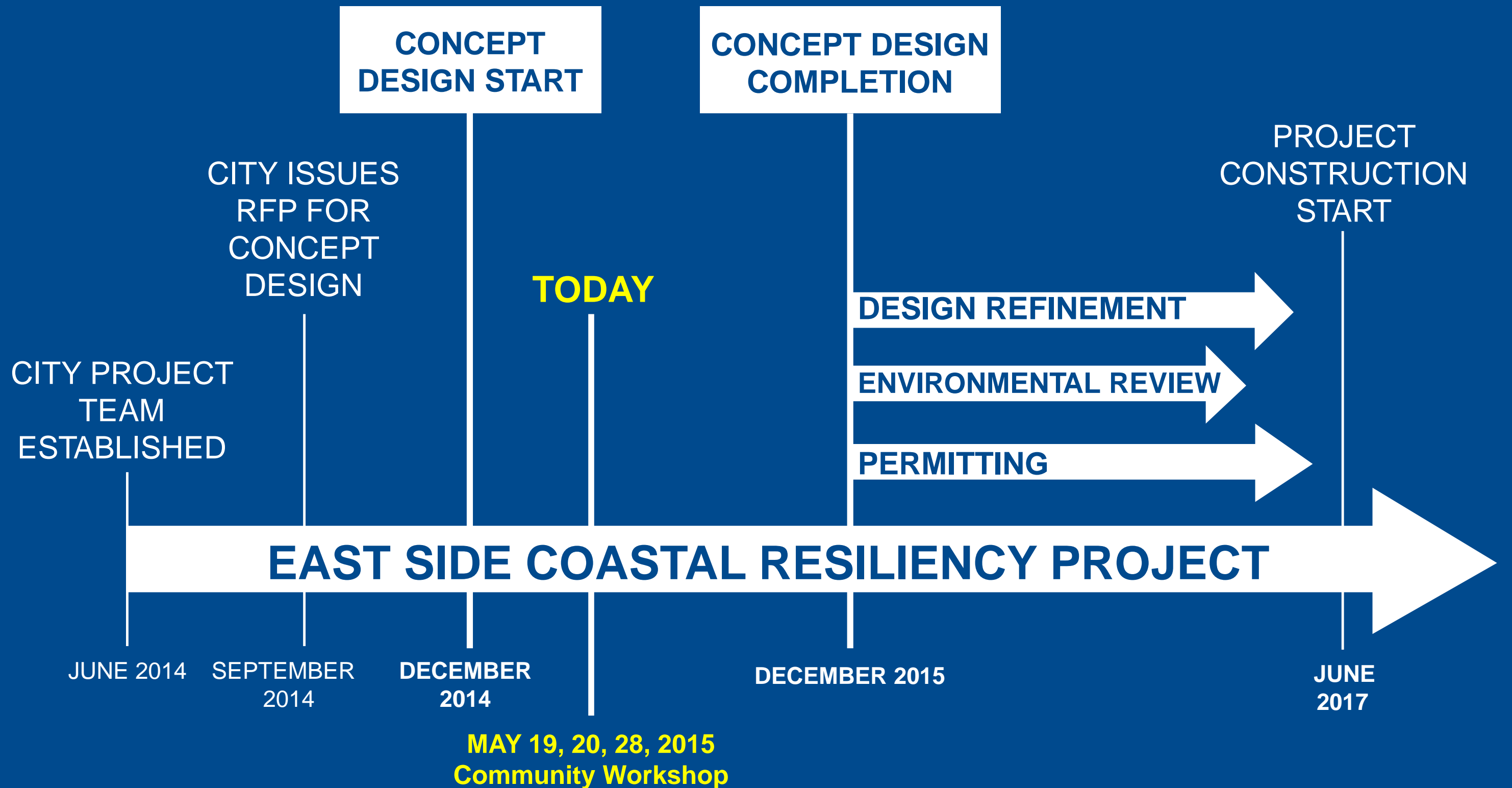
# WHERE WE WERE

Rebuild by Design was a 9-month ideas competition administered by HUD.



# PROJECT TIMELINE

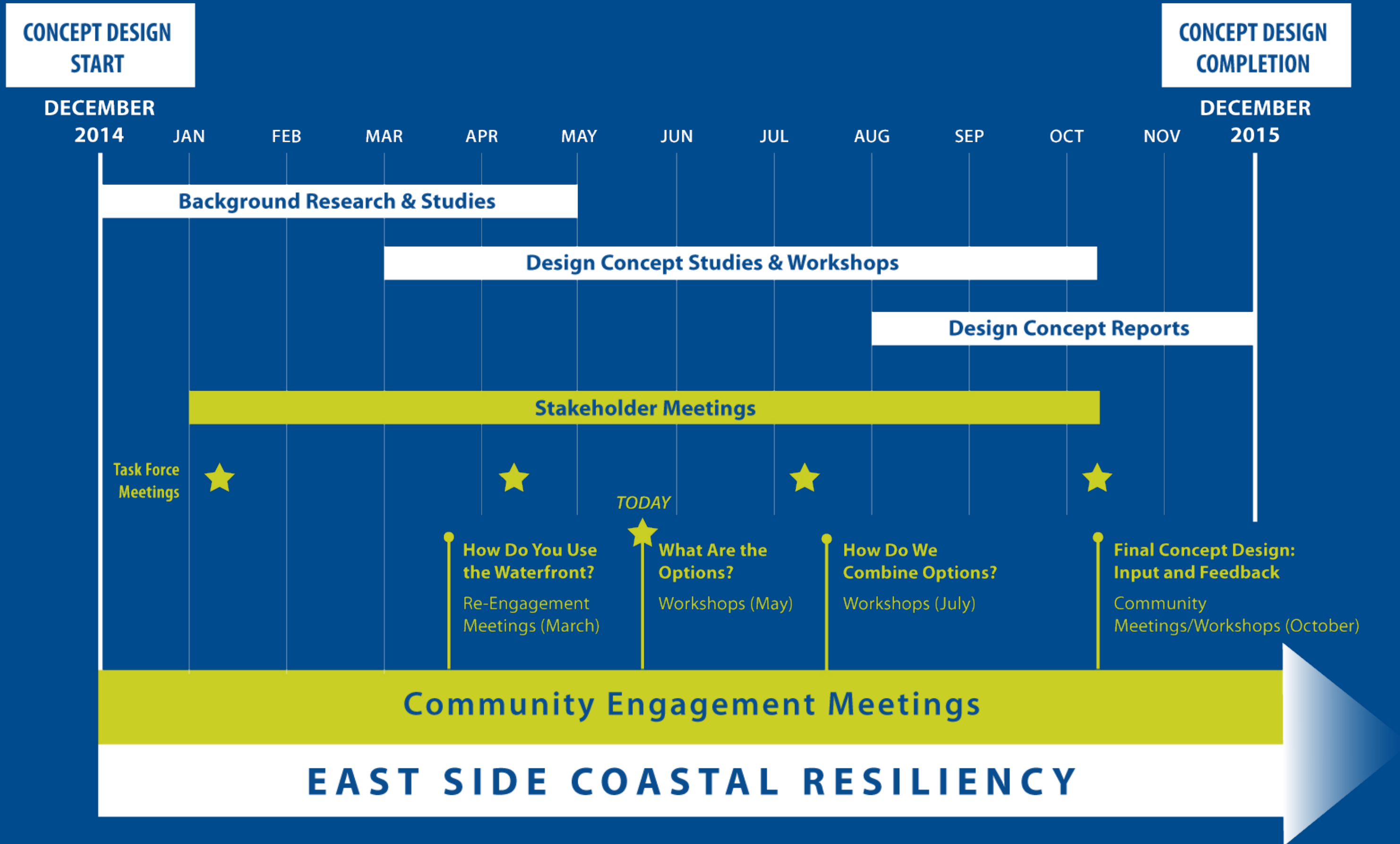
The ESCR Project has an ambitious timeline, with construction commencement anticipated in mid-2017.





# COMMUNITY ENGAGEMENT TIMELINE

Where are we now?



**WHAT IS THE EAST SIDE COASTAL  
RESILIENCY PROJECT?**

# WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



## THE EAST SIDE

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

# WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



## WHAT HAPPENED DURING SANDY?

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

# WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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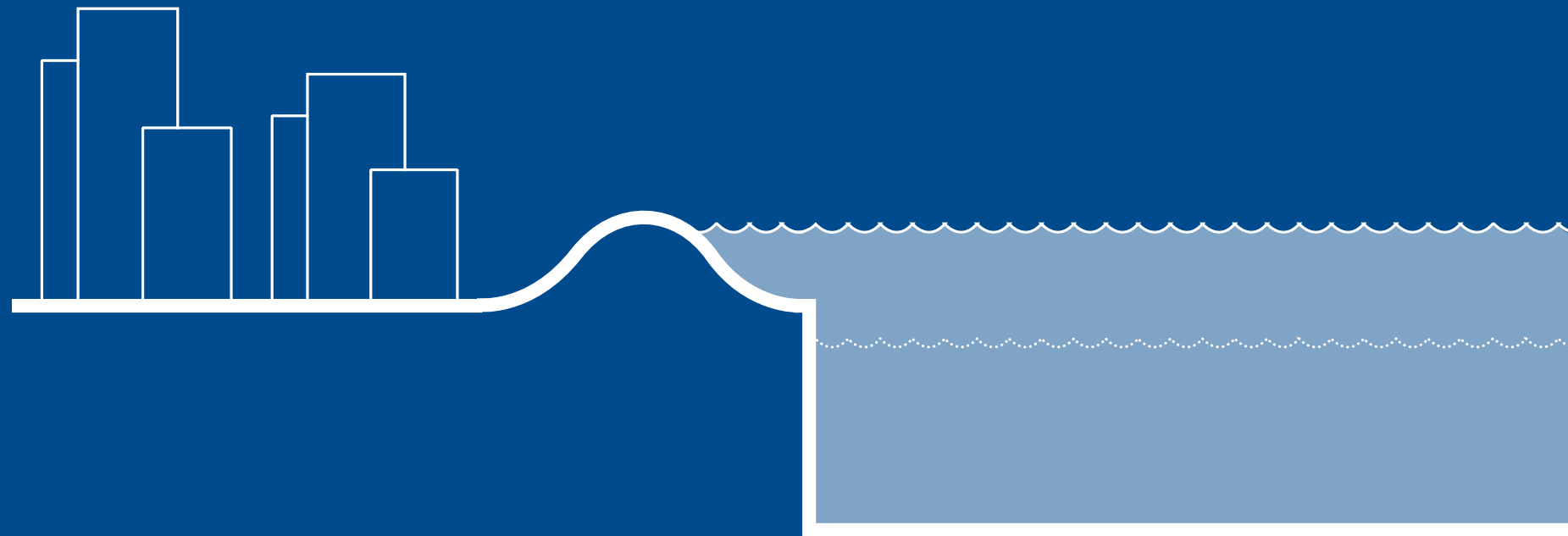


## BARRIER

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

# WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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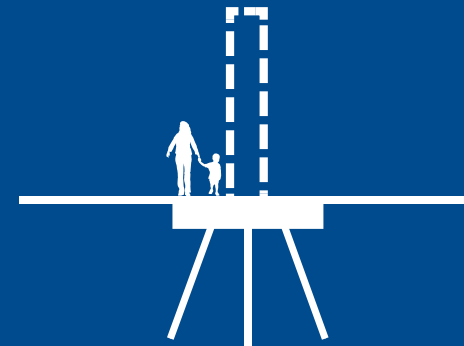


## FLOOD PROTECTION

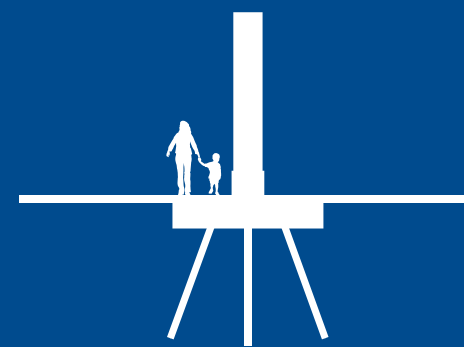
NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

# TYPES OF FLOOD MITIGATION

Options for resiliency have varying forms and levels of reliability: from wide and passive earthen levees to narrow and even removable flood walls and deployable elements.



**DEPLOYABLE**



**FLOOD WALL**



**BERM / LEVEE**

# SOCIAL INFRASTRUCTURE

How can resiliency infrastructure double as places and spaces for people?



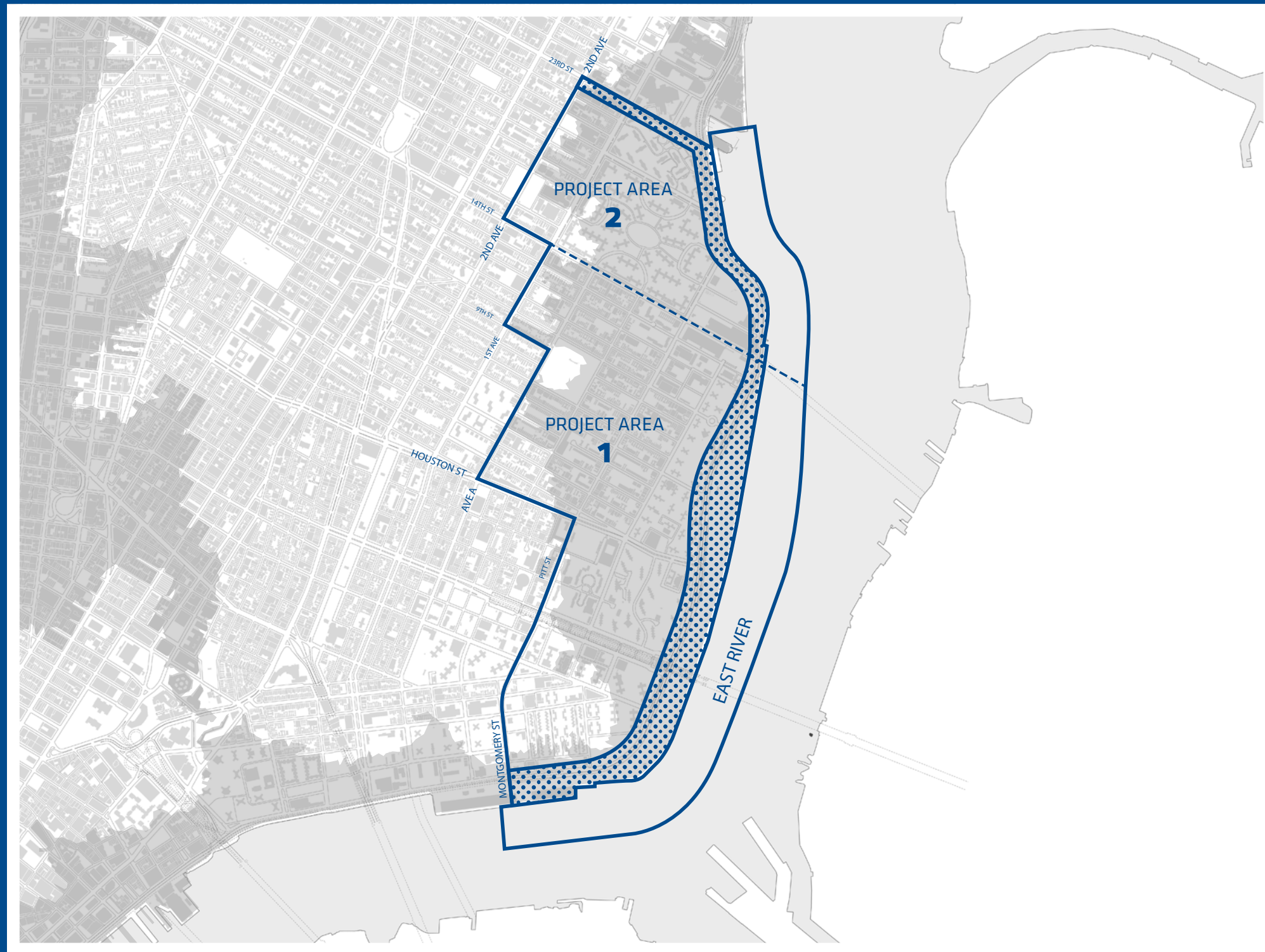
 PEOPLE



 RESILIENCY  
INFRASTRUCTURE



# ESCR SCOPE AND PROJECT AREA 1



## AREA GOALS AND CHALLENGES:

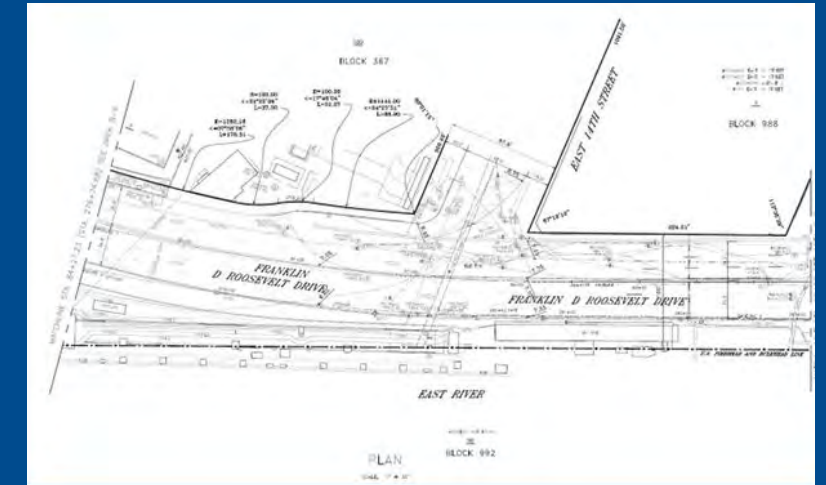
- 1) PROVIDE ROBUST FLOOD-RISK MITIGATION
- 2) MAINTAIN EXISTING RECREATIONAL USES
- 3) STRENGTHEN CONNECTIONS AND ACCESS TO EAST RIVER PARK
- 4) ENHANCE OPEN SPACE AND ECOLOGY OF THE AREA

# **PROGRESS OF TECHNICAL STUDIES**

# EXISTING CONDITIONS STUDIES - PROGRESS TO DATE

Surveying the Land

95%



Sewer Investigations

70%



Inspecting Waterfront Structures

80%



# EXISTING CONDITIONS STUDIES - PROGRESS TO DATE

**Examining Flood Risk and  
Water Flow**

**60%**



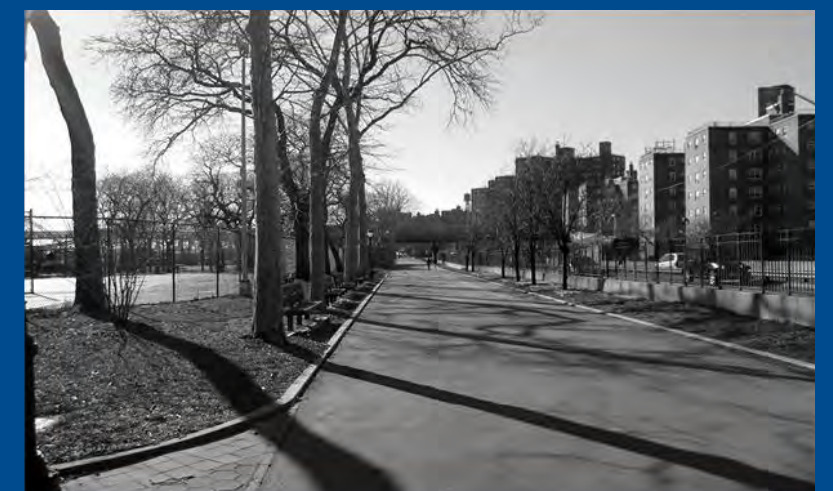
**Testing the Soil**

**20%**



**Studying Pedestrian and  
Bicycle Usage**

**10%**



# EXISTING CONDITIONS STUDIES - PROGRESS TO DATE

**Inspecting Bridges**

**70%**



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**Making an Inventory of Existing Trees**

**0%  
(Late May)**



**REBUILD BY DESIGN CONCEPT**  
**PUBLIC DESIGN PROCESS**

# REBUILD BY DESIGN

## Two Rounds of Public Workshops

**REBUILD BY DESIGN** **L.E.S. READY!**

AN INITIATIVE OF PRESIDENT OBAMA'S HURRICANE SANDY REBUILDING TASK FORCE AND HUD  
 UNA INICIATIVA DEL HURACÁN SANDY RECUPERACIÓN TASK FORCE DEL PRESIDENTE OBAMA Y HUD  
 一个总统所倡议的 SANDY 飓风灾后重建任务  
 WWW.REBUILDBYDESIGN.ORG

### L.E.S. PUBLIC WORKSHOPS ON NEIGHBORHOOD FLOOD PROTECTION

TALLERES PUBLICOS SOBRE LA PROTECCIÓN CONTRA INUNDACIONES EN COMUNIDADES  
 下东区街坊防洪公开研讨会

**NORTHEAST MEETING** 北部会议


MONDAY, FEB. 3<sup>RD</sup> 6 - 9<sup>PM</sup>  
 LUNES, 3 DE FEBRERO, 6 - 9<sup>PM</sup>  
 周一, 2月3日, 6 - 9<sup>PM</sup>

LOWER EASTSIDE GIRLS CLUB  
 101 AVENUE D

**SOUTHSIDE MEETING** 南部会议

MONDAY, FEB. 10<sup>TH</sup> 6 - 9<sup>PM</sup>  
 LUNES, 10 DE FEBRERO, 6 - 9<sup>PM</sup>  
 周一, 2月10日, 6 - 9<sup>PM</sup>

HAMILTON MADISON HOUSE  
 50 MADISON STREET ★ UPDATED LOCATION



**FREE FOOD**  
COMIDA GRATIS  
免费食物

**FREE RAFFLES**  
RAFFLES GRATIS  
免费抽奖

**FREE CHILDCARE** (OVER AGE 5)  
CUIDO DE NIÑOS GRATIS (MAYORES DE 5 AÑOS DE EDAD)  
免费儿童看护 (五岁以上)

REBUILD BY DESIGN IS DEVELOPING FUNDABLE SOLUTIONS TO BETTER PROTECT RESIDENTS FROM FUTURE CLIMATE EVENTS.  
 RECONSTRUIR POR DISEÑO ES EL DESARROLLO DE SOLUCIONES QUE PUEDEN SER FINANCIADAS PARA PROTEGER MEJOR  
 A LOS RESIDENTES DE FUTUROS EVENTOS CLIMÁTICOS.  
 重建设计正致力于开发可行的解决方案以更好地保护居民免受未来的气候灾害困扰。

QUESTIONS? CONTACT... PREGUNTAS? PONGASE EN CONTACTO CON... 问题? 联系方式... LILAH MEJIA 212-358-1231

**REBUILD BY DESIGN** **L.E.S. READY!**

AN INITIATIVE OF PRESIDENT OBAMA'S HURRICANE SANDY REBUILDING TASK FORCE AND HUD  
 ESTA ES UNA INICIATIVA DEL HURACÁN SANDY RECUPERACIÓN TASK FORCE DEL PRESIDENTE OBAMA Y HUD  
 一个总统所倡议的 SANDY 飓风灾后重建任务  
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TALLERES PUBLICOS SOBRE LA PROTECCIÓN CONTRA INUNDACIONES EN L.E.S.  
 下东区街坊防洪公开研讨会




**MONDAY, MARCH 10<sup>TH</sup>**  
 LUNES, 10 DE MARZO  
 星期一, 3月10日  
 10<sup>AM</sup> - 12<sup>PM</sup>

**RUTGERS COMMUNITY CTR**  
 200 MADISON ST

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**TUESDAY, MARCH 11<sup>TH</sup>**  
 MIÉRCOLES, 11 DE MARZO  
 星期二, 3月11日  
 6 - 8<sup>PM</sup>

**GIRLS CLUB**  
 101 AVENUE D @ 8TH STREET

NEED TRANSPORTATION? CONTACT JULIAN  
 NECESITA TRANSPORTE? LLAMA A JULIAN  
 需要交通服务? 联系人: JULIAN  
 JULIAN MORALES (212) 358-1231

REBUILD BY DESIGN IS DEVELOPING STRATEGIES TO PROTECT FROM FLOODING ALONG THE EAST RIVER WATERFRONT.  
 PLEASE JOIN US TO LEARN AND GIVE FEEDBACK ON THIS INITIATIVE. WE WANT TO HEAR FROM YOU!  
 RECONSTRUIR POR DISEÑO ESTA EXPLORANDO ESTRATEGIAS PARA LA PROTECCIÓN DE INUNDACIONES ALREDEDOR DEL  
 EAST RIVER WATERFRONT. POR FAVOR, ÚNASE A NOSOTROS PARA APRENDER Y DAR OPINIONES!

重建设计致力于寻找并开发东河沿岸的防洪策略。  
 请加入我们去更多了解这些创新策略并请提出反馈建议, 我们会虚心接受。

**FREE FOOD**  
COMIDA GRATIS  
免费食物

**FREE RAFFLES**  
RAFFLES GRATIS  
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**FREE CHILDCARE** (OVER AGE 5)  
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QUESTIONS? CONTACT LILAH PREGUNTAS? LLAMA A LILAH 问题? 联系人: LILAH LILAH MEJIA lilah@goles.org 212-358-1231

# REBUILD BY DESIGN

Two Rounds of Public Workshops



FEB 10  
HAMILTON-MADISON HOUSE



FEB 26  
LES GIRLS CLUB



# REBUILD BY DESIGN

## Analysis of Community Planning Precedents



# REBUILD BY DESIGN

## Design Options Discussion



ROUND 1: WHAT ARE THE  
OPTIONS? PROS AND CONS

# REBUILD BY DESIGN

Design Your Waterfront

ROUND 1: DESIGN YOUR  
WATERFRONT - PROTECTION  
AND PROGRAM



# REBUILD BY DESIGN

## Community Design Process

**ROUND 2:  
PRESENTATION OF  
INITIAL PLANS**



# REBUILD BY DESIGN

## Community Design Process

ROUND 2:  
FEEDBACK ON DESIGN  
CONCEPT



# WHAT WE HEARD

**“ BETTER  
ACCESS TO EAST  
RIVER PARK ”**

**“ FAMILY FRIENDLY ”**

**“ FLOOD  
PROTECTION ”**

**“ SAFETY AND  
SECURITY ”**

**REBUILD BY DESIGN**

**“ CONNECTIONS TO  
THE WATER ”**

**“ MORE NATURAL  
SPACES ”**

# REBUILD BY DESIGN

Concept: East River Park as Flood Protection



# REBUILD BY DESIGN

Concept: Enhancing access and natural open spaces.





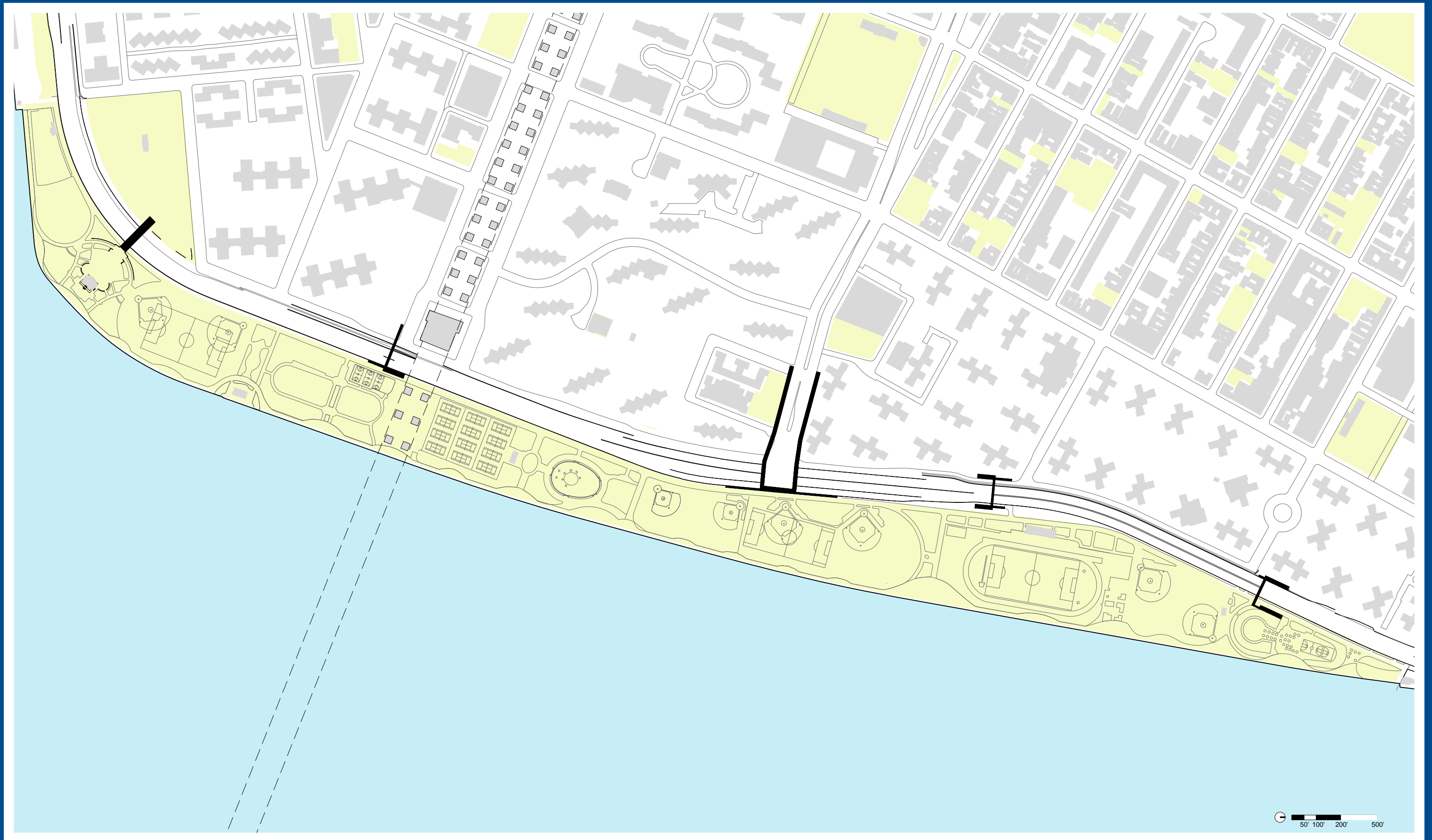
# EAST RIVER PARK

## Existing Conditions



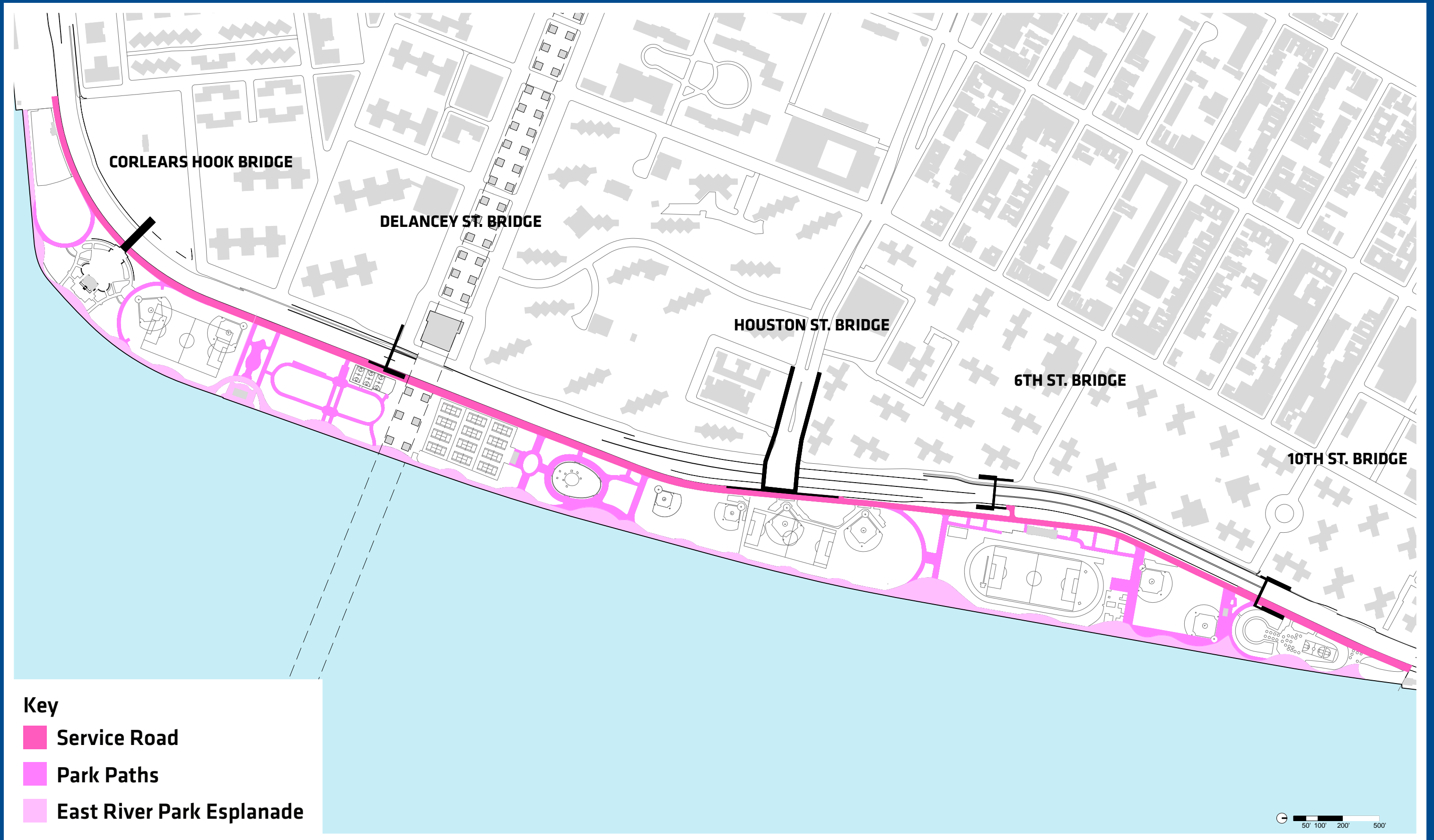
# EAST RIVER PARK

## Surrounding Parks



# EAST RIVER PARK

## Paths and Access Routes



# EAST RIVER PARK

## Sports Fields



# EAST RIVER PARK

## Passive Space Opportunities



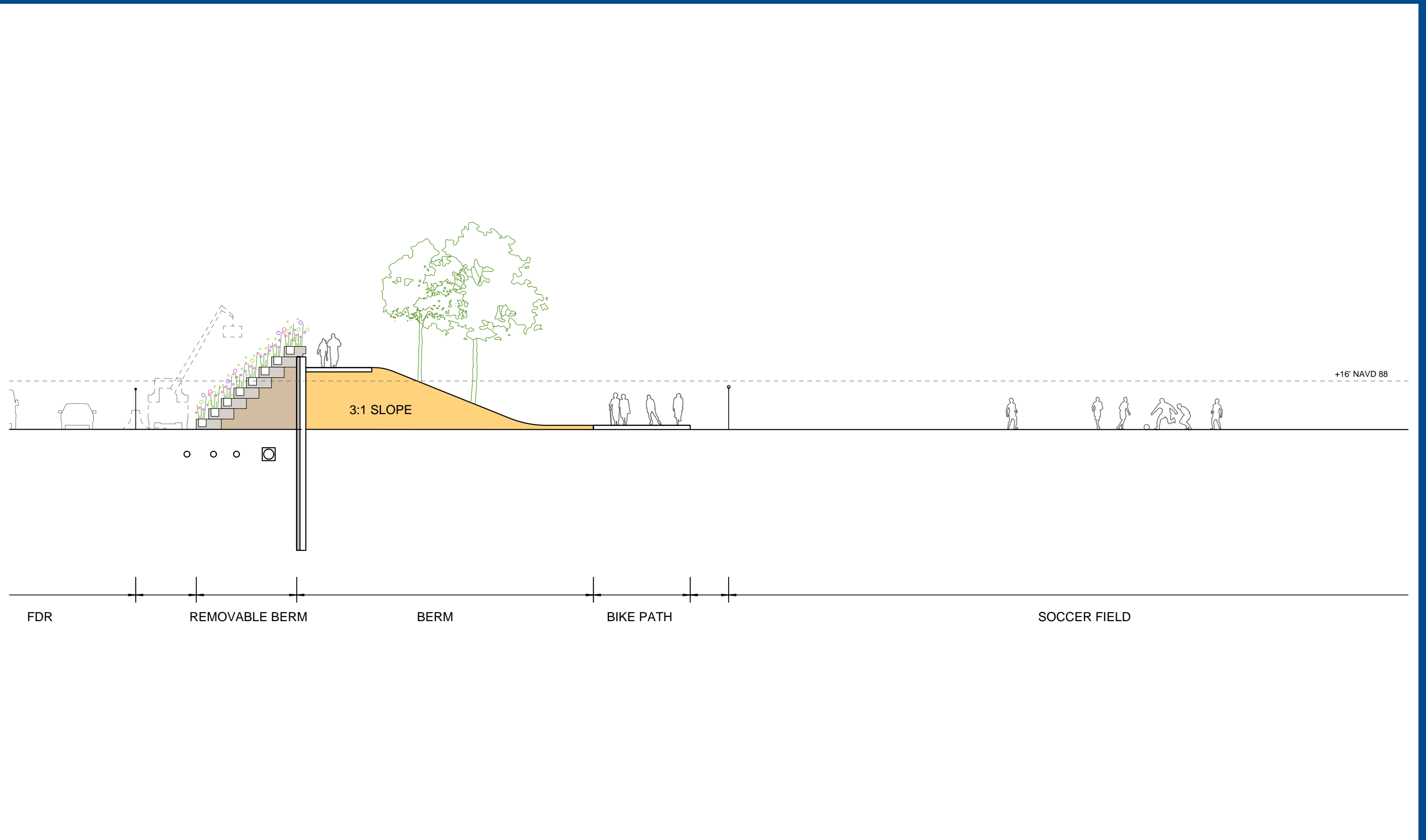
# SECTIONAL STUDIES

## Typical Existing Conditions



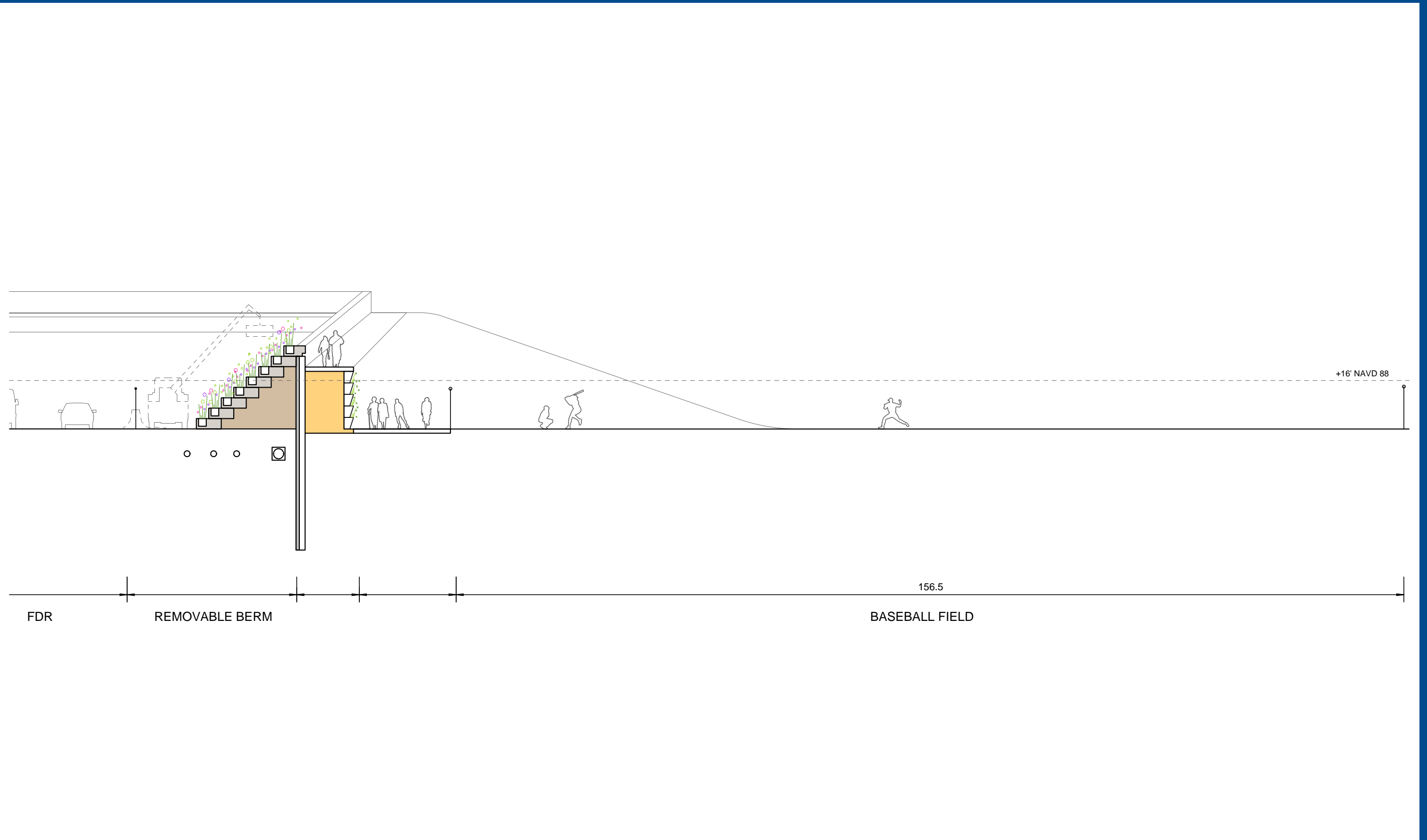
# SECTIONAL STUDIES

## Refining Rebuild by Design Concept with New Technical Input



# SECTIONAL STUDIES

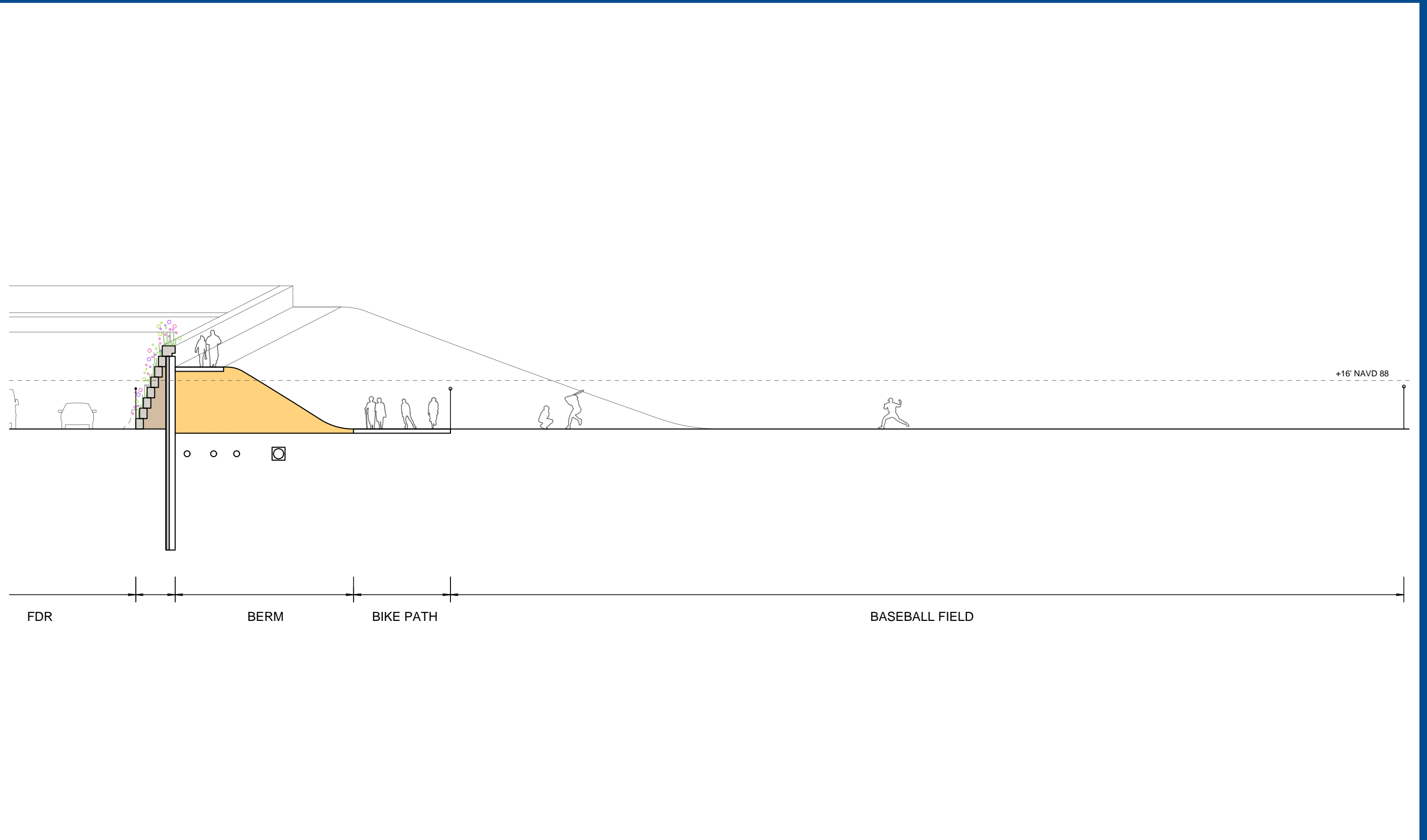
## Parkside Berm to Contract at Narrow Segments





# SECTIONAL STUDIES

## Highwayside Berm to Contract at Narrow Segments



# PASSIVE SPACE OPPORTUNITIES

## Typical Section Along Service Road



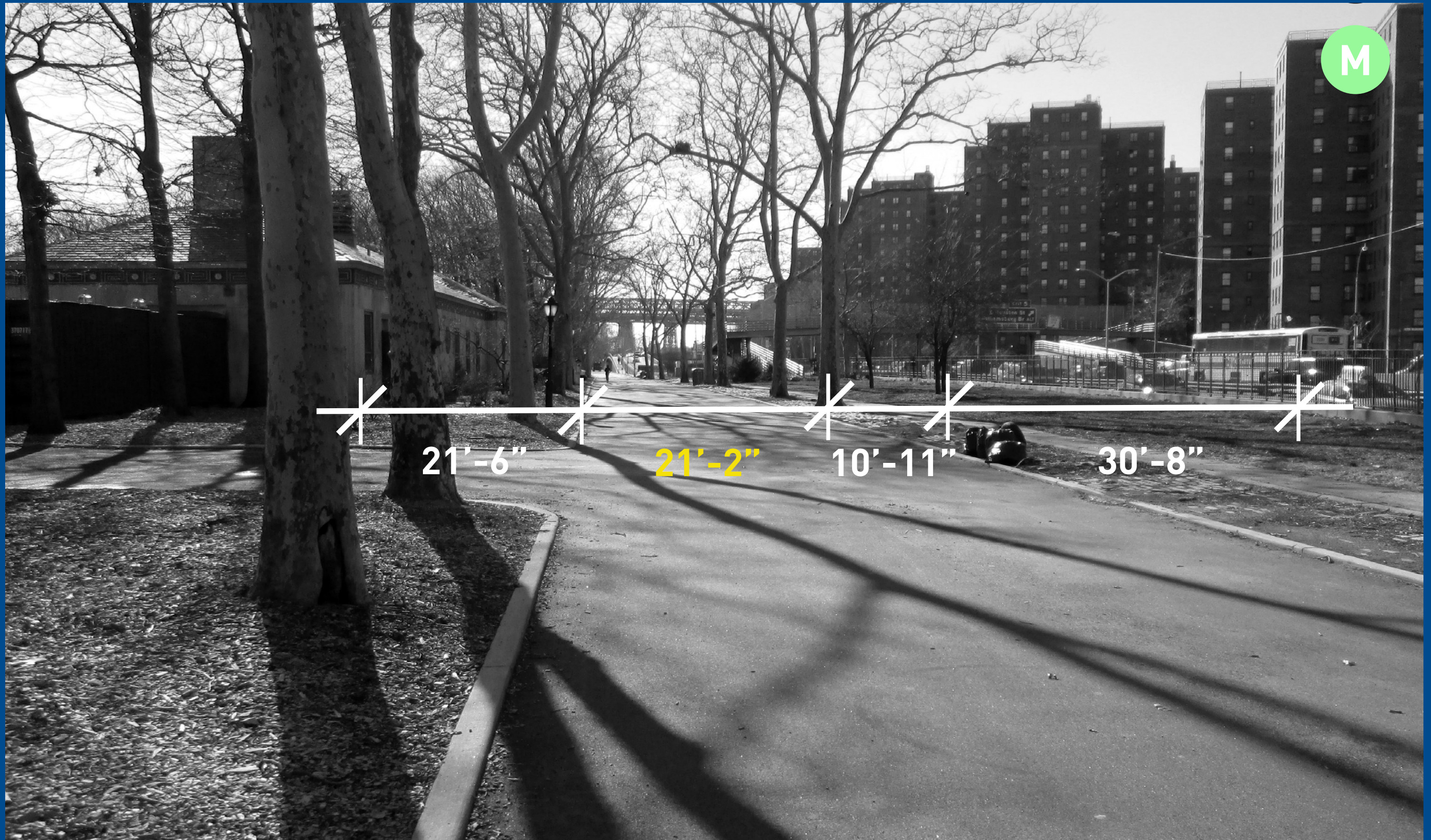
# PASSIVE SPACE OPPORTUNITIES

Typical Section Along Service Road



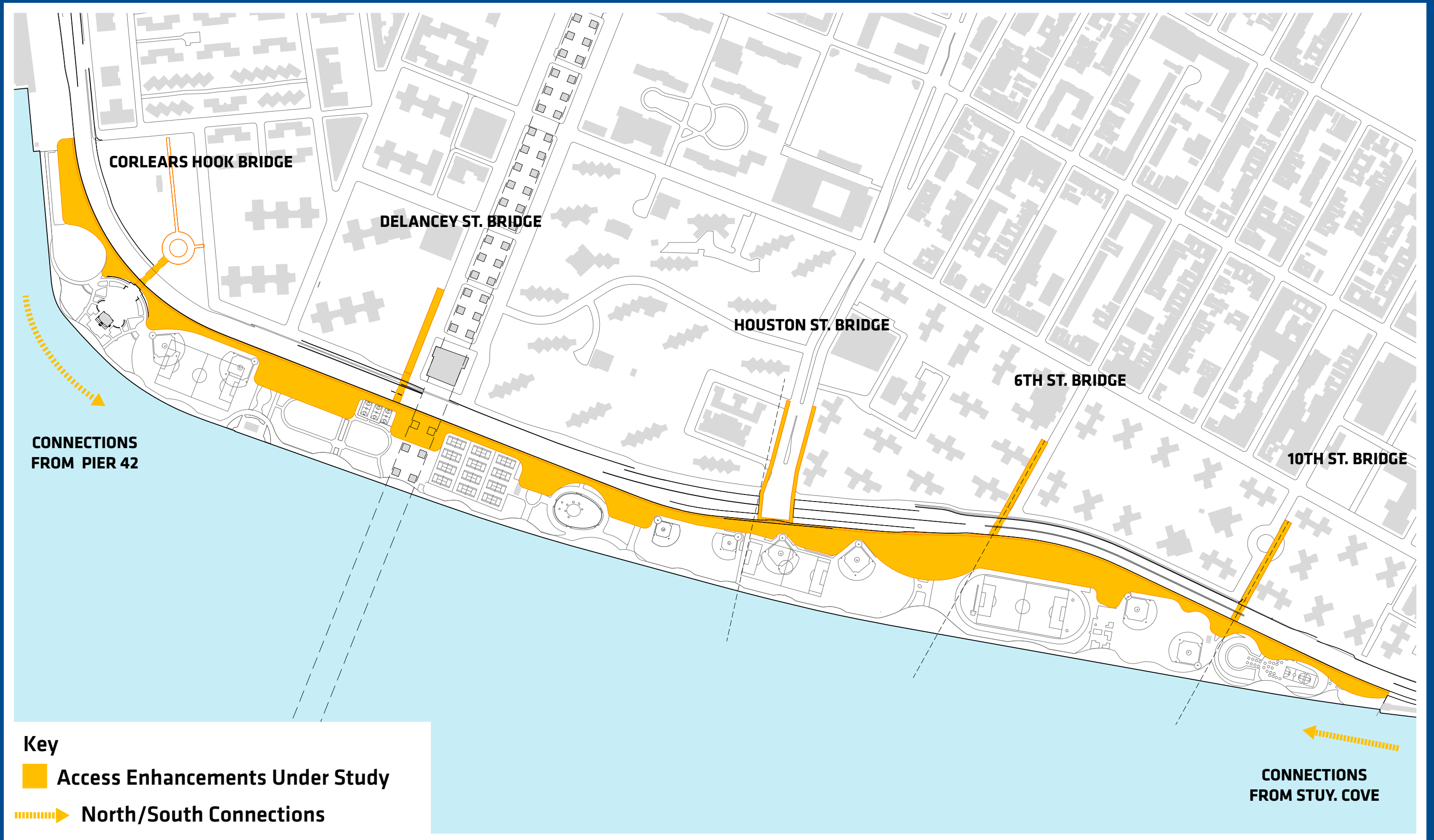
# PASSIVE SPACE OPPORTUNITIES

Typical Section Along Service Road



# EAST RIVER PARK

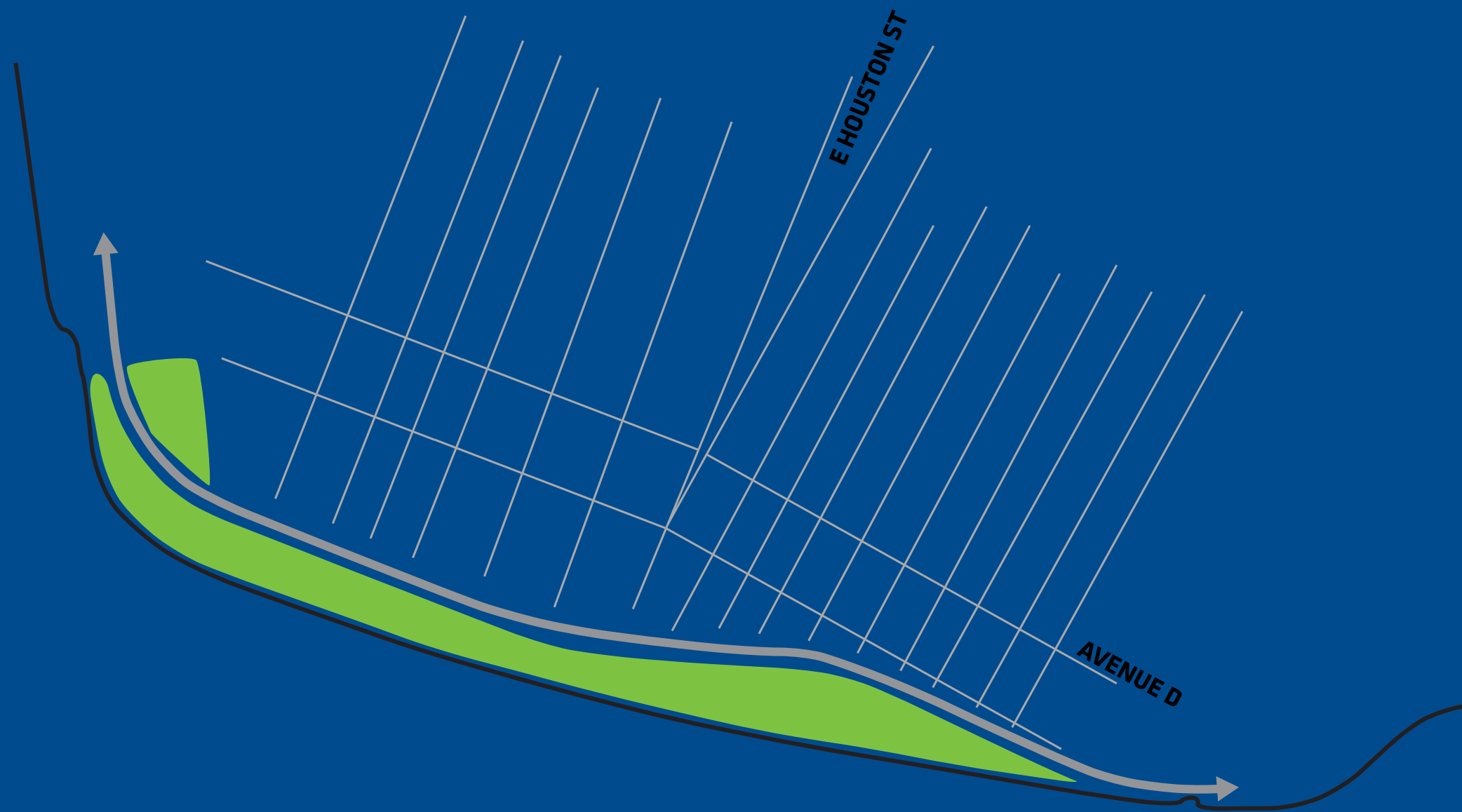
## Access Enhancements Under Study



# **EAST RIVER PARK - CONNECTIONS**

## 1930 - EAST RIVER DRIVE CONSTRUCTED

Completed in 1939, East River Park was constructed alongside the East River Drive (later renamed FDR Drive), a tree-shaded esplanade conceived by Robert Moses in the 1930s.



# 1930 - EAST RIVER DRIVE CONSTRUCTED

Completed in 1939, East River Park was constructed alongside the East River Drive (later renamed FDR Drive), a tree-shaded esplanade conceived by Robert Moses in the 1930s.



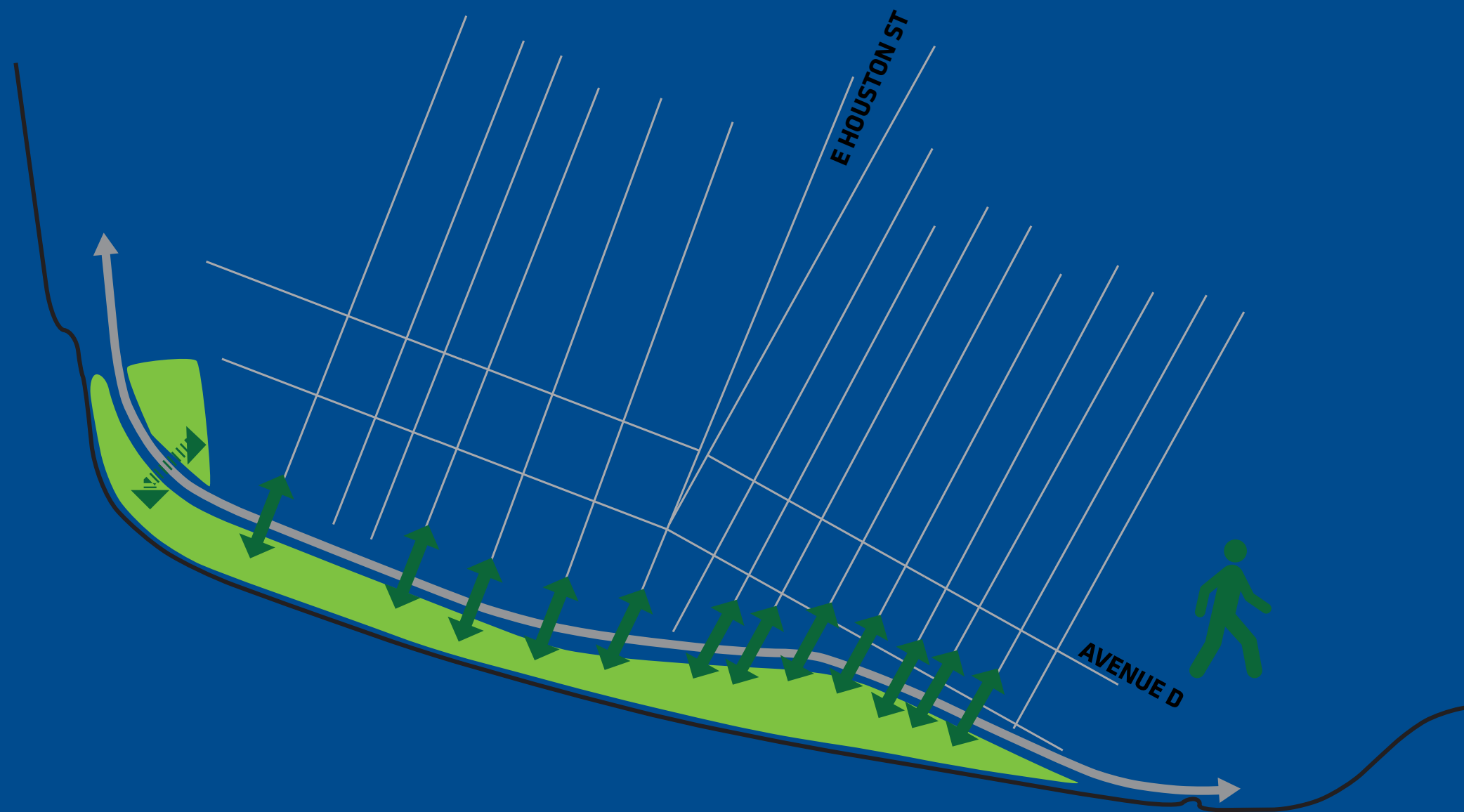
**EAST RIVER PARK AND FDR UNDER CONSTRUCTION**

1935



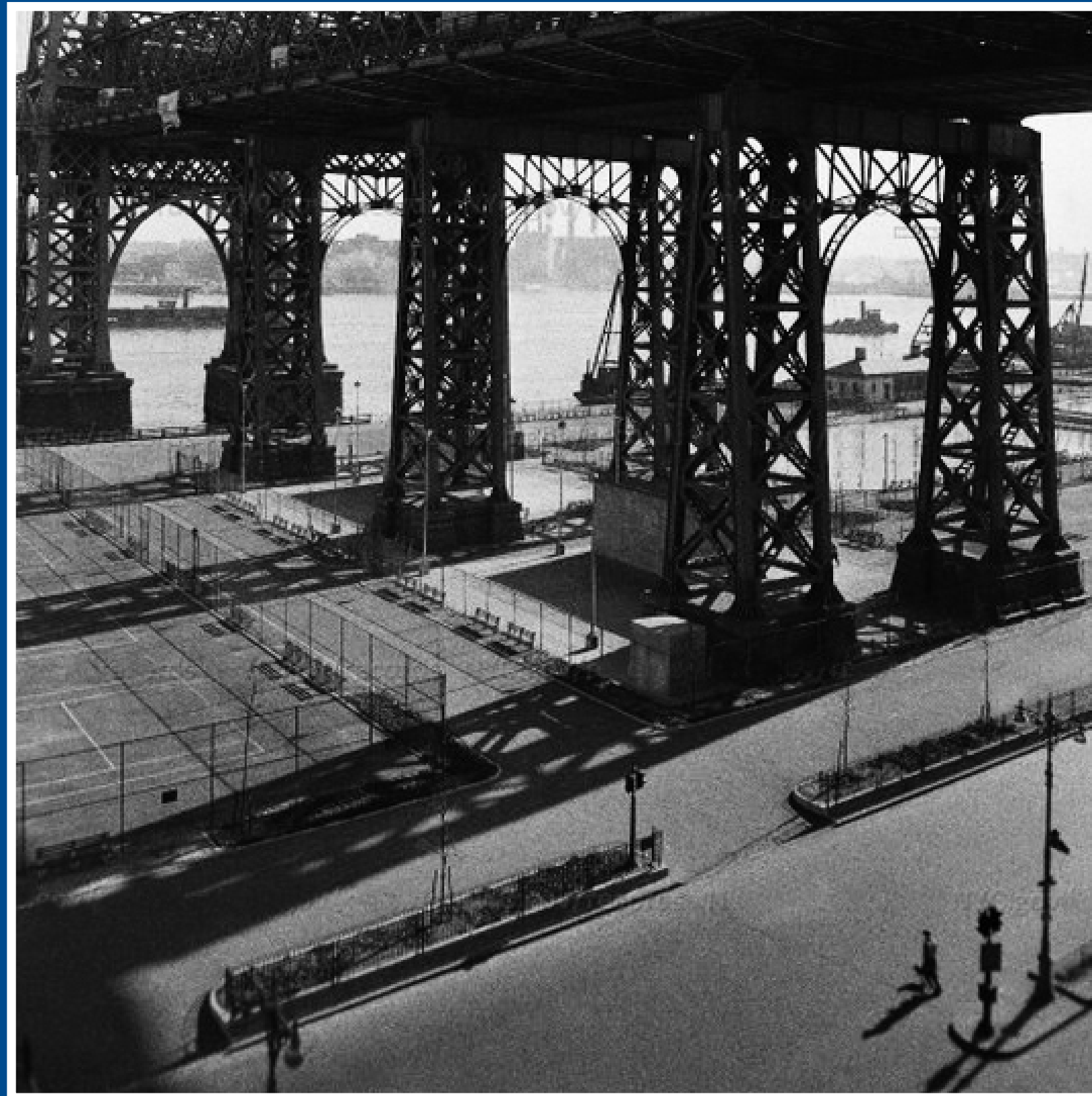
# 1930-1950 - BOULEVARD CROSSINGS

Numerous at-grade pedestrian crossings allowed for easy access to the amenities of East River Park.



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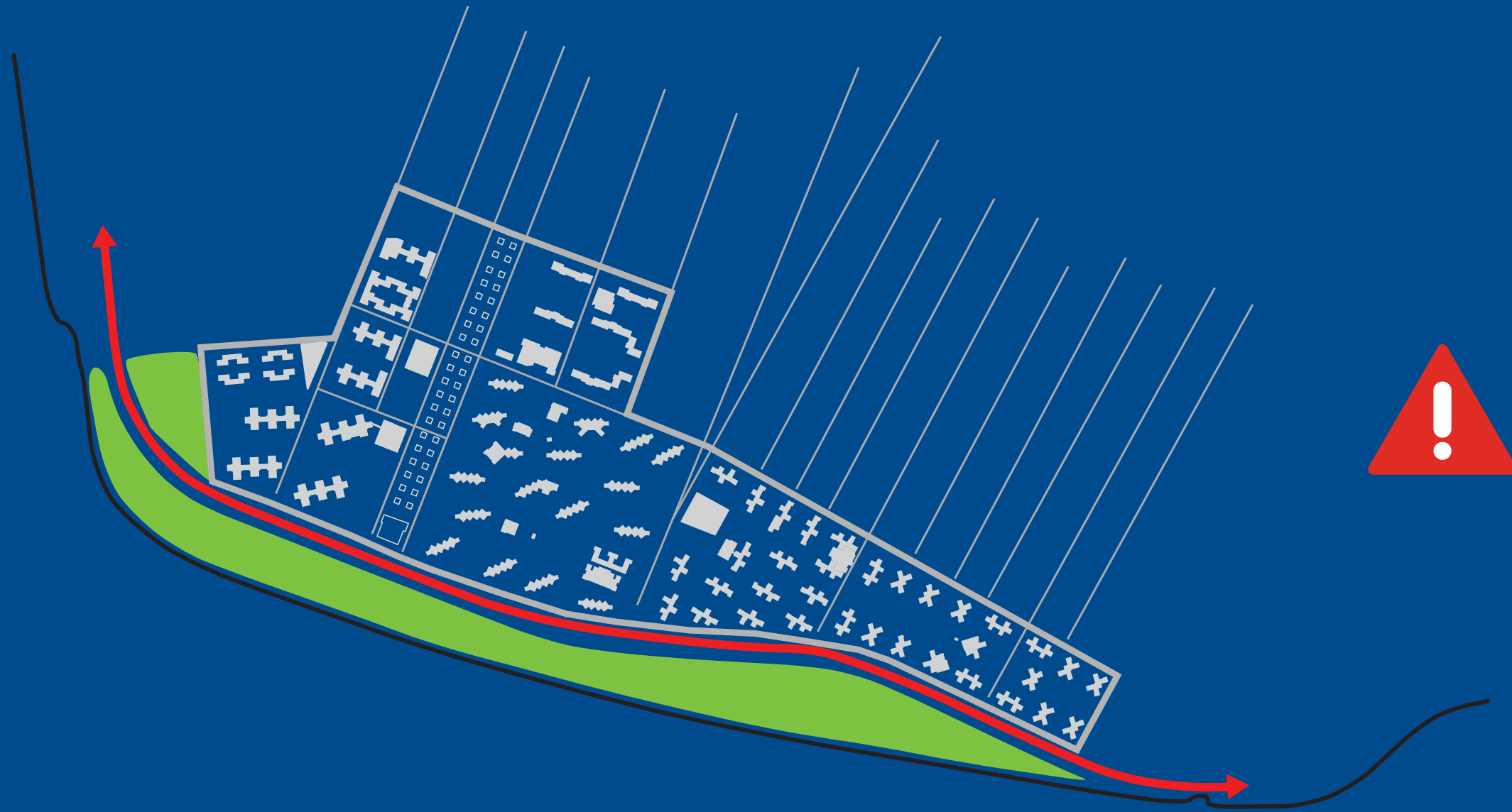


**WILLIAMSBURG BRIDGE PEDESTRIAN CROSSING**

1941

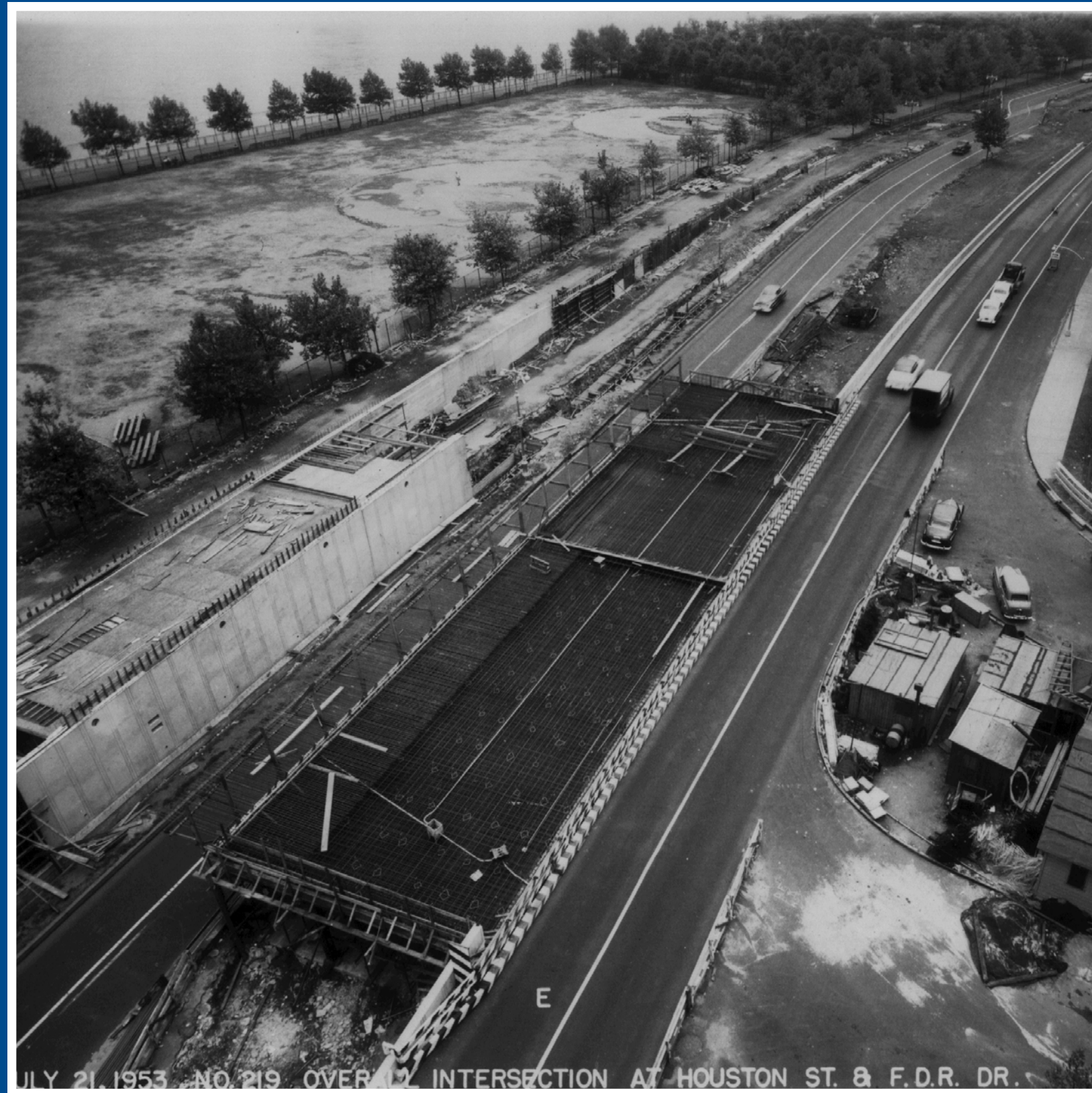
## 1950s - EXPRESSWAY

Between 1948 and 1966, the Boulevard was converted into a separated, high-speed expressway, eliminating the possibility for crossings at street.



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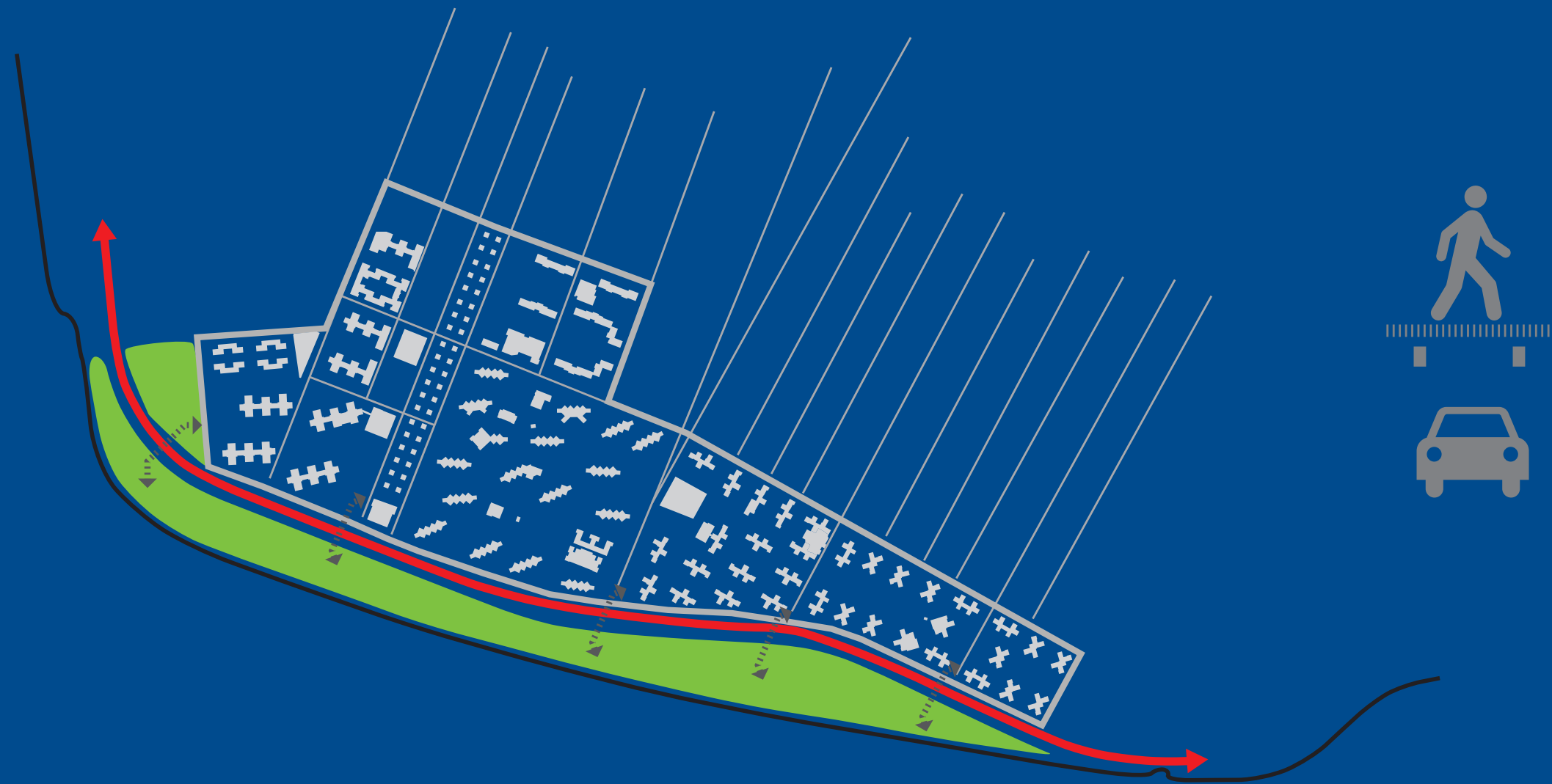


## RE-CONFIGURATION AS EXPRESSWAY

1953

# 1950s - BRIDGES

Four elevated pedestrian bridges were constructed to replace the original at-grade crossings. Access into East River Park is limited to a total of five narrow connection points onward.



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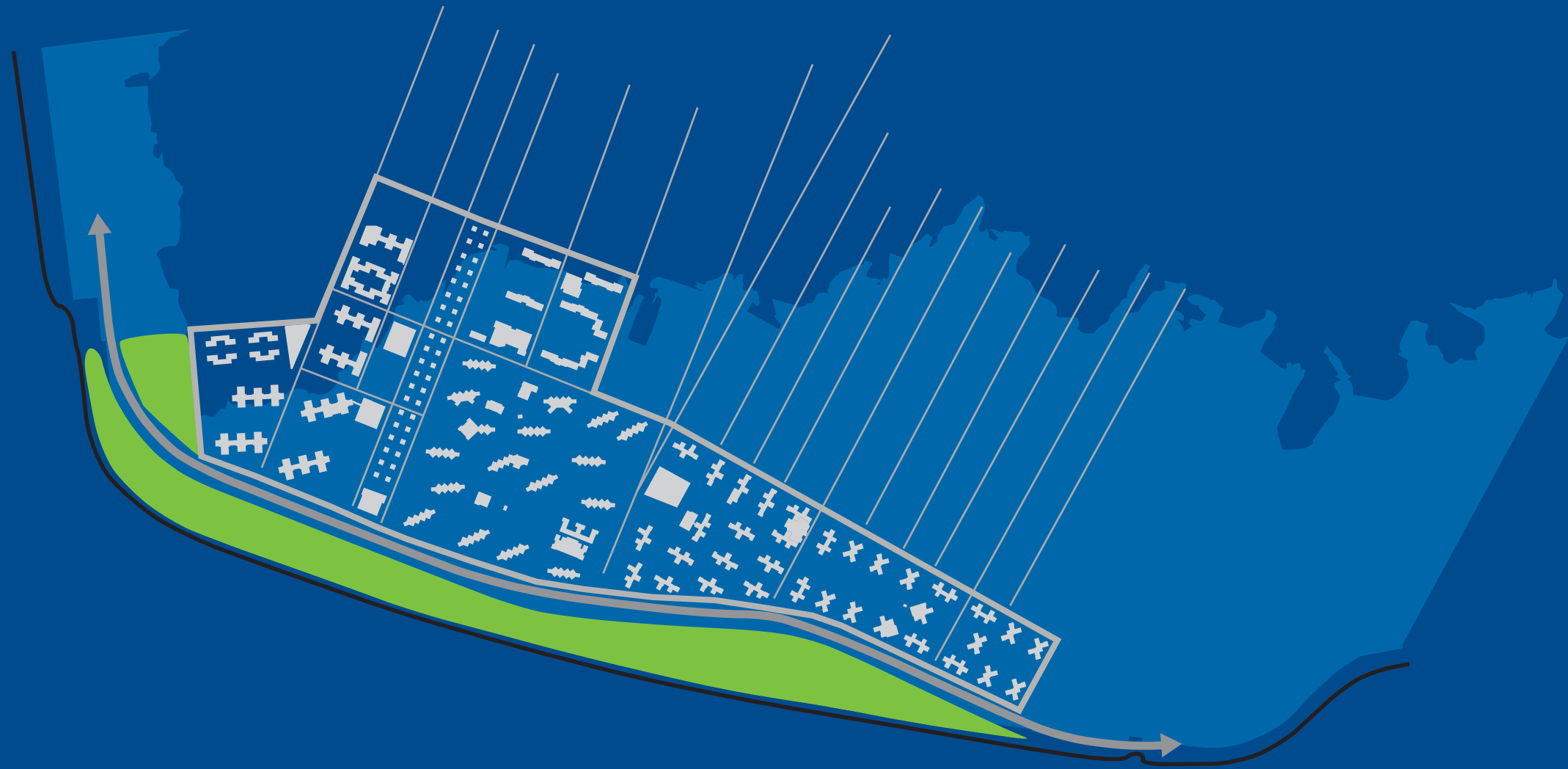


## 6TH STREET BRIDGE CONSTRUCTION

1954

## 2015 - RISK

The ESCR Project is conceived as the risk of flood and other climate related events is increasing.



# BERM

The ESCR Project envisions an integrated, neighborhood sensitive resiliency measure which would, firstly:

**Mitigate flood risk by creating an elevated berm along East River Park.**

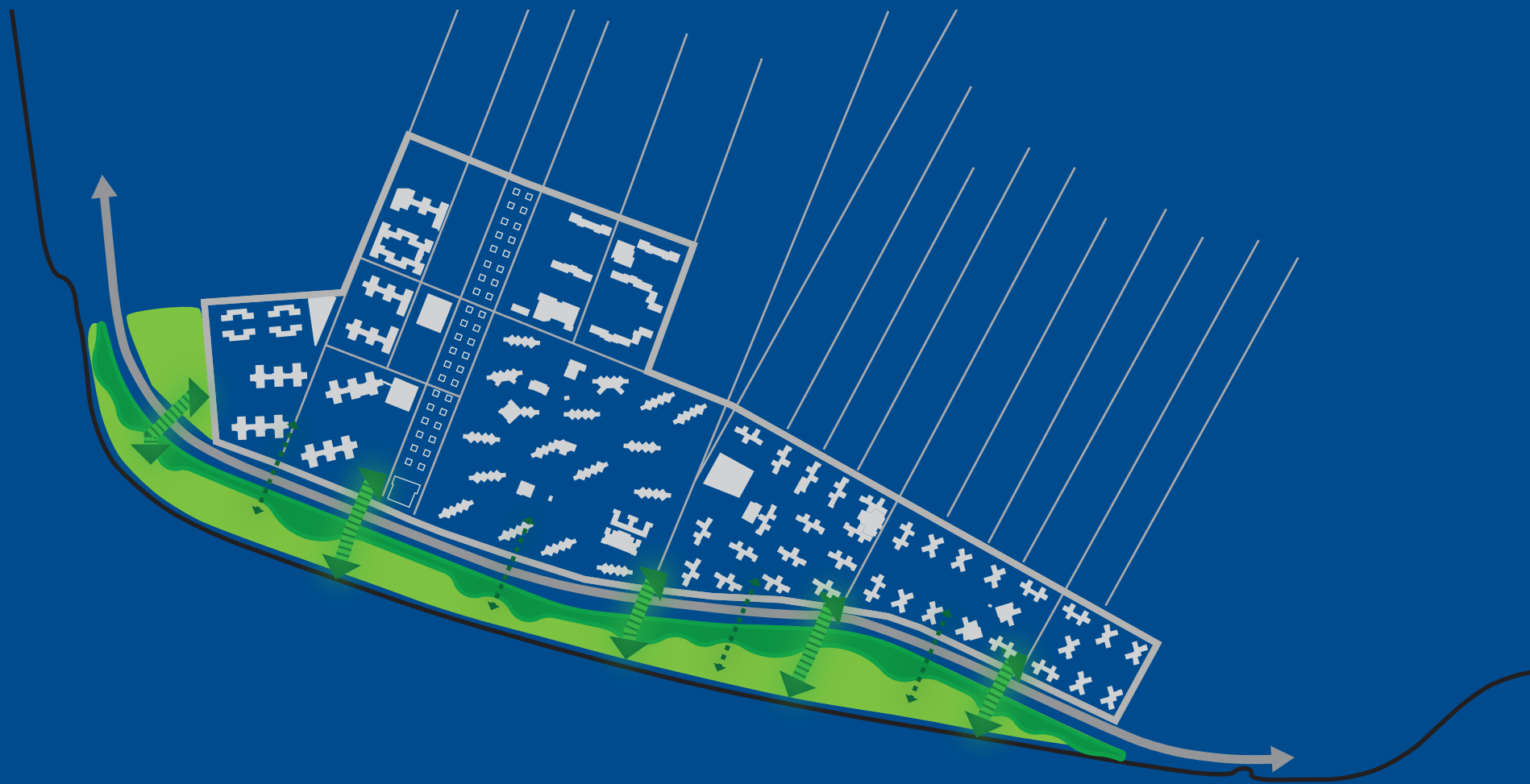




# BRIDGING PARK AND COMMUNITY

At the same time, the ESCR Project aims to enhance access to East River Park by employing a "Bridging Berm" concept which would:

**Create stronger connections between the waterfront and the community, and anticipate the potential for additional access points in the future.**



**ACCESS TODAY**  
**HOUSTON STREET**

# HOUSTON STREET - VEHICULAR CONFLICTS

The Houston Street bridge today presents a series of difficult-to-navigate road crossings, with no traffic signals.



# HOUSTON STREET - PARK ACCESS

A single 3'-Wide cut in the concrete barrier announces entry into the park.



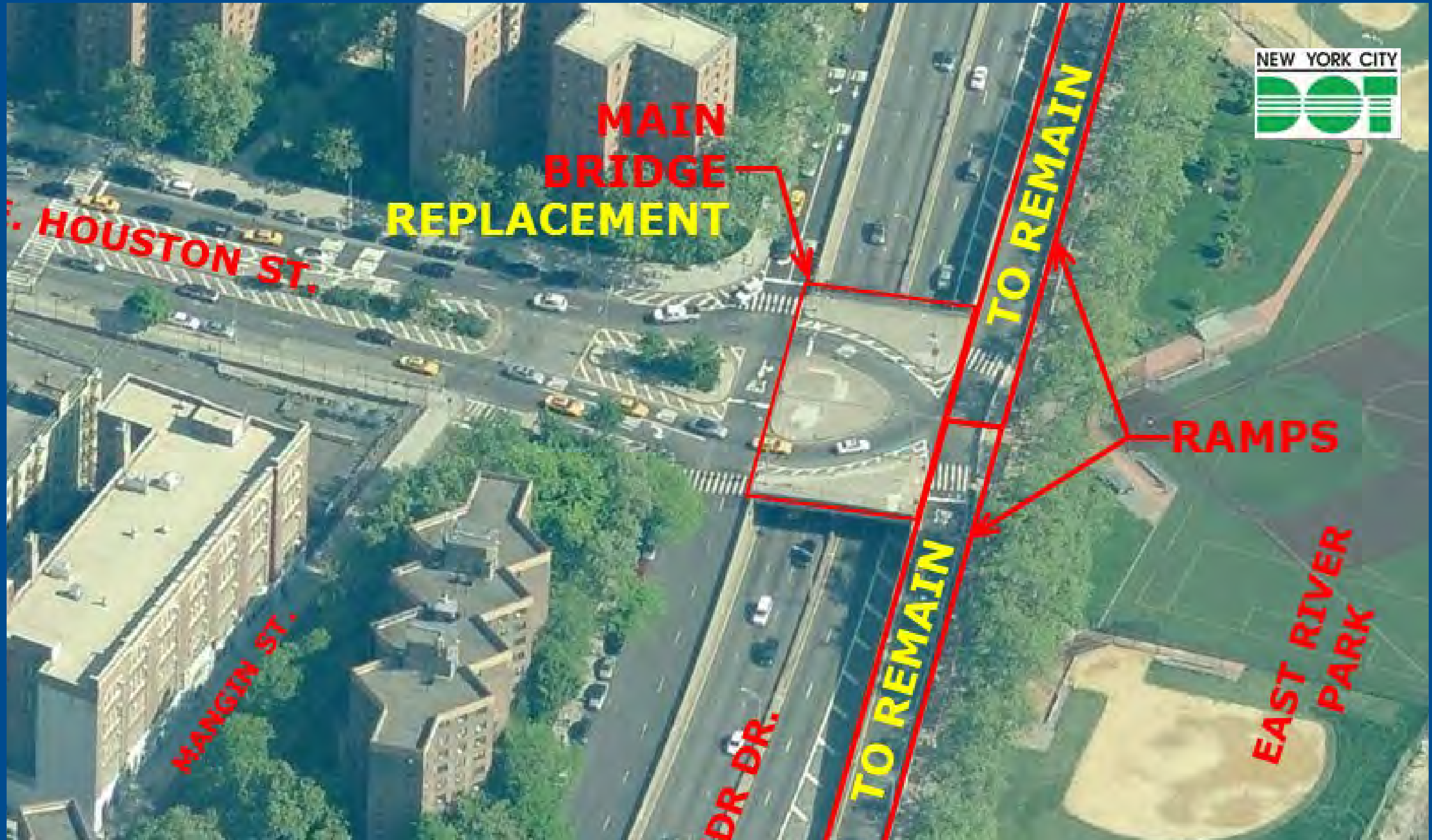
# HOUSTON STREET - PARK ARRIVAL

The ESCR Project will coordinate with DOT's work and study upgrades to entry and arrival ramps in the park, as part of integration with the protective berm.



# HOUSTON STREET - DOT IMPROVEMENTS

The NYC Dept. of Transportation will be replacing the Houston Street deck by 2016, and introducing traffic signals as part of that work.



**ACCESS TODAY**  
DELANCEY ST.

# DELANCEY ST. - APPROACH

Bridges today are approached along sidewalks with minimal signage, lighting, or greenery to announce entry to the park.





# DELANCEY ST. - WIDTH

Width is typically between 7 and 9 feet.



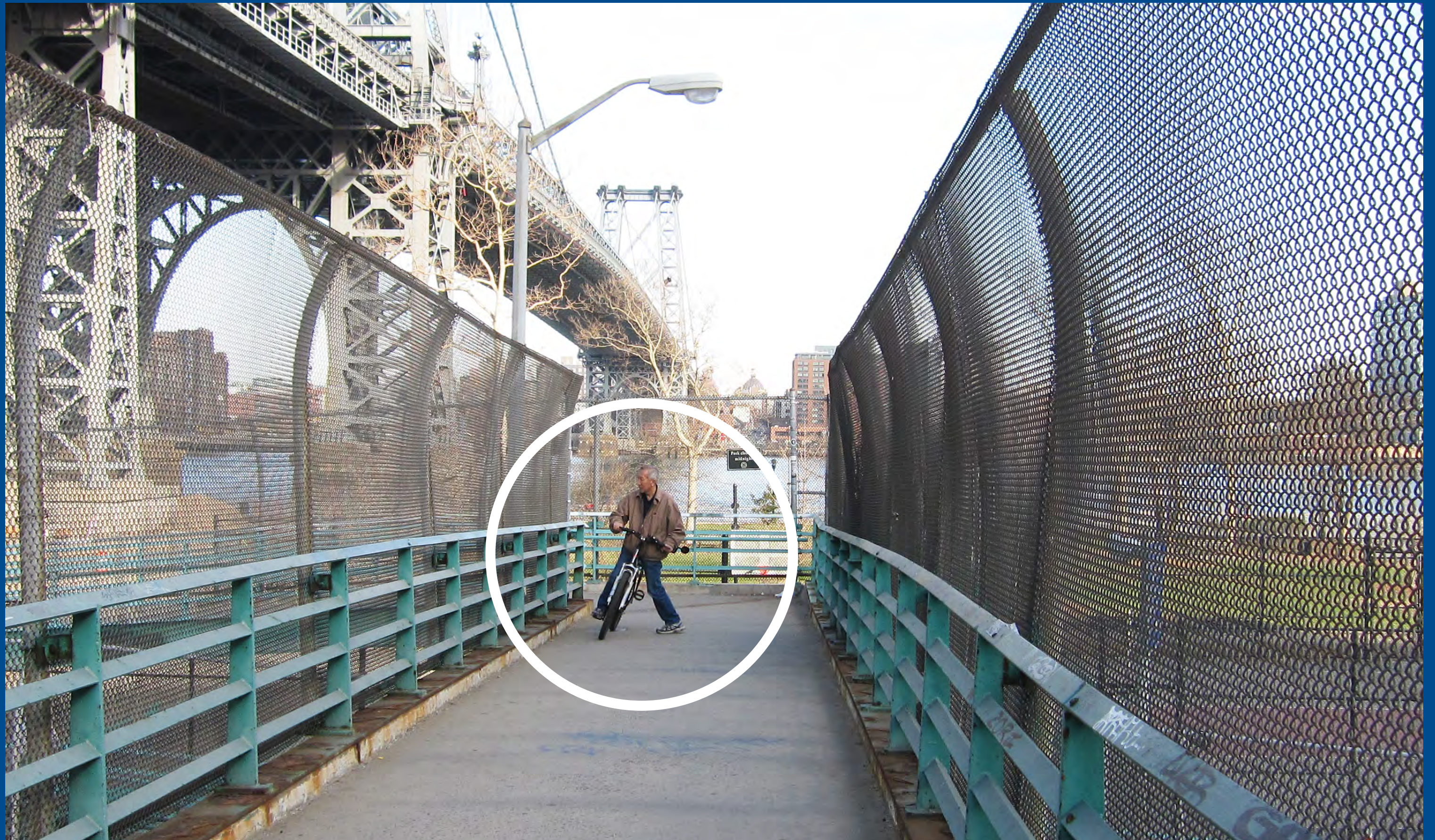
# DELANCEY ST. - PASSING

This allows roughly two people to pass in either direction if they are walking without strollers, wheelchairs, bikes, or other items.



# DELANCEY ST. - BIKING

Sharp turns do not allow bikers to cross without fully or partially dismounting.



# DELANCEY ST. - EXPERIENCE

Chain-link fence separates pedestrians from the busy 8-lane roadway below.



# DELANCEY ST. - SWITCHBACK RAMPS

Pedestrians and bikers make sharp turns as they descend down the switchback ramps.



# DELANCEY ST. - STAIRS

Alternative stairs allow those for those who choose to, to descend more quickly to the park.



# DELANCEY ST. - PARK ARRIVAL

Entry into the park is adjacent to the FDR, and often lands behind ball-courts with high fences.



**ACCESS TODAY**  
CORLEARS HOOK



# CORLEARS HOOK - APPROACH

In contrast, approach to the Corlears Hook bridge occurs in a park-like setting with greenery and generous walkways.



# CORLEARS HOOK - WIDTH

Total width of the bridge is 30 feet, allowing multiple users to pass comfortably.



# CORLEARS HOOK - BIKING

15 foot lane widths in either direction and gentle turns allow bikers to cross smoothly without dismounting.



# CORLEARS HOOK - ARRIVAL

Arrival is accomplished by means of gentle rampways integrated into the landscape, with views and access directly out to the water.



# **MARCH COMMUNITY ENGAGEMENT FINDINGS**

# MARCH COMMUNITY ENGAGEMENT FINDINGS

Over 135 residents attended the first round of community engagement workshops for the East Side Coastal Resiliency Project on 03/19 and 03/23.



SESSION 1: MARCH 19TH, BARD HIGH SCHOOL



SESSION 2: MARCH 23RD, WASHINGTON IRVING HIGH SCHOOL

# MARCH COMMUNITY ENGAGEMENT FINDINGS

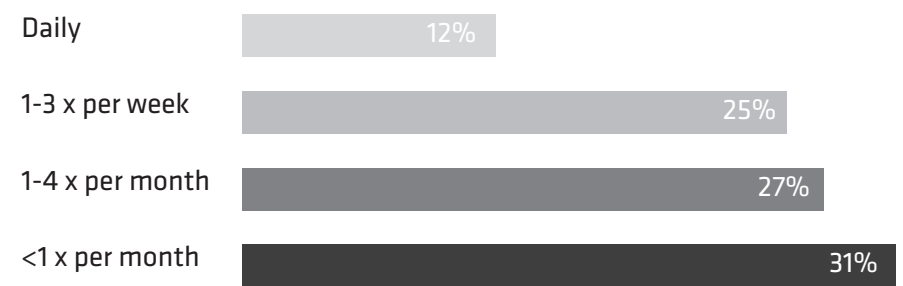
A majority of participants would like to see a nature walk (61%) and a cafe (55%) in East River Park.

## USE OF EAST RIVER PARK:

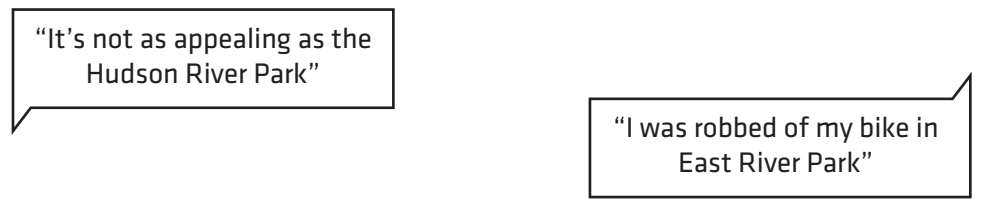
Do you visit East River Park?



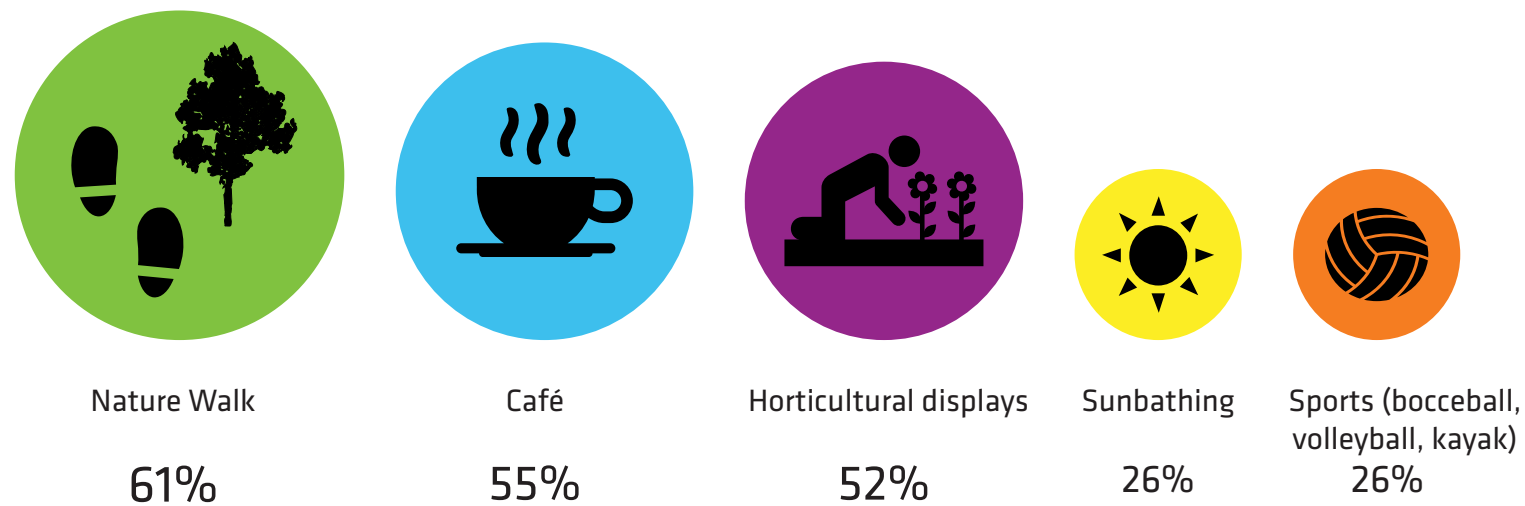
If yes, how often?



If no, why not?



What additional services, activities or spaces would you like to see in or near East River Park?



Other suggestions include: a dog run, an ice-skating rink, a bike rental facility, a batting cage, movie nights during the summer months, a beach, ping-pong tables, shade structures, a playground, and an eco-festival

# MARCH COMMUNITY ENGAGEMENT FINDINGS

According to survey, 20th Street is the most frequently used access point to Stuyvesant Cove Park, while the Corlears Hook and Delancey Street bridges are the most frequently used connections to East River Park.

## SURVEY MAP RESPONSES:

### HOW DO YOU GET TO THE EAST RIVER WATERFRONT?



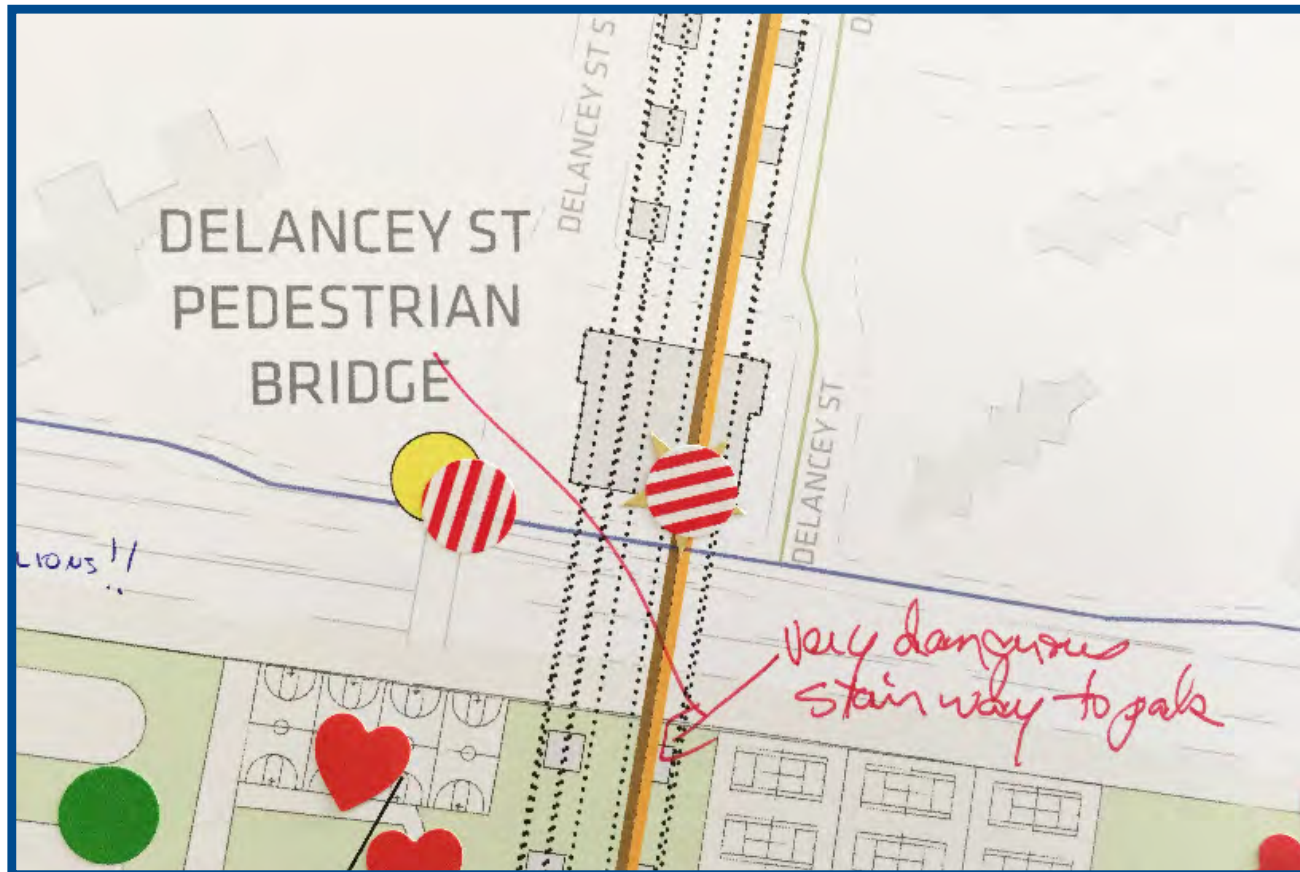


# MARCH COMMUNITY ENGAGEMENT FINDINGS

Participants voiced concerns about the quality and safety of the pedestrian connections to the waterfront throughout the ESCR Project area.

## ACCESS POINTS TO THE WATERFRONT:

### DELANCEY STREET PEDESTRIAN BRIDGE



SESSION 1 & 2 ACTIVITY BOARD



DELANCEY ST. BRIDGE ACCESS POINT

## **WORKSHOP ACTIVITY**

**HOW CAN THE ESCR PROJECT IMPROVE  
ACCESS TO EAST RIVER PARK?**

# JOIN A TABLE!

**TABLE 1:** CORLEARS HOOK PARK BRIDGE

**TABLE 2:** DELANCEY ST BRIDGE

**TABLE 3:** HOUSTON ST OVERPASS

**TABLE 4:** E6TH ST BRIDGE

**TABLE 5:** E10TH ST BRIDGE

**TABLE 6:** NEIGHBORHOOD CONNECTIONS

# NEXT STEPS

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**SIGN IN AT THE FRONT DESK  
TO STAY IN TOUCH AND HEAR  
ABOUT UPCOMING MEETINGS AND  
ANNOUNCEMENTS!**

FOR MORE INFORMATION ABOUT  
THE EAST SIDE COASTAL RESILIENCY PROJECT EMAIL US AT:

**[nycresiliency@cityhall.nyc.gov](mailto:nycresiliency@cityhall.nyc.gov)**

# NEXT STEPS

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## THIS MEETING WILL BE REPEATED:

MAY 28TH FROM 6:30-8:30PM  
AT CHURCH OF ST. BRIGID  
119 AVENUE B

TELL YOUR FRIENDS!



# NEXT STEPS

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**THE NEXT TASK FORCE MEETING WILL BE HELD:**

**JULY 9TH - TIME AND LOCATION TO BE ANNOUNCED**