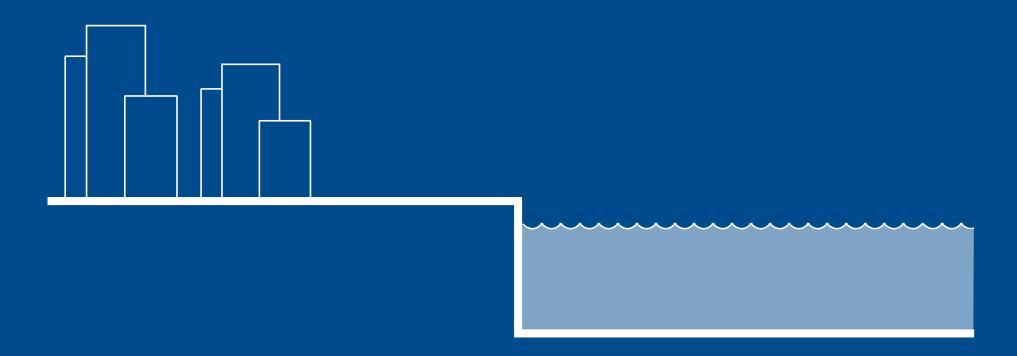


# **Community Design Workshop**Project Area Two

- 1. Project Goals Re-Cap
- 2. Project Schedule
- 3. Progress of Technical Studies
- 4. Community Feedback and Design Studies
- 5. Next Steps
- 6. Table Activity

## PROJECT GOALS RE-CAP

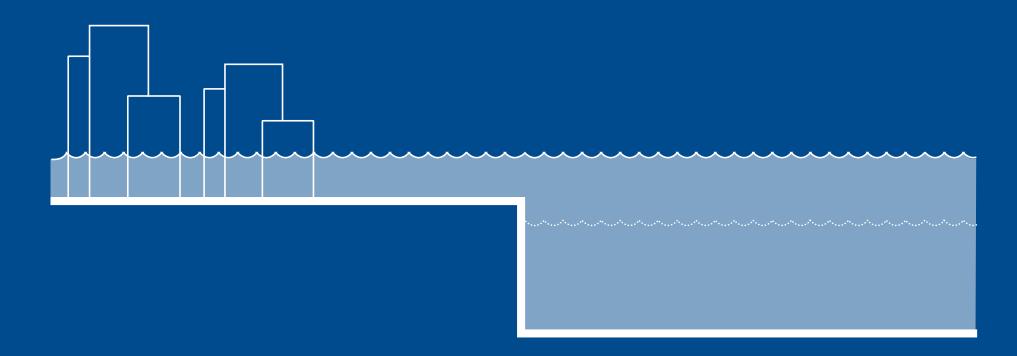
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



#### THE EAST SIDE



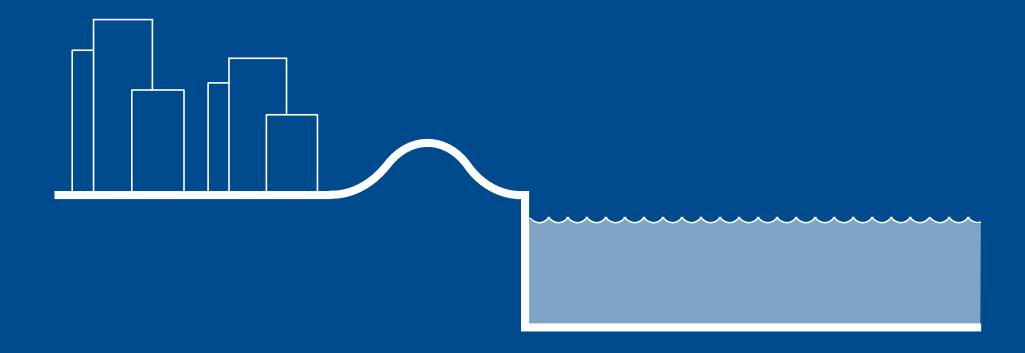
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



#### WHAT HAPPENED DURING SANDY?



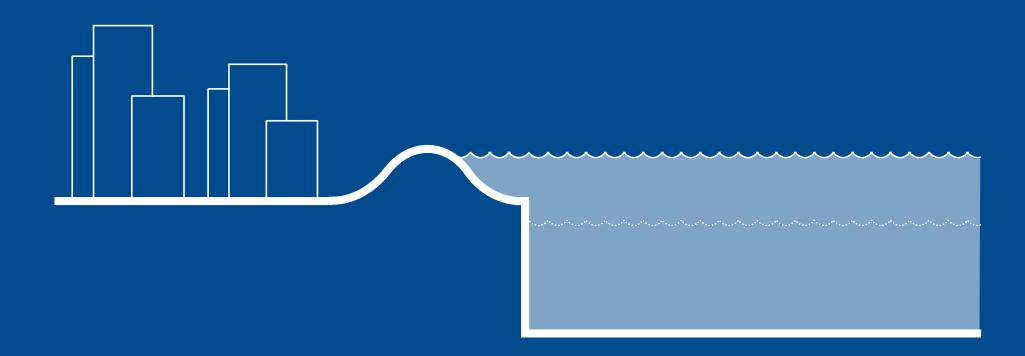
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



**BARRIER** 



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

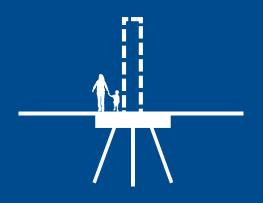


#### **FLOOD PROTECTION**



#### **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** 

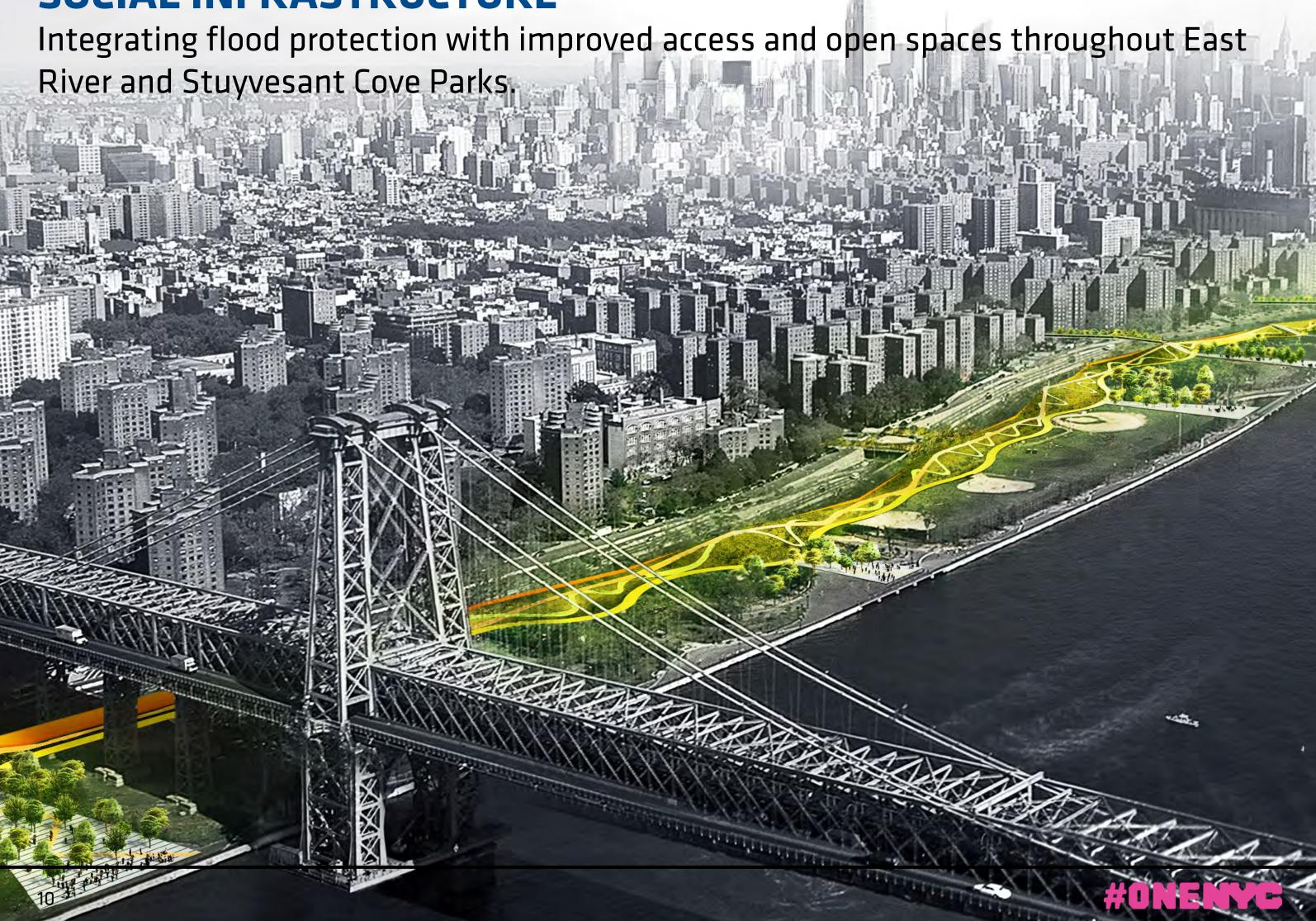
#### **SOCIAL INFRASTRUCTURE**

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



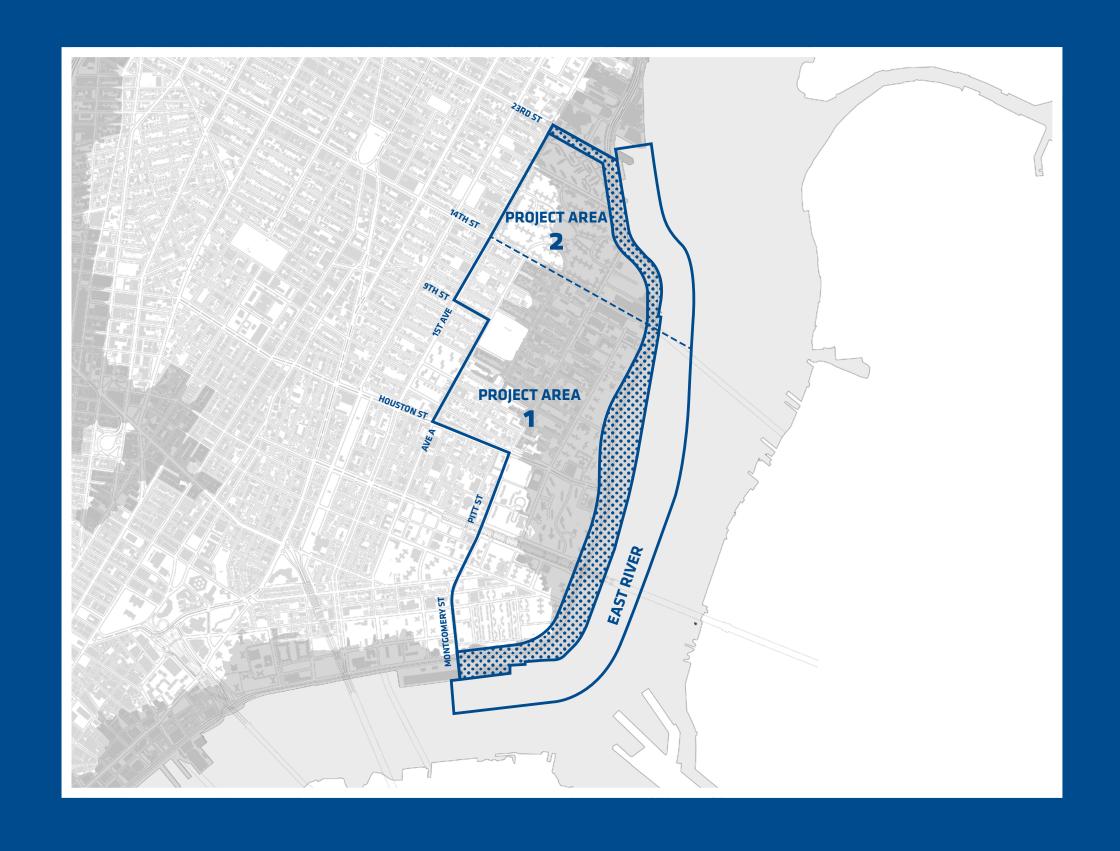


#### **SOCIAL INFRASTRUCTURE**

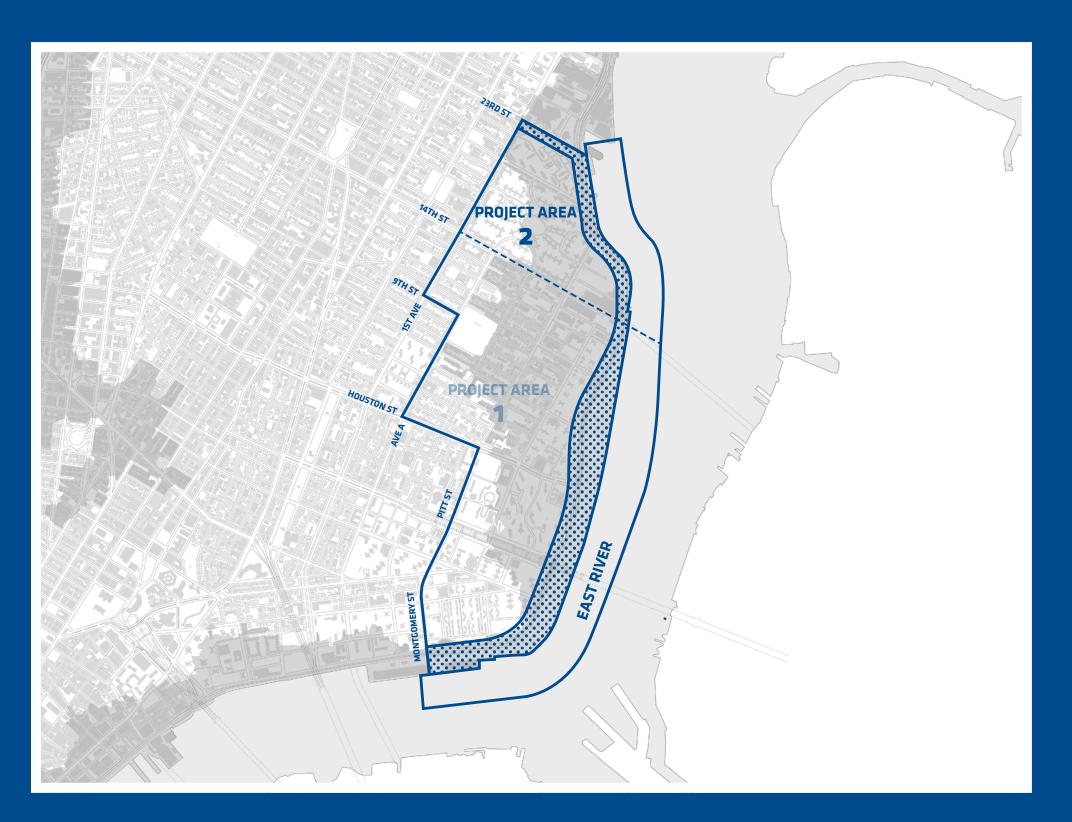


#### **ESCR PROJECT SCOPE**

A \$335 million project to implement coastal protection from Montgomery Street to East 23rd Street.



#### **PROJECT AREA 2 - STUYVESANT COVE**



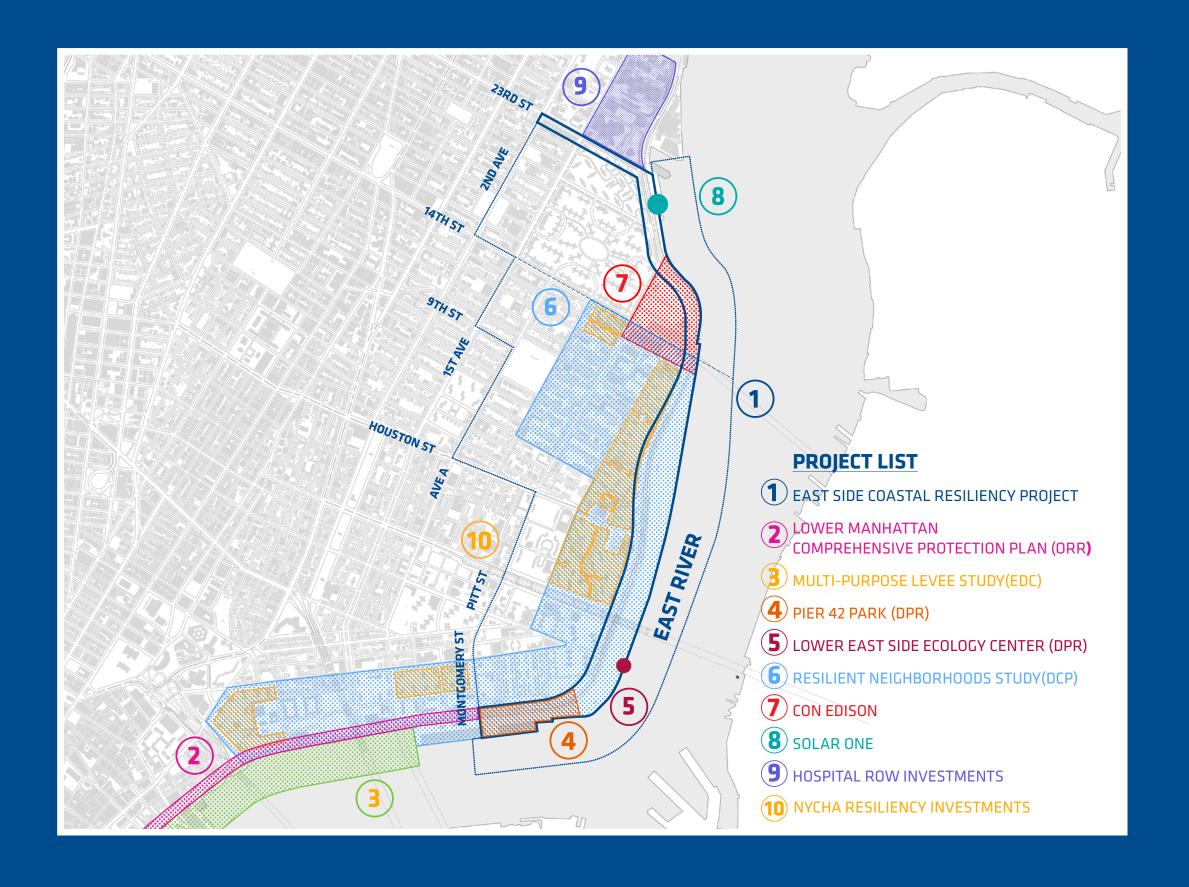
### PROJECT AREA 2 GOALS AND CHALLENGES:

- PROVIDE ROBUST FLOOD RISK MITIGATION
- PRESERVE SIGHTLINES AND CONNECTIONS TO THE WATERFRONT
- ANTICIPATE FUTURE PROGRAMMING AND USES IN STUYVESANT COVE
- STRENGTHEN NORTH-SOUTH ROUTES
- ADDRESS SAFETY AND ACCESS CONCERNS



#### **COMPLEMENTARY INITIATIVES**

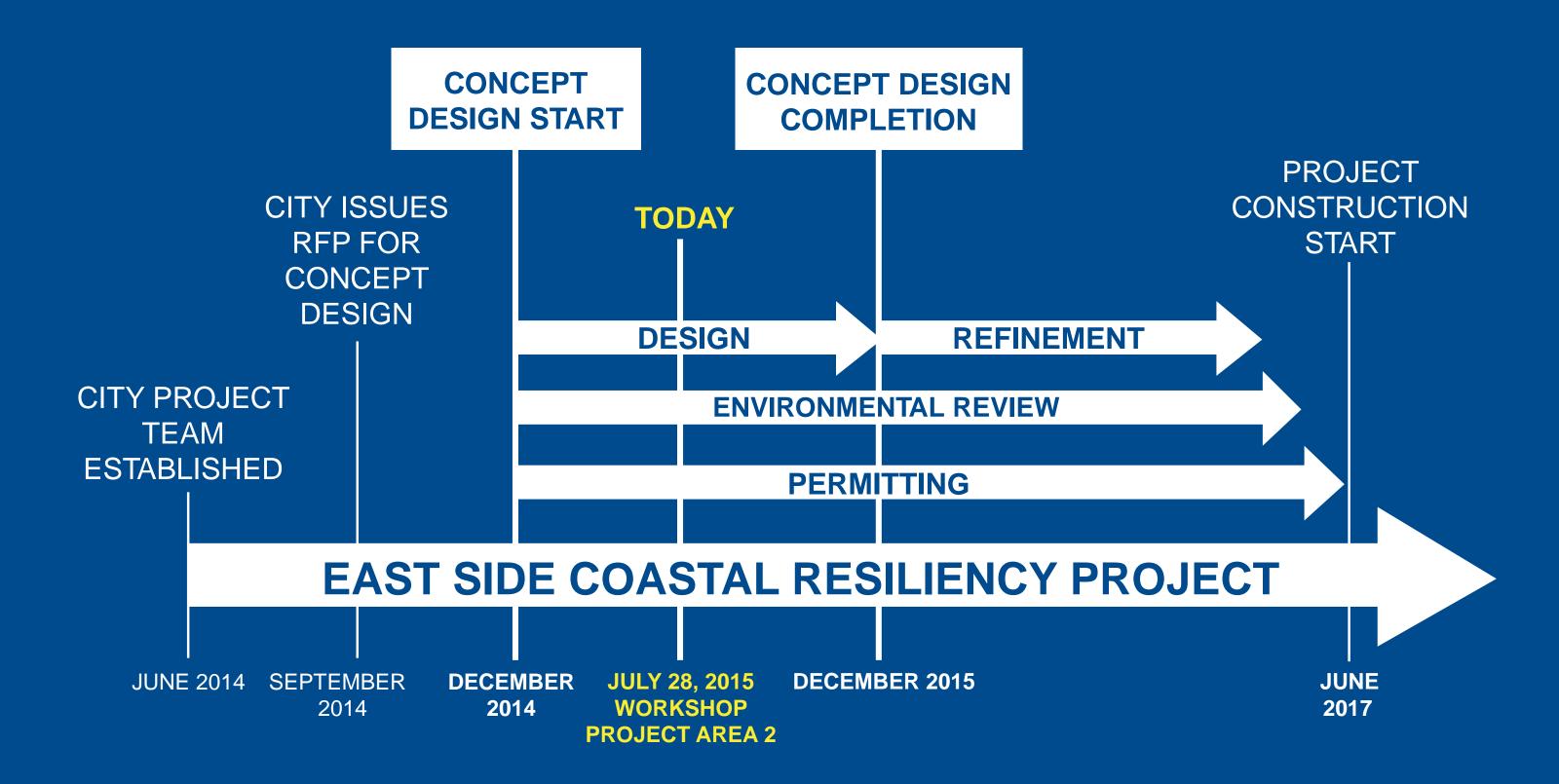
The ESCR Project will be coordinated with other initiatives in the area. City and State funds will be used to advance planning south of Montgomery St.



## PROJECT SCHEDULE

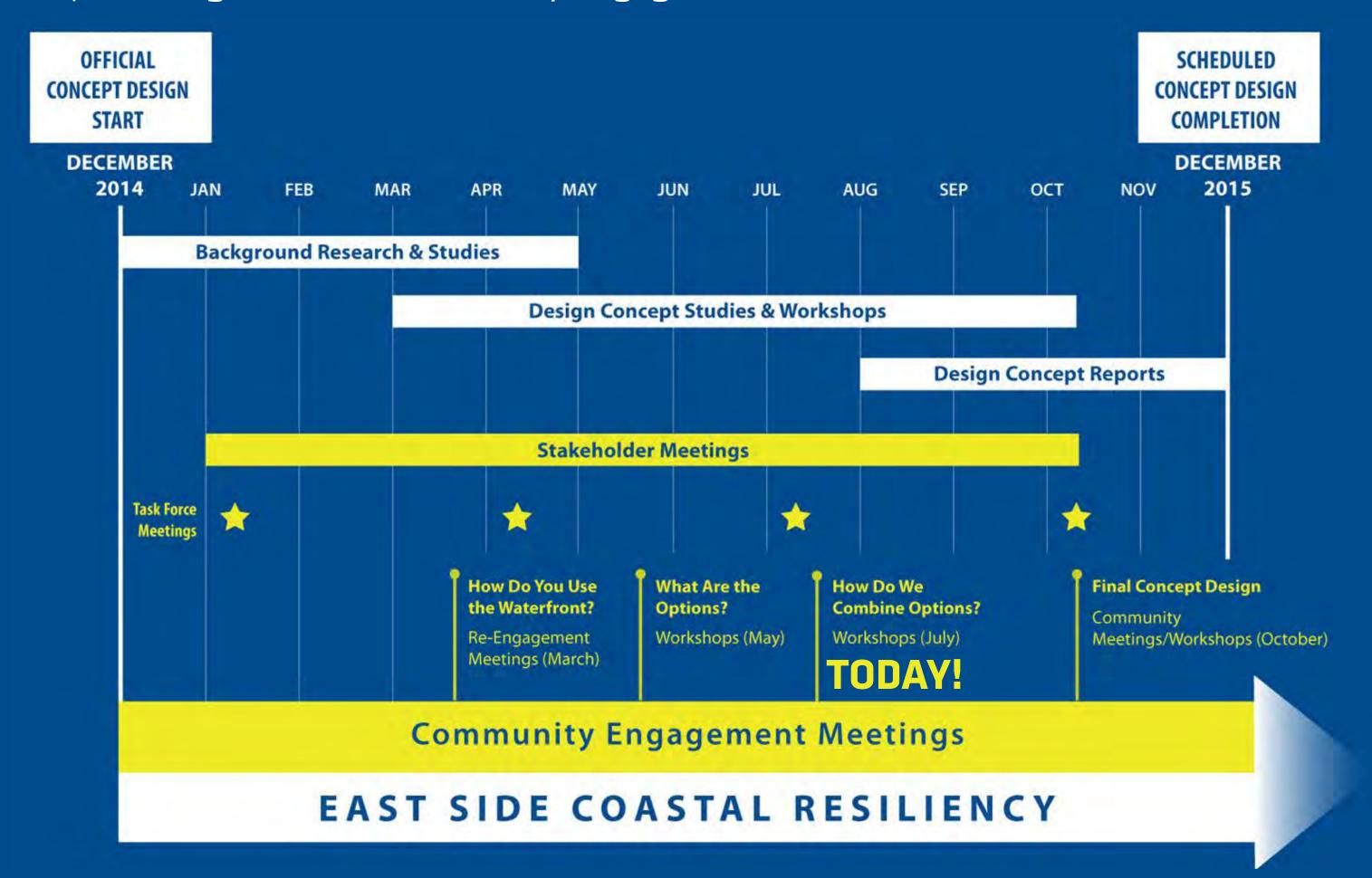
#### PROJECT TIMELINE

The ESCR Project has an ambitious timeline, now at approximately two-thirds of the way through Concept Design. Construction commencement is anticipated in mid-2017.



#### **ESCR CONCEPT DESIGN TIMELINE**

Project Design Work & Community Engagement - Where are we now?



#### **EVALUATION CRITERIA**

Each alternative will be evaluated for eight different criteria.





### PROGRESS OF TECHNICAL STUDIES

#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

**Sewer Investigations** 

95% - 100%
APRIL JULY



**Inspecting Waterfront Structures** 

60% - 100%



**Inspecting Bridges** 

**60%** - 100%

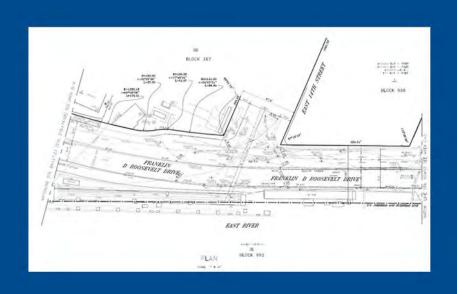
APRIL JULY



#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

**Surveying the Land** 

95% - 97% APRIL JULY



**Examining Flood Risk** and Water Flow

**50% - 70%**APRIL JULY



**Testing the Soil** 

10% - 70%

APRIL JULY



#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

Studying Pedestrian and Bicycle Usage

5% - 60%

APRIL JULY



Making an Inventory of Existing Trees

0% - 60%

APRIL JULY



# COMMUNITY FEEDBACK AND DESIGN STUDIES

#### STAKEHOLDER ENGAGEMENT

Over 200 residents attended the second round of community engagement workshops on 05/19, 05/20, and 05/28.



PROJECT AREA 1 WORKSHOP: MAY 28TH, CHURCH OF ST. BRIGID



PROJECT AREA 2 WORKSHOP: MAY 19TH, WASHINGTON IRVING HS

#### STAKEHOLDER ENGAGEMENT

In addition to the community engagement workshops and the CB3/CB6 Task Force meetings, the ESCR team is also collecting input from local CBOs and stakeholders.





### OPEN SPACE & RECREATION, TRANSPORTATION

CB3 & CB6
Hester St Collaborative
Lower East Side Ecology Centre
OLS Sparkle Little League
Partnerships for Parks
Solar One
Transportation Alternatives

#### **NYCHA TENANT ASSOCIATIONS**

Baruch
Campos Plaza
Riis
Rutgers
Smith
Vladeck
Wald

## PROJECT AREA TWO DESIGN ANALYSIS AND STUDIES

#### **SEGMENT A - CON-ED NARROWS**



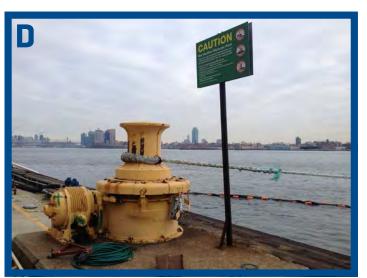
#### **SEGMENT A - CON-ED NARROWS**

#### **EXISTING CONDITIONS**







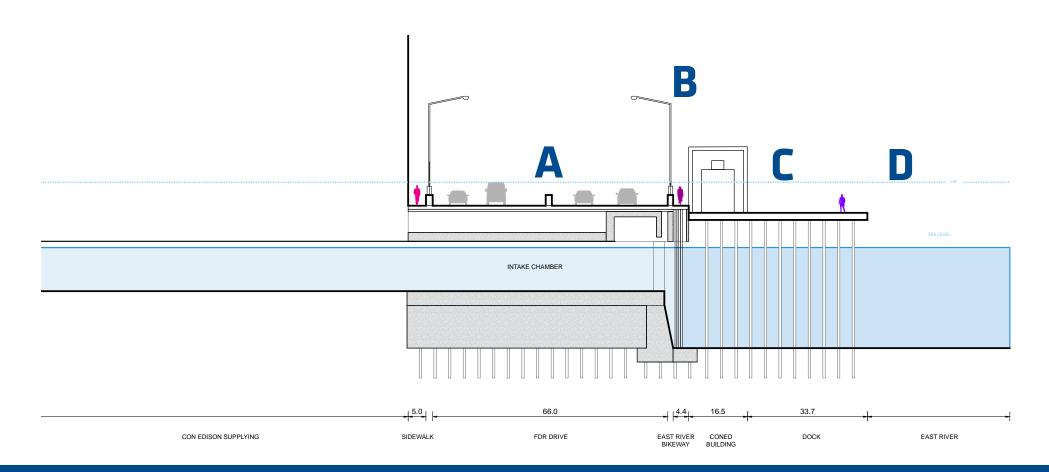


**FDR** 

30" NARROWS ALONG
CON-ED HEAD HOUSE

**CON-ED RECEIVING PIER** 

**VIEWS ACROSS EAST RIVER** 



#### **SEGMENT B - CAPT. PATRICK J. BROWN WALKWAY**



## **SEGMENT B - CAPT. PATRICK J. BROWN WALKWAY** EXISTING CONDITIONS



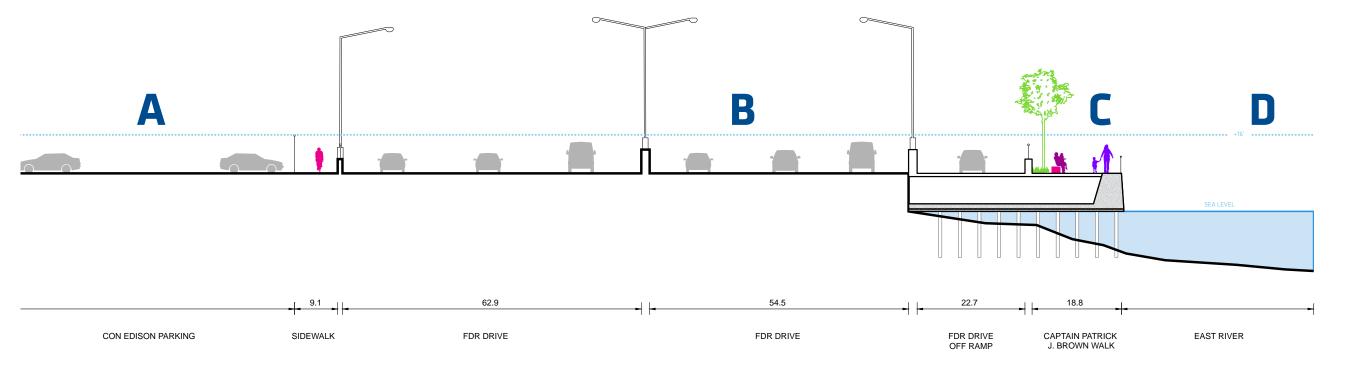






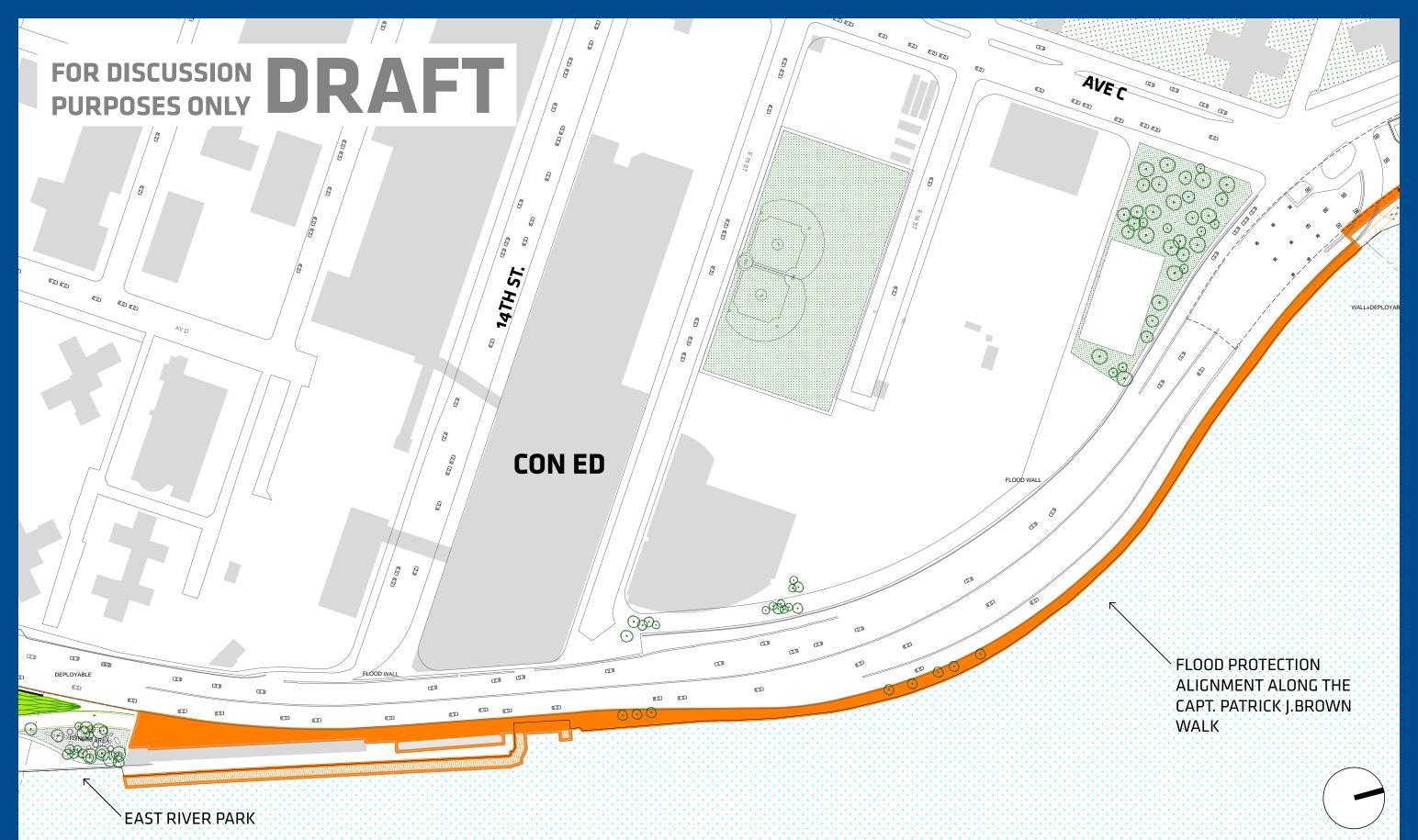
CON-ED PARKING FDR DRIVE CAPT. PATRICK J BROWN WALK DISTANT VIEWS TO U.N.

LOT AND EAST RIVER



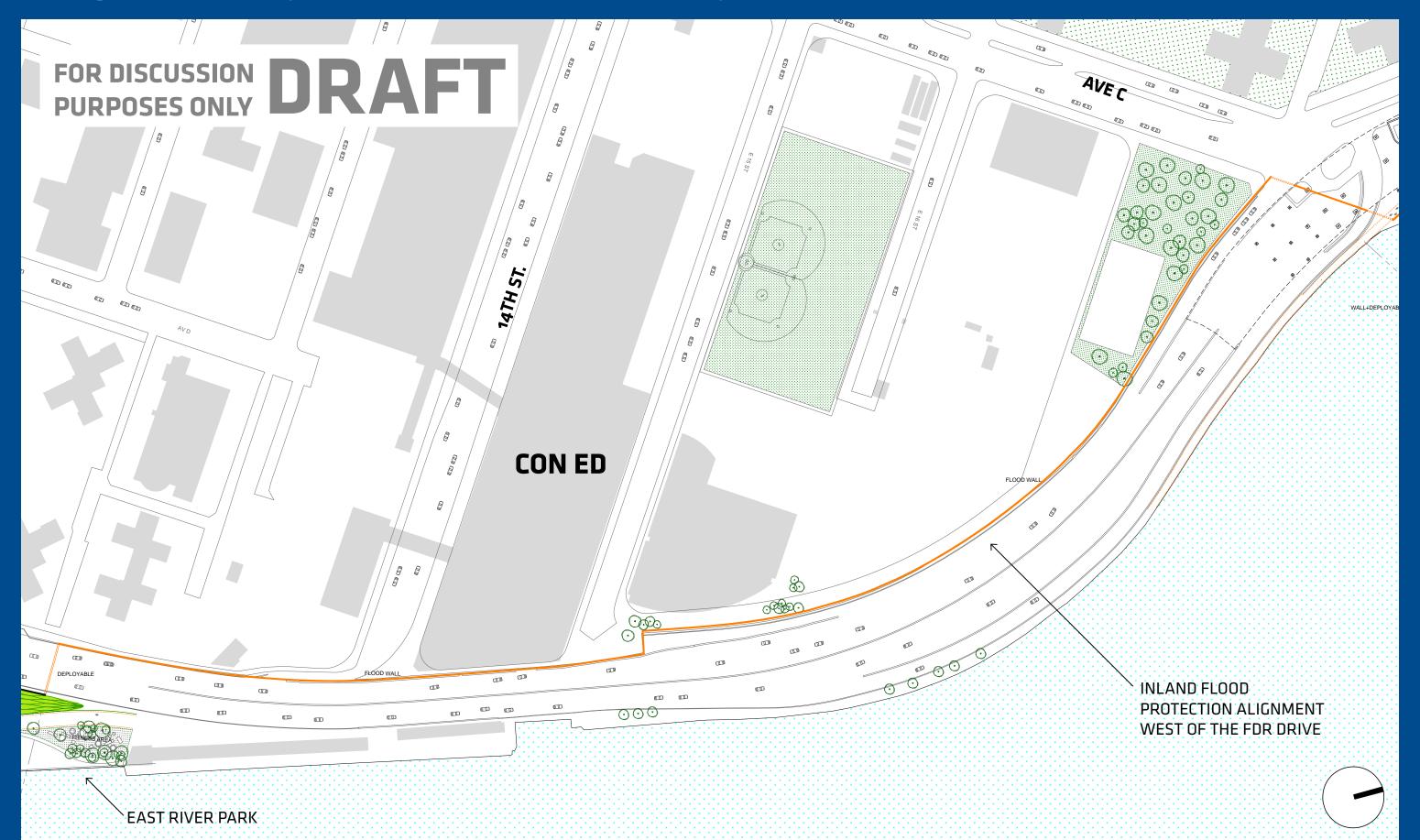
#### **SEGMENTS A+B - ALIGNMENT STUDY**

After much investigation, sub-surface constraints have presented a number of technical and cost constraints to an alignment along the Capt. Patrick J. Brown Walk.



#### **SEGMENTS A+B - ALTERNATIVE ALIGNMENT**

As a result, an alternative alignment for this area has been identified inland - and is being studied in parallel with waterfront improvements to the North-South bikeway.



#### **SEGMENT E - 23RD STREET TIE-BACK**



#### **SEGMENT E - 23RD STREET TIE-BACK**

#### **EXISTING CONDITIONS**



B



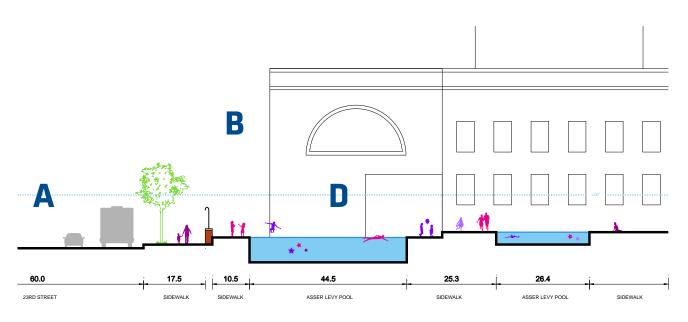


23RD STREET LOOKING WEST

HISTORIC ASSER-LEVY PUBLIC BATHHOUSE

ASSER-LEVY PARK FROM ACROSS 23RD STREET

**ASSER LEVY POOL, SUMMER** 



**Section - Asser Levy Pool** 

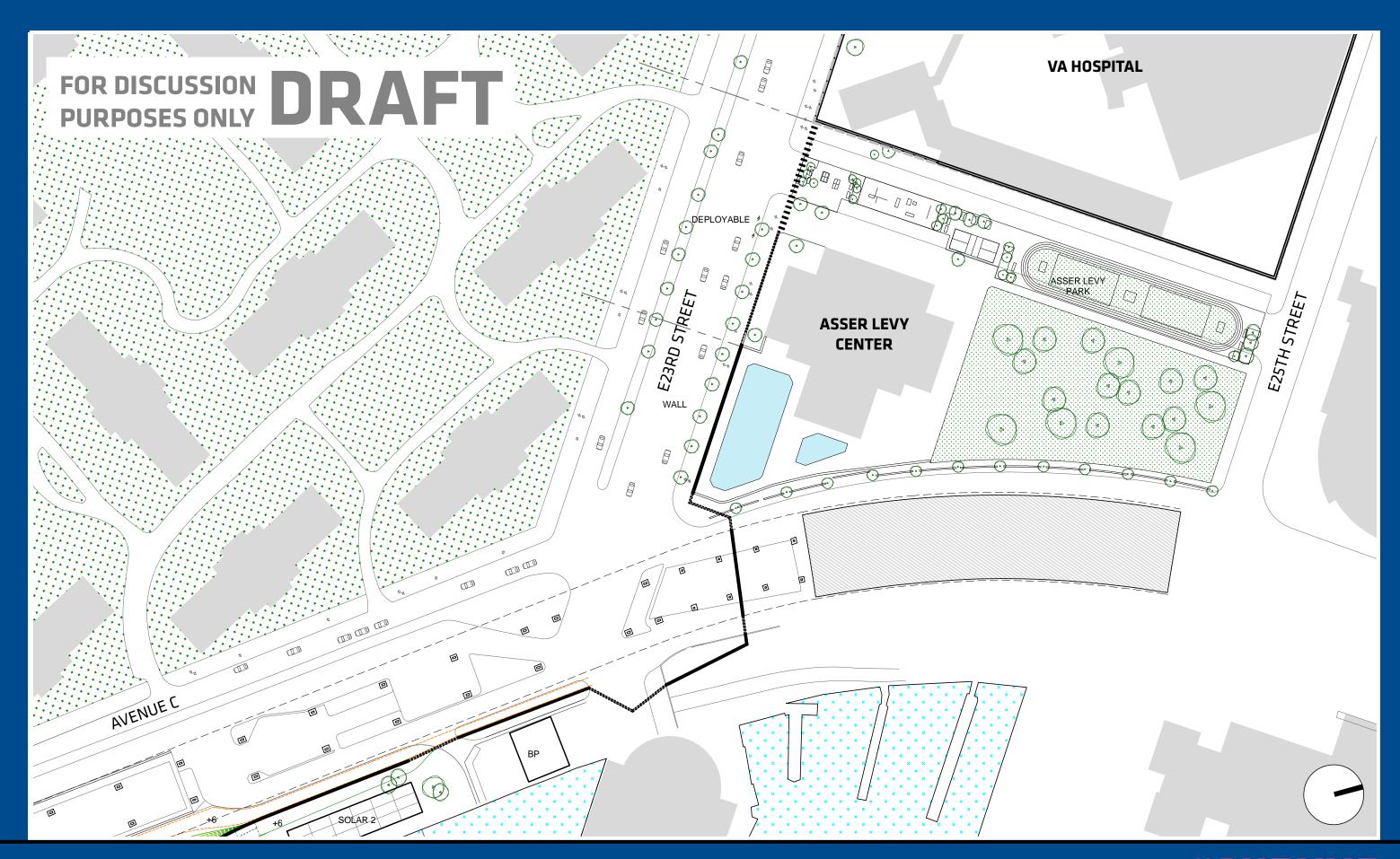


**Section - Asser Levy Park** 

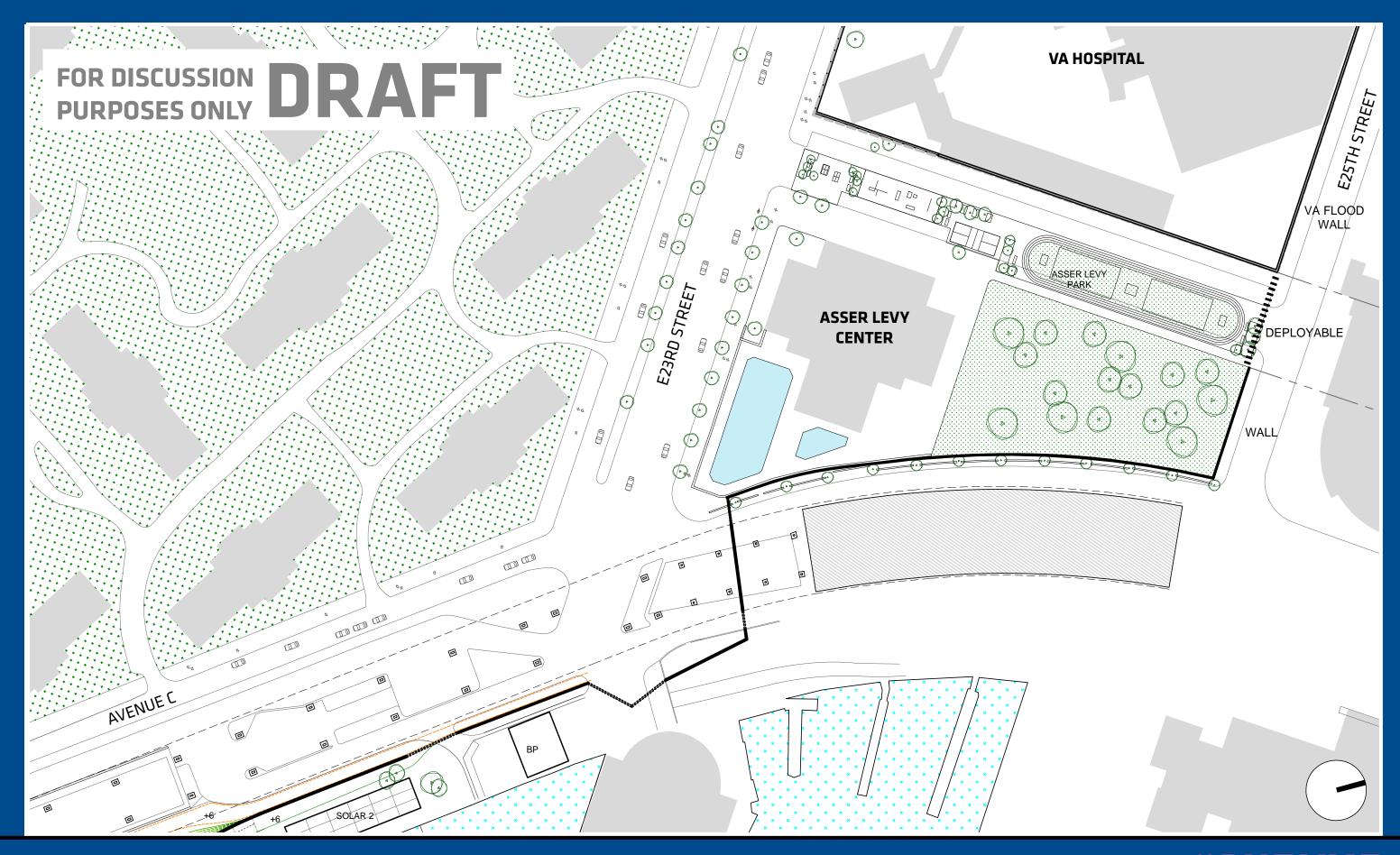


#### **SEGMENT E - 23RD STREET TIE-BACK**

DESIGN STUDY



## **SEGMENT E - ALTERNATIVE UNDER STUDY**25TH STREET



#### **SEGMENTS C+D - STUYVESANT COVE PARK AND FDR VIADUCT**



# **SEGMENTS C+D - STUYVESANT COVE PARK AND FDR VIADUCT**

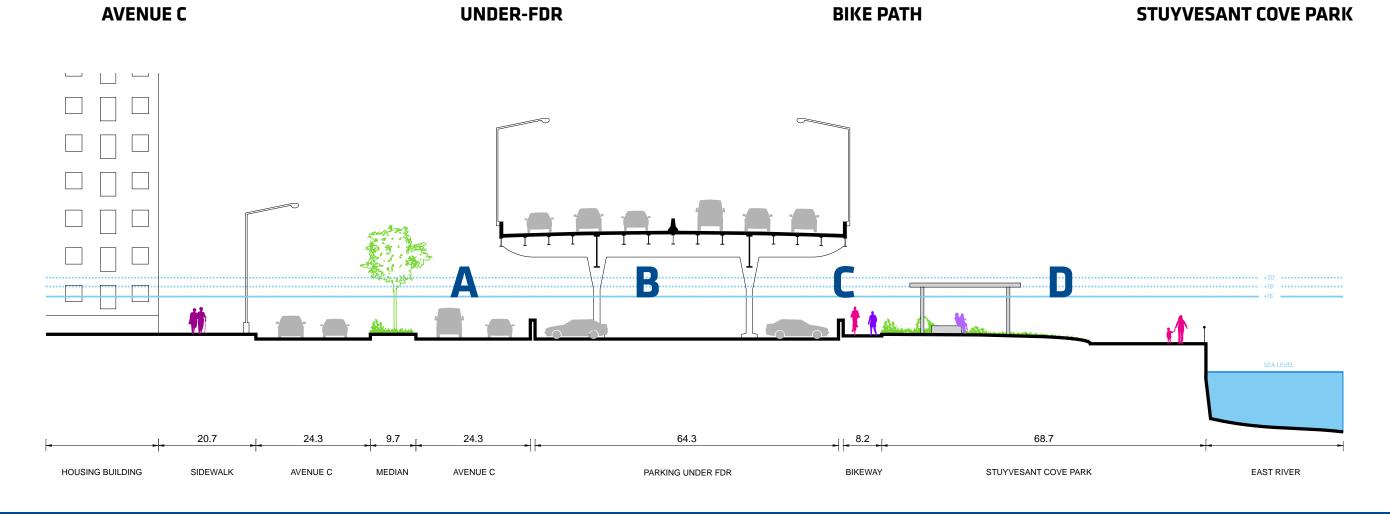
#### **EXISTING CONDITIONS**











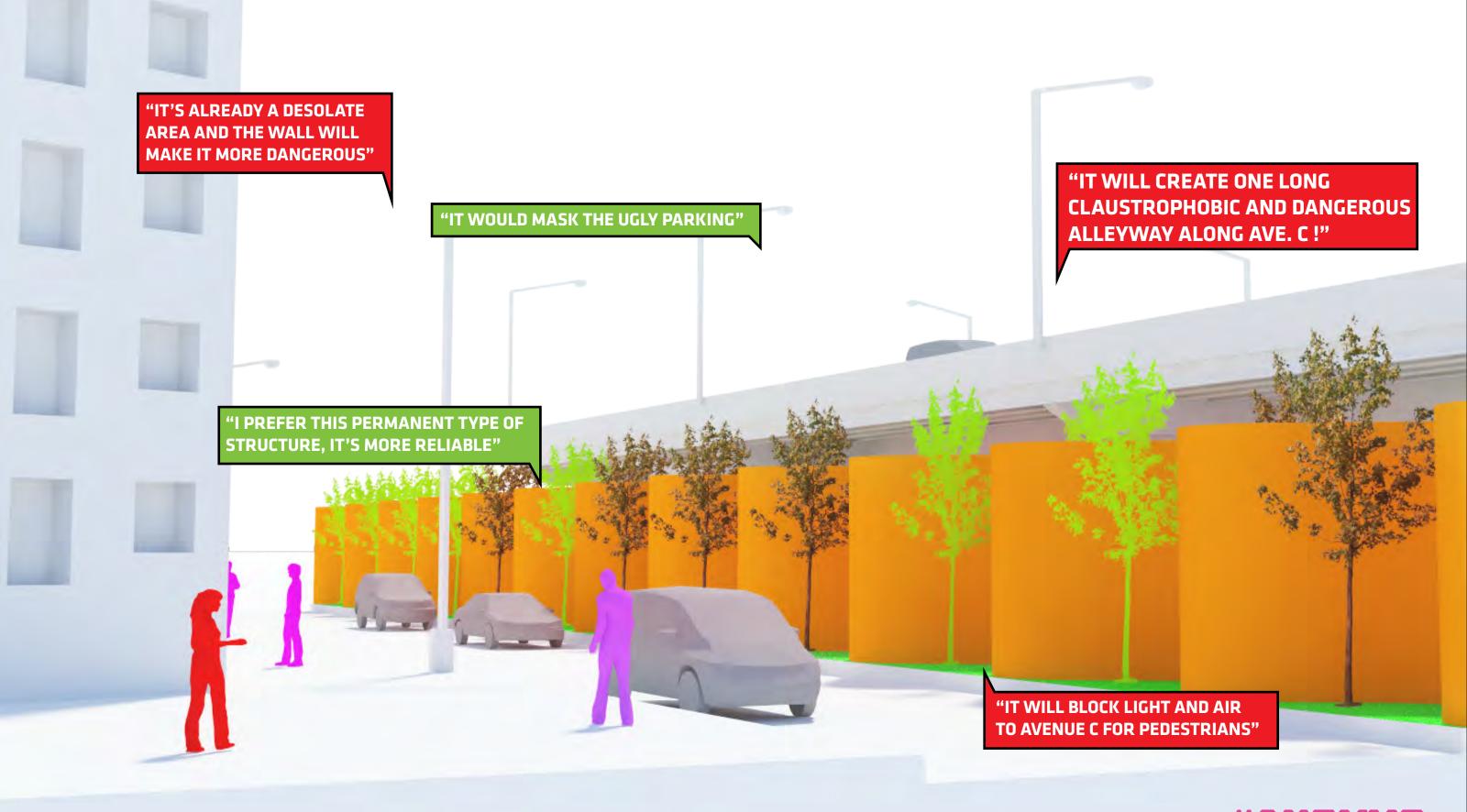
# STUYVESANT COVE ALIGNMENT COMMUNITY ENGAGEMENT FINDINGS

# **STUYVESANT COVE ALIGNMENT**

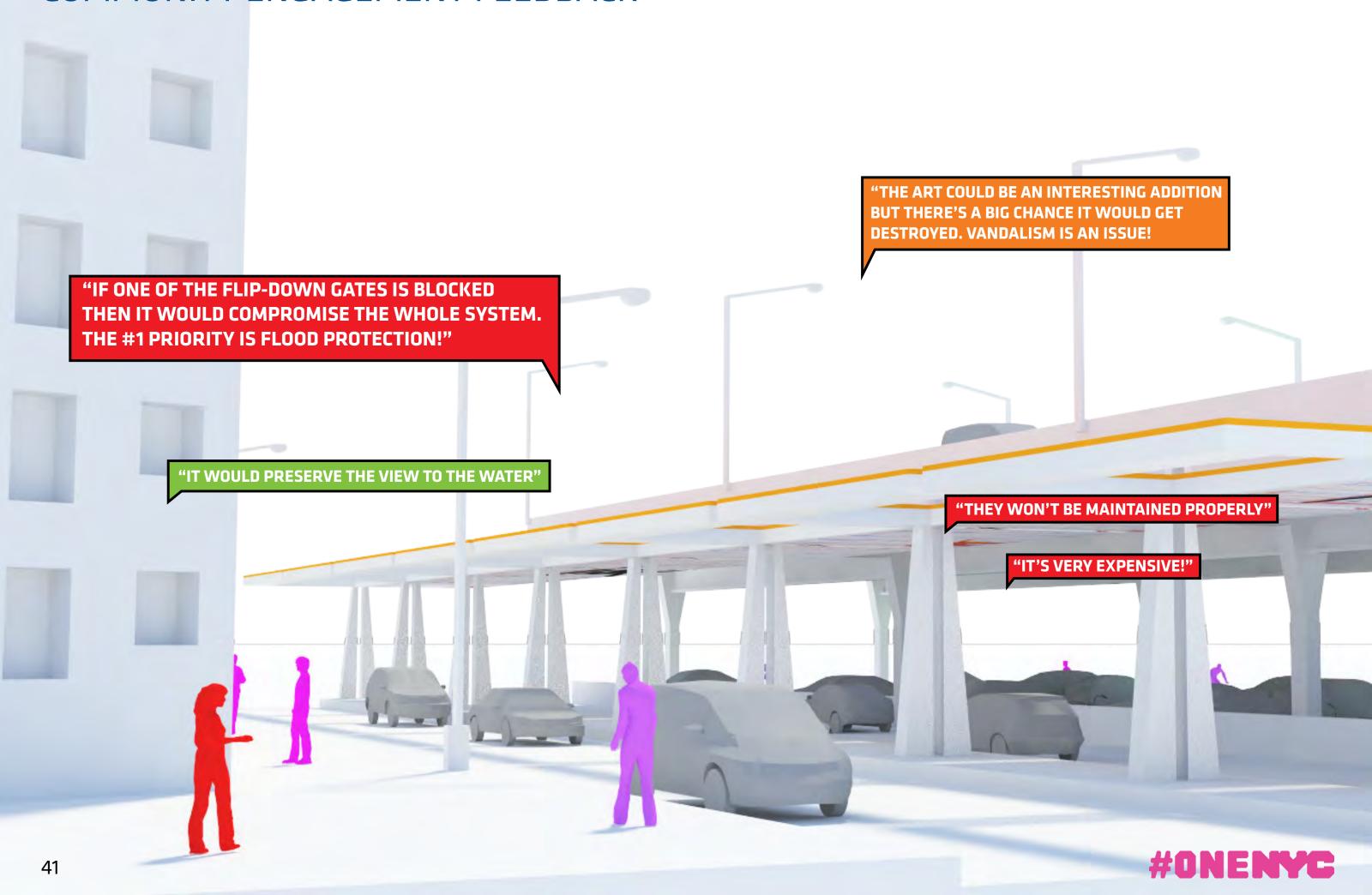
The ESCR team gathered feedback about the pros and cons of each flood protection type for Stuyvesant Cove during the community engagement workshop on 05/19.



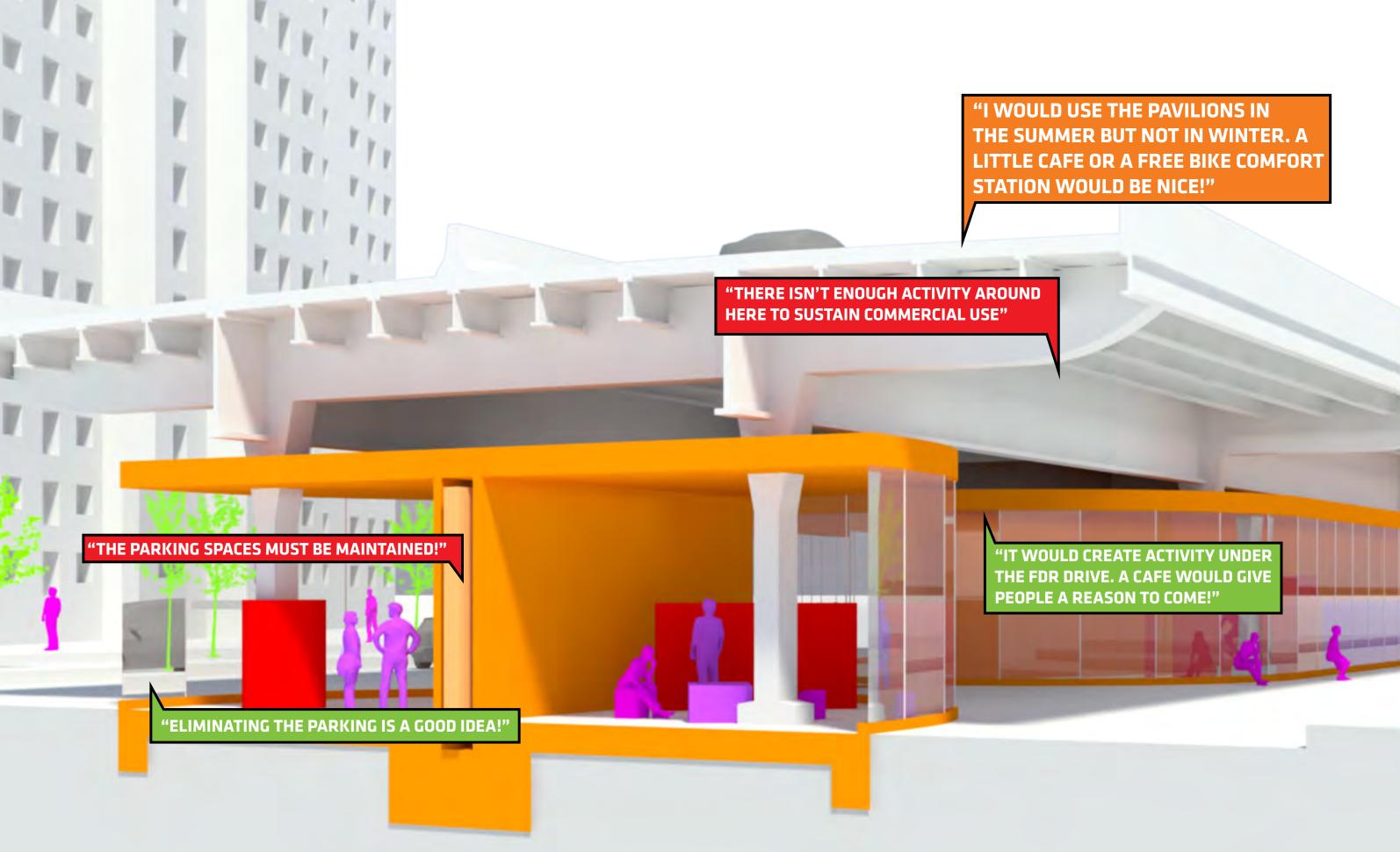
## STUYVESANT COVE ALIGNMENT - WIGGLE WALL



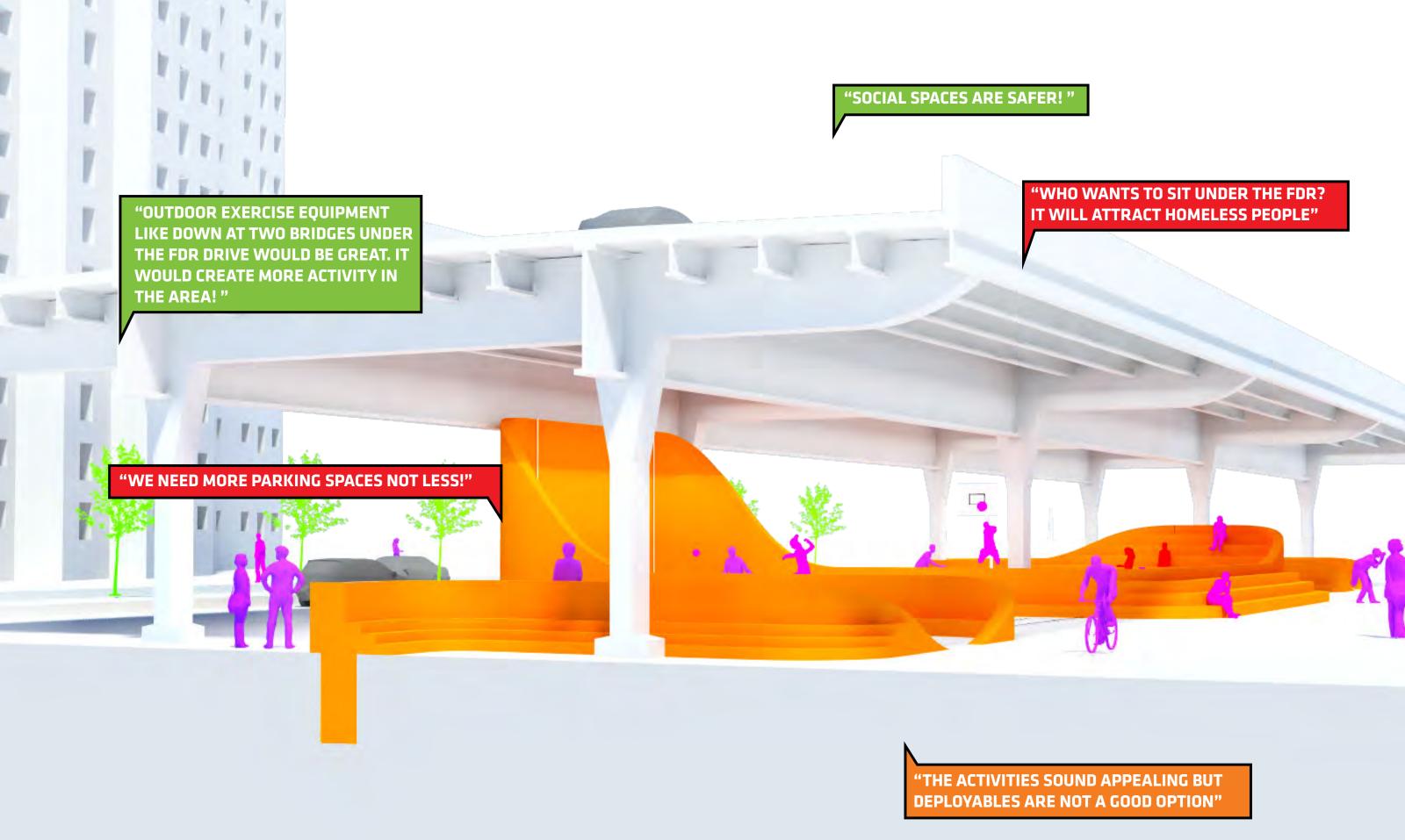
#### **STUYVESANT COVE ALIGNMENT - FLIP-DOWN CANOPY**



# **STUYVESANT COVE ALIGNMENT - PROTECTIVE PAVILIONS**



# STUYVESANT COVE ALIGNMENT - BIG BENCH

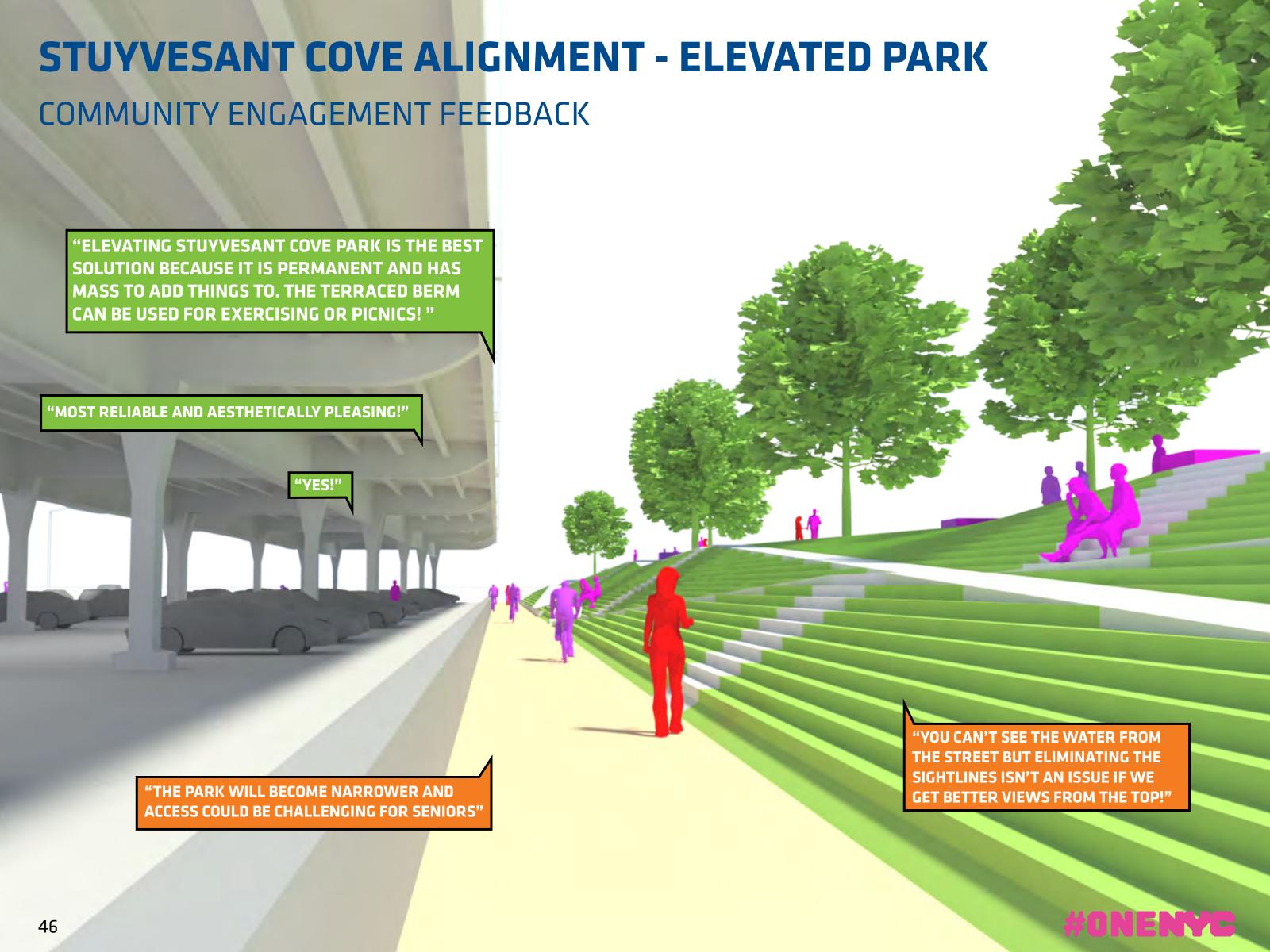


# **STUYVESANT COVE ALIGNMENT - FLIP-DOWN**



# **STUYVESANT COVE ALIGNMENT - FLIP-DOWN CANOPY**





## **STUYVESANT COVE: PRINCIPLES**

- -Minimize use of deployables.
- -Maximize passive, reliable measures.
- -Maintain at-grade crossing at key junctures.
- -Ensure safety and security adjacent to and under the FDR viaduct.
- -Support future developments such as the 20th St. ferry landing and Solar Two.

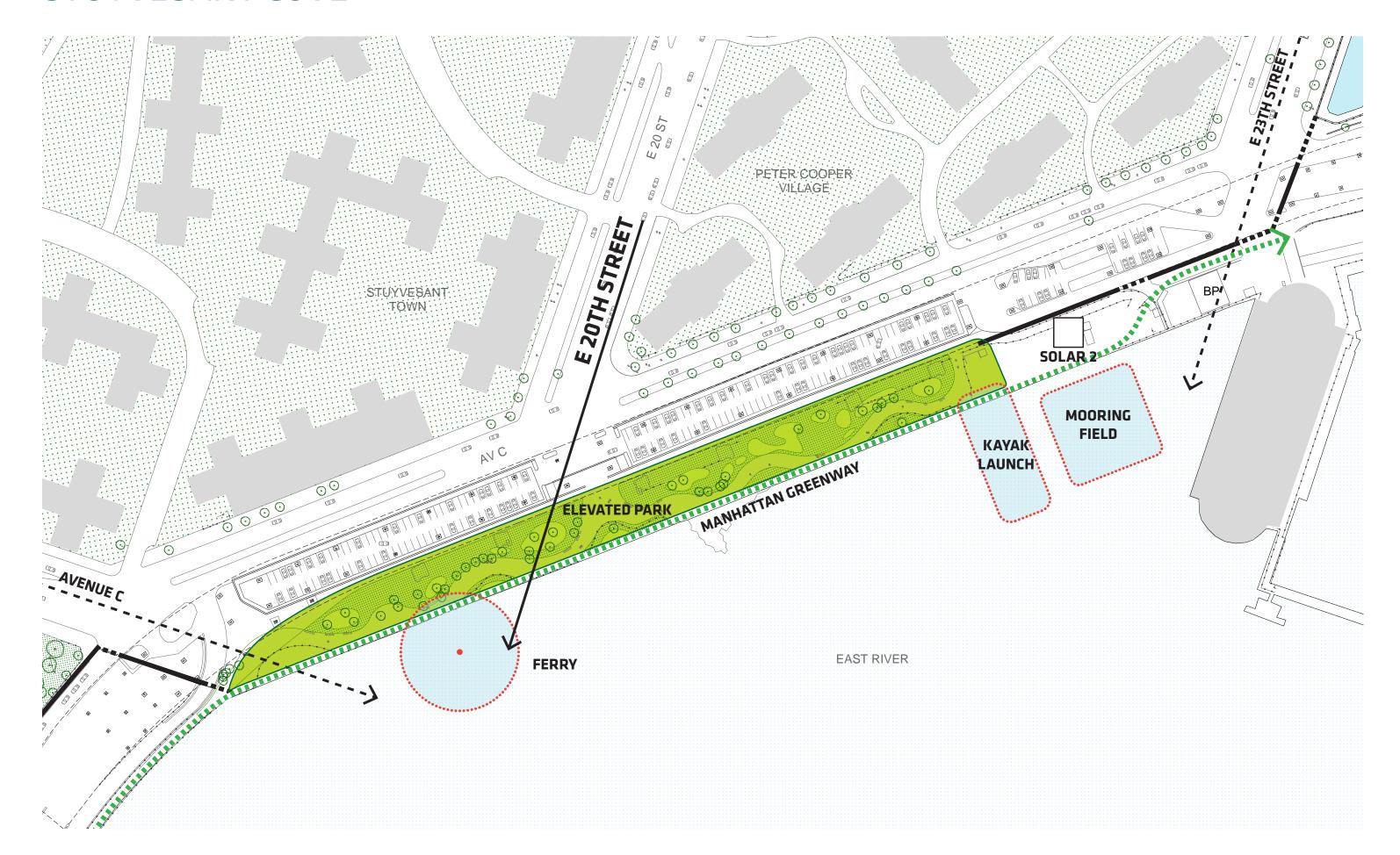
# **STUYVESANT COVE - TODAY**

#### **EXISTING CONDITIONS**

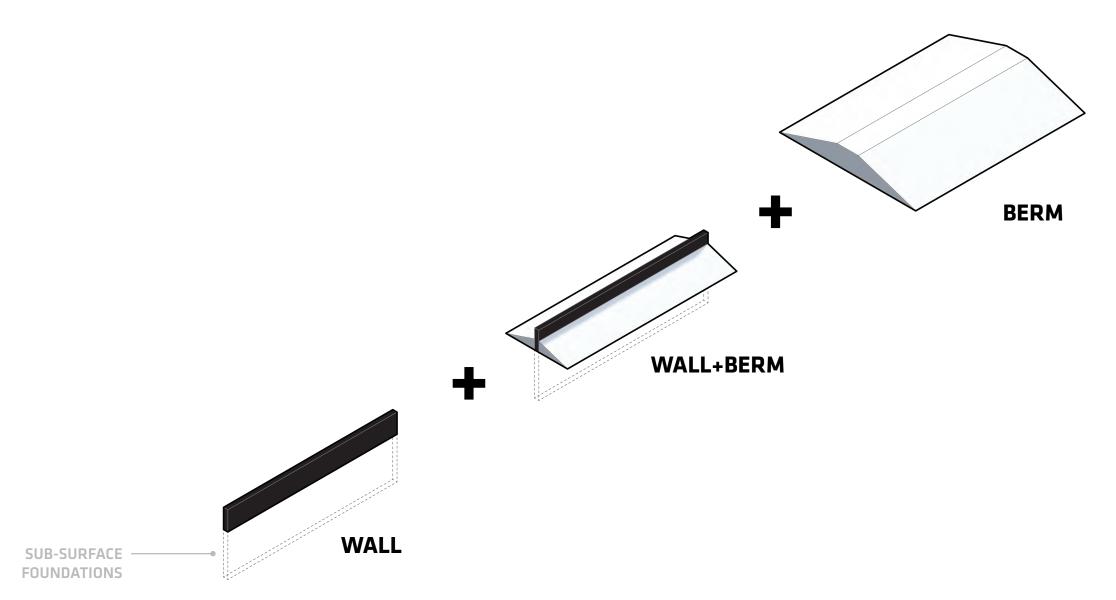


# FLOOD PROTECTION AND FUTURE DEVELOPMENTS

**STUYVESANT COVE** 



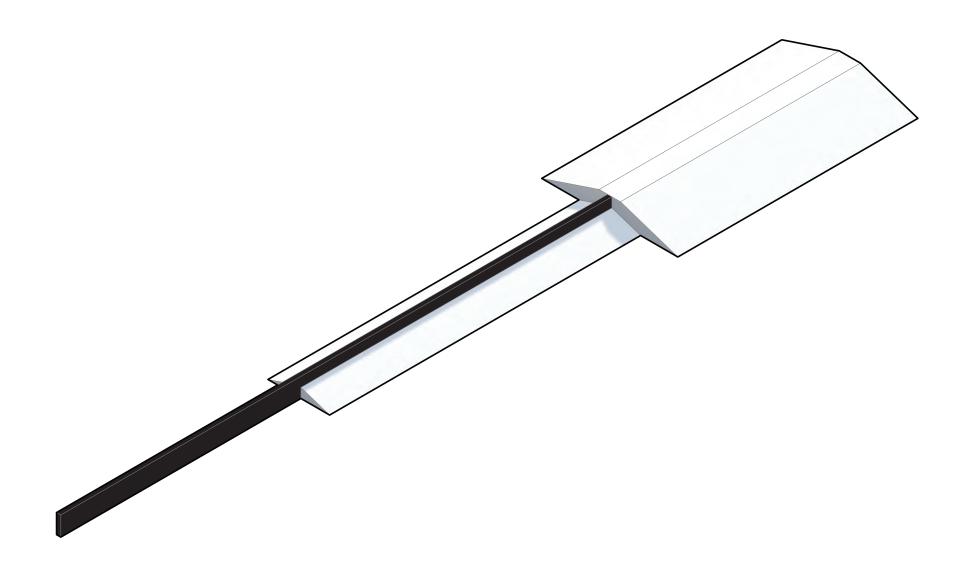
# **ELEVATED PARK ELEMENTS**



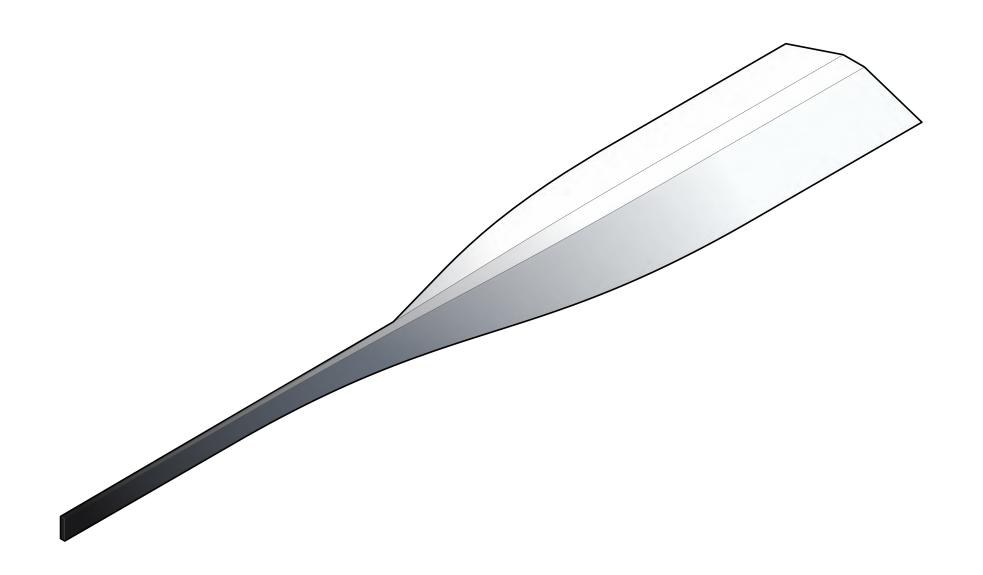
#### **FLOOD PROTECTION ELEMENTS**

THREE DIFFERENT ELEMENTS FORM THE TOOLKIT OF FLOOD PROTECTION,
BASED ON PASSIVE SPACE AVAILABLE



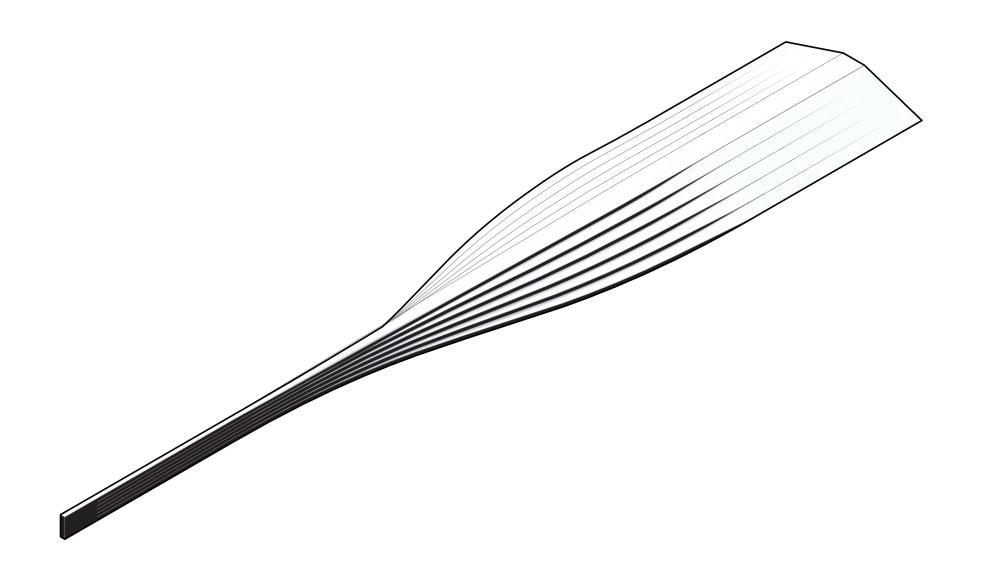


## **CONNECTING THE ELEMENTS**



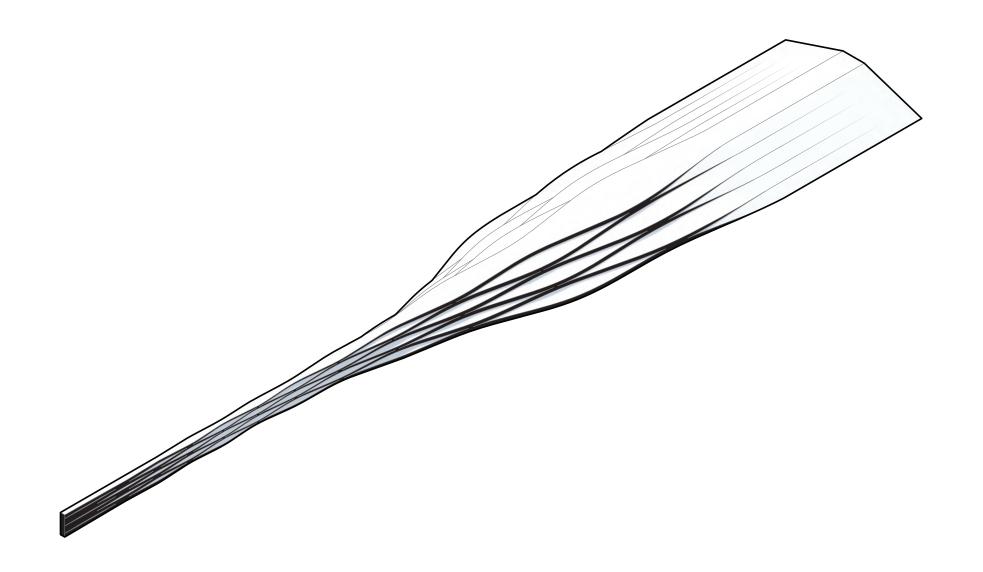
#### **SOFTENING TRANSITIONS**

SMOOTHING BETWEEN ELEMENTS



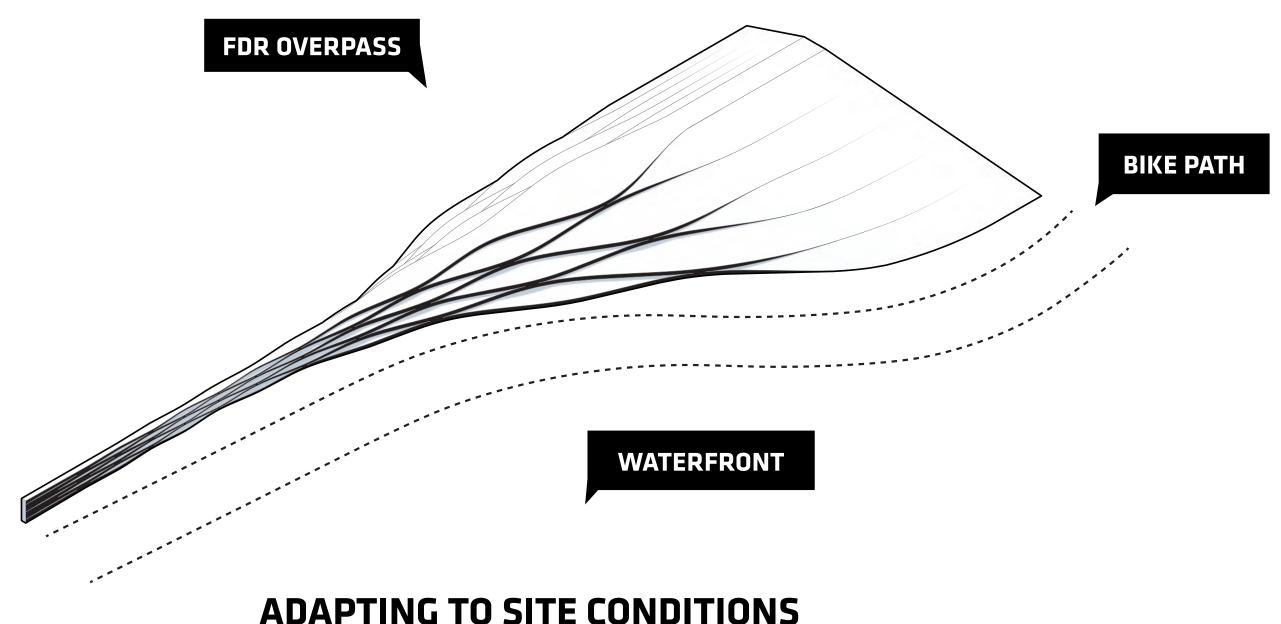
#### **TERRACING**

TERRACES STABILIZE THE TERRAIN WHEN SLOPES ARE GREATER THAN 3:1

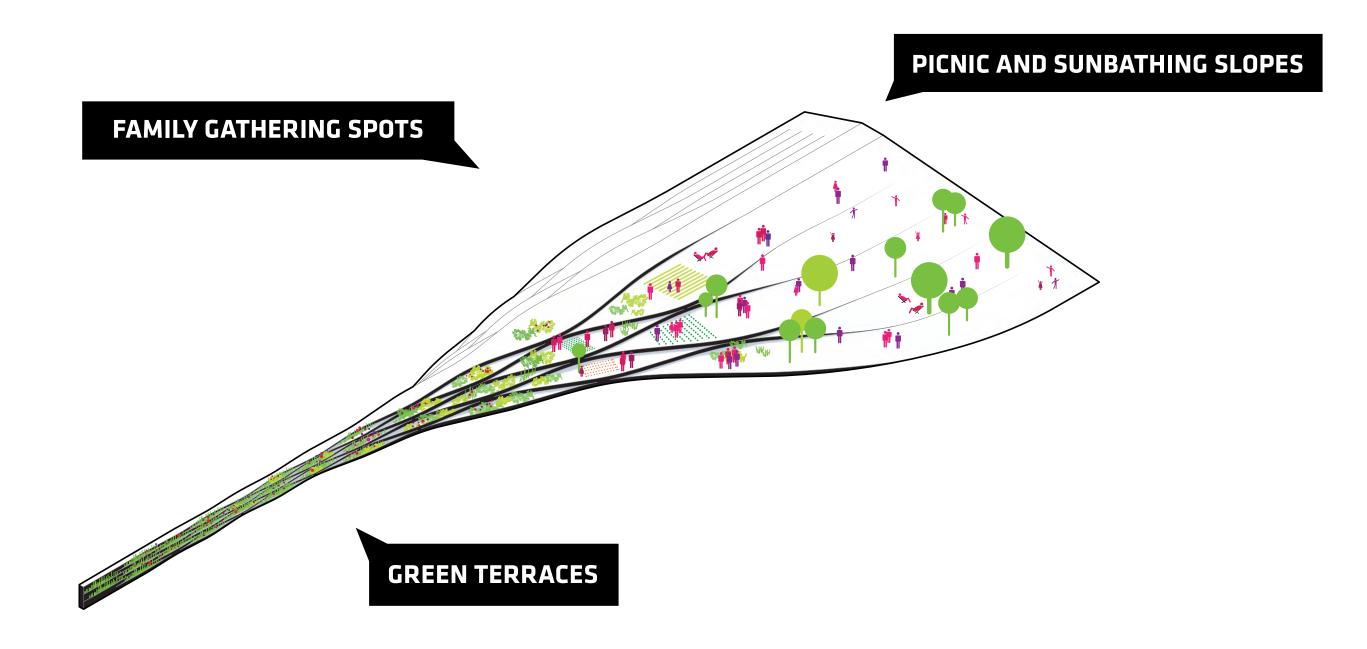


#### **WEAVING**

WEAVING CREATES POCKETS AND TERRACES FOR PLANTINGS AND ACTIVITIES



**ADAPTING TO SITE CONDITIONS** 



#### **SUPPORTING PARK DIVERSITY**

DIFFERENTIATED TERRACES AND SLOPES PROVIDE FOR A DIVERSE AND VIBRANT PARK EXPERIENCE



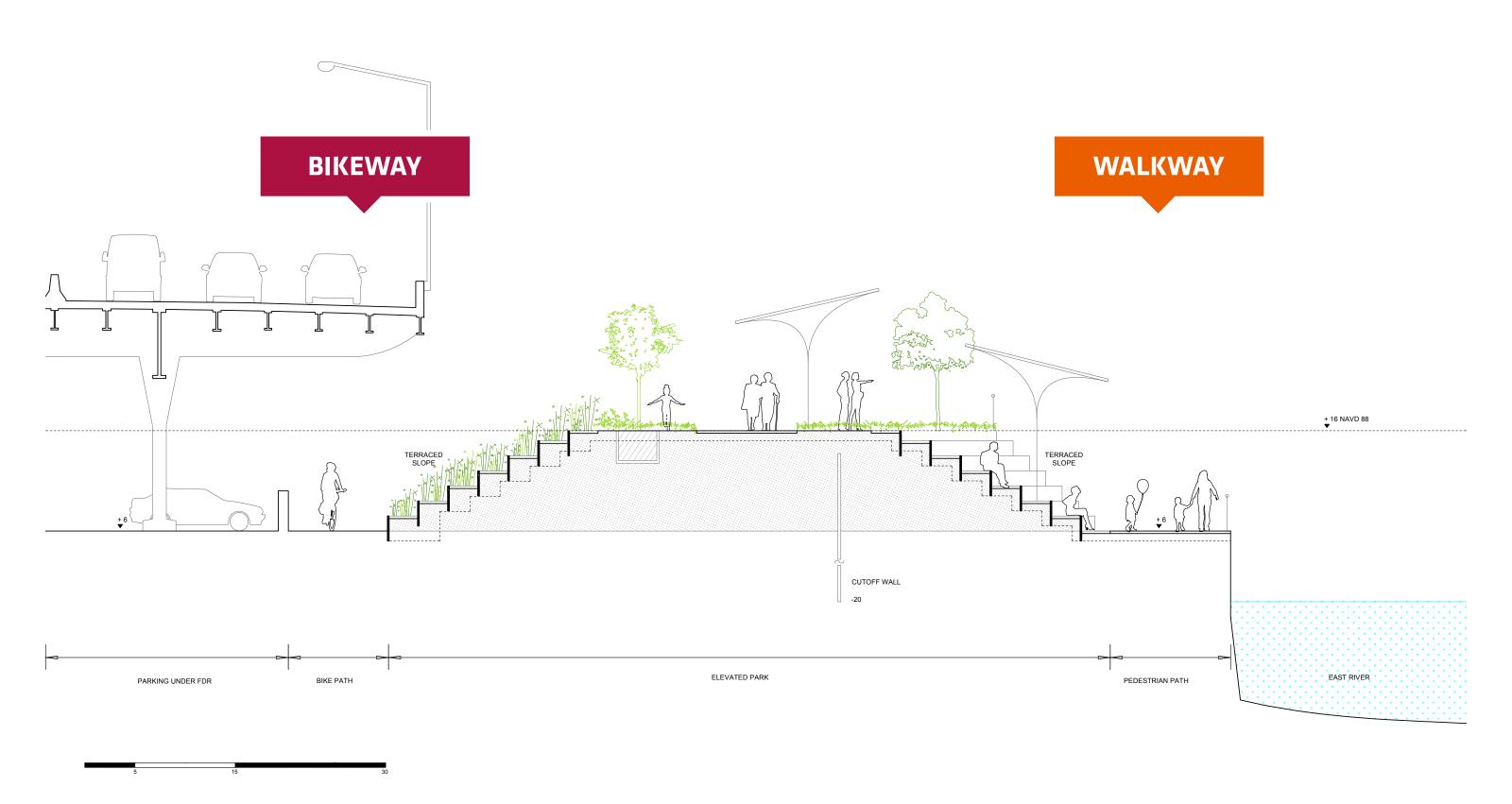
# **STUYVESANT COVE PARK - CROSS-SECTION**

#### **EXISTING CONDITIONS**



# **PRELIMINARY CROSS-SECTION - ALTERNATIVE 1**

#### SPLIT BIKEWAY AND FOOT-PATH

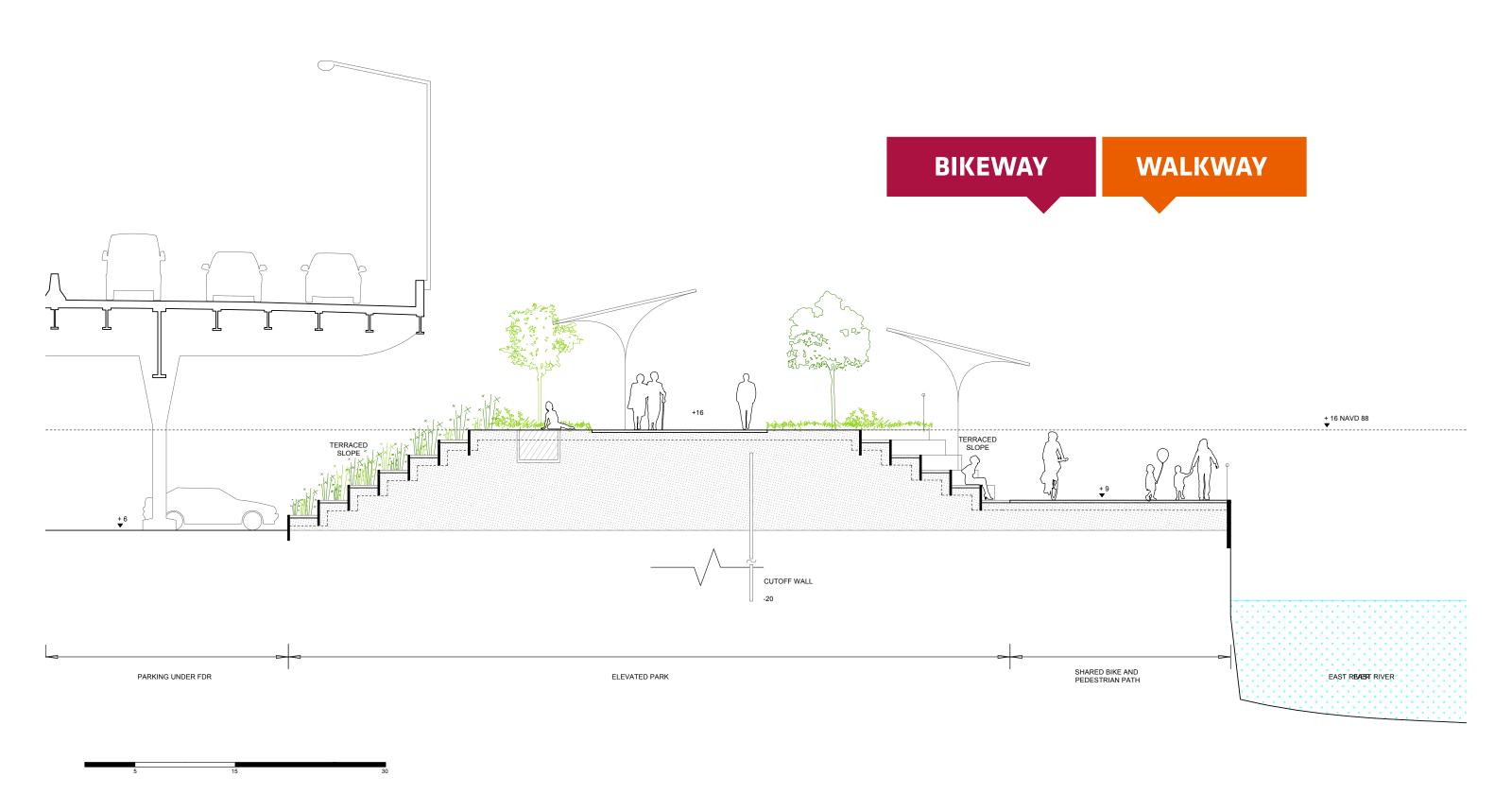






#### PRELIMINARY CROSS-SECTION - ALTERNATIVE 2

WATERSIDE BIKEWAY AND FOOT-PATH, PARTIALLY ELEVATED

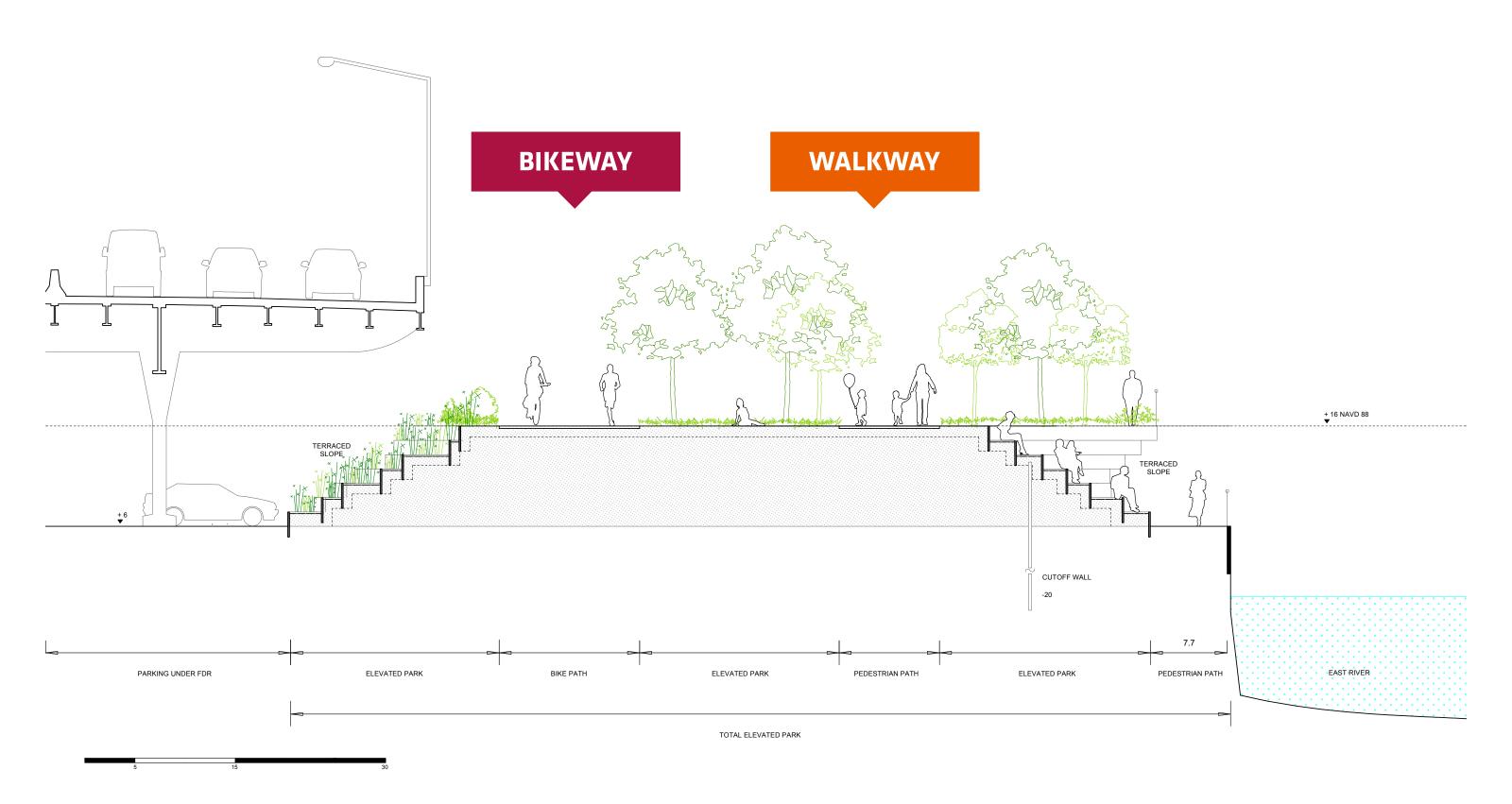






# PRELIMINARY CROSS-SECTION - ALTERNATIVE 3

#### FULLY ELEVATED PARK AND PATH







# STUYVESANT COVE ALIGNMENT - E20TH ST CONNECTION

#### COMMUNITY ENGAGEMENT FEEDBACK

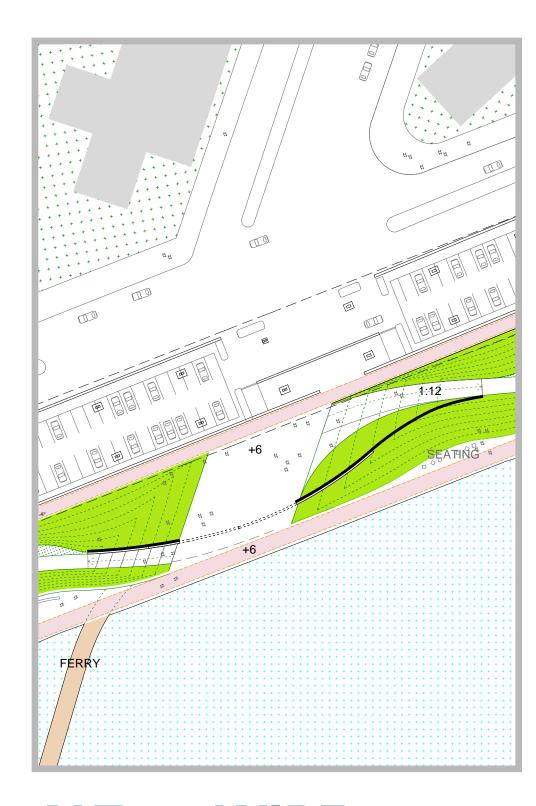
#### At which intersection do you feel most comfortable crossing...

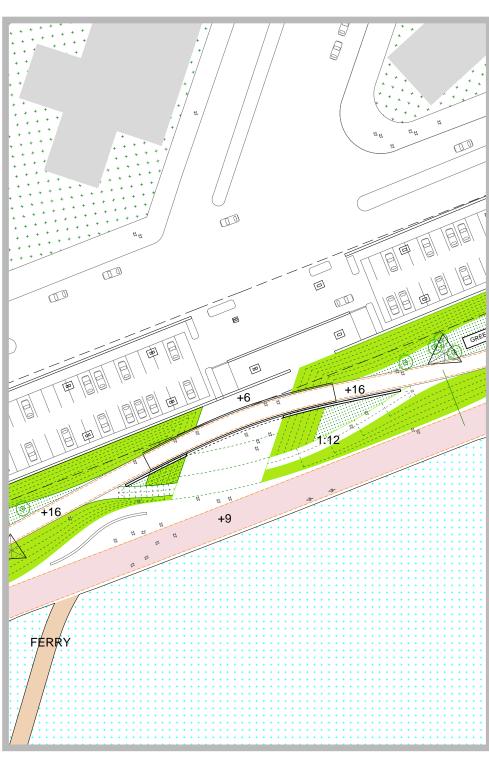
	E23rd St	1	Ave. C & FDR
on foot?		11/17	
on a bike?			2/3
with children?		3/5	
with/as a senior?		4/6	
with a wheelchair?		4/4	
Small sample size: Total number of participants: 17 out of 4	9 workshop	attendees	

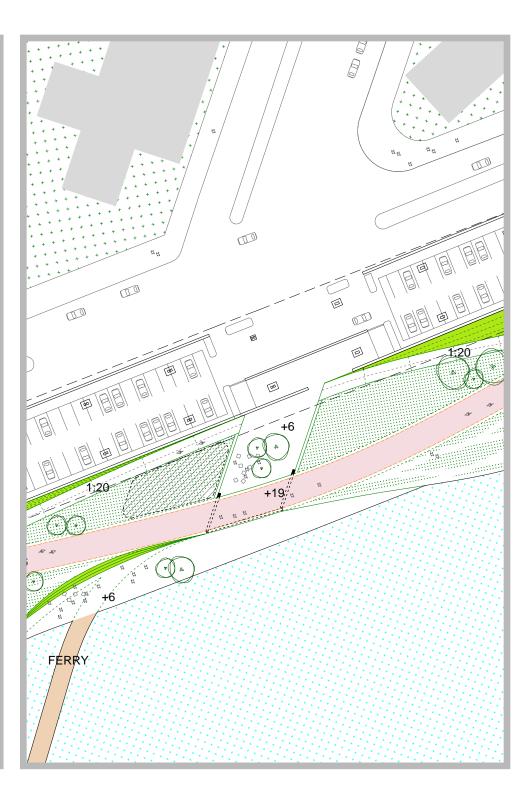


# STUYVESANT COVE ALIGNMENT - E20TH ST CONNECTION

#### THREE ALTERNATIVES







**ALT 1. - WIDE** 

**ALT. 2 - MEDIUM** 

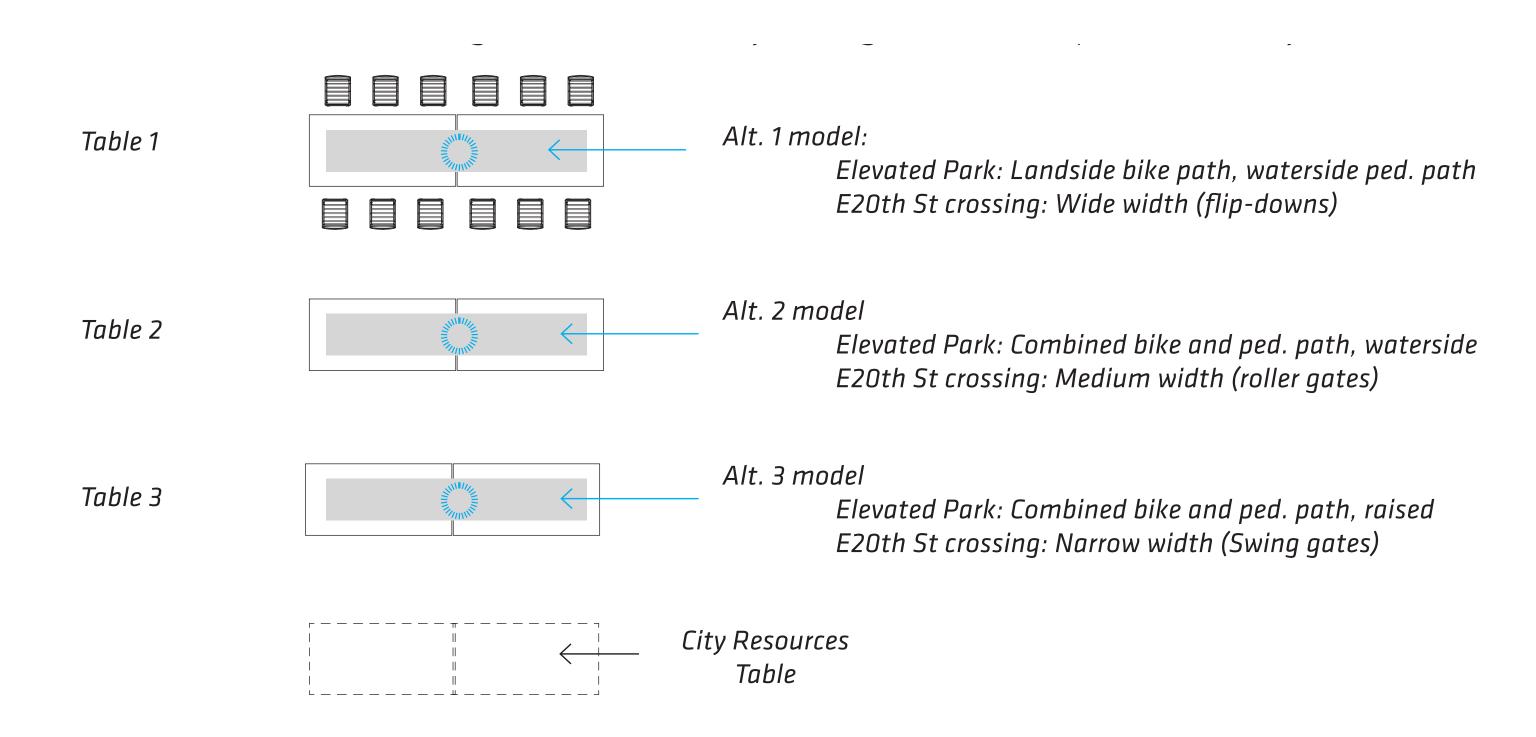
**ALT. 3 - NARROW** 

FOR DISCUSSION DRAFT
PURPOSES ONLY



#### **TONIGHT'S ACTIVITY**

#### Table Set-Up



#### TONIGHT WE WILL BE DISCUSSING THE OPTIONS FOR STUYVESANT COVE PARK

# **NEXT STEPS**

## **NEXT STEPS**

STAKEHOLDER ENGAGEMENT

UPCOMING COMMUNITY ENGAGEMENT WORK-SHOPS WILL BE HELD FOR **PROJECT AREA 1**:

> JULY 29TH FROM 6:30-8:30PM AT CHURCH OF ST. BRIGID 119 AVENUE B

> JULY 30TH FROM 6:30-8:30PM AT MANNY CANTOR CENTER 197 EAST BROADWAY





# REPORT BACK