

REBUILD BY DESIGN  
**HUDSON RIVER**

JERSEY CITY HOBOKEN WEEHAWKEN | NEW JERSEY



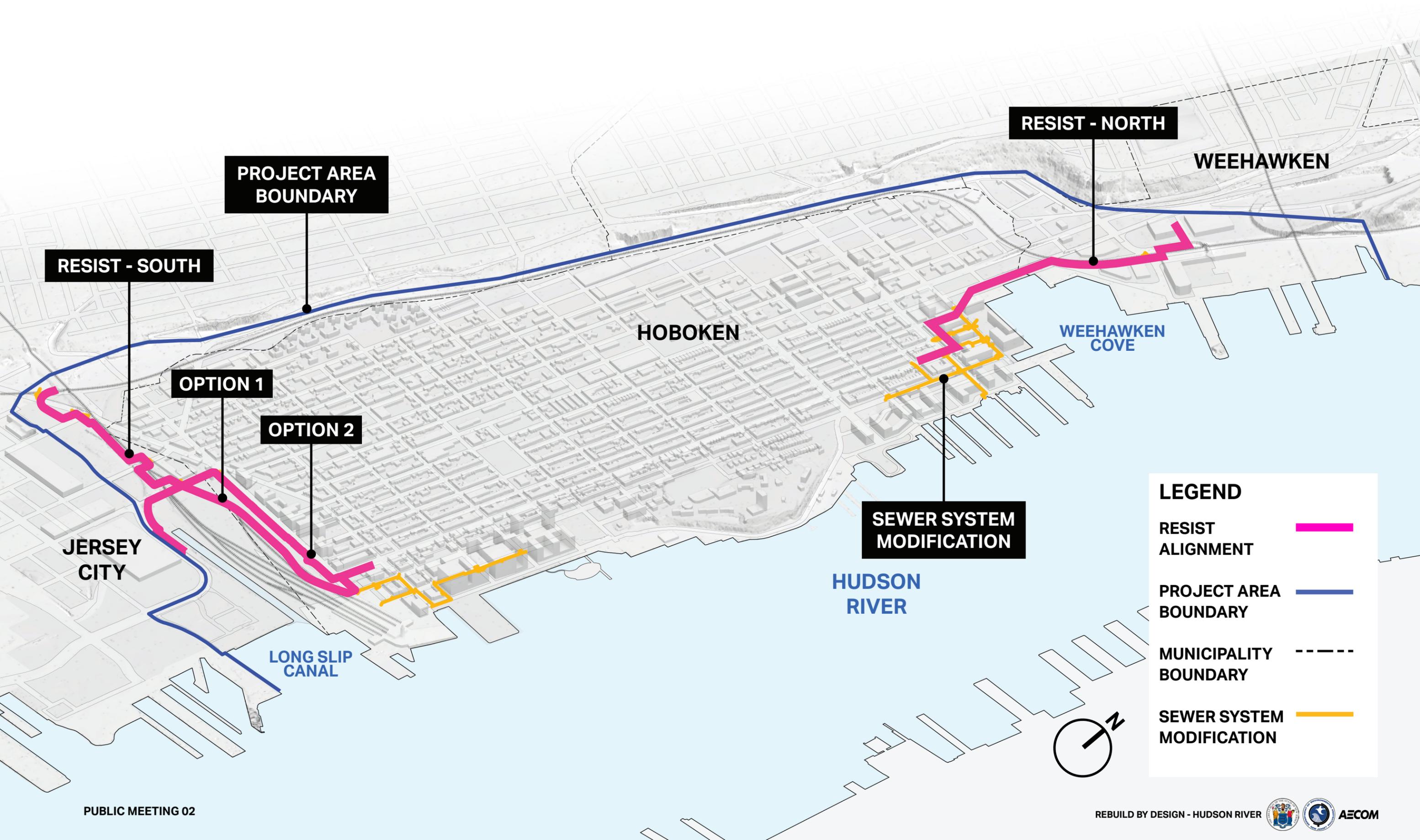
**PUBLIC MEETING**

OCTOBER 25, 2018

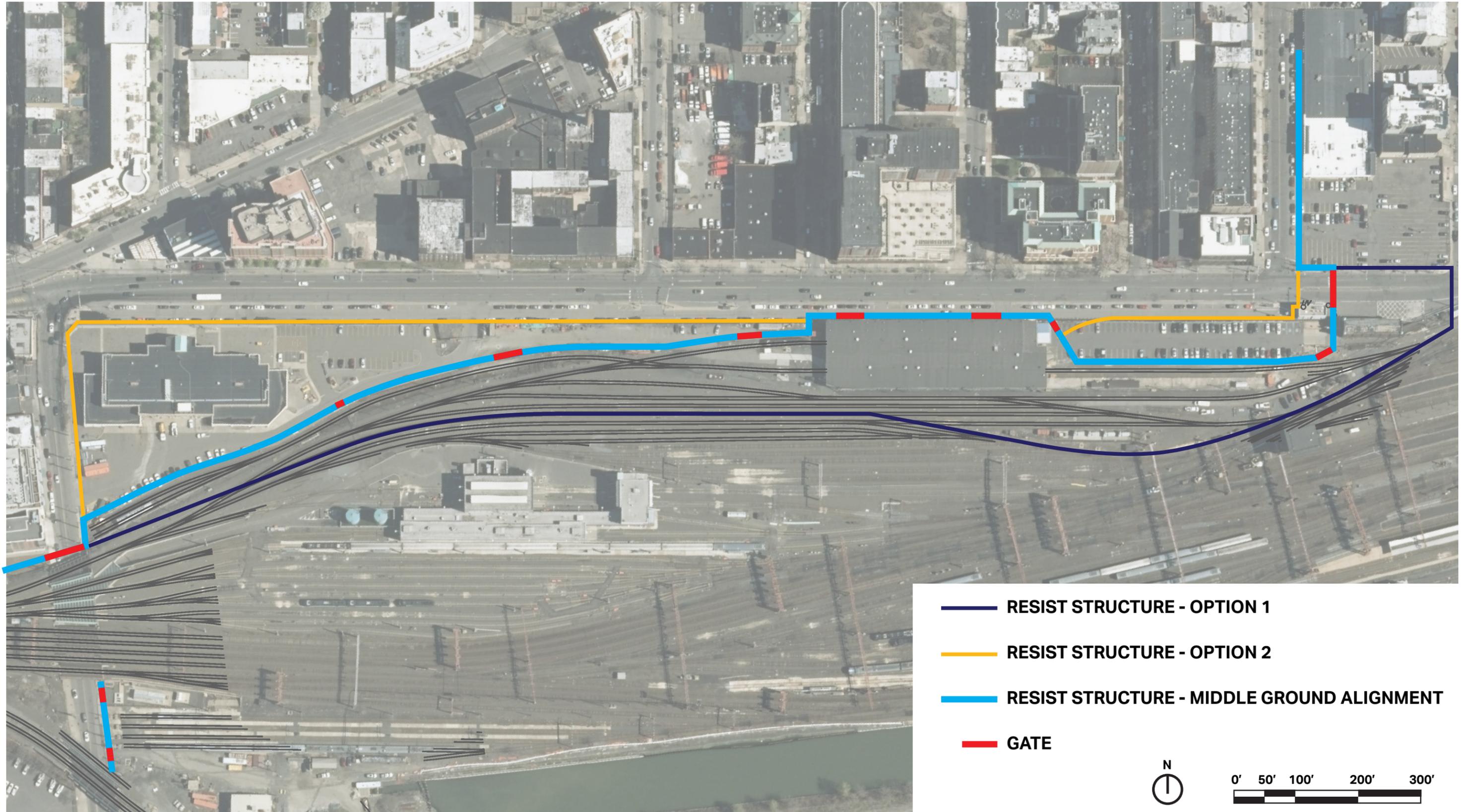


**AECOM**

# RESIST COMPONENTS



# MIDDLE GROUND ALIGNMENT



- RESIST STRUCTURE - OPTION 1
- RESIST STRUCTURE - OPTION 2
- RESIST STRUCTURE - MIDDLE GROUND ALIGNMENT
- GATE



# MEETING AGENDA

## 1. RBD BACKGROUND

- COMPETITION
- PRELIMINARY DESIGN
- FEASIBILITY STUDY

## 2. DESIGN

- PROJECT DRIVERS
  - Technical Updates
  - Public Input
- DESIGN DEVELOPMENT
  - Design Zones 1 & 3
  - Design Zone 2 (Cove Park)

## 3. DESIGN PROCESS PREVIEW

- PROCESS MATERIALS ON DISPLAY

# THE TEAM

## WHO YOU WILL SEE TONIGHT FROM THE AECOM PROJECT TEAM



Presenter

**CHRISTOPHER BENOSKY,**  
PE, CFM  
Project Executive



Presenter

**CHRISTY CHENG, OMA**  
Community Engagement



Presenter

**ERIC OLSEN**  
Landscape Architecture /  
Urban Design and Community  
Engagement



Presenter

**KAREN APPELL PE, CPESC**  
Project Manager



**TOM VARGO PE, CCM**  
Senior Design / Construction  
Engineer



**GONZALO CRUZ**  
Landscape Architecture &  
Urban Design Principal



**COLBY SEIBERT**  
Project Engineer



**KEN CHONGSUWAT**  
Landscape Designer



**RAN WEI**  
Landscape Designer



**LAUREN SHOATS**  
Landscape Designer



**TIMOTHY HO, OMA**  
Community Engagement



**OLINA TERZI, OMA**  
Community Engagement

# RBD BACKGROUND

# PROJECT TIMELINE

## COMPETITION TO IMPLEMENTATION

**COMPETITION**

**FEASIBILITY  
+  
ENVIRONMENTAL  
IMPACT STATEMENT**

**FINAL DESIGN  
+  
CONSTRUCTION**

**2013**

**2014**

**2015**

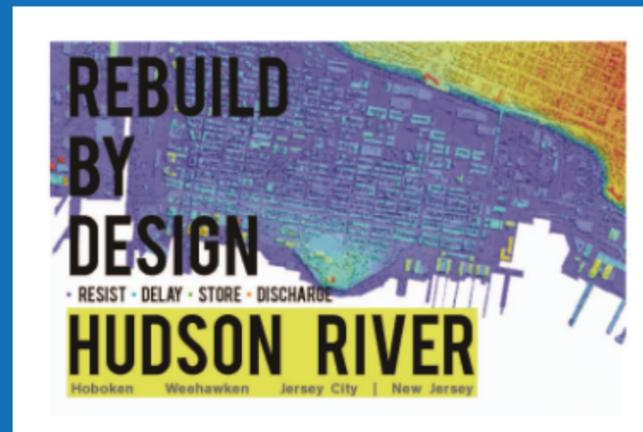
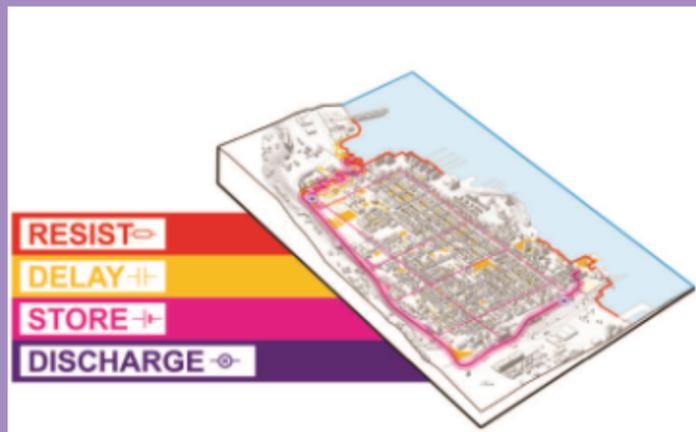
**2016**

**2017**

**2018**

**TODAY**

**2022**



# COMPETITION PHASE

## 4-PART STRATEGY

RESIST



DELAY



STORE



DISCHARGE



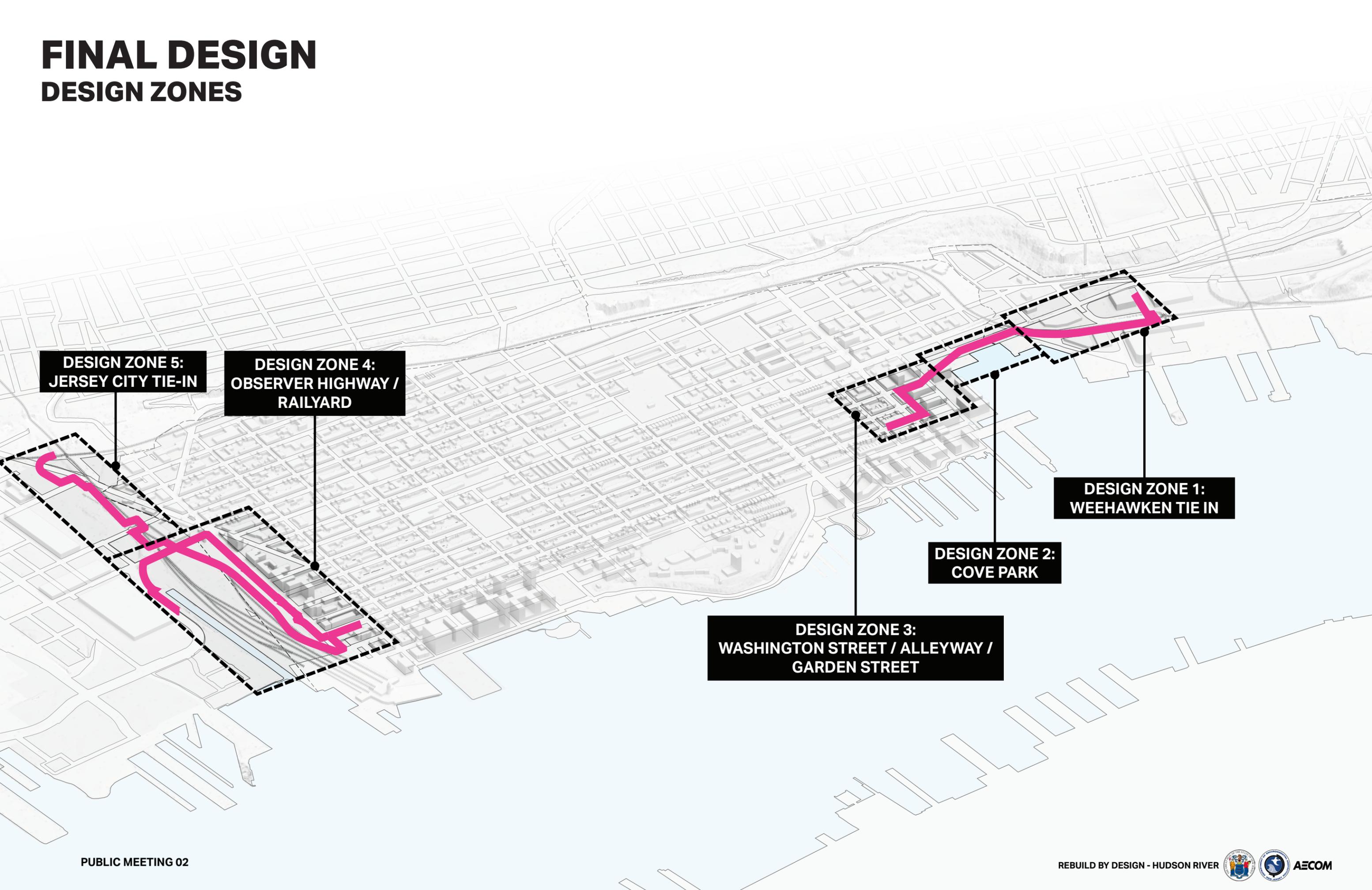
# RECOMMENDATION

## PREFERRED ALTERNATIVE - ALTERNATIVE 3



# FINAL DESIGN

## DESIGN ZONES



**DESIGN ZONE 5:  
JERSEY CITY TIE-IN**

**DESIGN ZONE 4:  
OBSERVER HIGHWAY /  
RAILYARD**

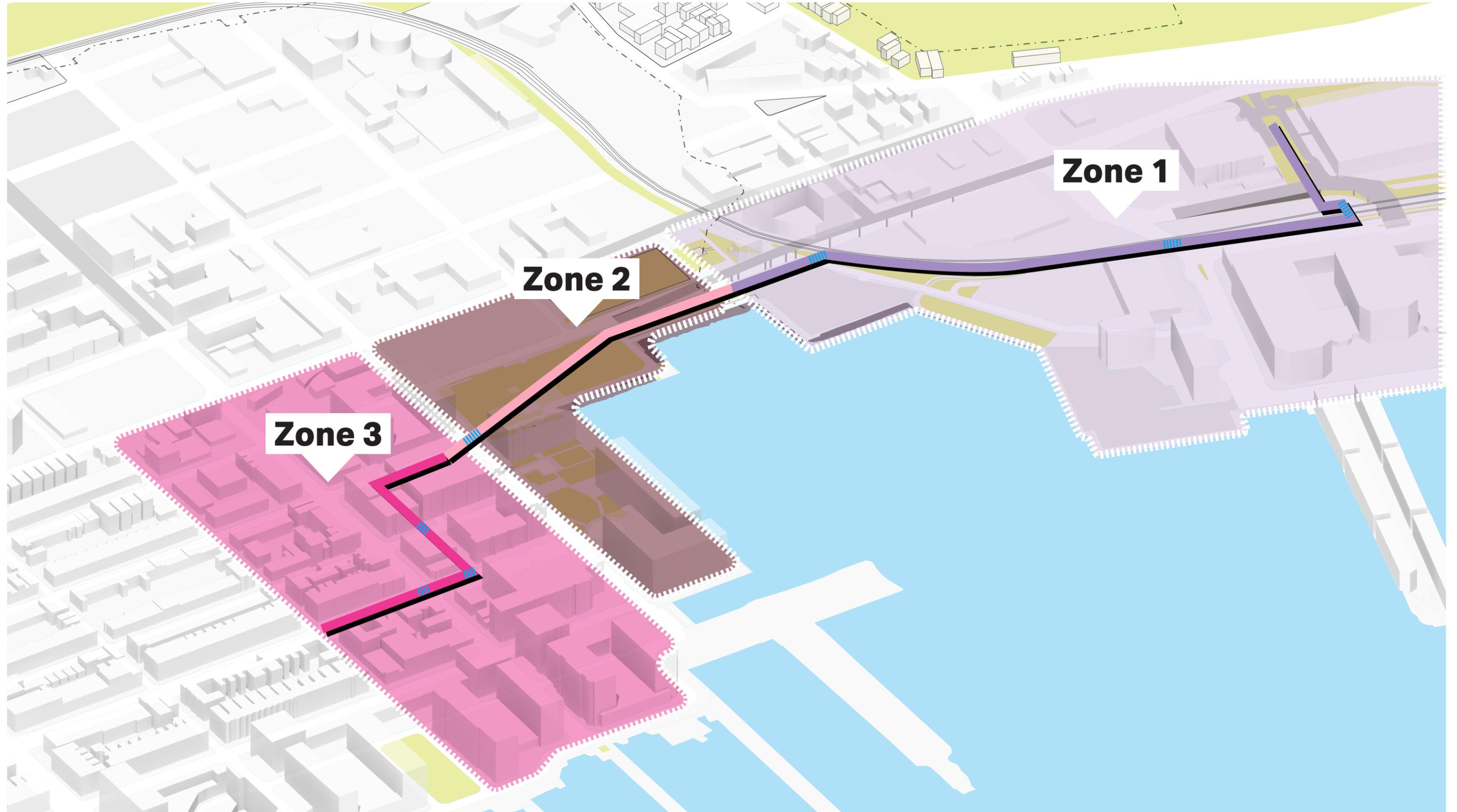
**DESIGN ZONE 2:  
COVE PARK**

**DESIGN ZONE 1:  
WEEHAWKEN TIE IN**

**DESIGN ZONE 3:  
WASHINGTON STREET / ALLEYWAY /  
GARDEN STREET**

# RESIST NORTH

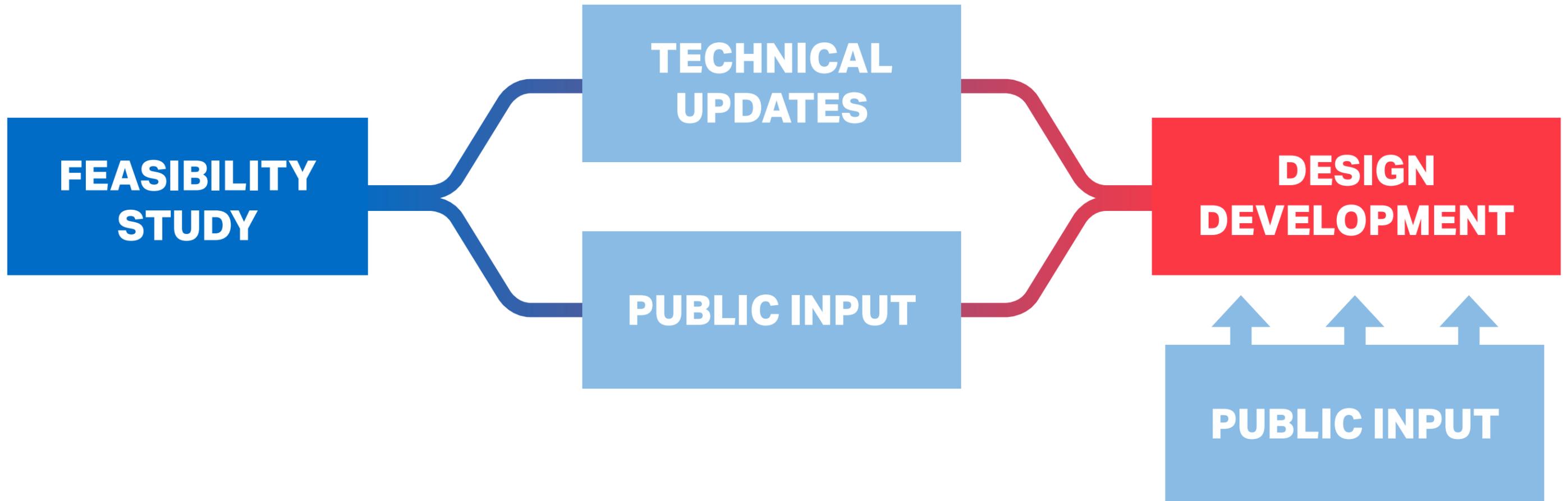
## DESIGN ZONES



# DESIGN

# PROJECT DRIVERS

## TECHNICAL UPDATES & PUBLIC INPUT INFORMING DESIGN DEVELOPMENT

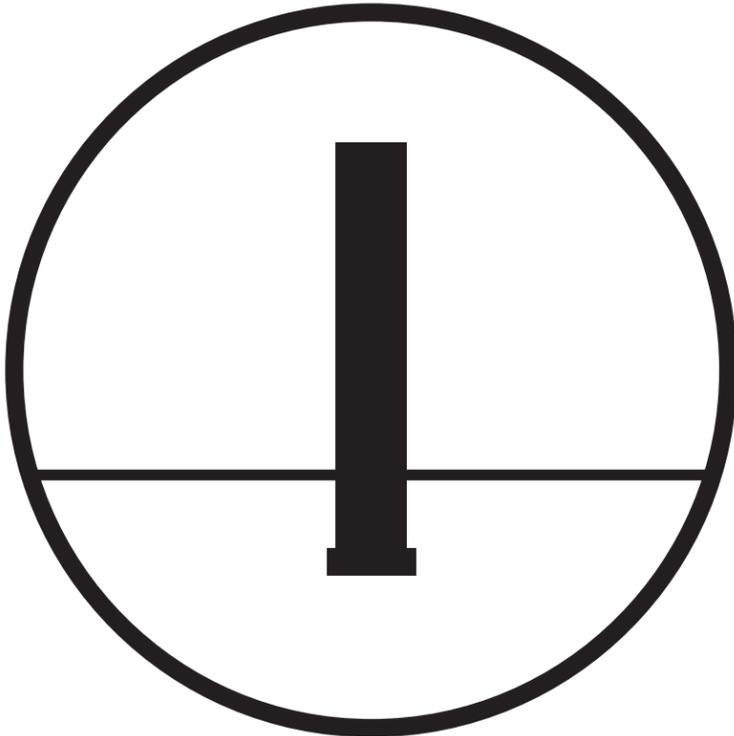


# TECHNICAL UPDATES

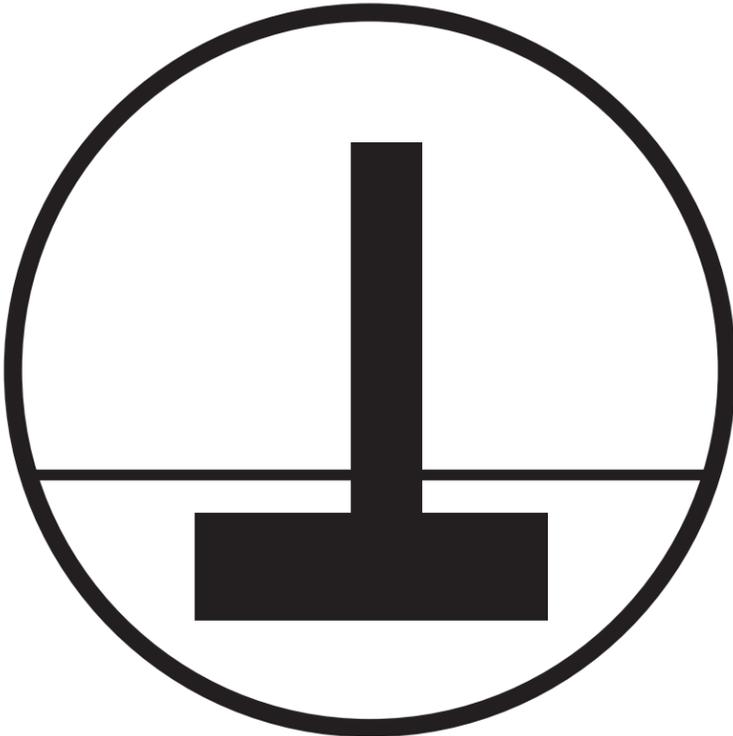
# TECHNICAL UPDATES

## RESIST STRUCTURE

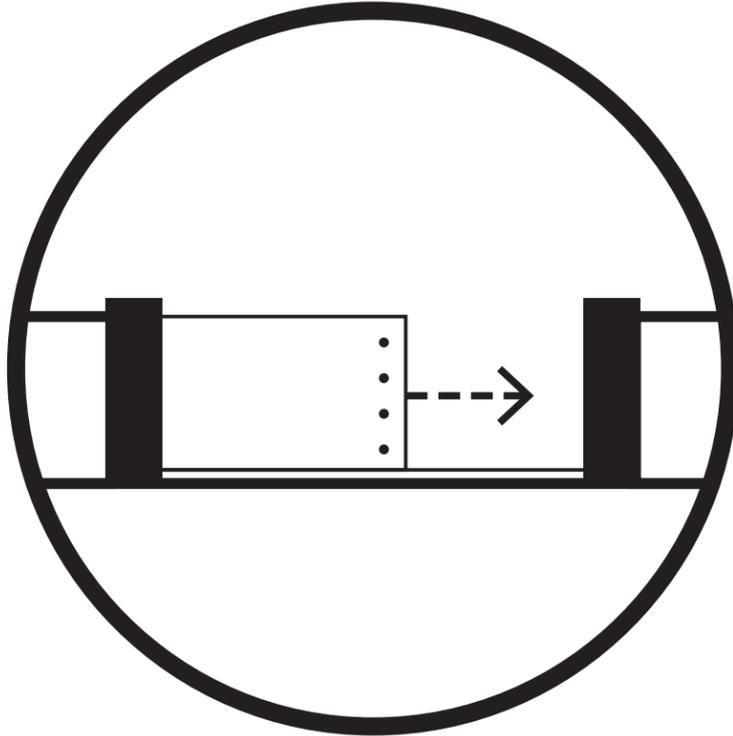
Resist Structure design will include:



**I-Resist Structure Sections**



**T-Resist Structure Sections**



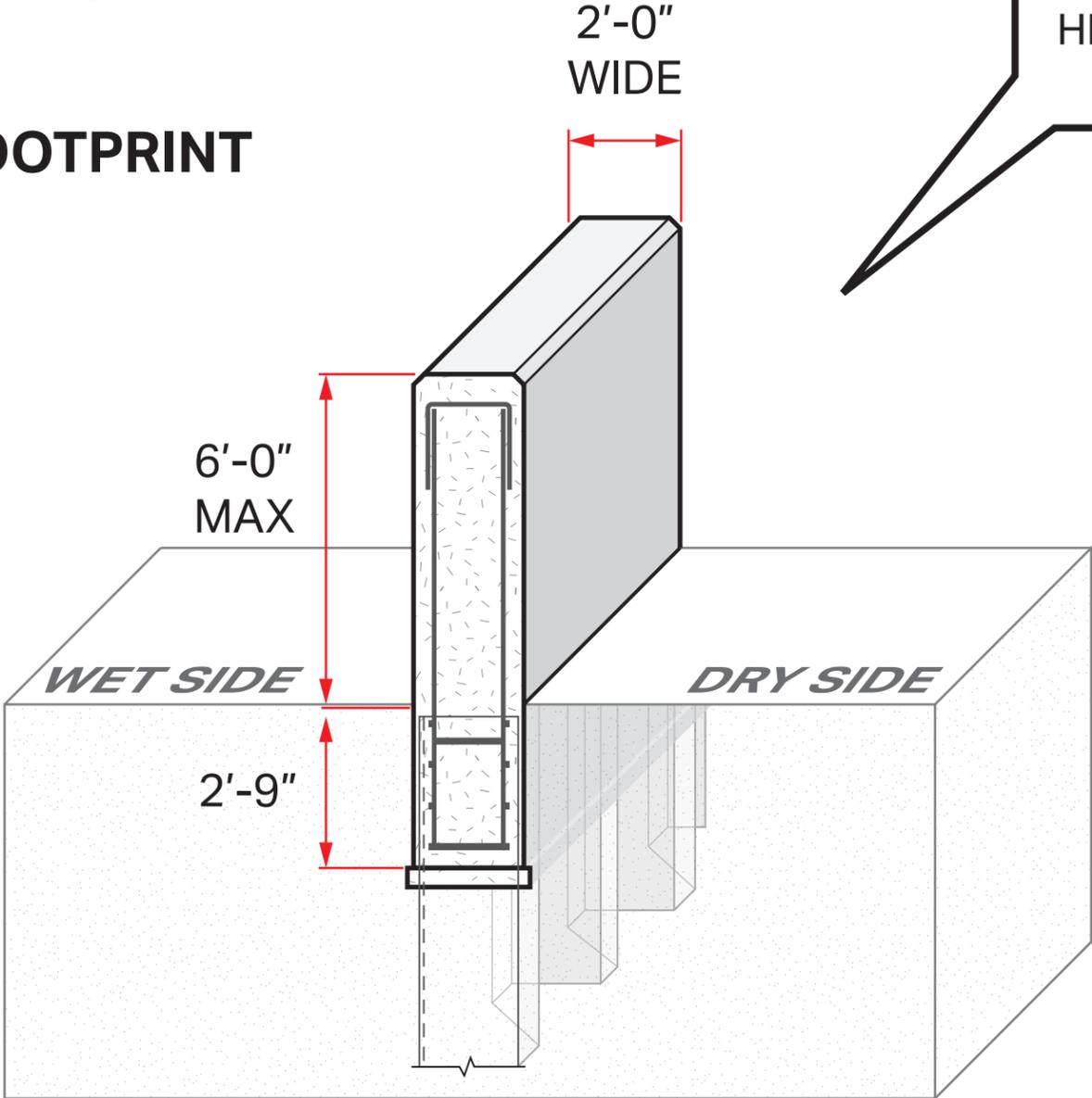
**Gates**

# TECHNICAL UPDATES

## CONVENTIONAL I-RESIST STRUCTURE SECTION (ALLEYWAY + WASHINGTON ST)

**+ COST-EFFICIENT CONSTRUCTION**

**+ REDUCED STRUCTURAL FOOTPRINT**



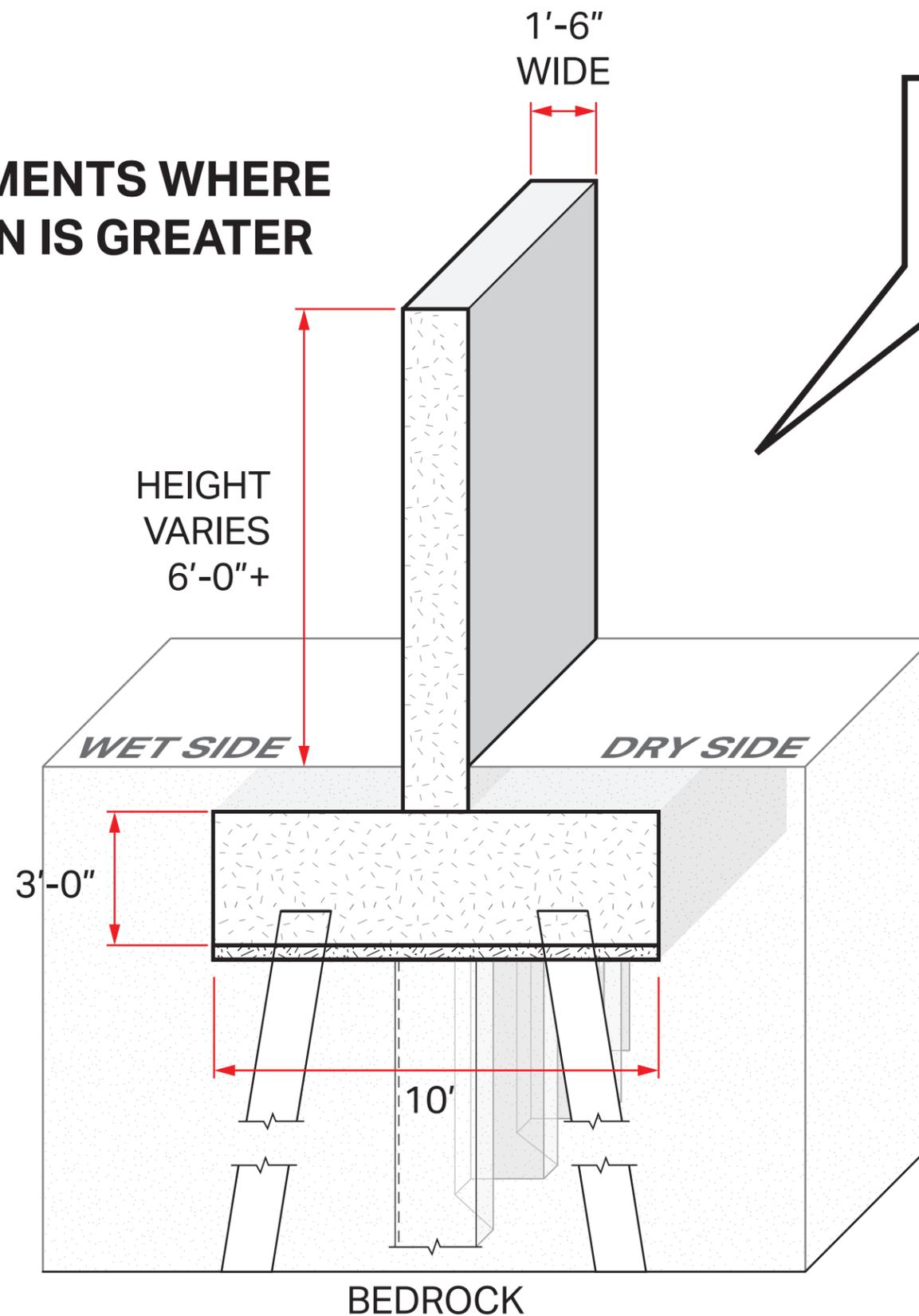
UTILIZED IN AREAS WHERE SPACE IS LIMITED AND WHERE STRUCTURE HEIGHTS DO NOT EXCEED SIX FEET.

I-RESIST STRUCTURE LOCATION SHOWN ON SLIDE 17

# TECHNICAL UPDATES

## T-RESIST STRUCTURE SECTION (WEEHAWKEN + COVE PARK)

**+ MEETS DESIGN REQUIREMENTS WHERE HEIGHT OF INTERVENTION IS GREATER THAN 6 FEET.**

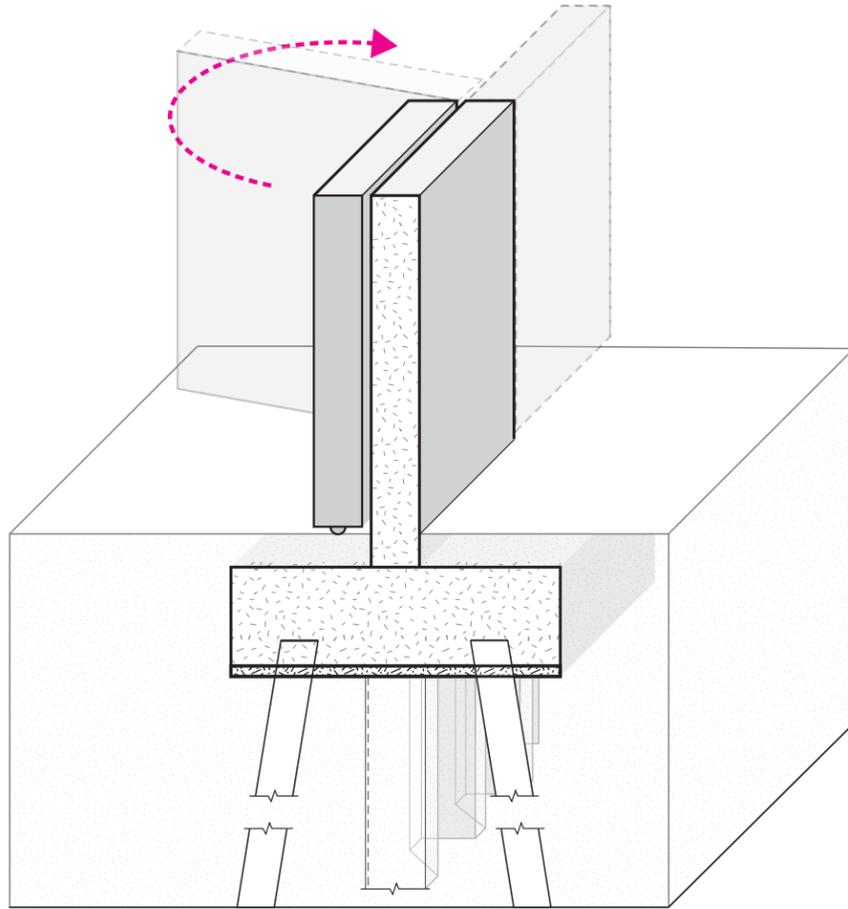


THE PRIMARY TYPE OF RESIST STRUCTURE THAT WILL BE USED FOR THIS PROJECT.

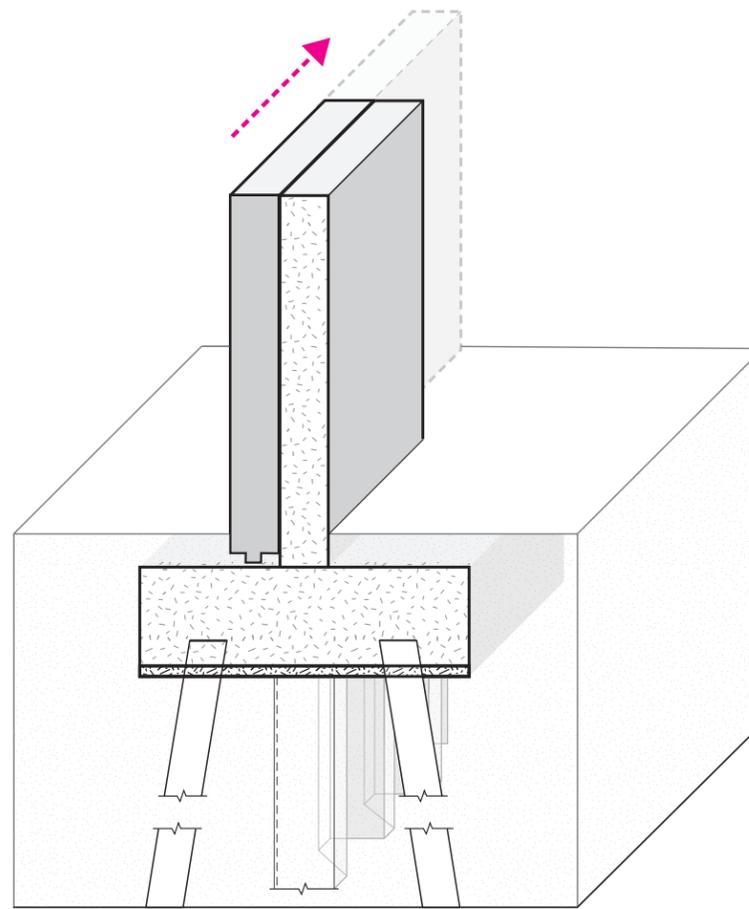
T-RESIST STRUCTURE LOCATION SHOWN ON SLIDE 17

# TECHNICAL UPDATES

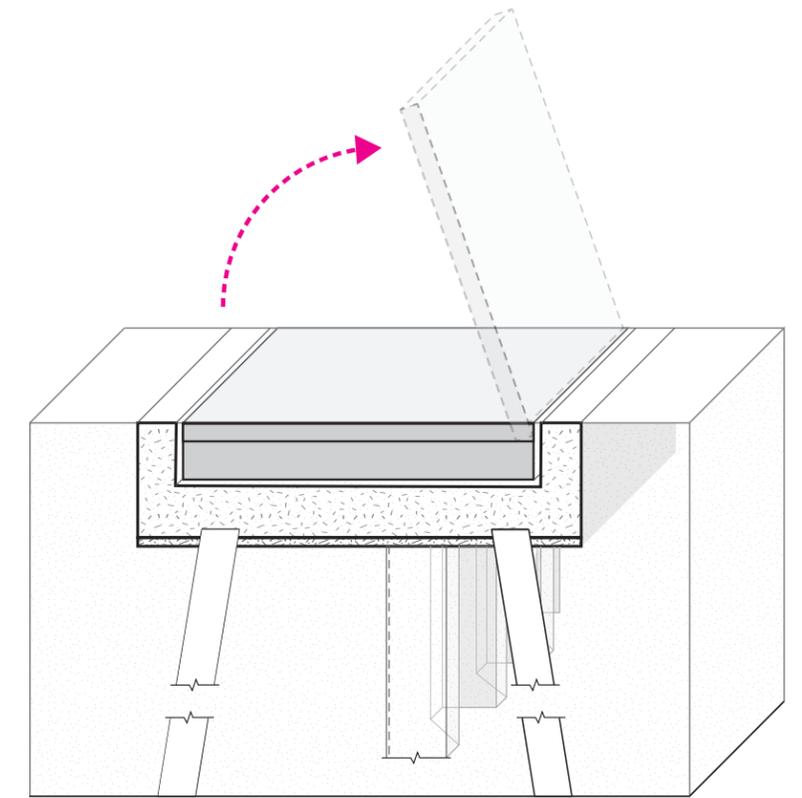
## DEPLOYABLE GATES UNDER INVESTIGATION



**Swing Gate**



**Roller Gate**



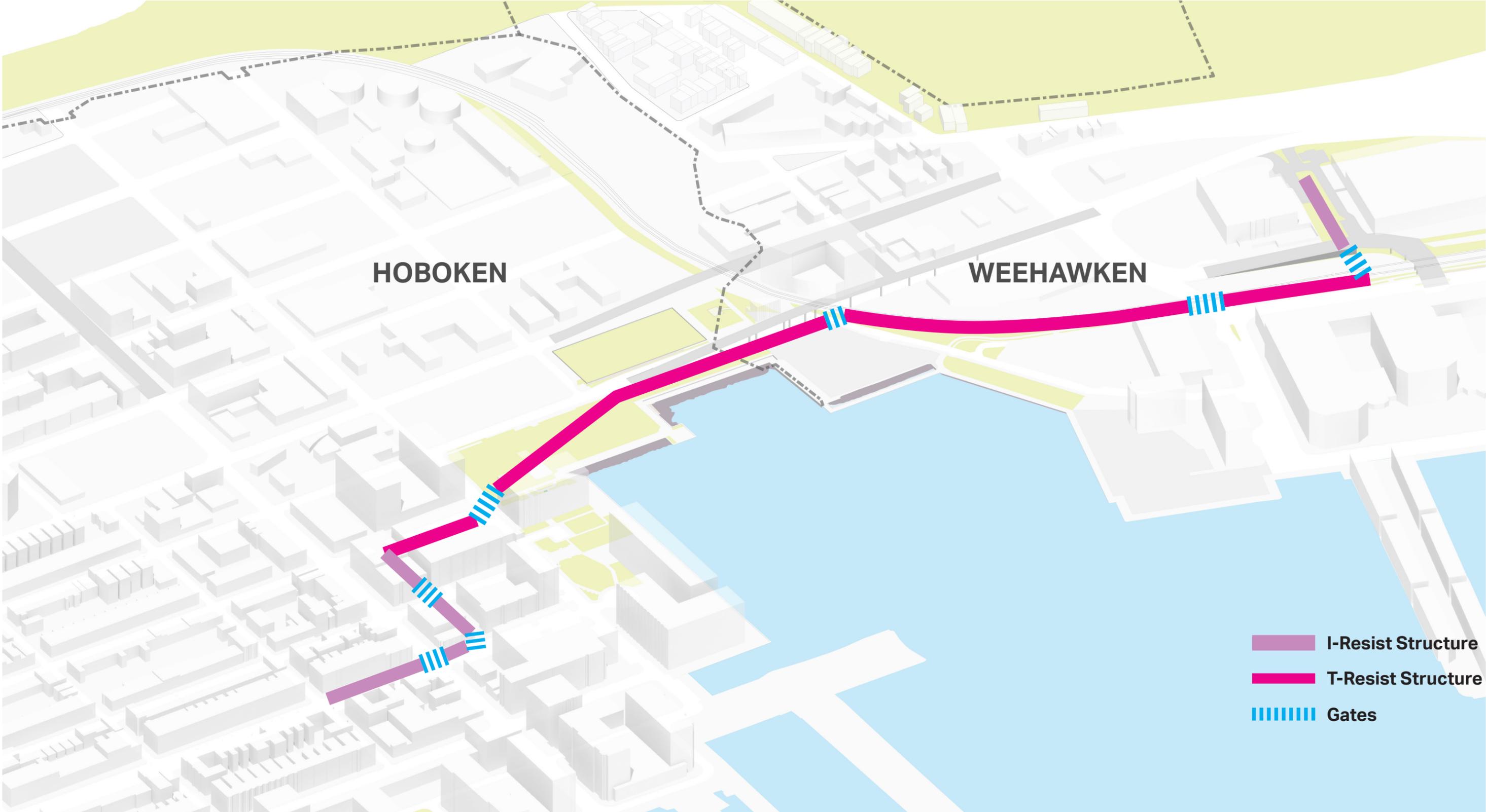
**Flip-up Gate**

**\*\* STILL UNDER EVALUATION FOR POSSIBLE  
USE IN STRATEGIC LOCATIONS.**

Gates are supported similar to T-Resist structure on a structural foundation and piles.

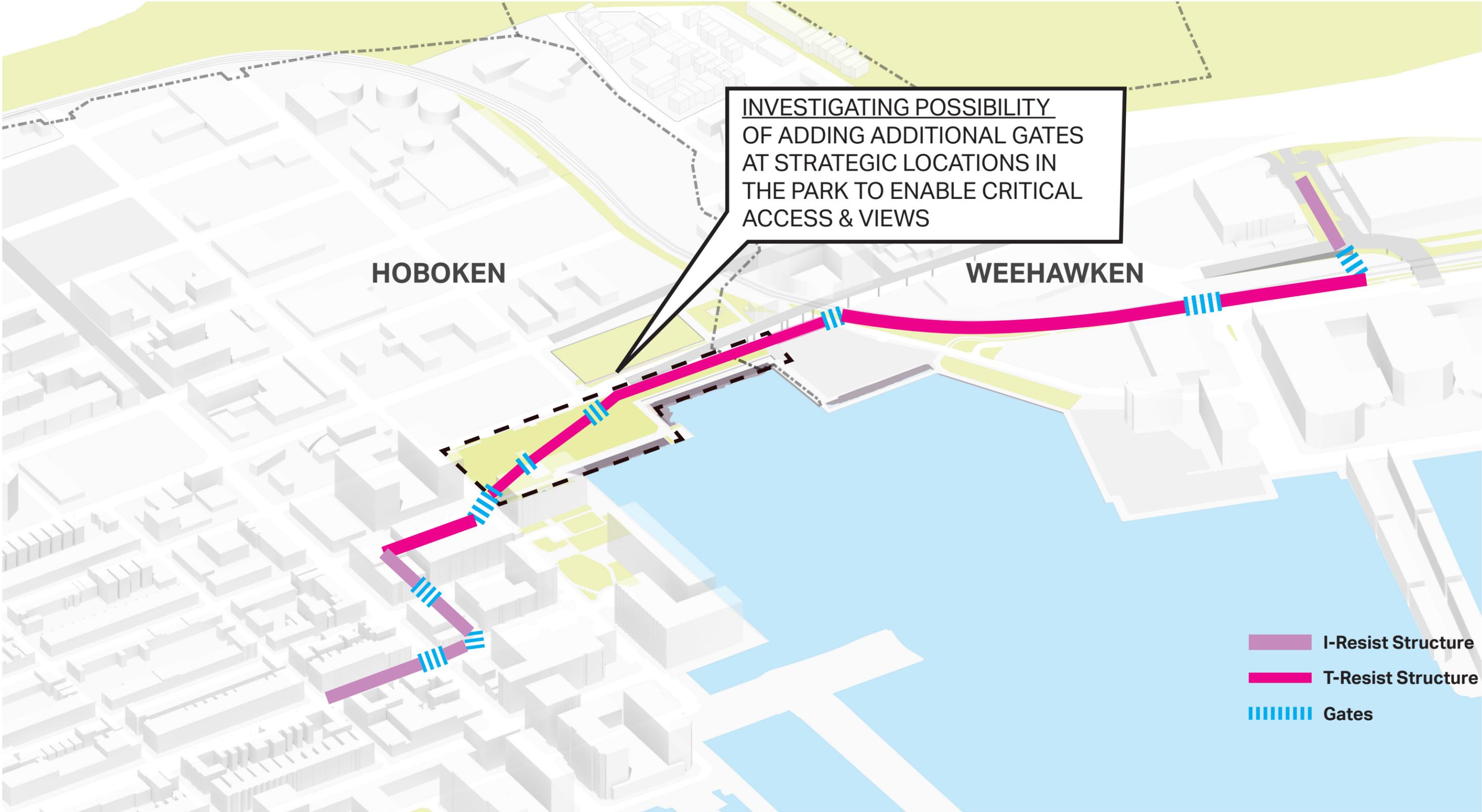
# TECHNICAL UPDATES

## OVERALL ALIGNMENT



# TECHNICAL UPDATES

## OVERALL ALIGNMENT

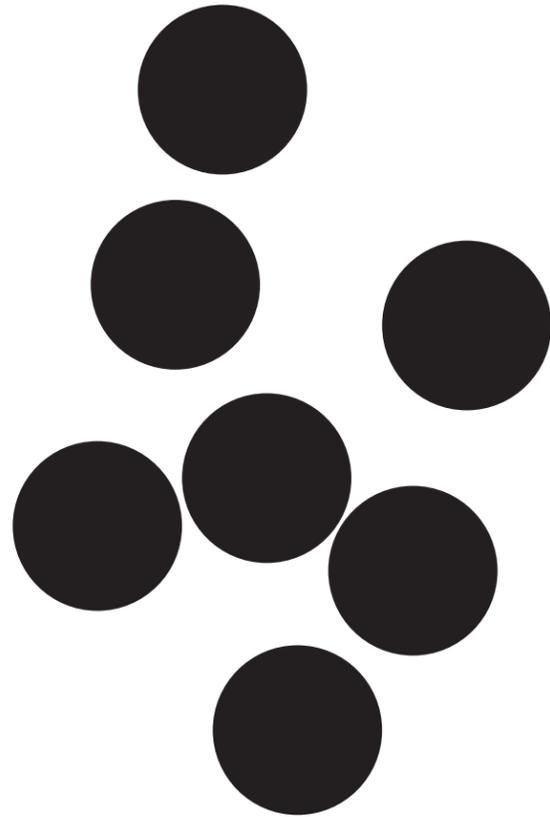


# PUBLIC INPUT

# COMMUNITY ENGAGEMENT RECAP

## PREVIOUS ACTIVITY MATERIALS

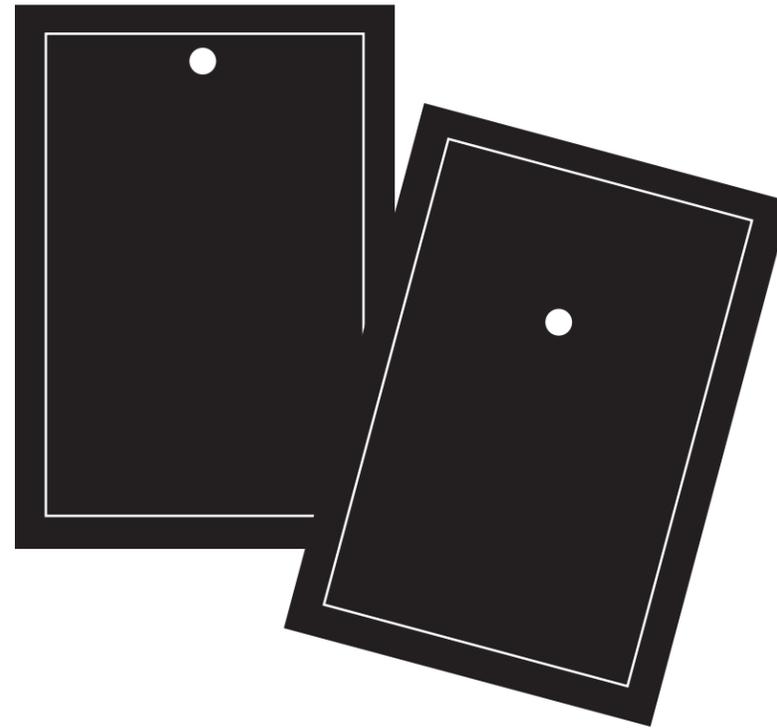
### Public Meeting #1



#### Stickers

848 Sticker Responses

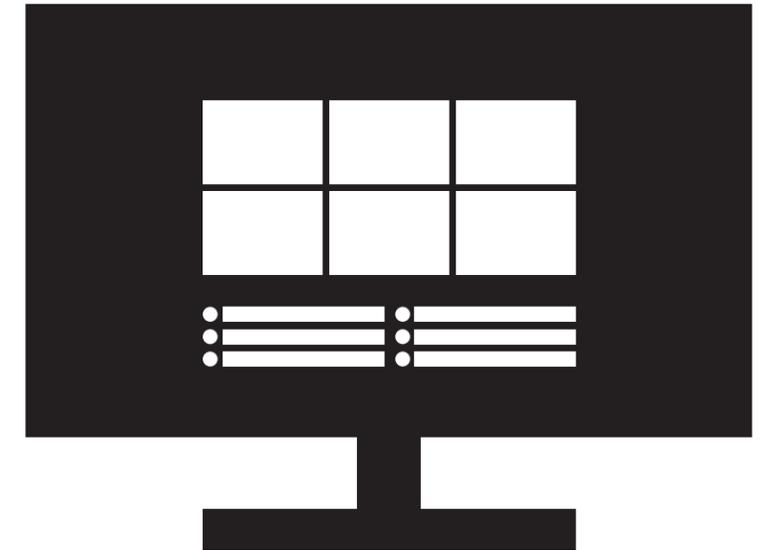
### Design Zone Workshop #1



#### Playing Cards

158 Character Responses  
299 Amenity Responses

### Digital Survey



#### Online Survey

1,453 Survey Responses

# COMMUNITY ENGAGEMENT RECAP

## DATA COLLECTED



**Public Meeting #1**

PUBLIC MEETING 02



**Design Zone Workshops Round 1**



**1**  
Map of overall design showing all 5 Zones.



**2**  
What is your interest in Hoboken, Jersey City, and Weehawken?

	Live here	Work here	Live and work here	Other
Hoboken	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jersey City	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weehawken	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

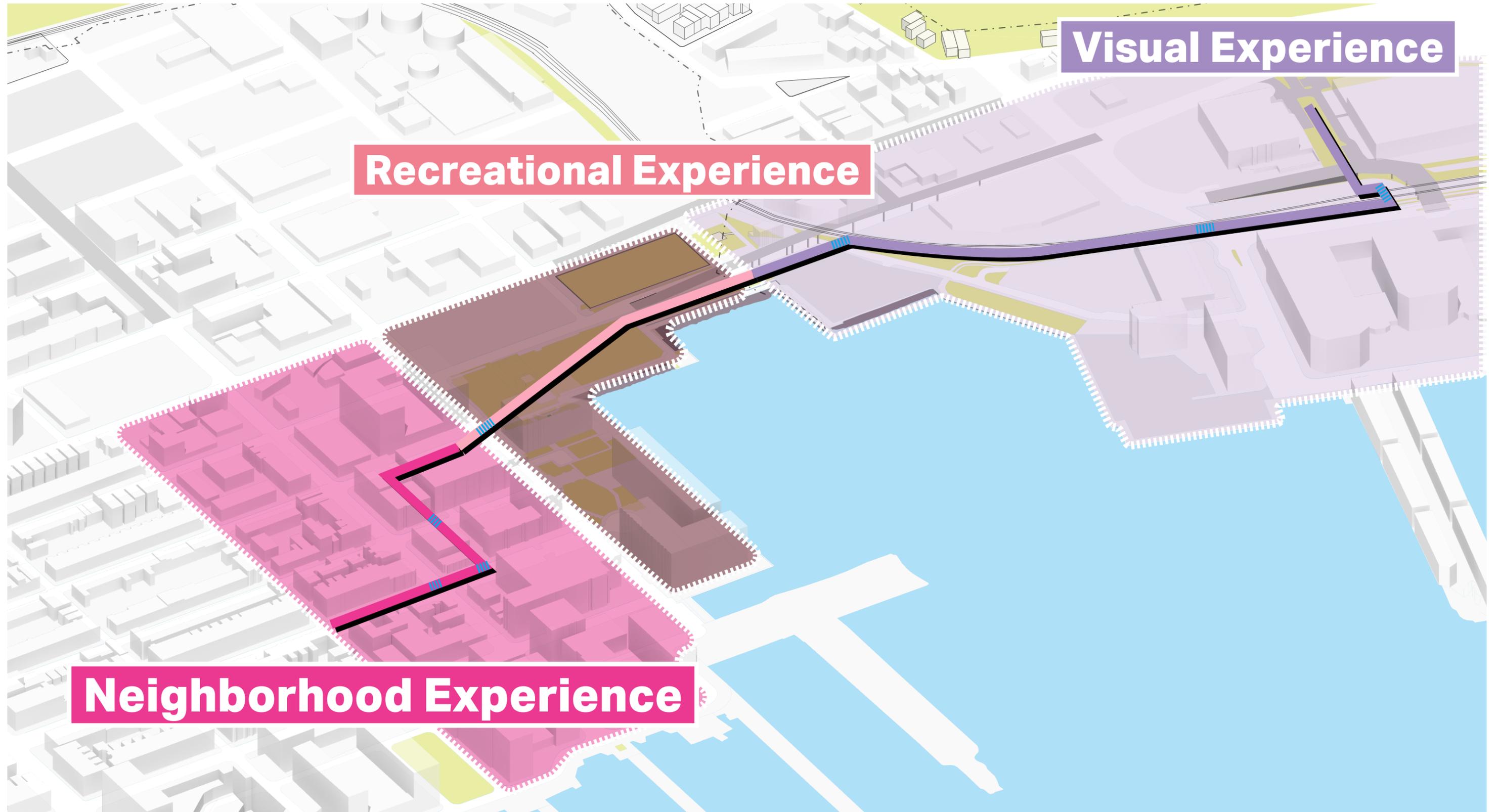
**3**  
A number of meetings were held on the five major zones throughout Hoboken, Weehawken, and Jersey City. Which of the meetings have you attended? \*

**Digital Survey**



# COMMUNITY ENGAGEMENT RECAP

## UNIQUE EXPERIENCES



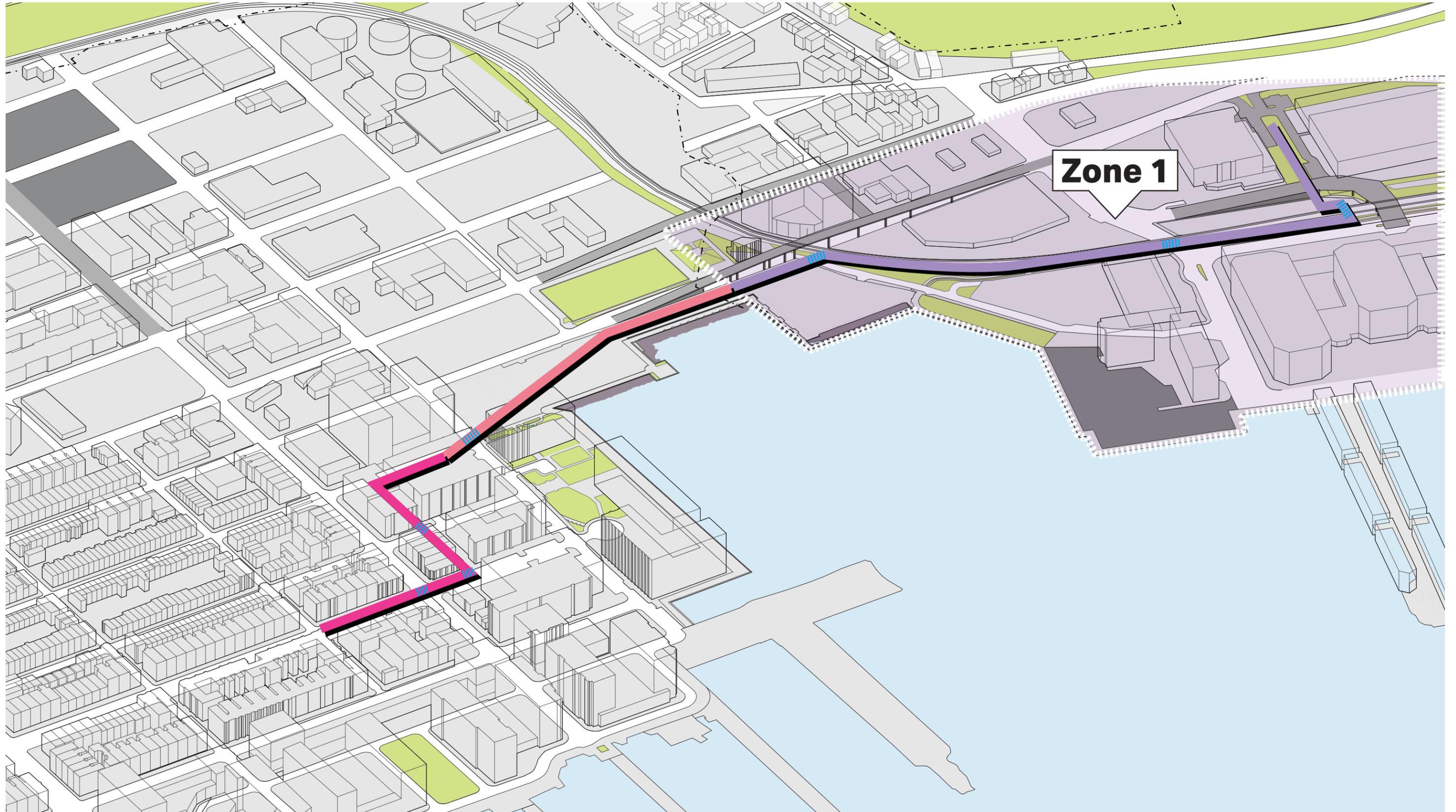
**Visual Experience**

**Recreational Experience**

**Neighborhood Experience**

**DESIGN DEVELOPMENT  
DESIGN ZONE 1  
WEEHAWKEN**

# RESIST NORTH PROJECT ZONES

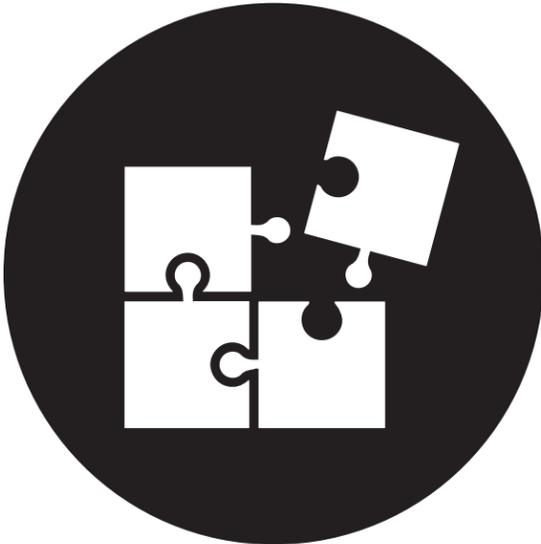


# ZONE 1 DESIGN OBJECTIVES

## PUBLIC INPUT AND TECHNICAL UPDATE INFORMING DESIGN DEVELOPMENT



STRUCTURE INTEGRITY  
& EASY INSPECTION



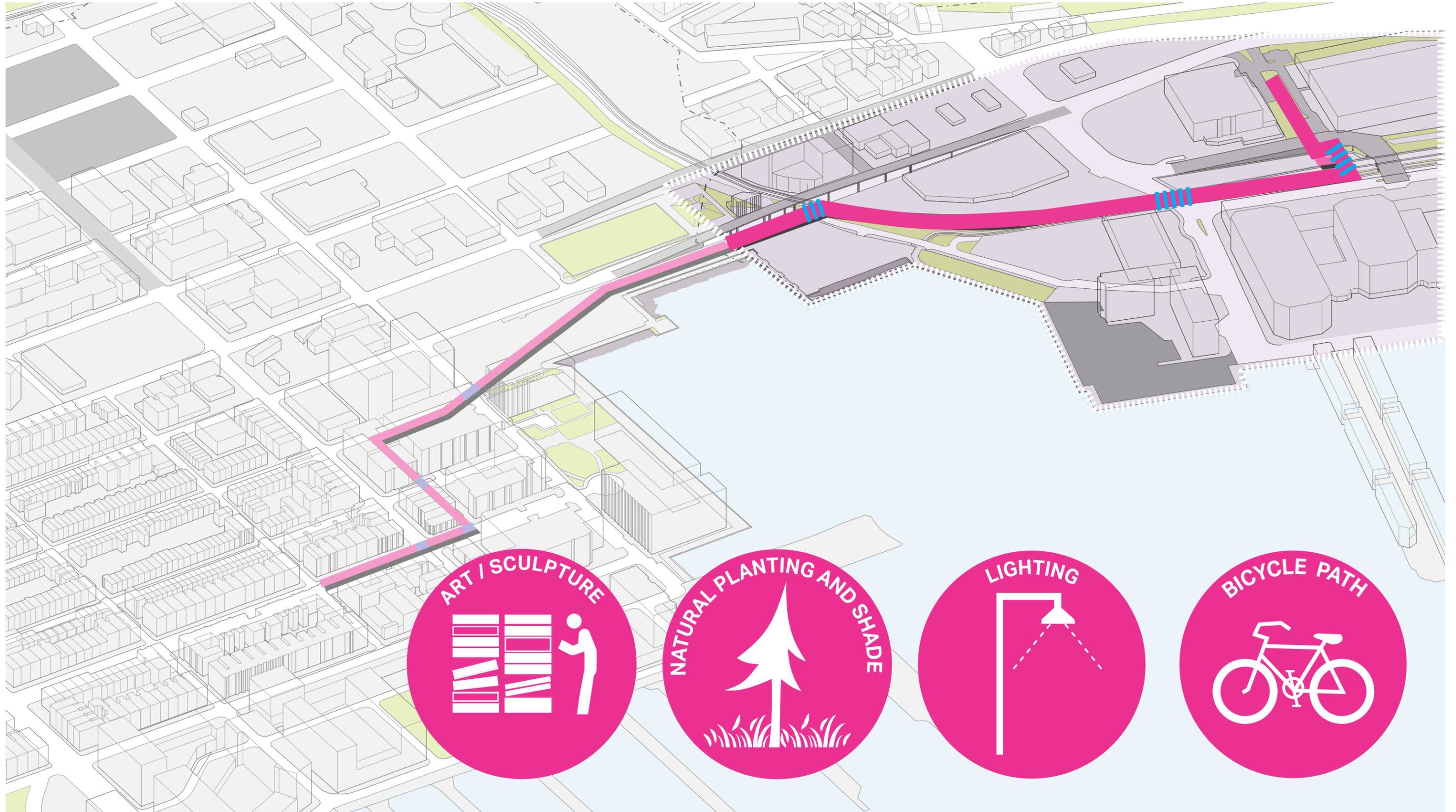
PROGRAM FLEXIBILITY



INTEGRATION TO  
THE CONTEXT

# PUBLIC INPUT TAKEAWAYS

## ZONE 1 - GREEN CORRIDOR

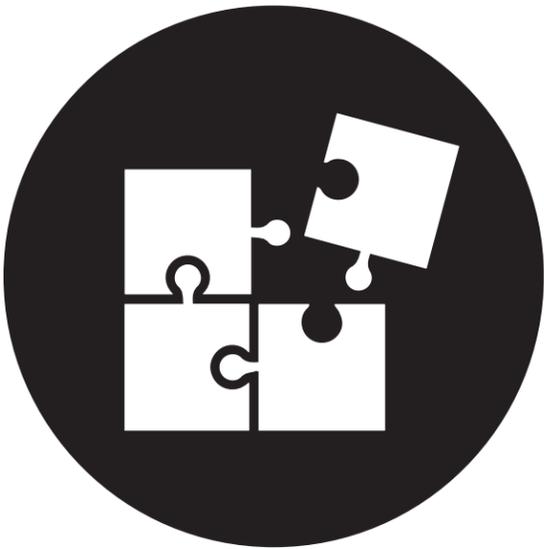


# ZONE 1 DESIGN OBJECTIVES

## PUBLIC INPUT AND TECHNICAL UPDATE INFORMING DESIGN DEVELOPMENT



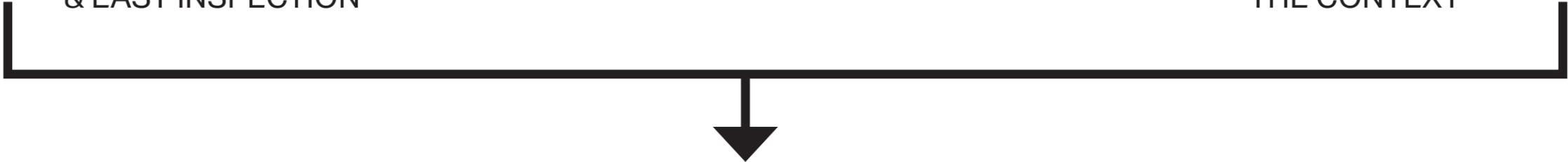
STRUCTURE INTEGRITY  
& EASY INSPECTION



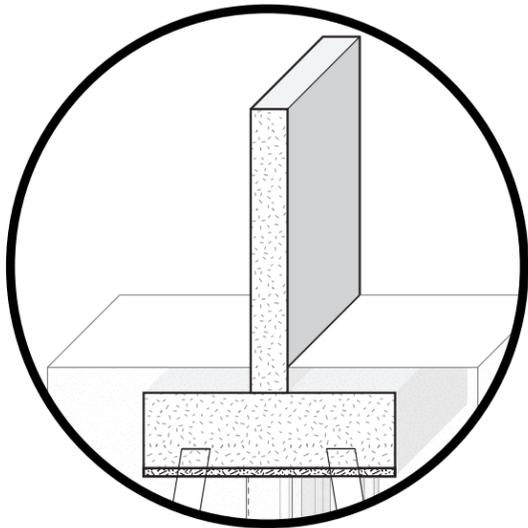
PROGRAM FLEXIBILITY



INTEGRATION TO  
THE CONTEXT



T-Resist Structure

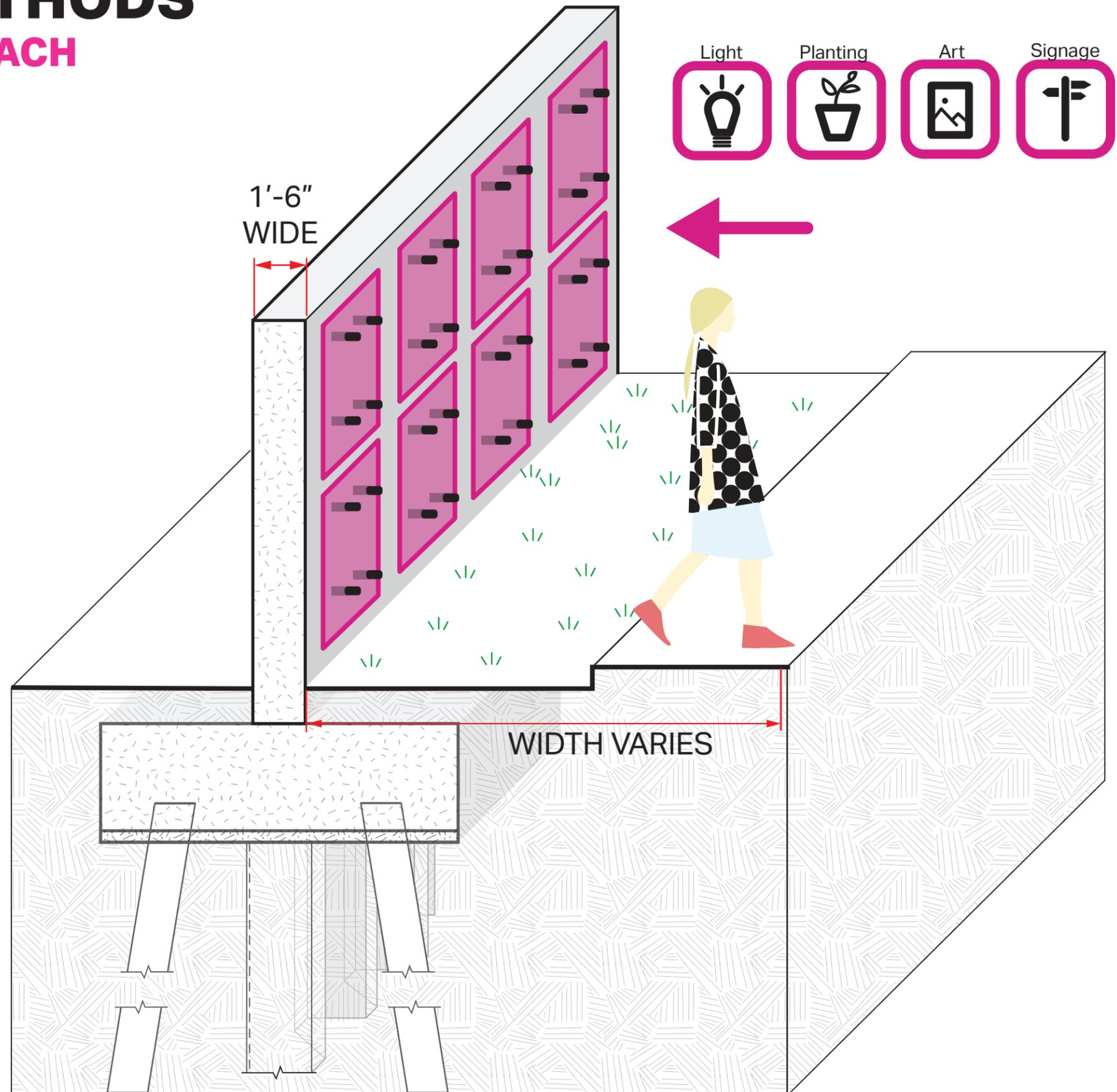


+

Art	Texture	Lighting	Seating
Bike Rack	Signage	Planting	Table

# ALIGNMENT DESIGN METHODS

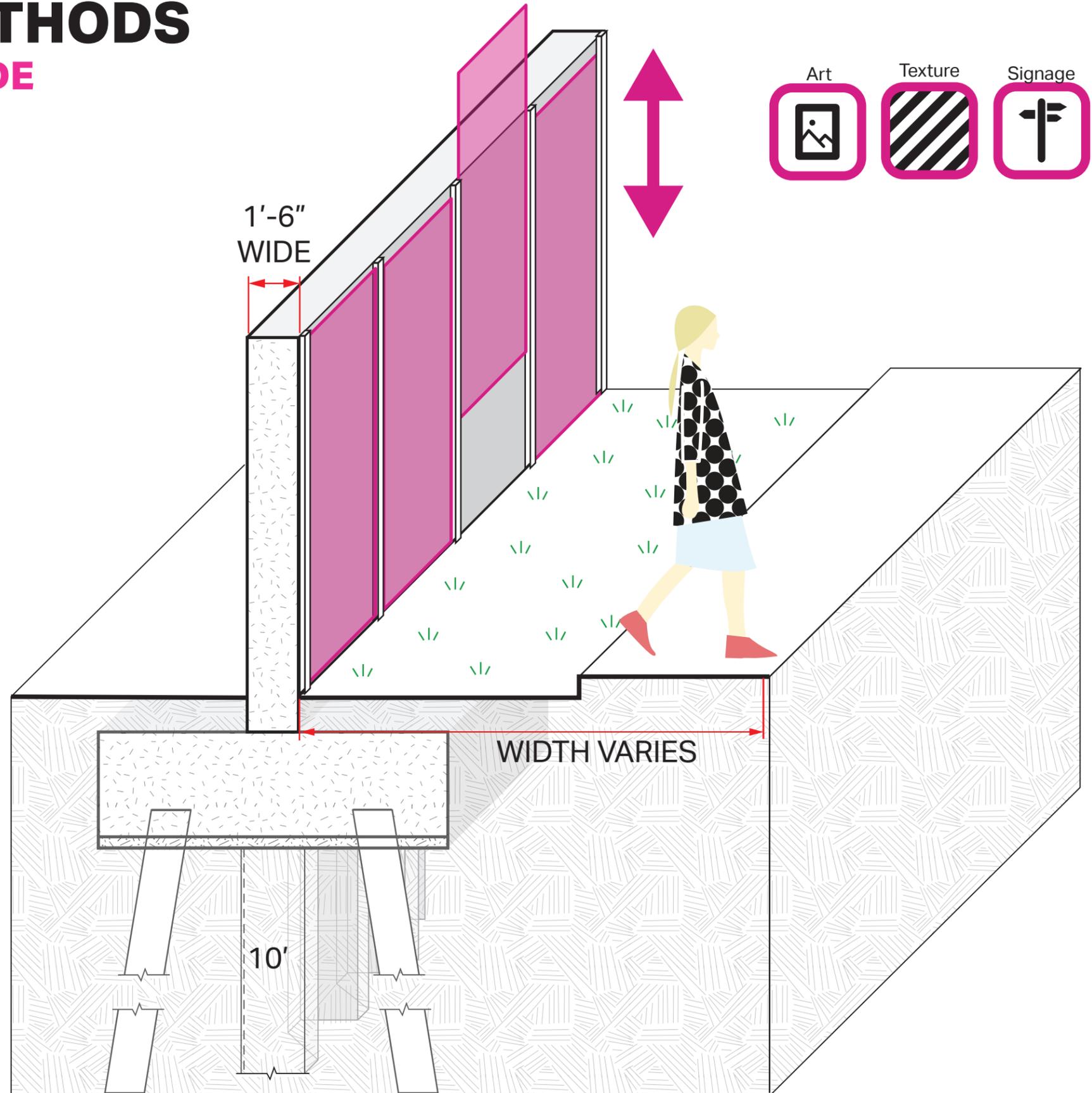
## ZONE 1 T-RESIST STRUCTURE - ATTACH



**METHOD: ATTACH    IMPLEMENTING TOOLKIT**

# ALIGNMENT DESIGN METHODS

## ZONE 1 T-RESIST STRUCTURE - SLIDE



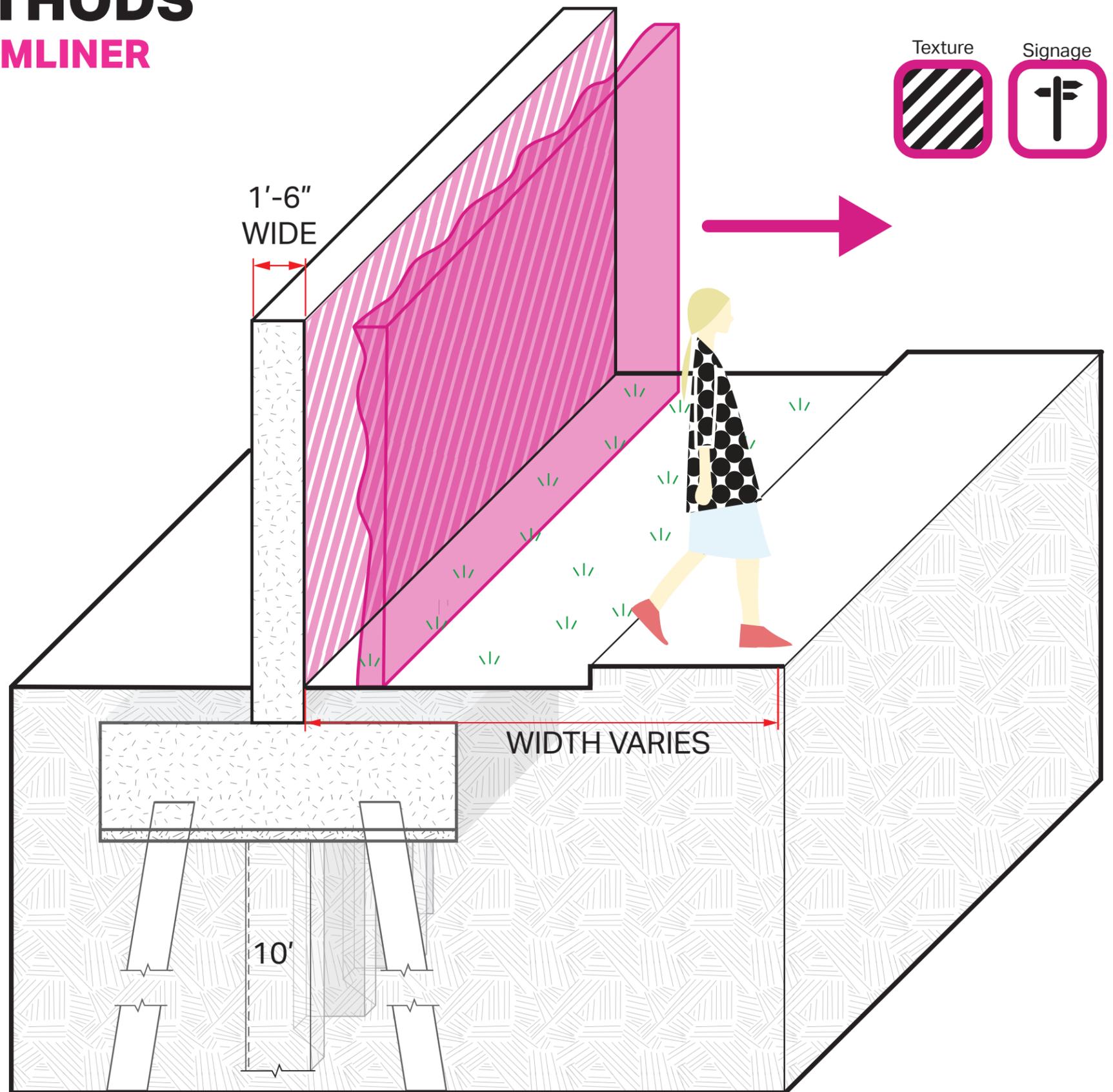
**METHOD: SLIDE**

**IMPLEMENTING TOOLKIT**



# ALIGNMENT DESIGN METHODS

## ZONE 1 T-RESIST STRUCTURE - FORMLINER

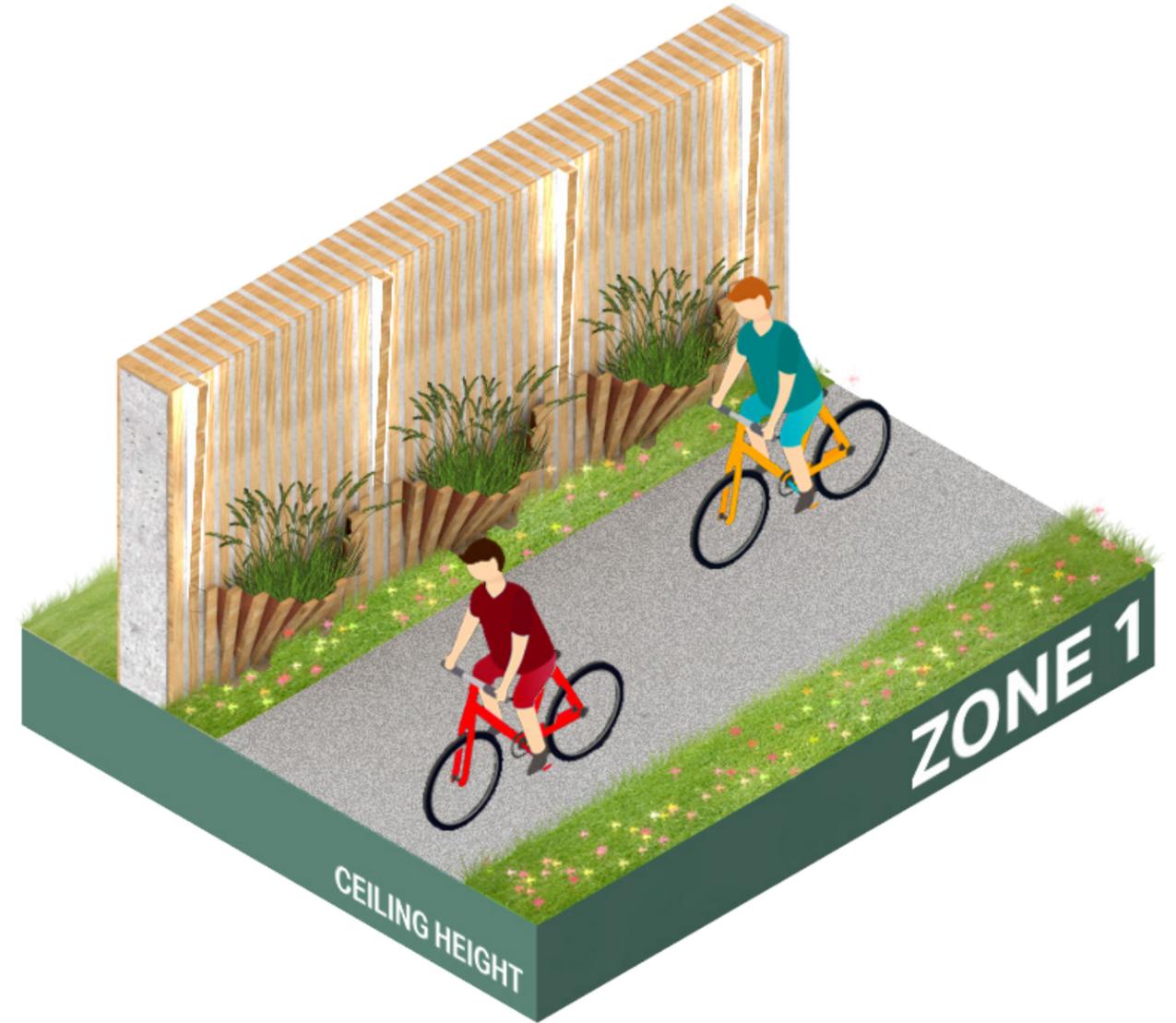


**METHOD: FORMLINER**

**IMPLEMENTING TOOLKIT**

# ZONE 1

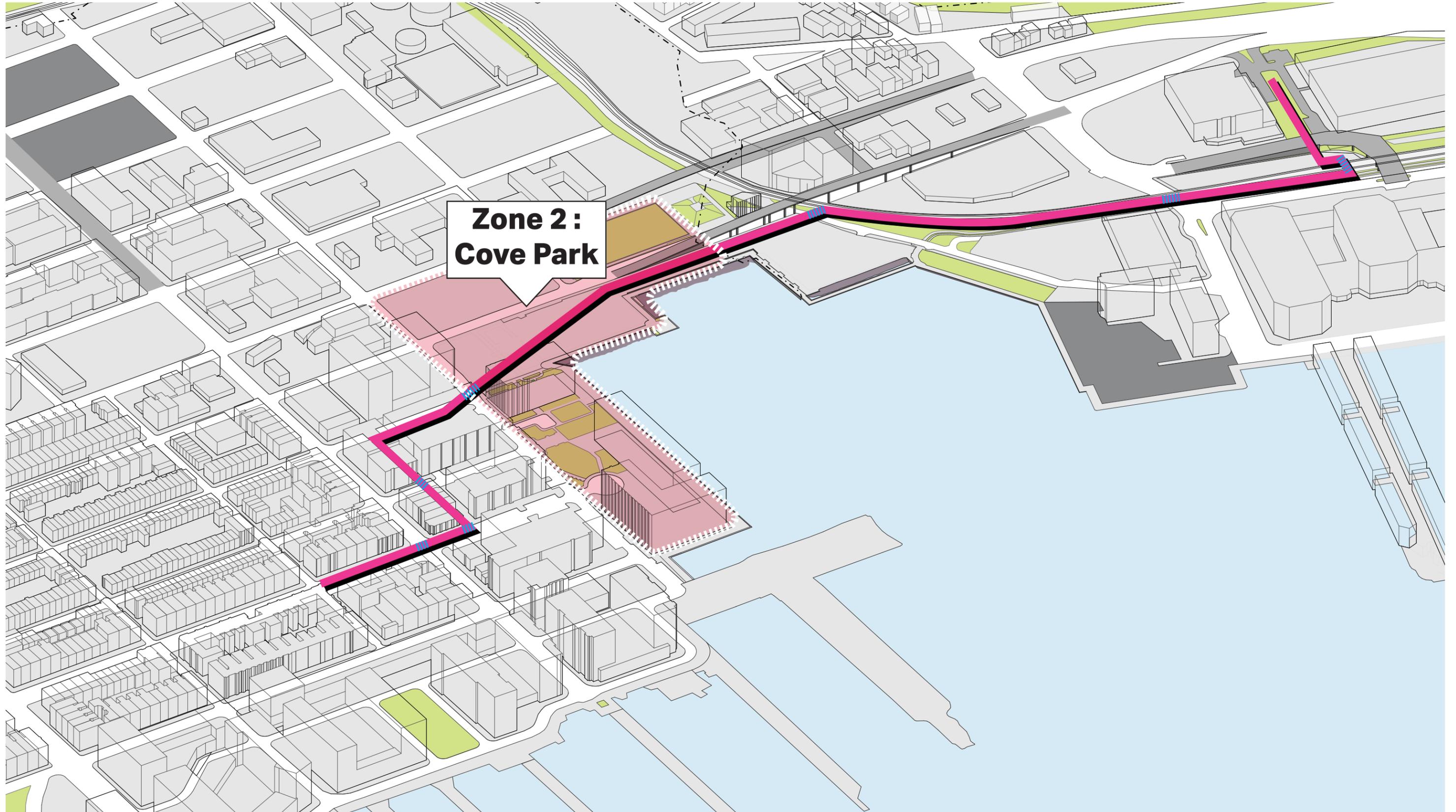
## DESIGN VISIONS



PLEASE STOP AT THE BACK OF THE ROOM AFTER THE MEETING TO SEE THE IN PROCESS DESIGN IDEAS THE TEAM IS WORKING ON!

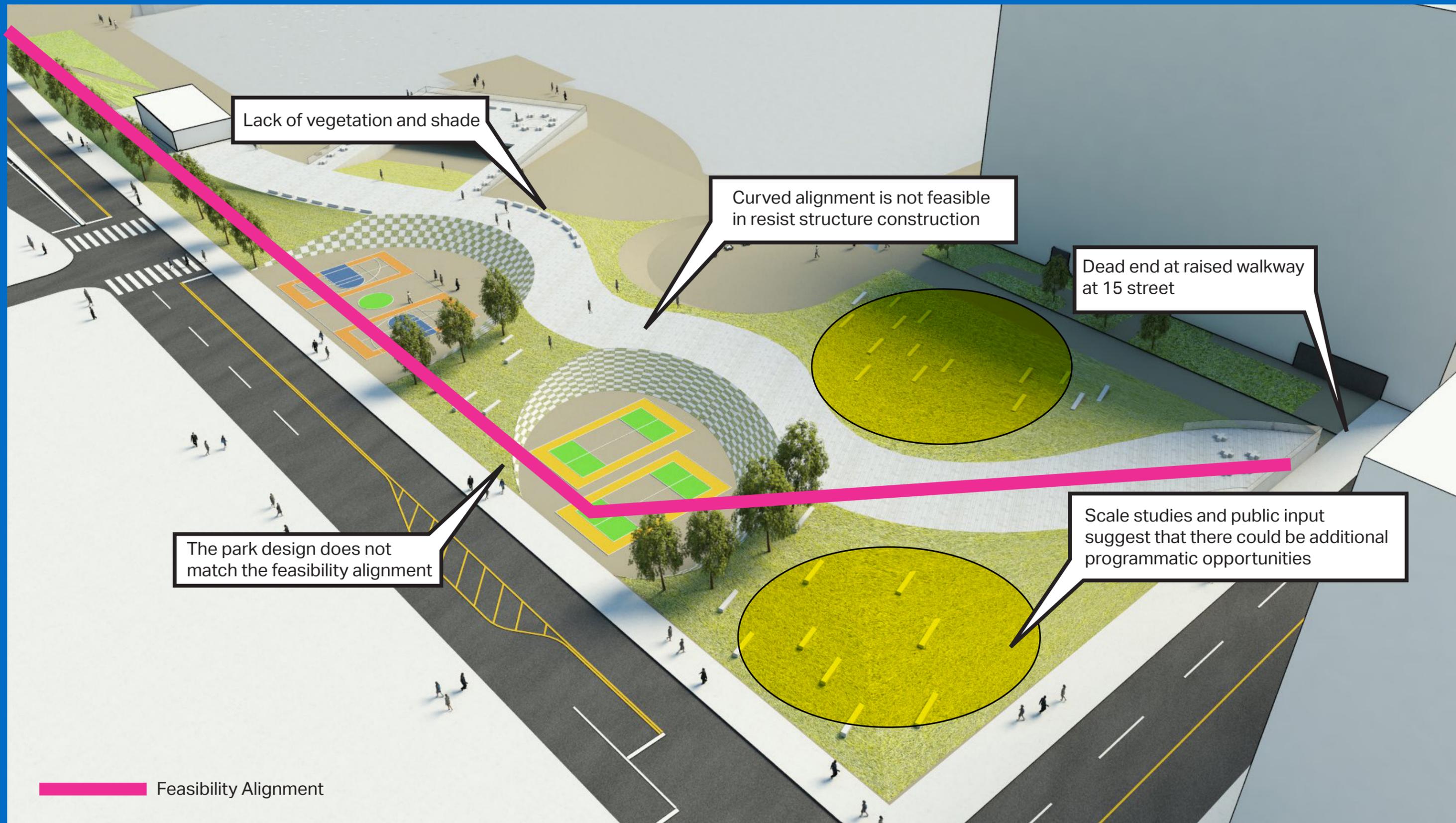
**DESIGN DEVELOPMENT  
DESIGN ZONE 2  
COVE PARK**

# COVE PARK PROJECT AREA



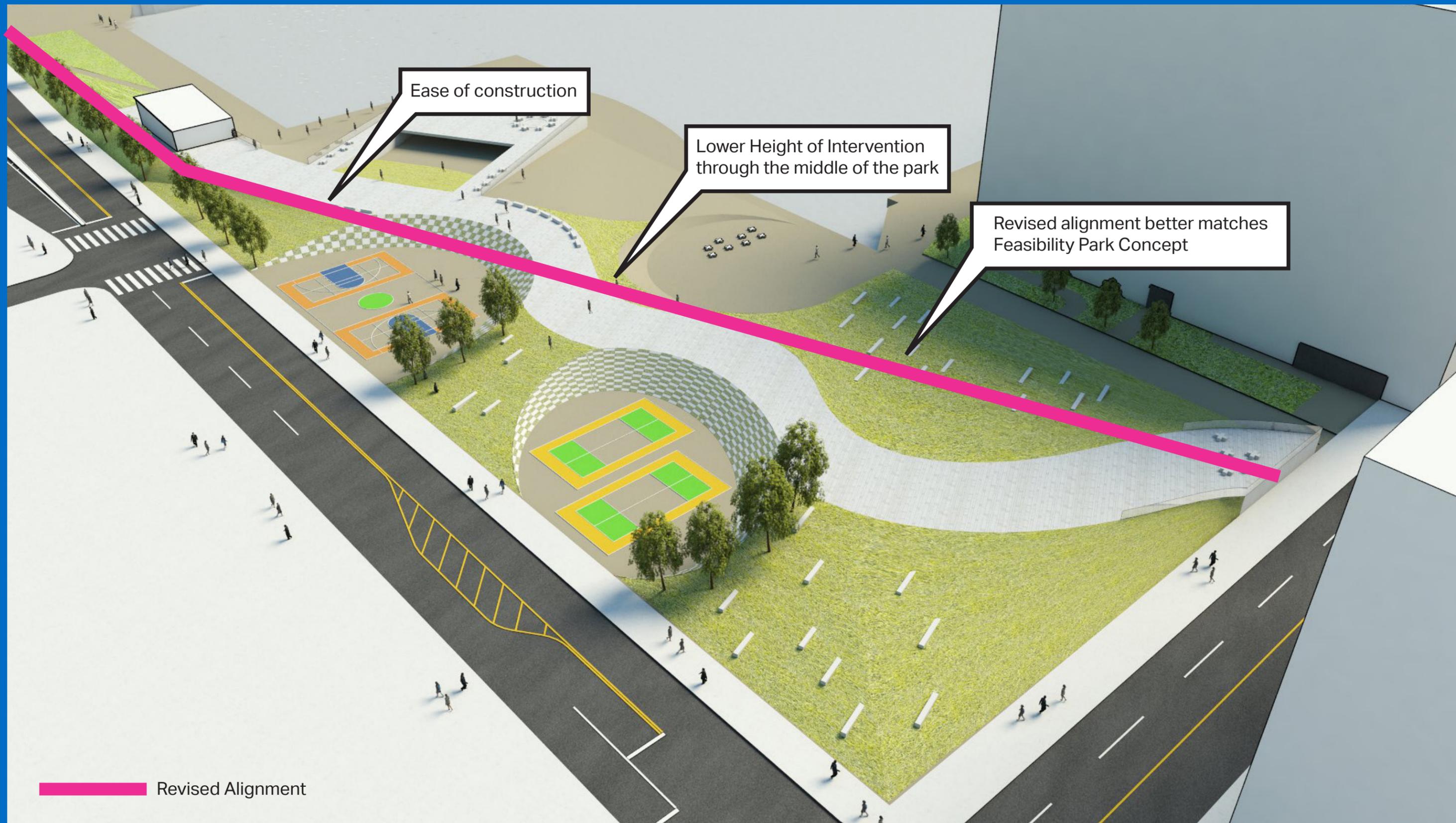
# FEASIBILITY STUDY

## COVE PARK



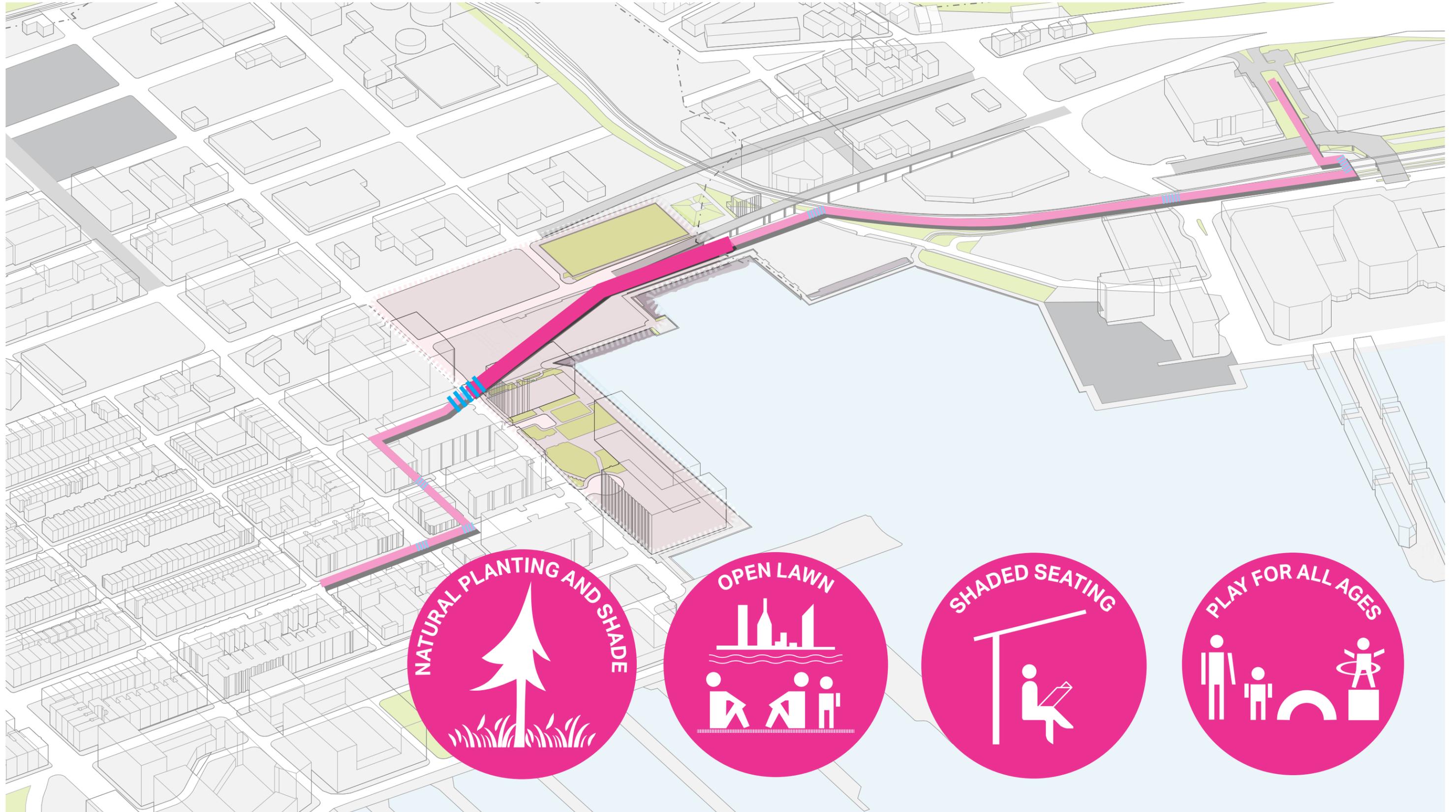
# FEASIBILITY STUDY

## COVE PARK



# PUBLIC INPUT TAKEAWAYS

## ZONE 2 - COVE PARK

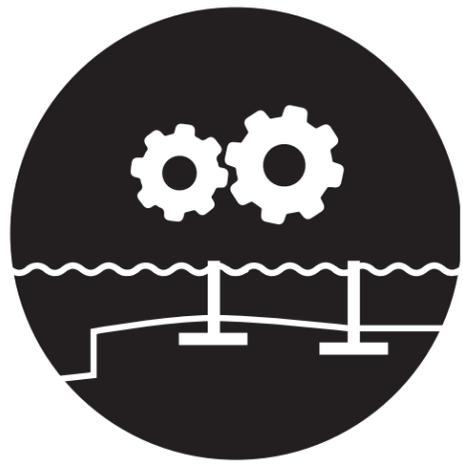


# ZONE 2 COVE PARK

## DESIGN OBJECTIVES



CONSTRUCTIBILITY  
& FEASIBILITY



RESILIENCE &  
SUSTAINABILITY



ACCESSIBILITY



VISUAL IMPACT



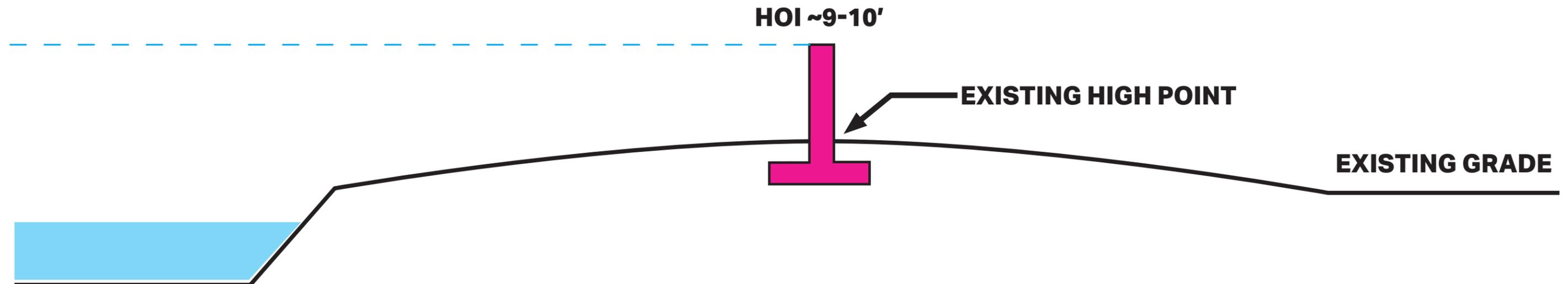
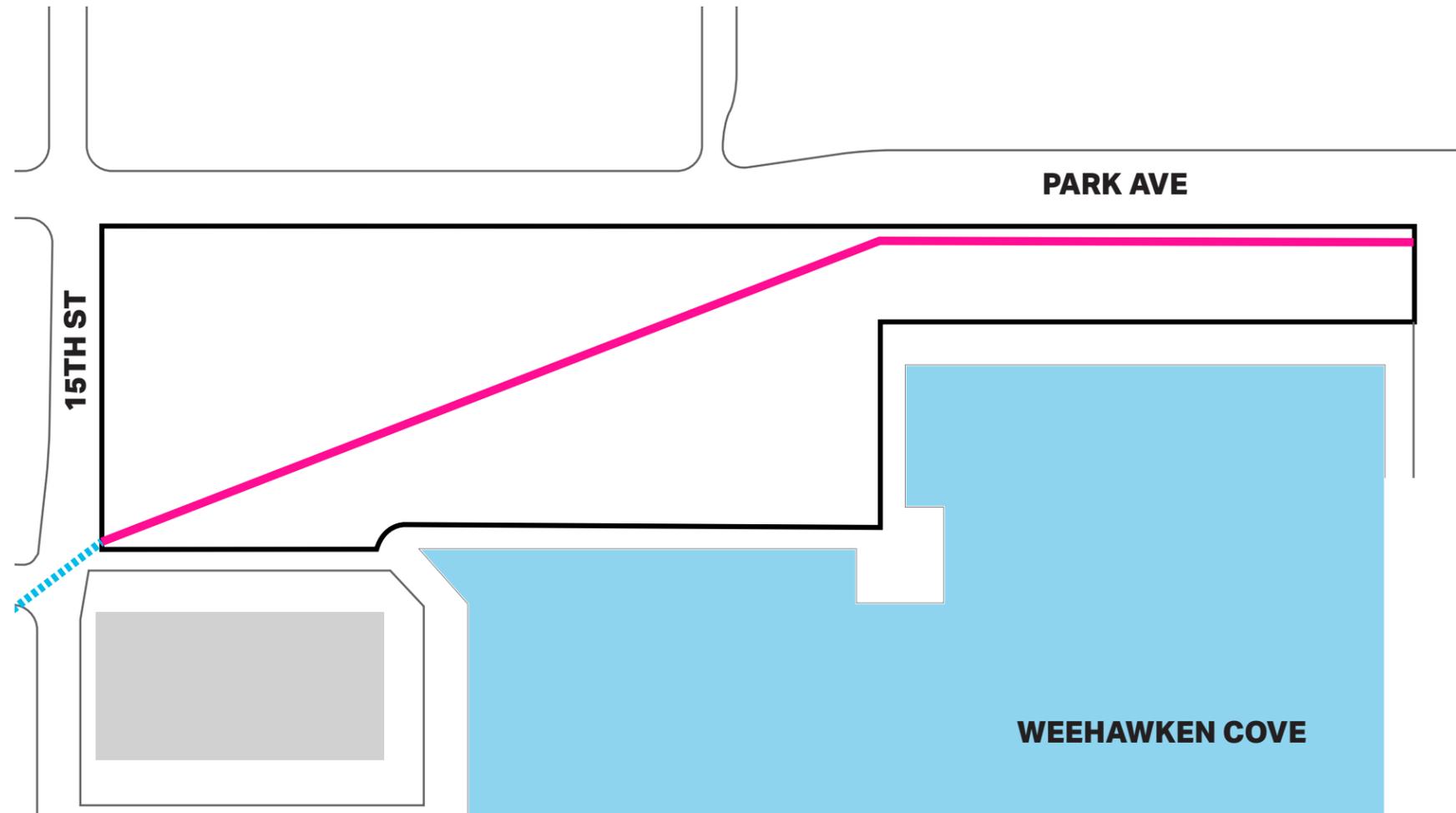
PROGRAM  
OPPORTUNITIES

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - CONSTRUCTABILITY & FEASIBILITY

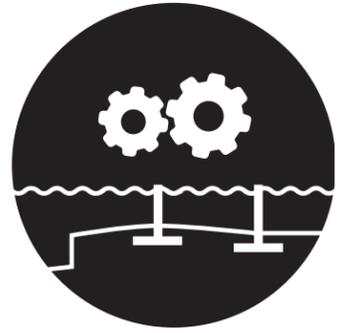


**CONSTRUCTIBILITY  
& FEASIBILITY**

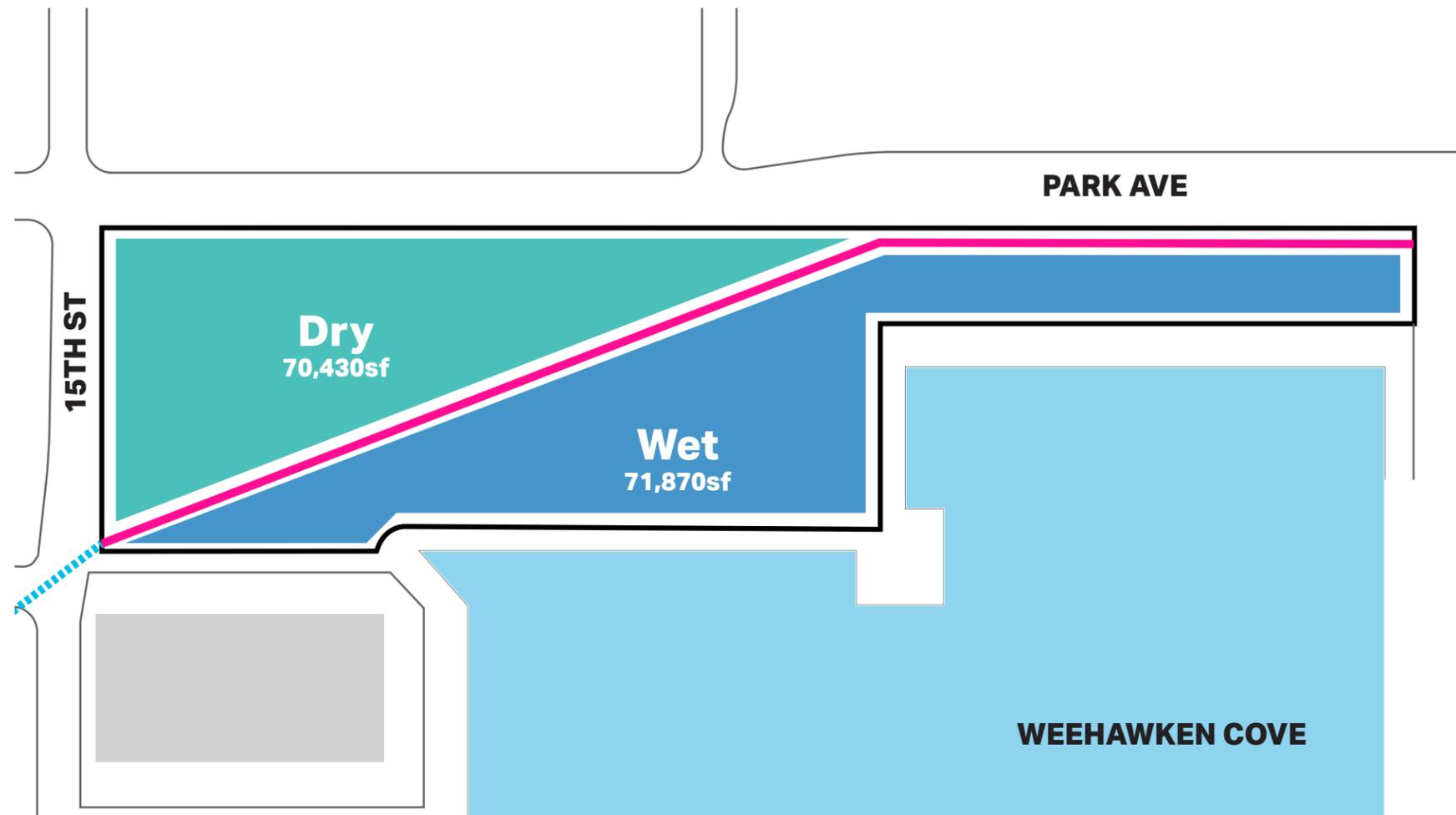


# ZONE 2 COVE PARK

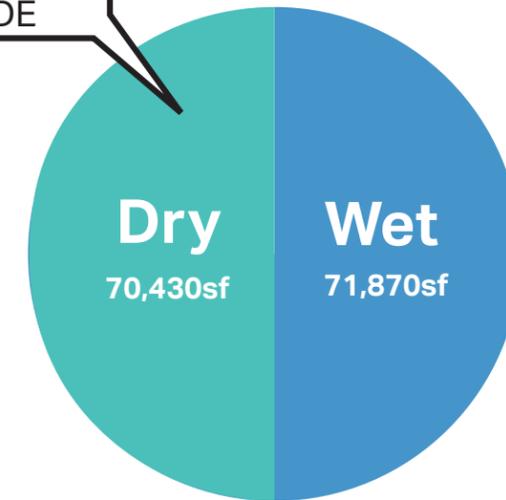
## DESIGN OBJECTIVES - RESILIENCE & SUSTAINABILITY



RESILIENCY &  
SUSTAINABILITY



50% OF  
INVESTMENT ON  
DRY SIDE



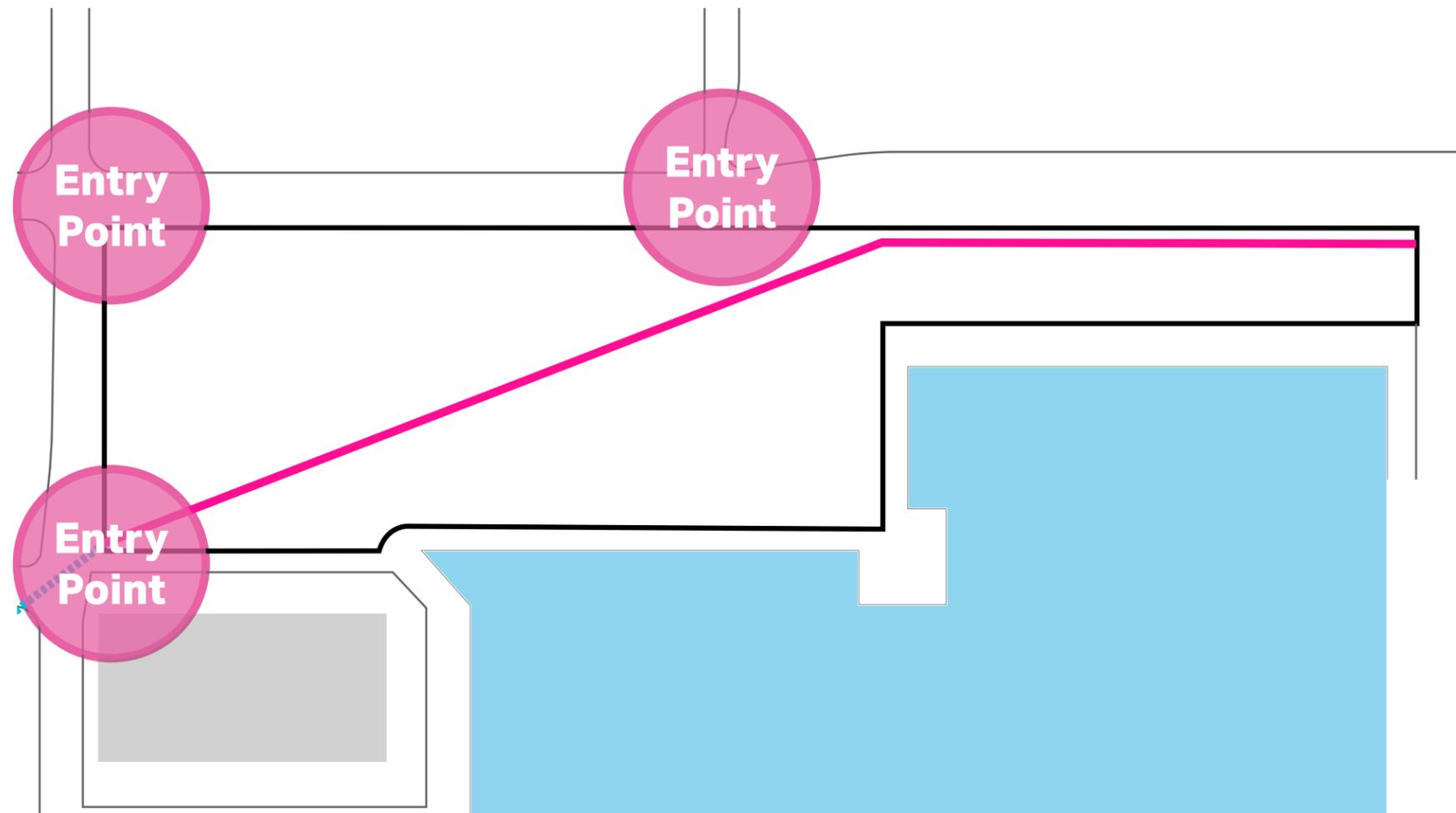
- + LOWER LONG TERM O+M COSTS
- + FASTER BOUNCE BACK AFTER EVENT

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - ACCESS + ENTRY POINTS



ACCESSIBILITY



### + COMMUNITY INPUT IDENTIFIED CRITICAL ENTRY POINTS FOR THE PARK

16TH STREET & PARK AVE

15TH STREET & PARK AVE

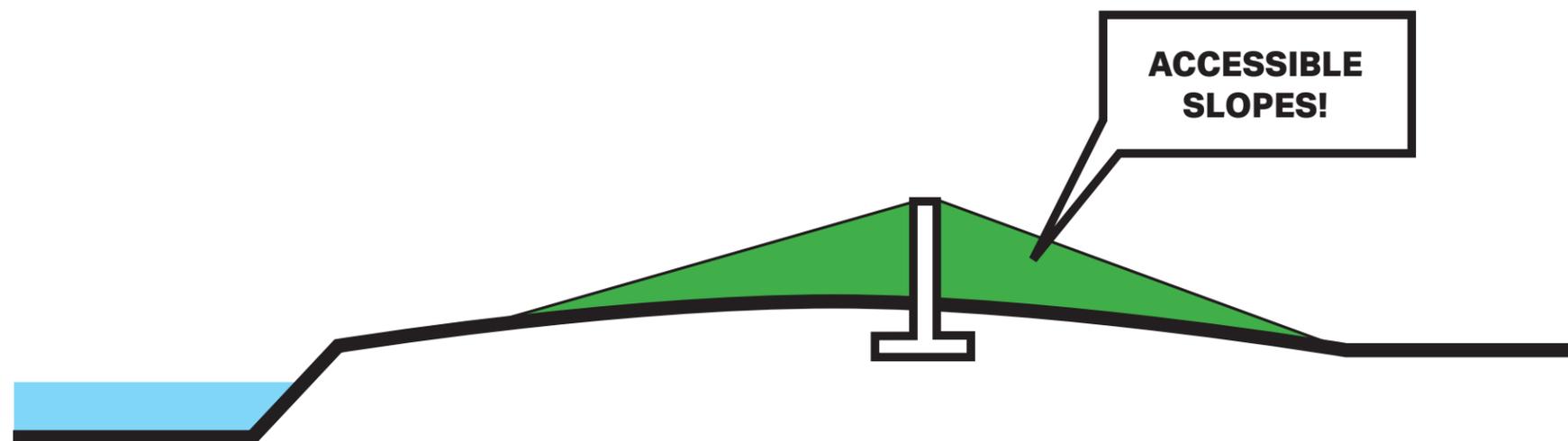
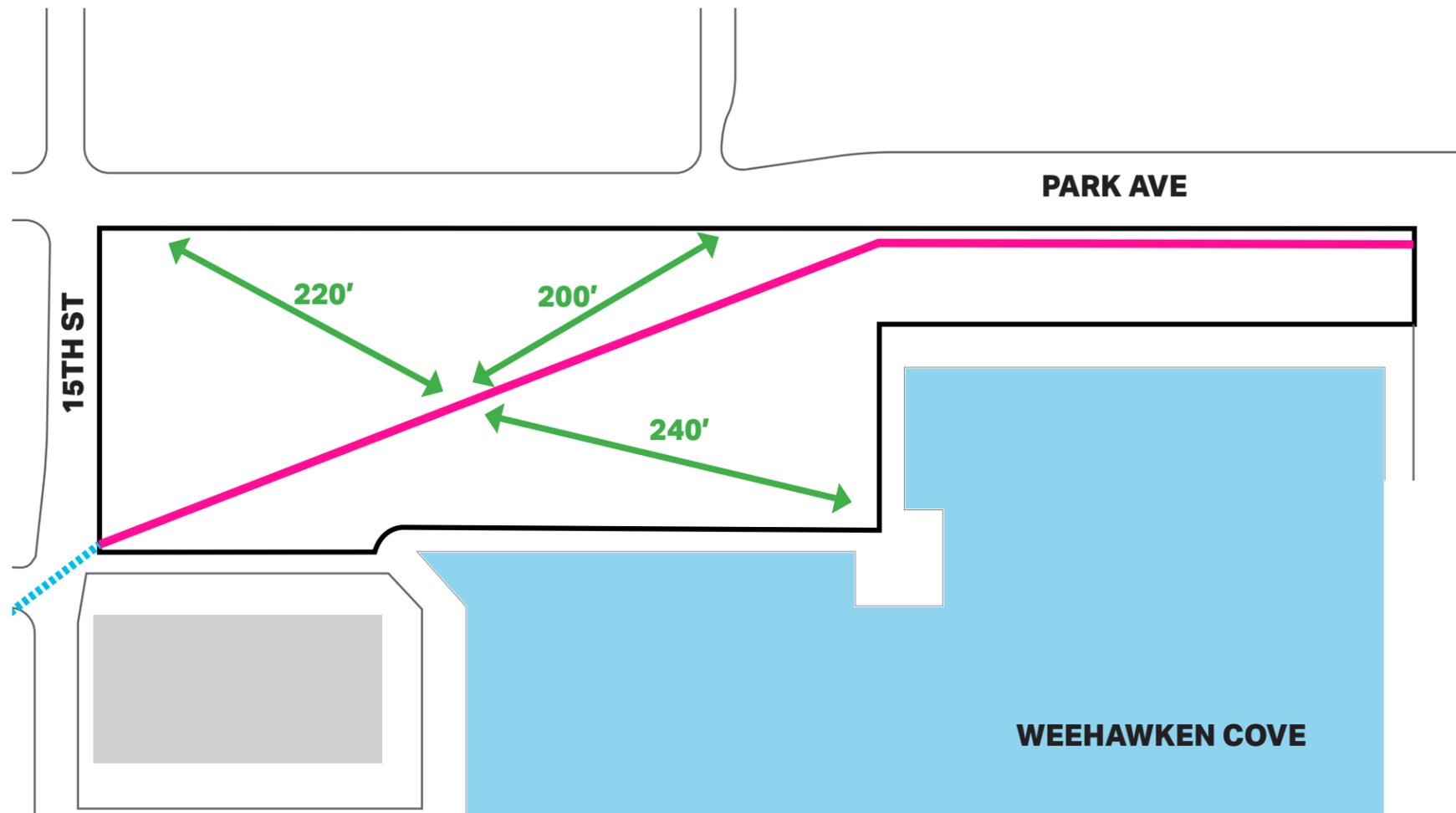
15TH STREET & GARDEN STREET

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - ACCESS



ACCESSIBILITY

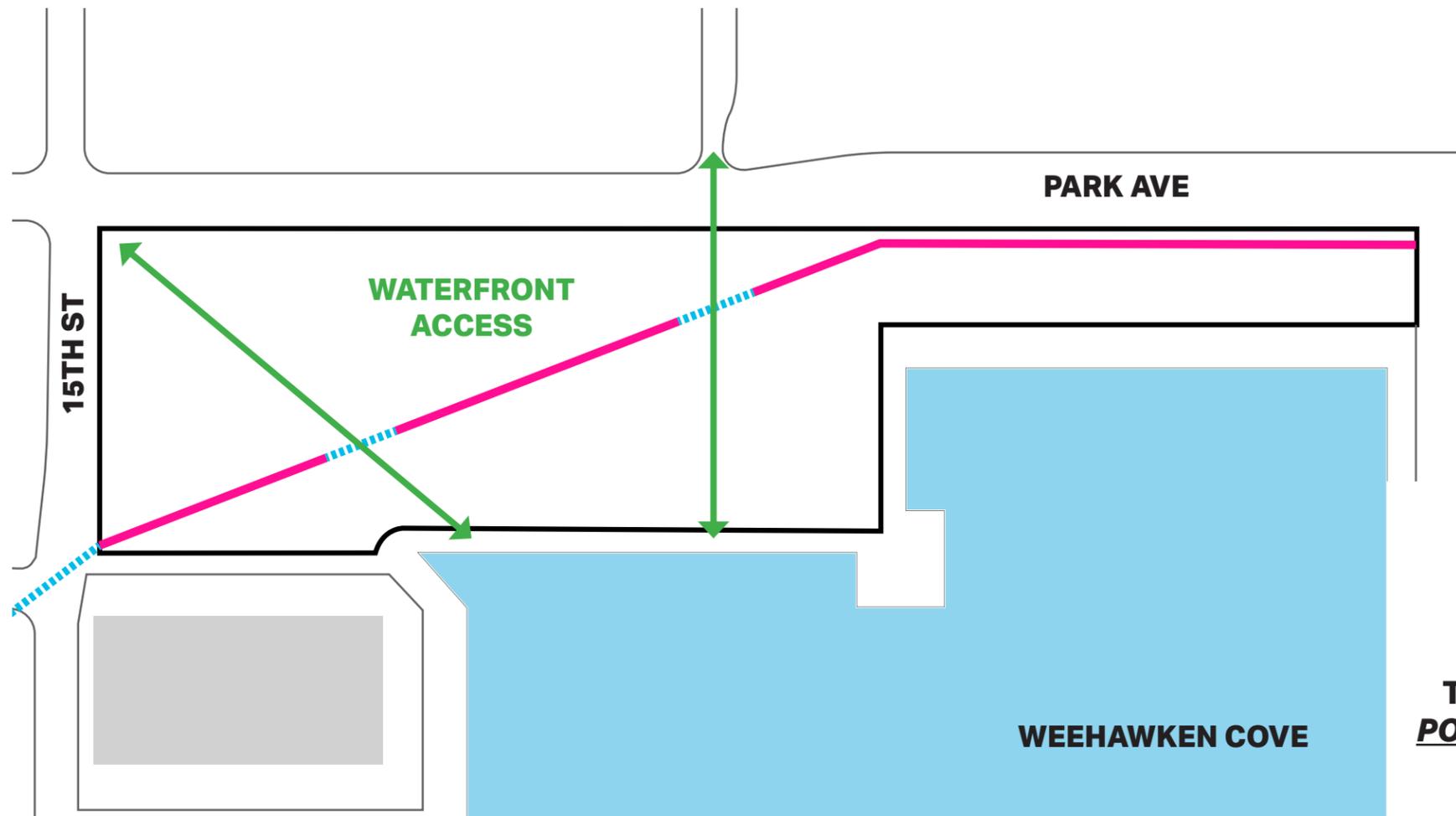


# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - ACCESS



ACCESSIBILITY



THE DESIGN TEAM IS *INVESTIGATING THE POSSIBILITY* OF ADDING ADDITIONAL GATES AT STRATEGIC LOCATIONS WITHIN THE PARK.

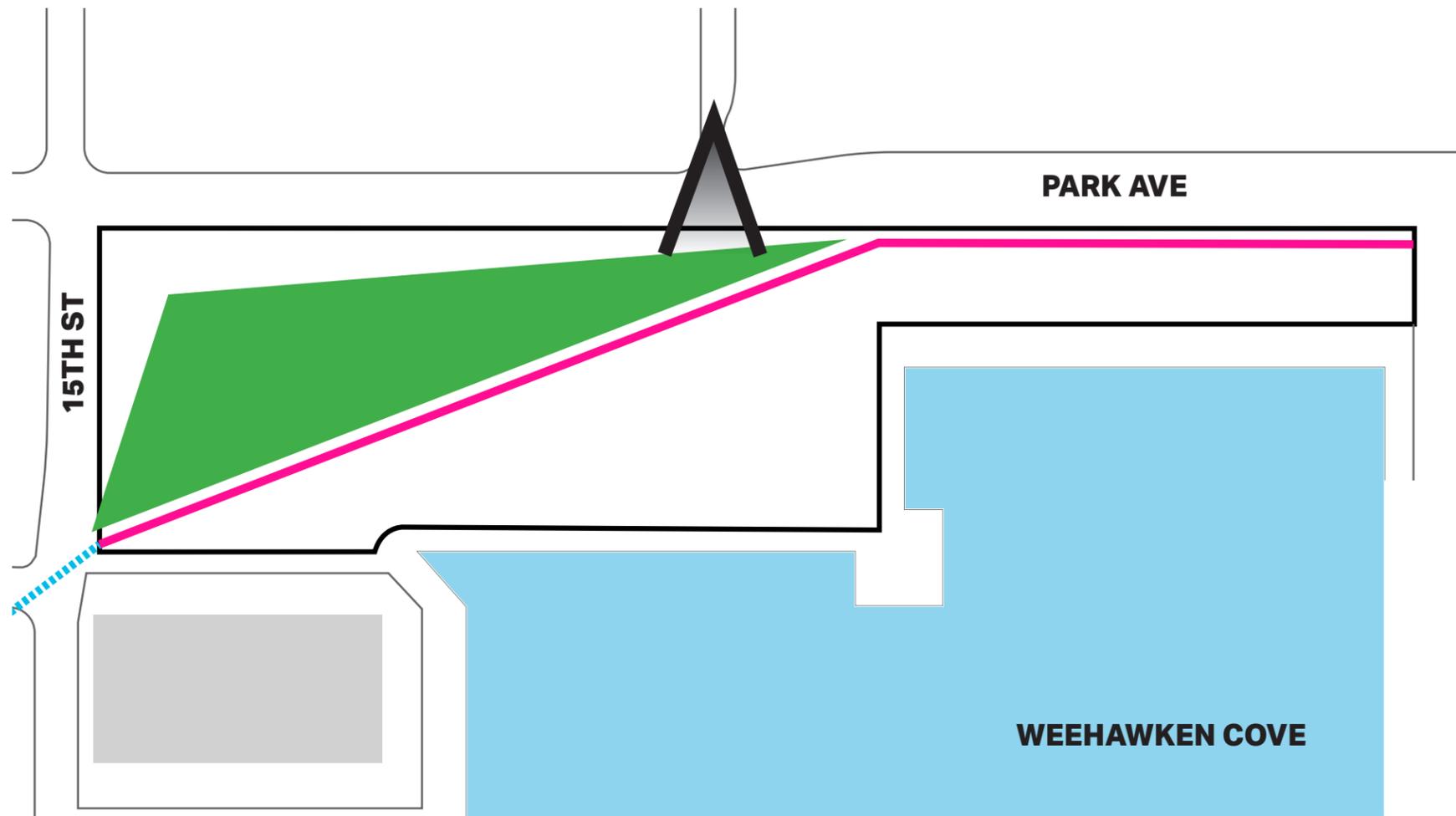
- + EASE OF ACCESS AT CRITICAL POINTS IDENTIFIED BY COMMUNITY INPUT
- + ADDED POROSITY AND CONNECTION TO THE WATERFRONT

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - VISUAL IMPACT



VISUAL IMPACT



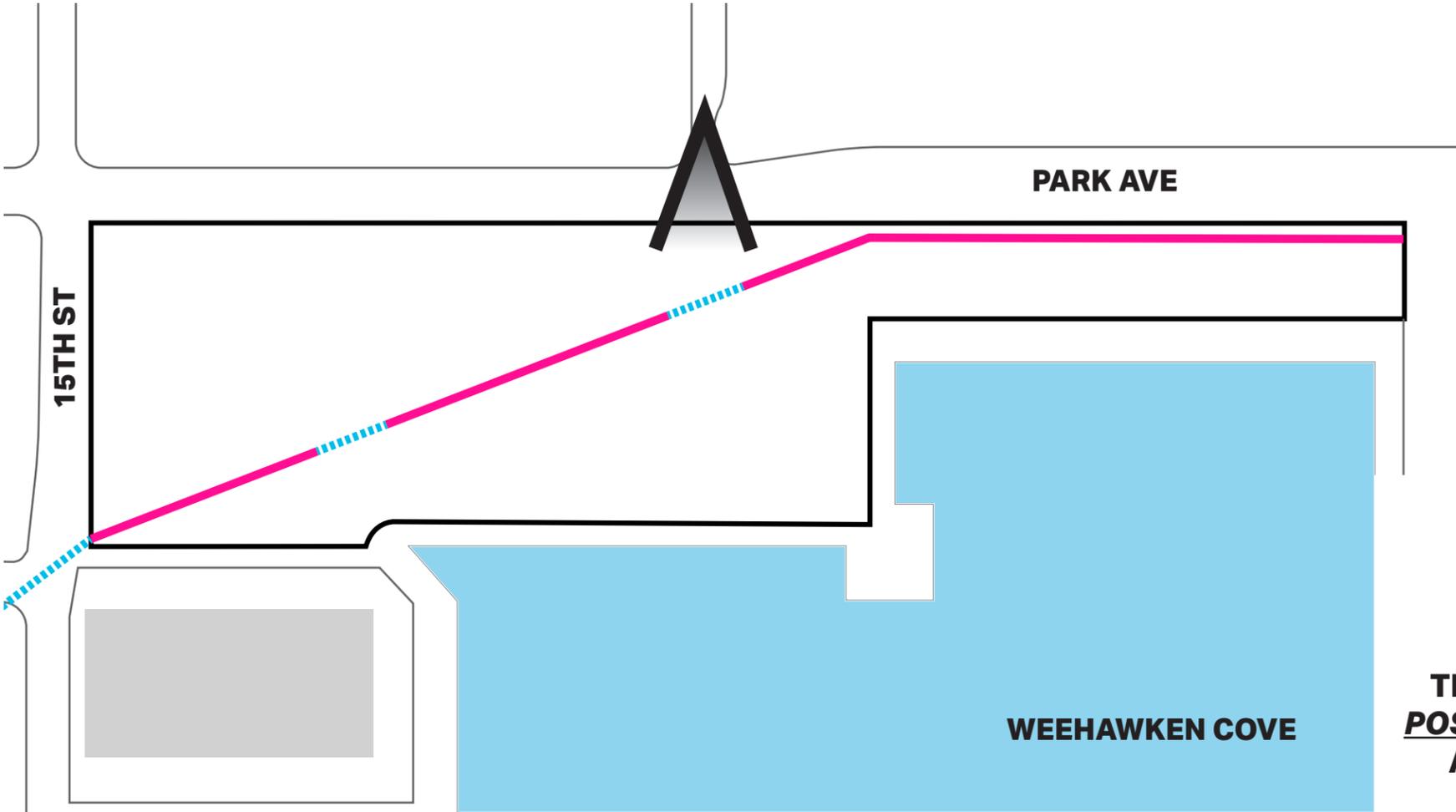
PUBLIC MEETING 02

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - VISUAL IMPACT



VISUAL IMPACT



**THE DESIGN TEAM IS *INVESTIGATING THE POSSIBILITY* OF ADDING ADDITIONAL GATES AT STRATEGIC LOCATIONS WITHIN THE PARK.**



PUBLIC MEETING 02



AECOM

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - PROGRAMMATIC OPPORTUNITIES: SCALE STUDY



PROGRAM OPPORTUNITIES

CHURCH SQUARE



SINATRA PARK



PIER 13



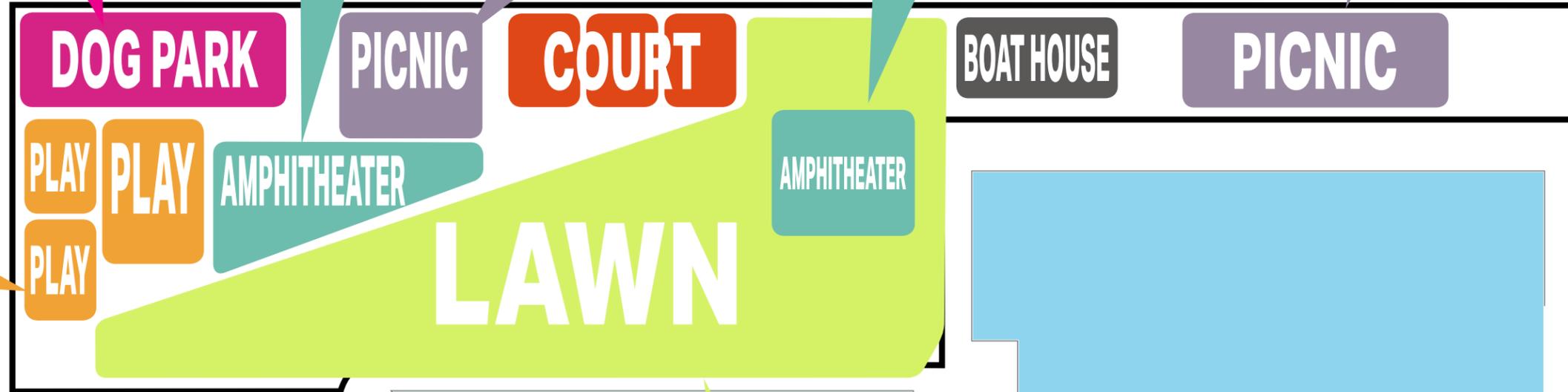
NEWPORT GREEN PARK



BROOKLYN BRIDGE PARK



PIER C



PIER A

- Amphitheater
- Dog Park
- Multipurpose Court
- Playground
- Lawn
- Picnic
- Boat House

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - PROGRAMMATIC OPPORTUNITIES: SCALE STUDY



**PROGRAM OPPORTUNITIES**



- Amphitheater
- Garden
- Outlook
- Dog Park
- Multipurpose Court
- Playground
- Lawn
- Picnic
- Boat House

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - PROGRAMMATIC OPPORTUNITIES



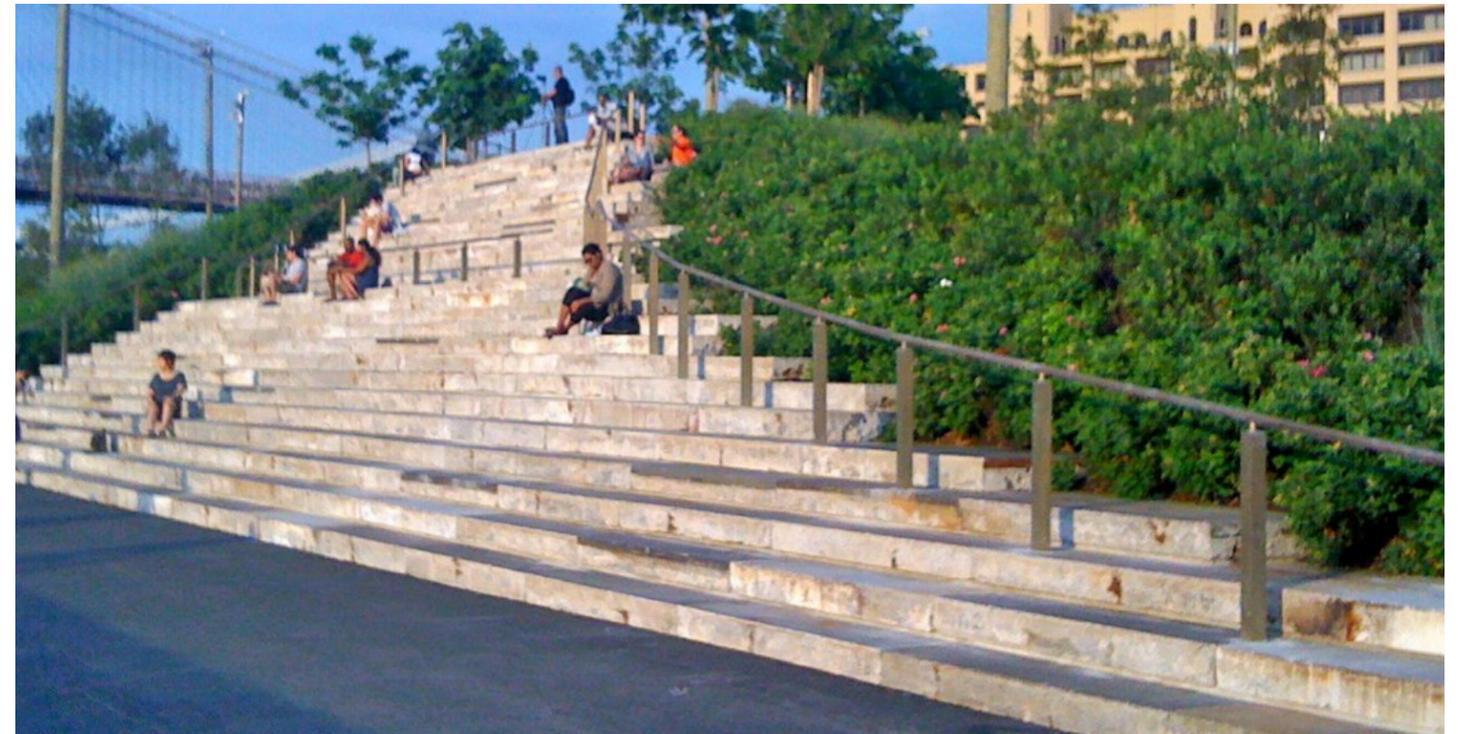
LAWN



PATHS



PICNIC/ BBQ AREA



AMPHITHEATER

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - PROGRAMMATIC OPPORTUNITIES



**NATIVE PLANTING / GARDENS**



**SHADE**



**DOG PARK**



**PLAZA**

# ZONE 2 COVE PARK

## DESIGN OBJECTIVES - PROGRAMMATIC OPPORTUNITIES



ELEVATED PATHS / OUTLOOK



SEATING AREA



PLAYGROUND



SPORTS COURT

# ZONE 2 COVE PARK

## DESIGN VISIONS

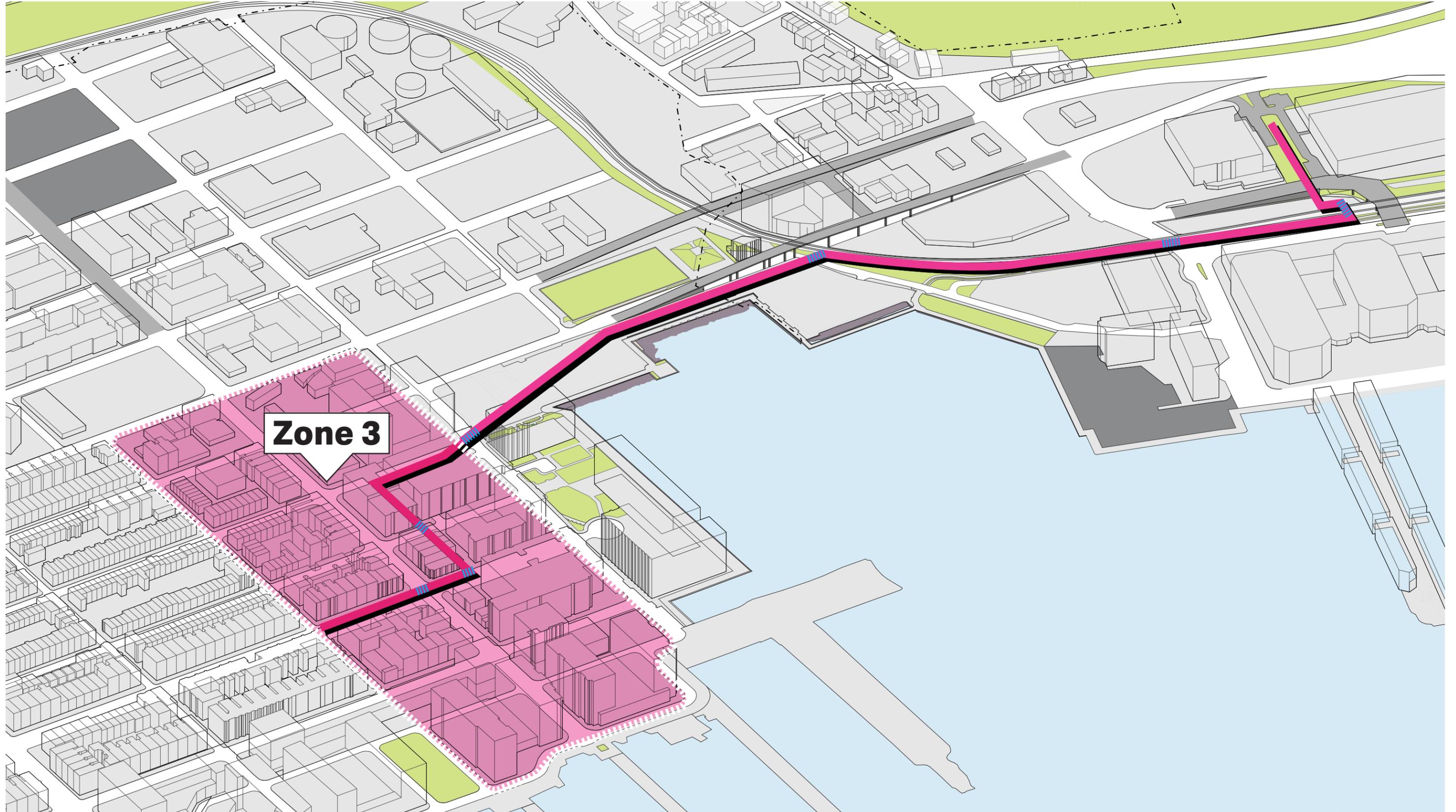


PLEASE STOP AT THE BACK OF THE ROOM AFTER THE MEETING TO SEE THE IN PROCESS DESIGN IDEAS THE TEAM IS WORKING ON!

**DESIGN DEVELOPMENT**  
**DESIGN ZONE 3**  
**WASHINGTON ST, ALLEYWAY &**  
**GARDEN ST**

# RESIST NORTH

## PROJECT ZONES



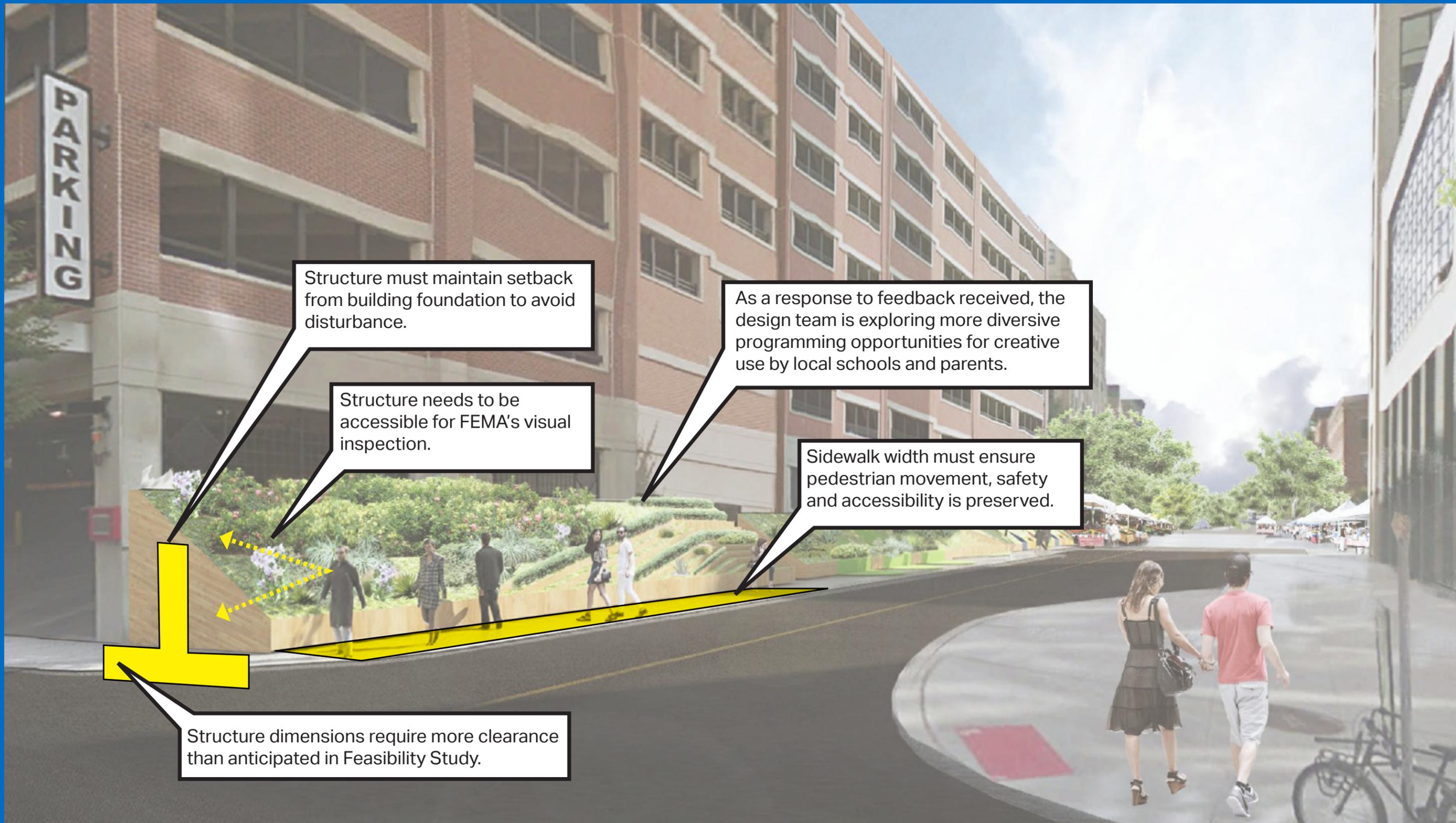
# FEASIBILITY STUDY

## DESIGN TOOLKIT



# FEASIBILITY STUDY

## DESIGN TOOLKIT



Structure must maintain setback from building foundation to avoid disturbance.

Structure needs to be accessible for FEMA's visual inspection.

As a response to feedback received, the design team is exploring more diverse programming opportunities for creative use by local schools and parents.

Sidewalk width must ensure pedestrian movement, safety and accessibility is preserved.

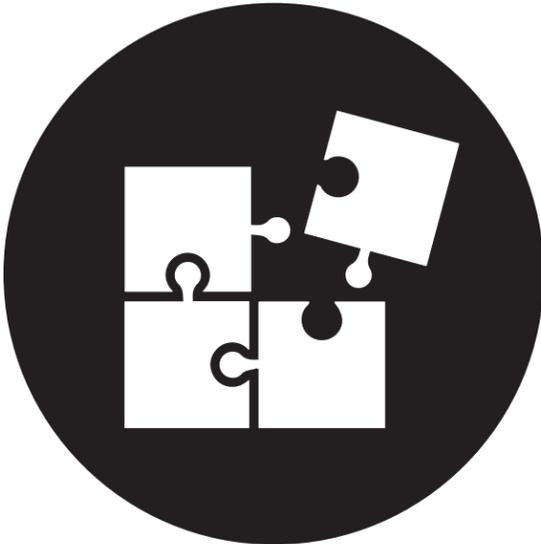
Structure dimensions require more clearance than anticipated in Feasibility Study.

# ZONE 1 & 3 DESIGN OBJECTIVES

## PUBLIC INPUT AND TECHNICAL UPDATE INFORMING DESIGN DEVELOPMENT



STRUCTURE INTEGRITY  
& EASY INSPECTION



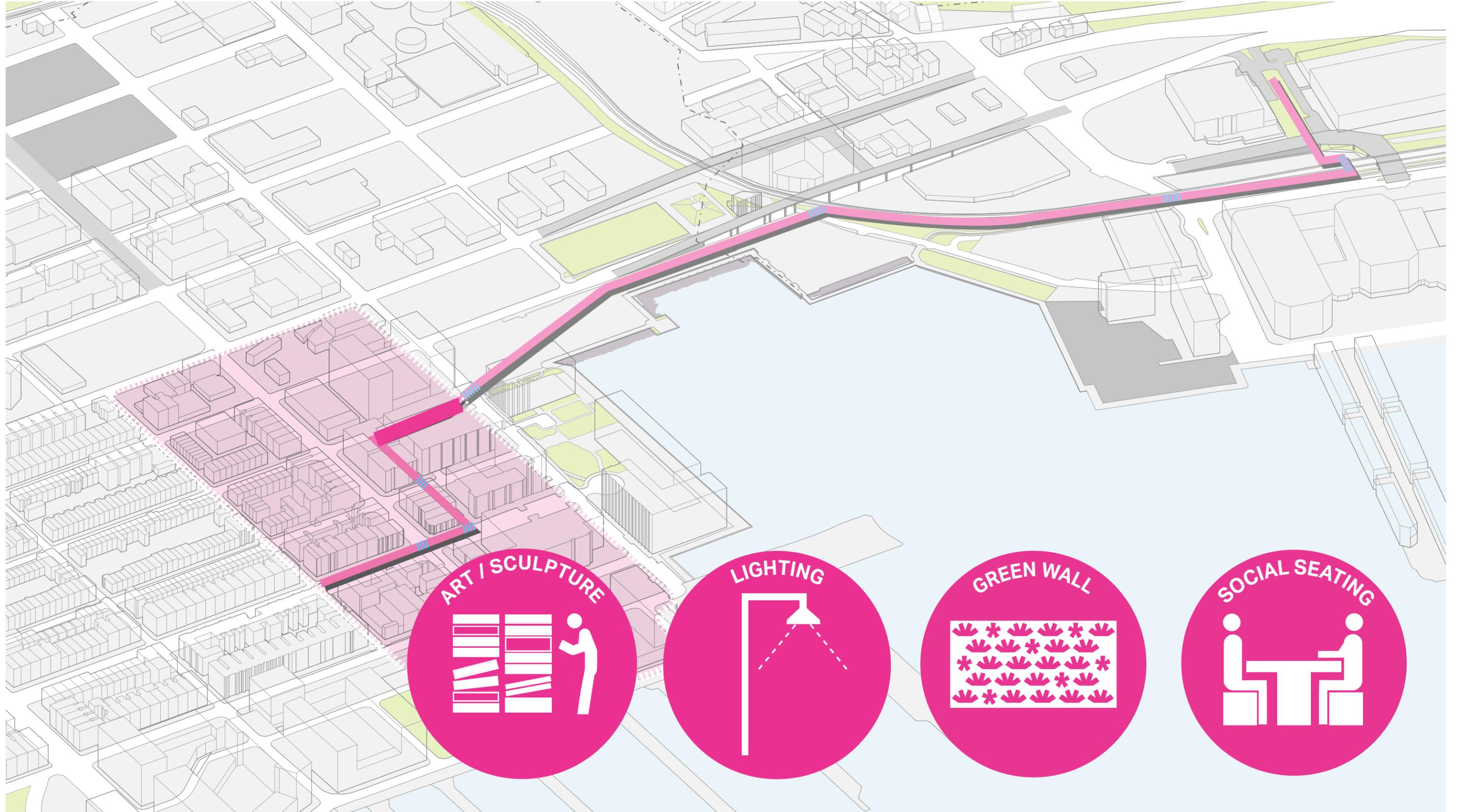
PROGRAM FLEXIBILITY



INTEGRATION TO  
THE CONTEXT

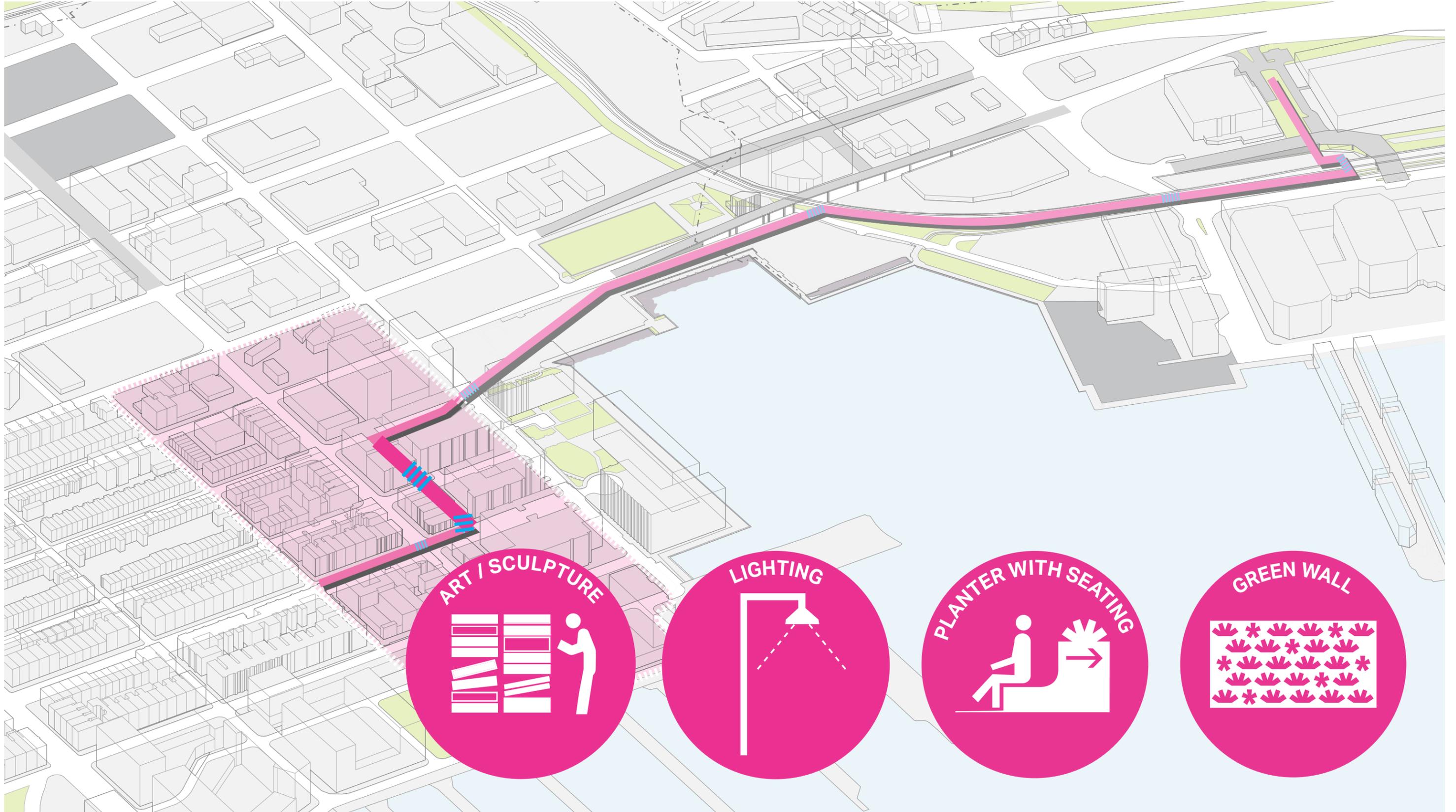
# PUBLIC INPUT TAKEAWAYS

## ZONE 3 - GARDEN STREET



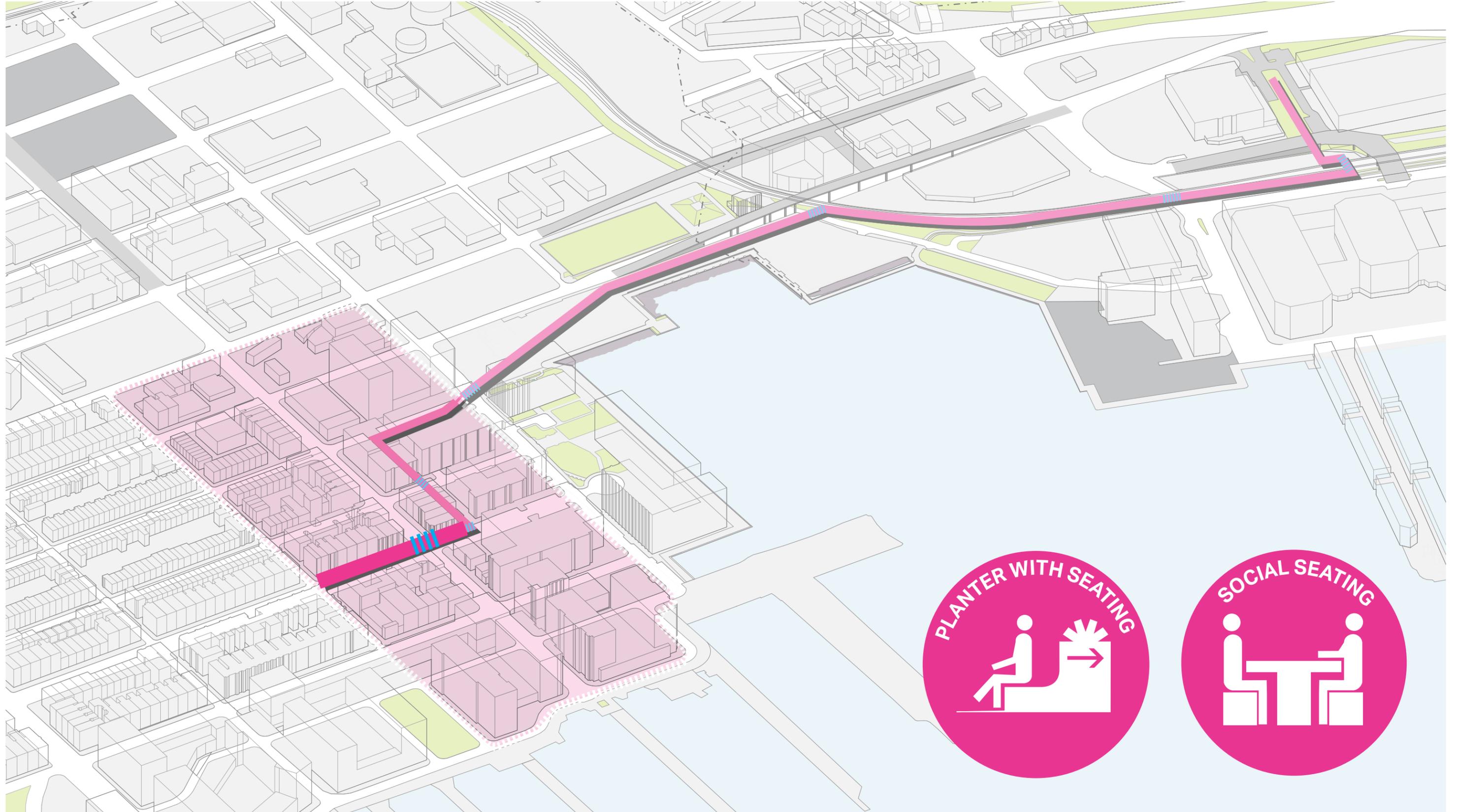
# PUBLIC INPUT TAKEAWAYS

## ZONE 3 - ALLEYWAYS



# PUBLIC INPUT TAKEAWAYS

## ZONE 3 - WASHINGTON STREET

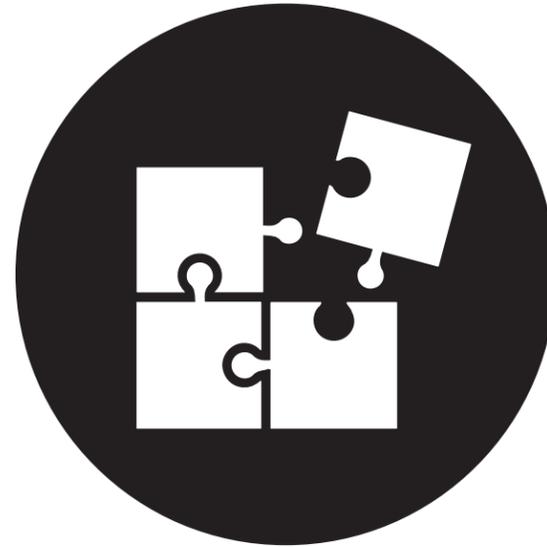


# ZONE 3 DESIGN OBJECTIVES

## PUBLIC INPUT AND TECHNICAL UPDATE INFORMING DESIGN DEVELOPMENT



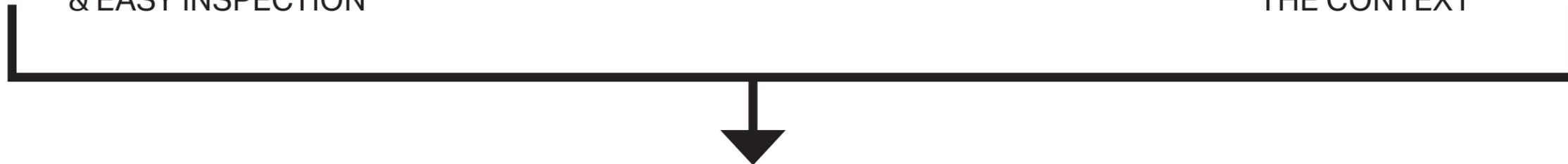
STRUCTURE INTEGRITY  
& EASY INSPECTION



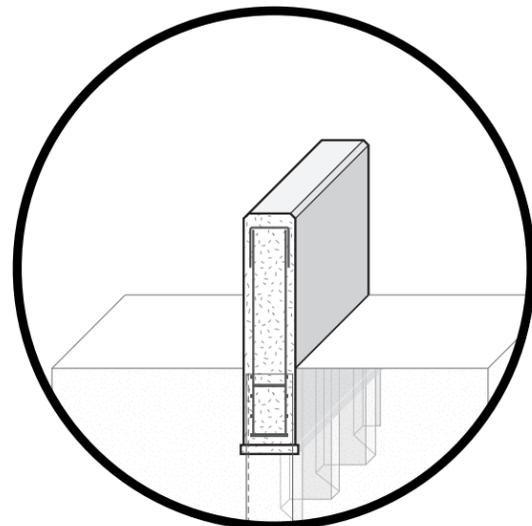
PROGRAM FLEXIBILITY



INTEGRATION TO  
THE CONTEXT



I-Resist Structure



+

Art



Texture



Lighting



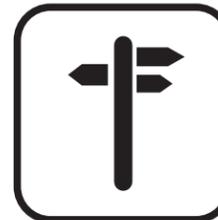
Seating



Bike Rack



Signage



Planting

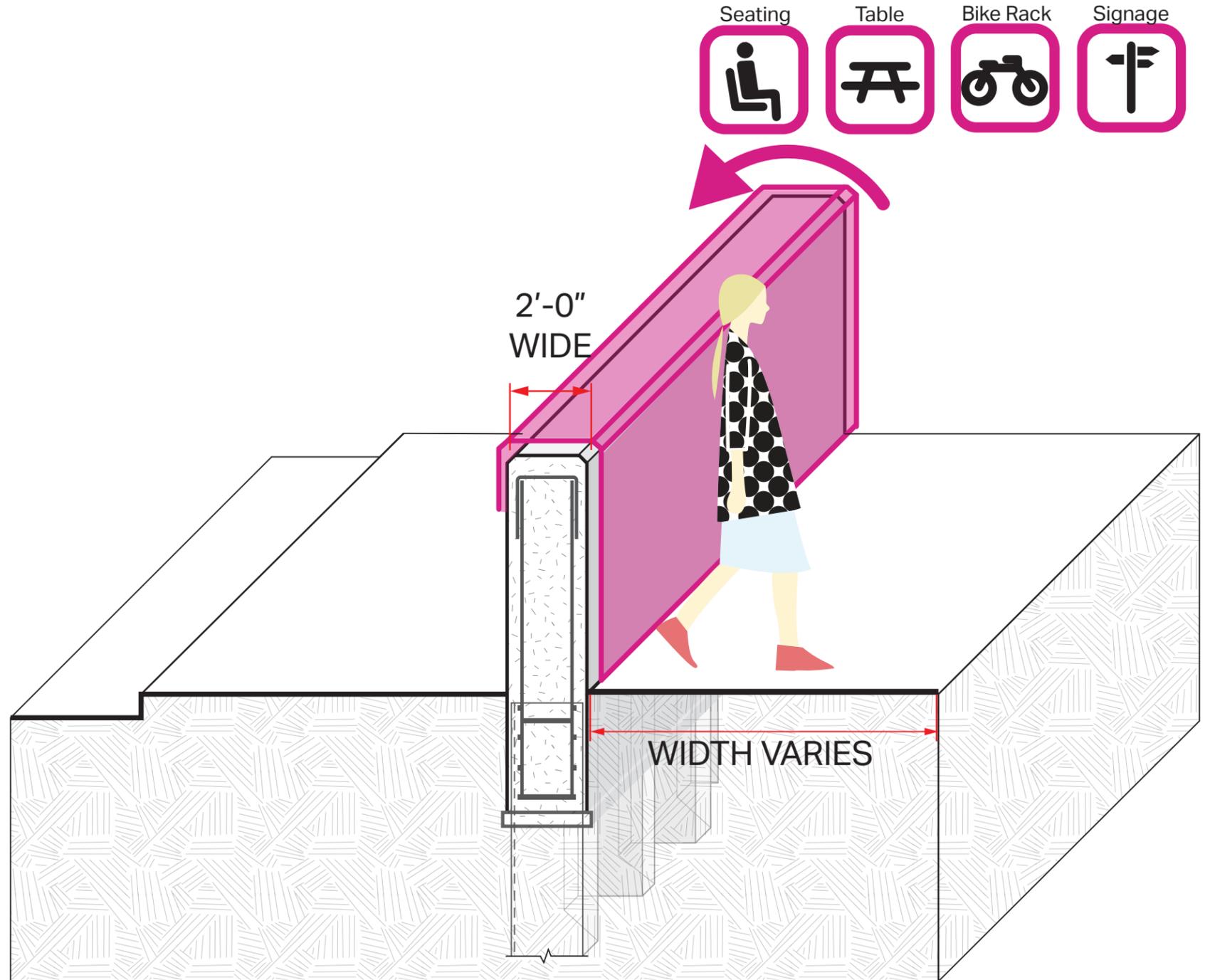


Table



# ALIGNMENT DESIGN METHODS

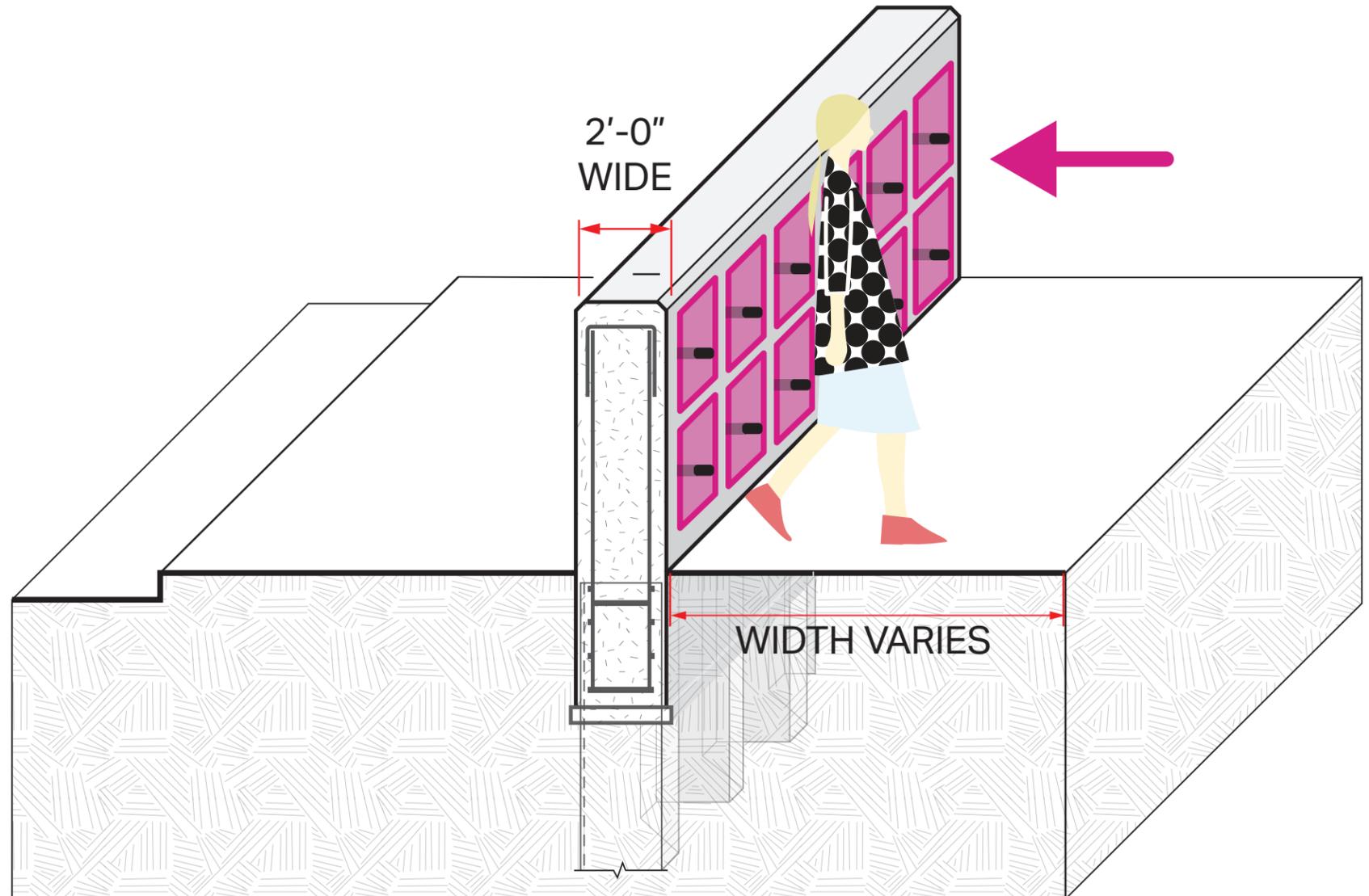
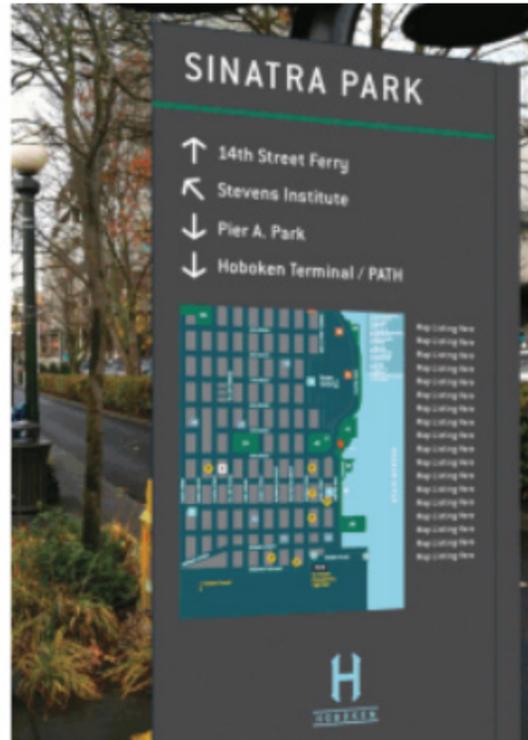
## ZONE 3 I-RESIST STRUCTURE - WRAP



### METHOD: WRAP IMPLEMENTING TOOLKIT

# ALIGNMENT DESIGN METHODS

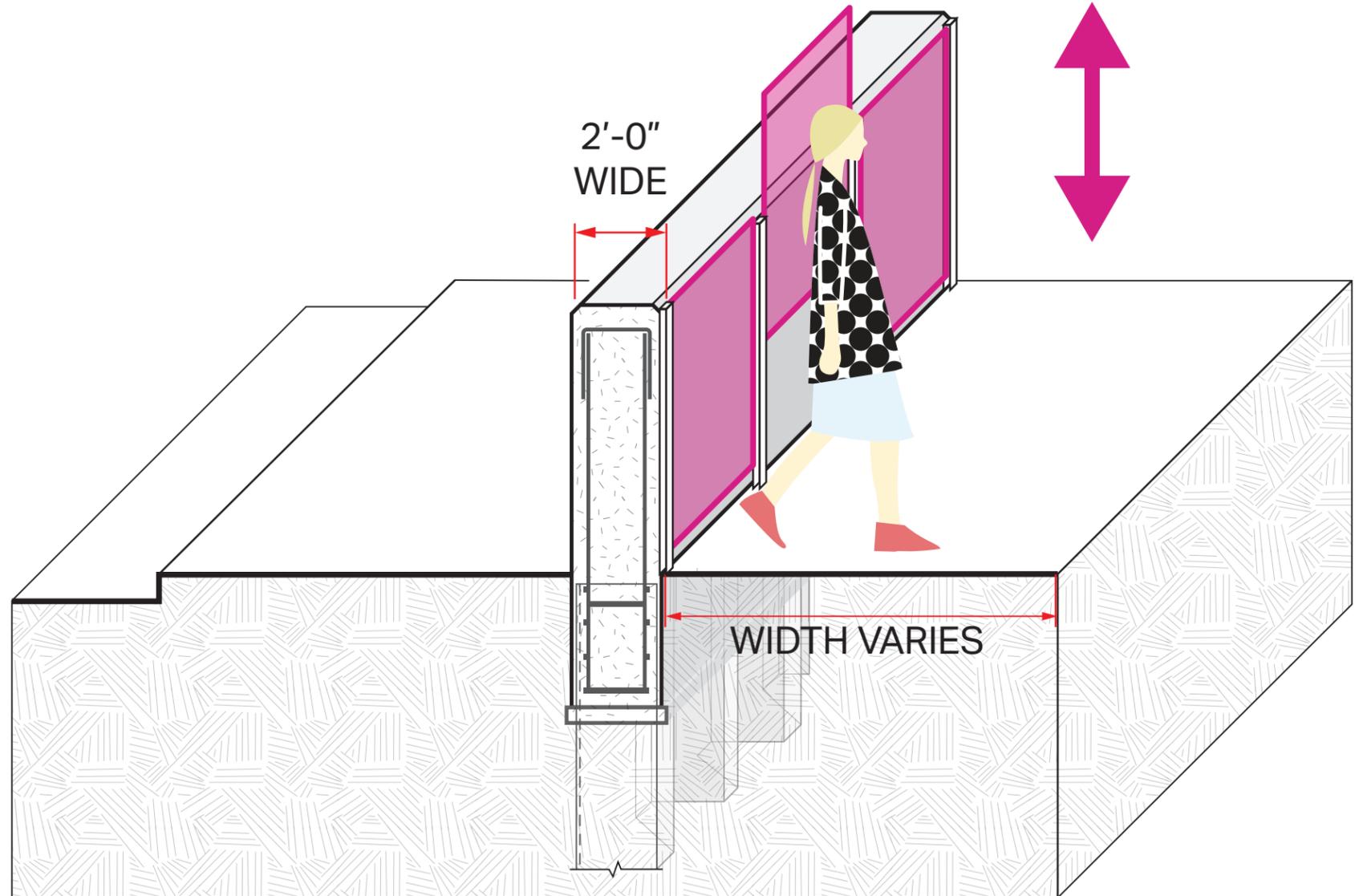
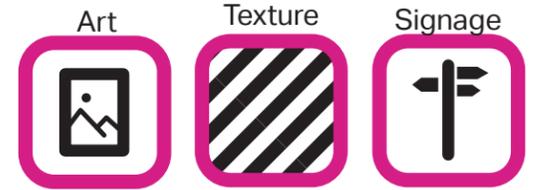
## ZONE 3 I-RESIST STRUCTURE - ATTACH



**METHOD: ATTACH**  
**IMPLEMENTING TOOLKIT**

# ALIGNMENT DESIGN METHODS

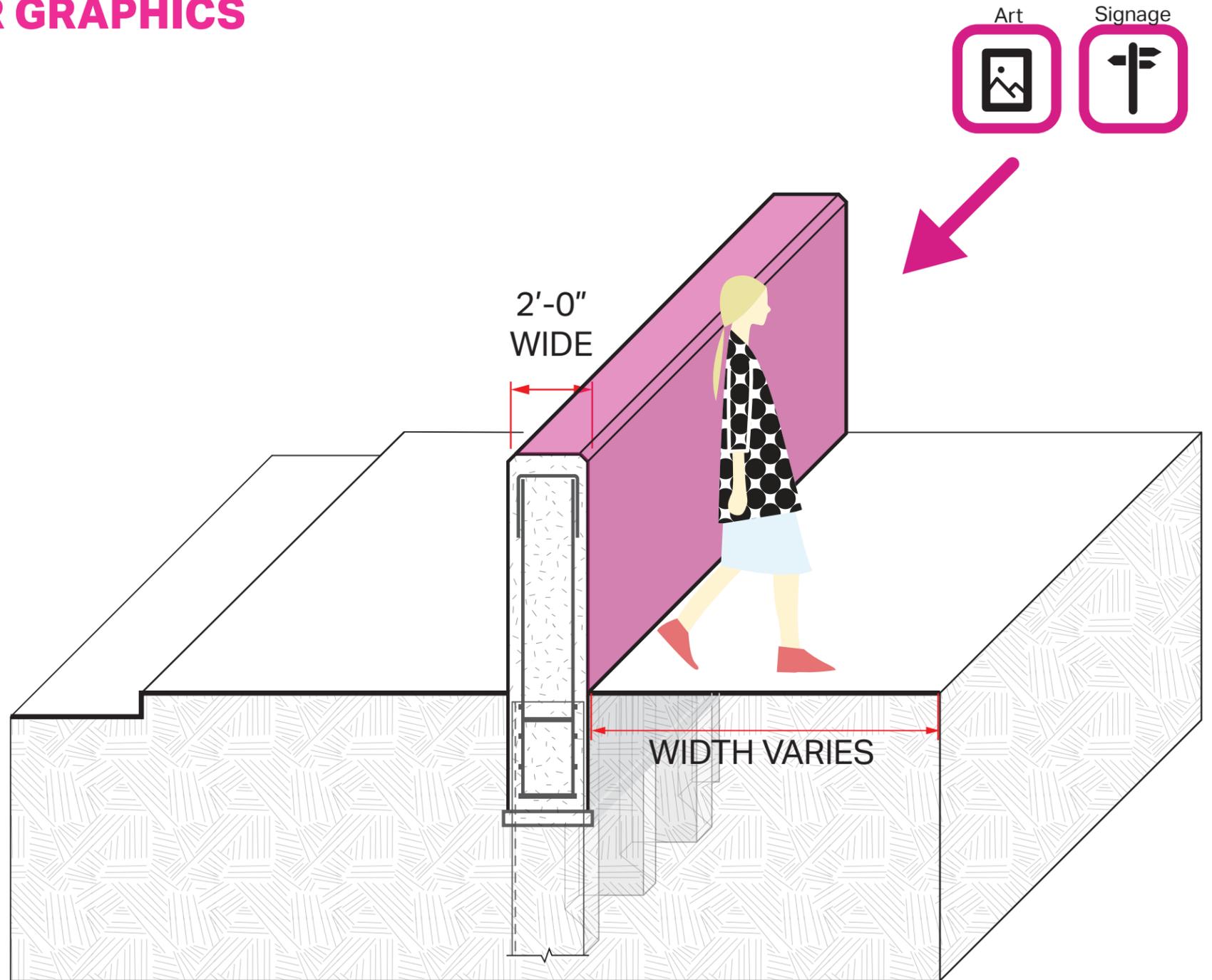
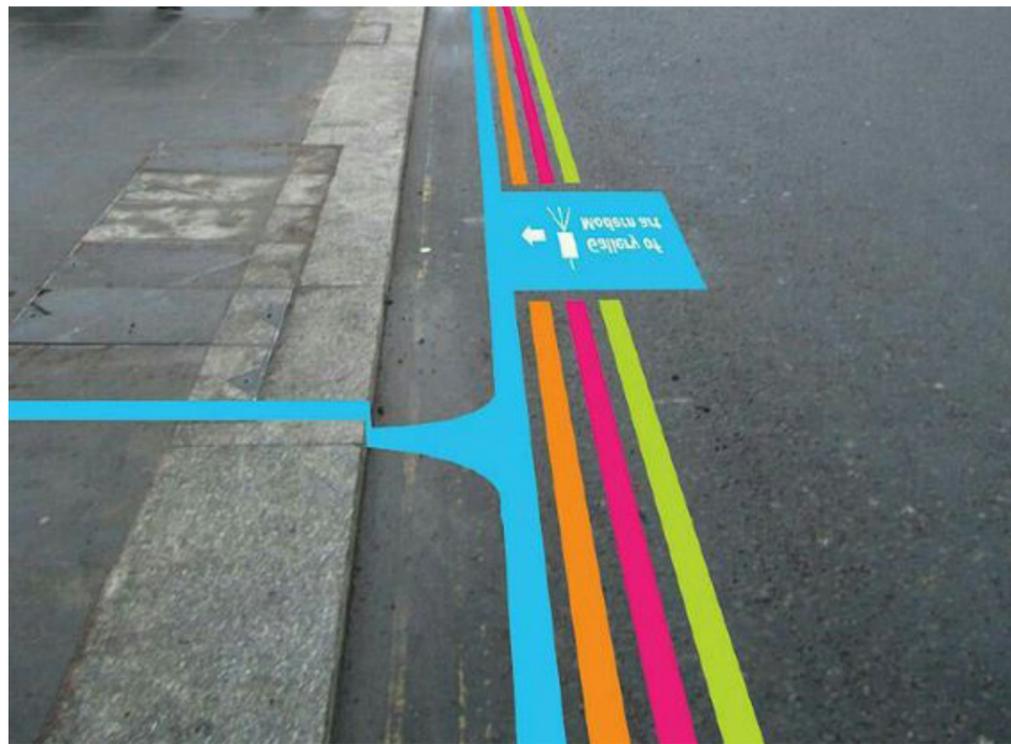
## ZONE 3 I-RESIST STRUCTURE - SLIDE



**METHOD: SLIDE**  
**IMPLEMENTING TOOLKIT**

# ALIGNMENT DESIGN METHODS

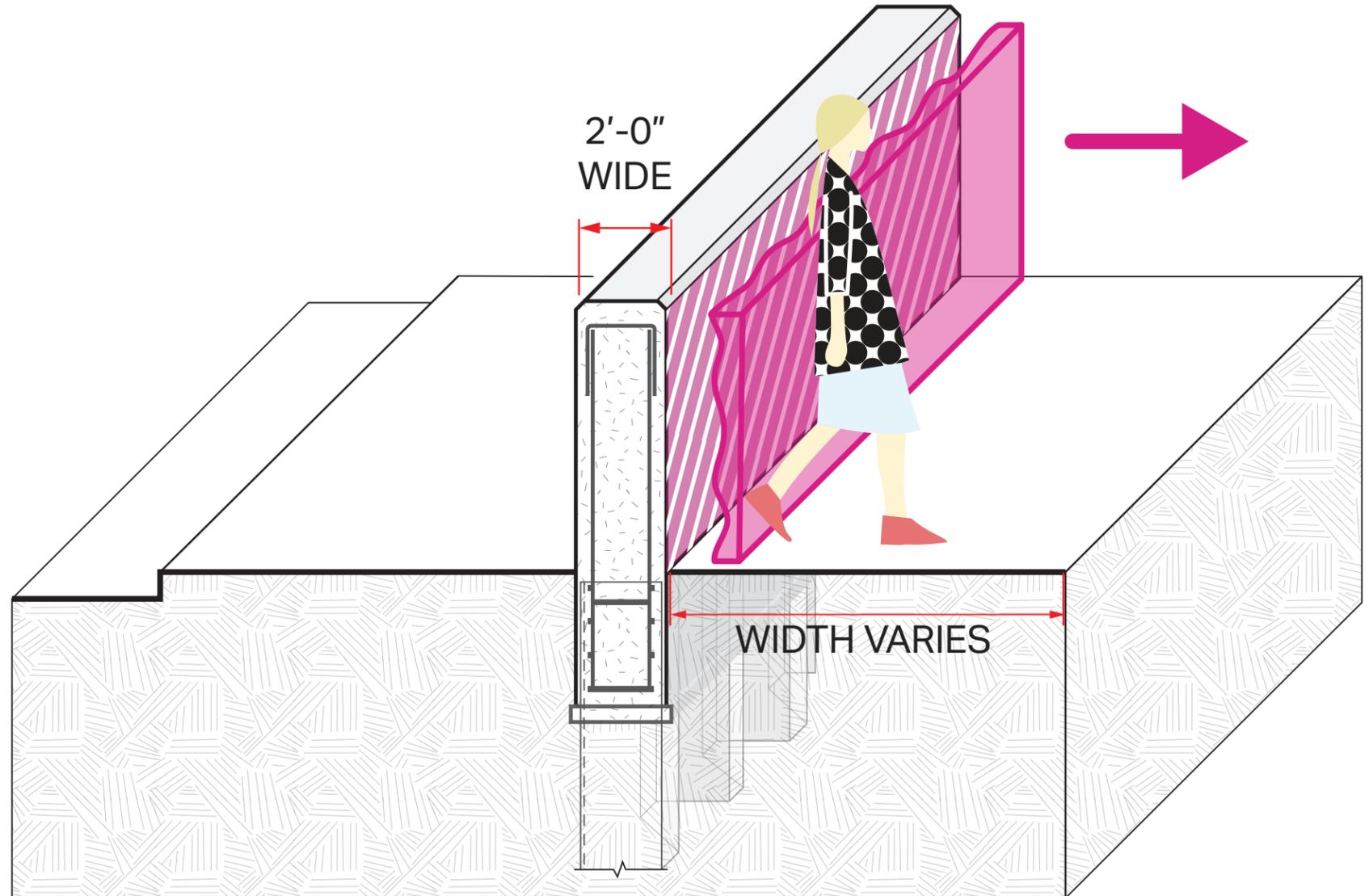
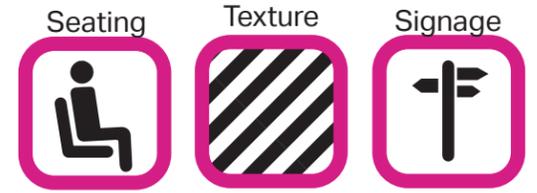
## ZONE 3 I-RESIST STRUCTURE - SUPER GRAPHICS



**METHOD: SUPER GRAPHICS  
IMPLEMENTING TOOLKIT**

# ALIGNMENT DESIGN METHODS

## ZONE 3 I-RESIST STRUCTURE - **FORMLINER**



**METHOD: FORM LINER  
IMPLEMENTING TOOLKIT**

# ZONE 3

## DESIGN VISIONS

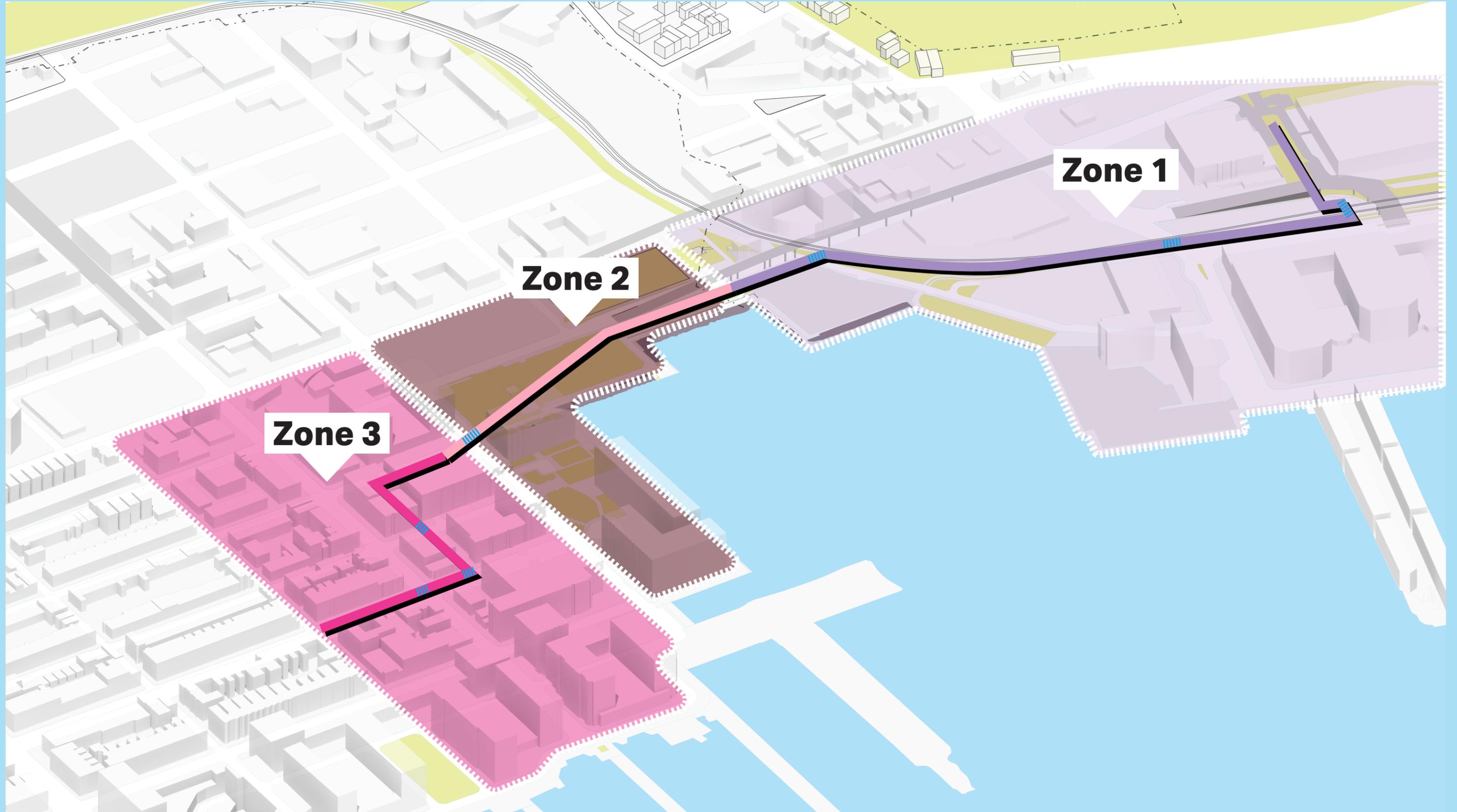


PLEASE STOP AT THE BACK OF THE ROOM AFTER THE MEETING TO SEE THE IN PROCESS DESIGN IDEAS THE TEAM IS WORKING ON!

**DESIGN MATERIALS PREVIEW**  
**IN PROCESS MATERIALS AT BACK OF ROOM**

# DESIGN MATERIALS

## MATERIALS FOR DESIGN ZONES 1, 2 & 3



# Design investigations find inspiration in the Project Area's cultural, industrial and natural history...



**CULTURAL HISTORY**



**INDUSTRIAL HISTORY**



**NATURAL HISTORY**

# Take direction from valuable community input...



**"An elevated walkway would be really cool"**

**"A larger variety of uses please"**

**"Separate active and relaxing spaces"**

# Respond to a rich existing context.



# We look forward to sharing and discussing these ideas with you!



# **NEXT STEPS + KEY DATES**

## **UPCOMING ENGAGEMENT OPPORTUNITIES**

- **DESIGN ZONE WORKSHOPS,  
SOUTHERN ALIGNMENT ROUND 1**

- NOVEMBER / DECEMBER 2018

- **DESIGN ZONE WORKSHOPS,  
NORTHERN ALIGNMENT ROUND 2**

- JANUARY 2019

- **PUBLIC MEETING #3**

- FEBRUARY / MARCH 2019

- **PUBLIC MEETING #4**

- JULY 2019

- **Questions & Comments:**

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**END**