

# REBUILD BY DESIGN HUDSON RIVER

JERSEY CITY HOBOKEN WEEHAWKEN | NEW JERSEY



## DESIGN ZONE 4 WORKSHOP

MARCH 12, 2019



# MEETING AGENDA

## 1. RBD BACKGROUND

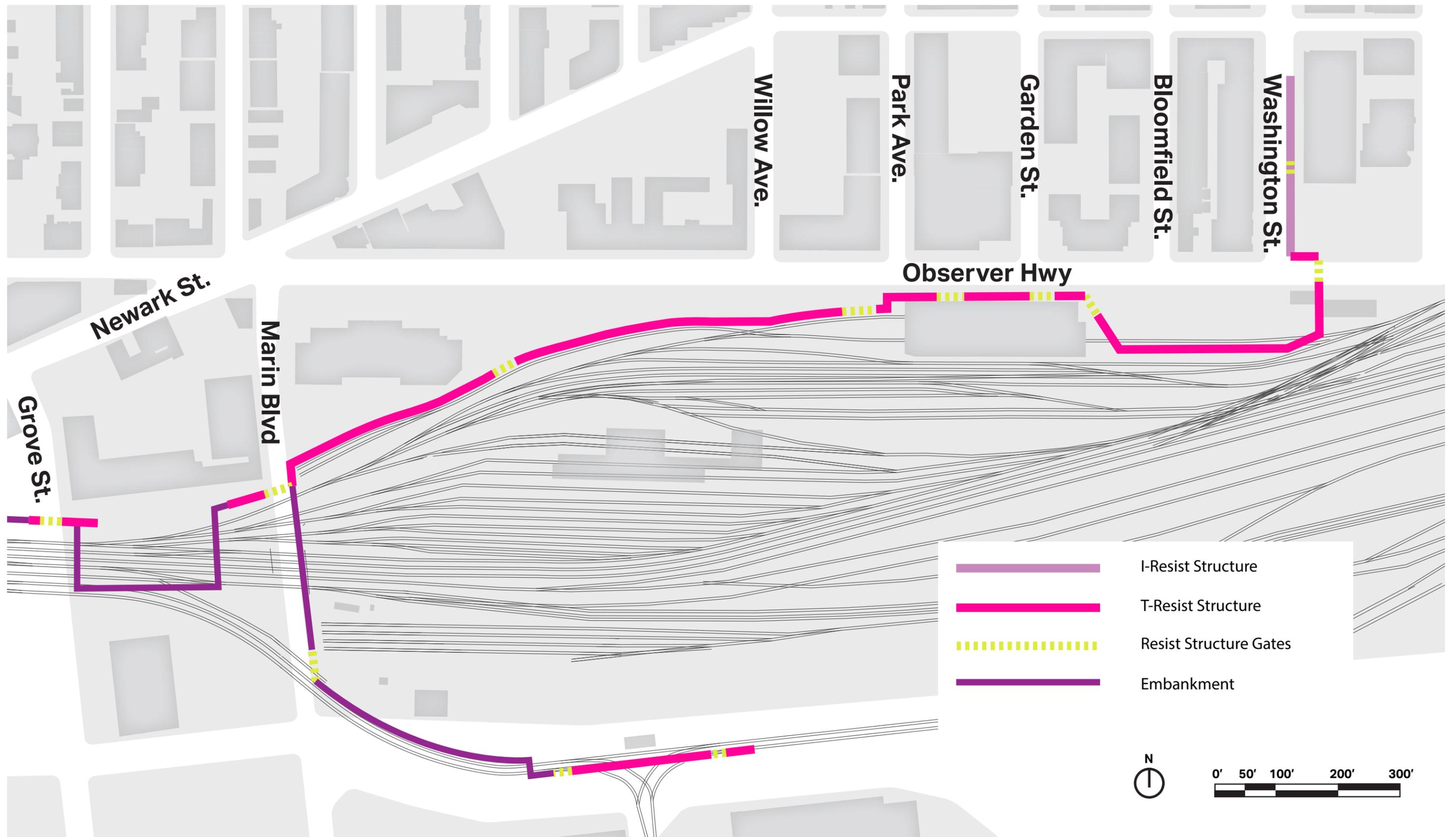
- COMPETITION
- PRELIMINARY DESIGN
- FEASIBILITY STUDY

## 2. DESIGN UPDATES

- ZONE 4 DESIGN UPDATES
  - Alignment
  - Amenities Strategies

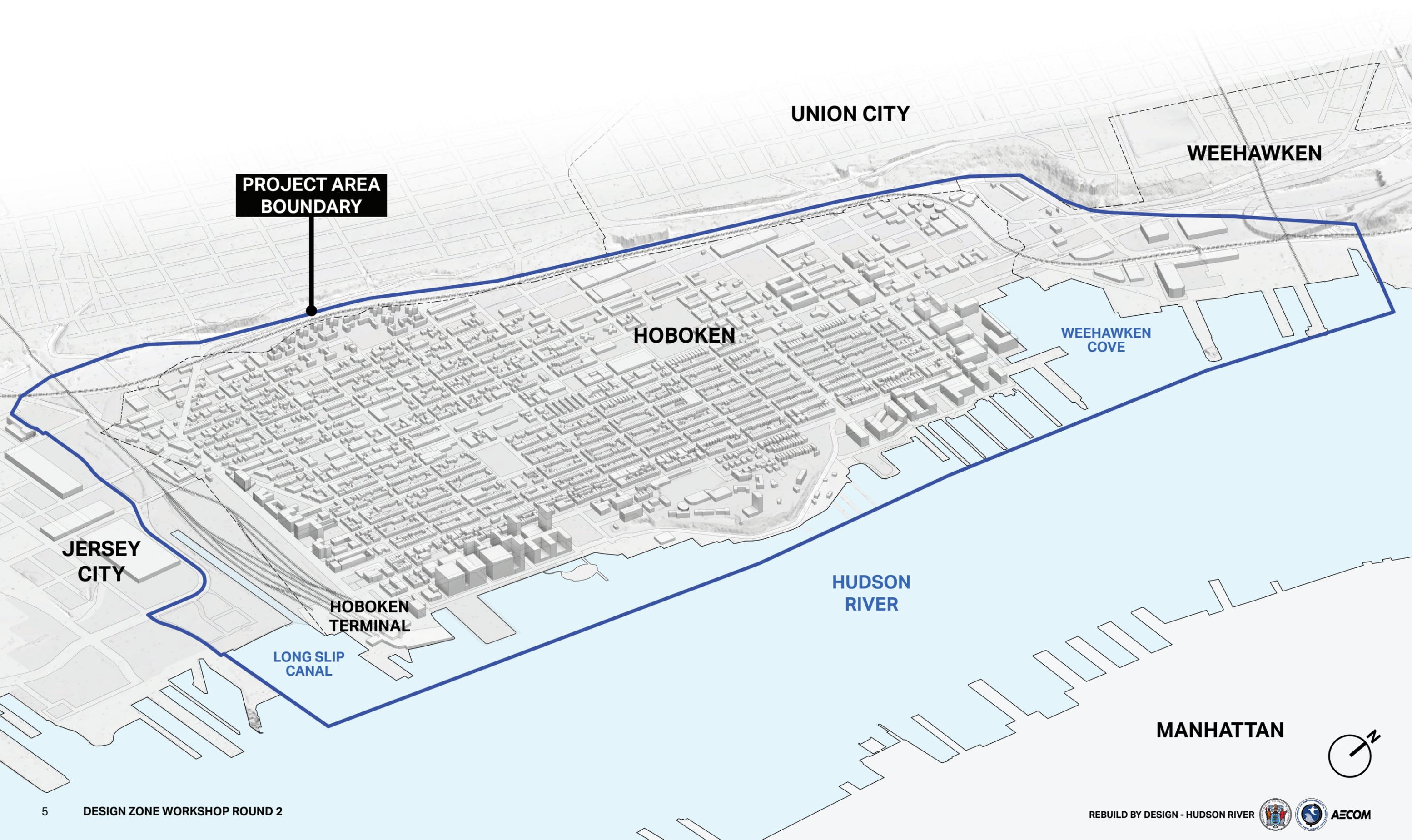
## 3. DESIGN MATERIALS

# MIDDLE GROUND ALIGNMENT



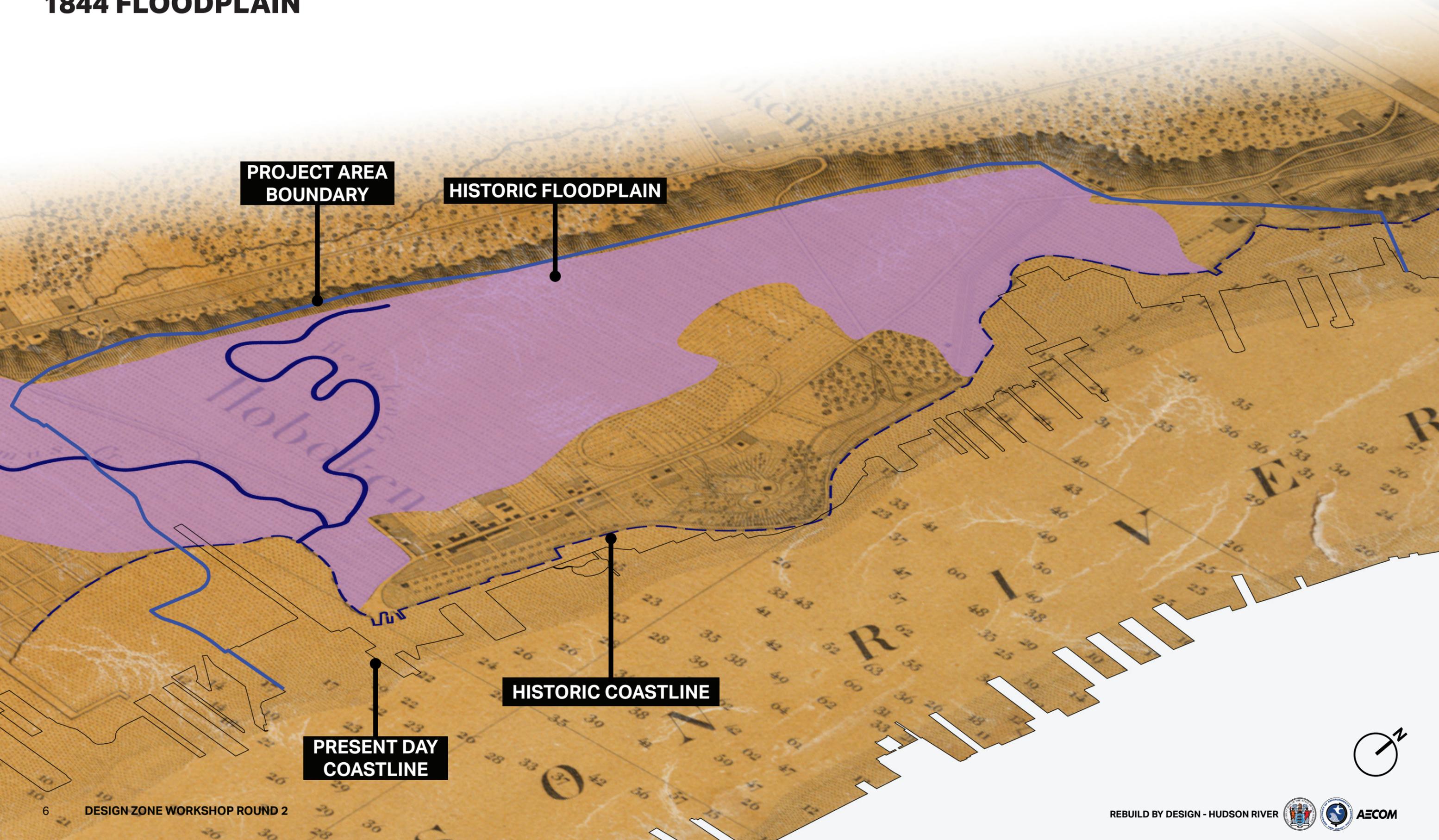
# RBD BACKGROUND

# PROJECT AREA



# HISTORICAL FLOODING

## 1844 FLOODPLAIN



**PROJECT AREA  
BOUNDARY**

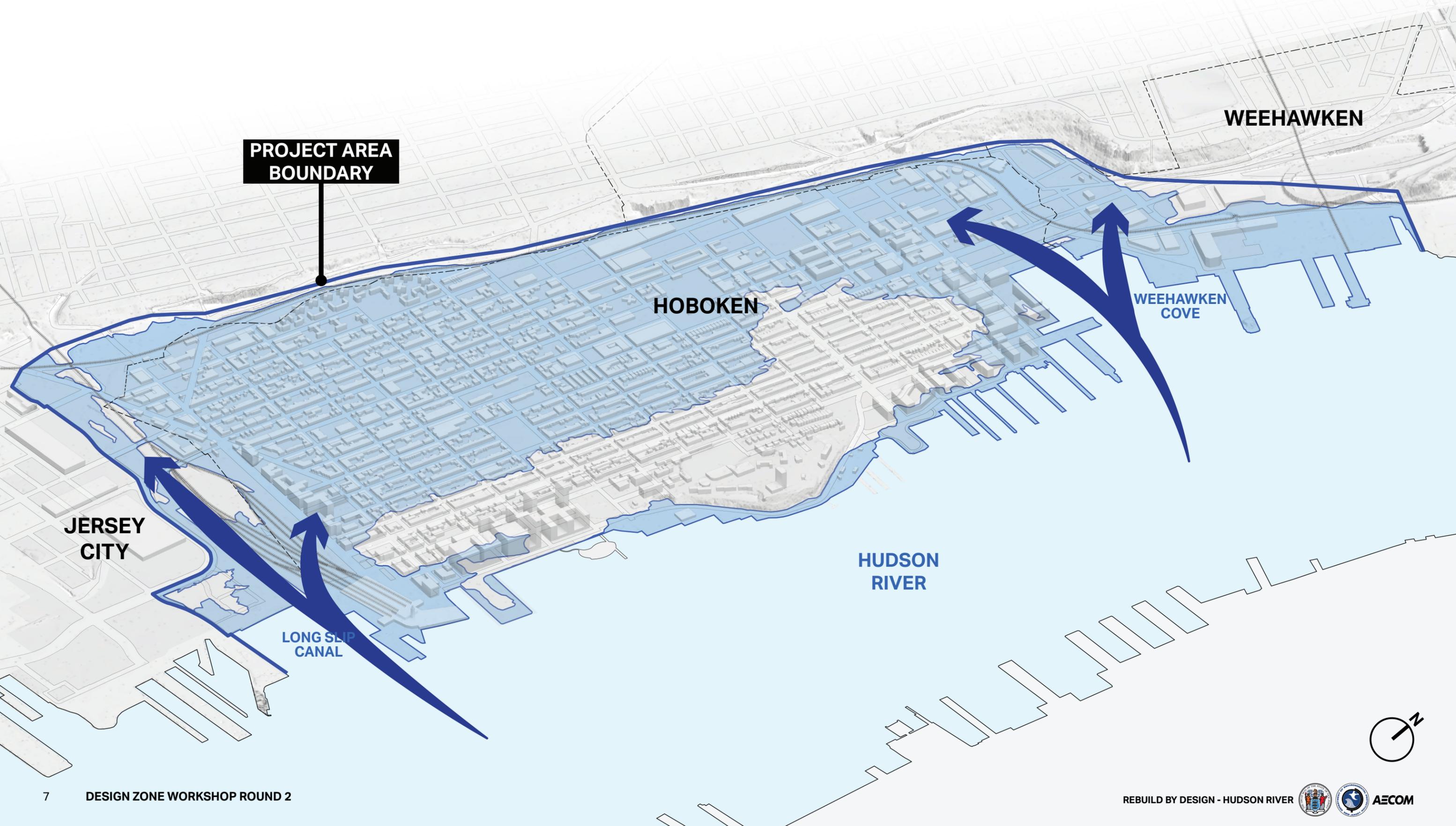
**HISTORIC FLOODPLAIN**

**HISTORIC COASTLINE**

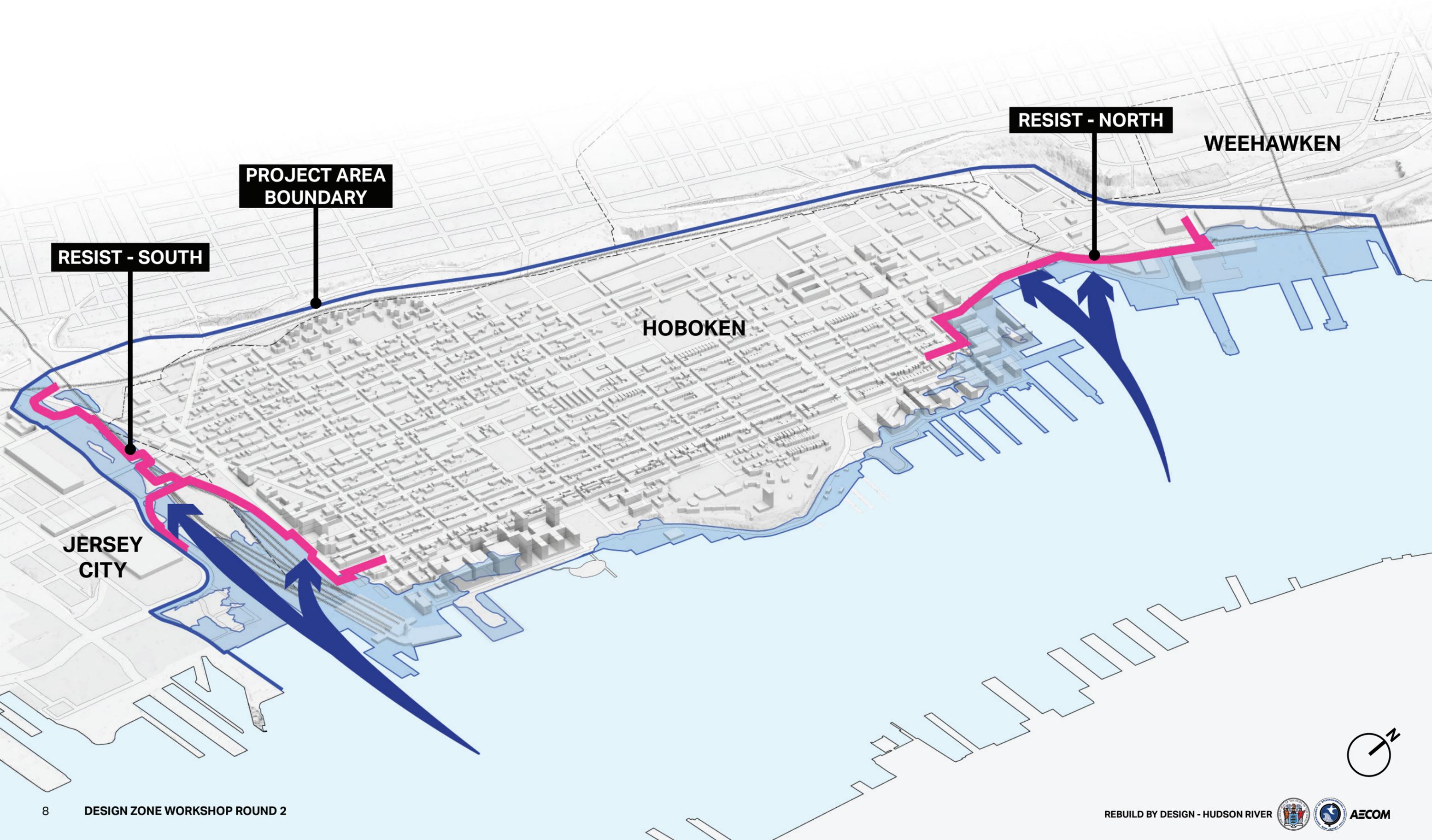
**PRESENT DAY  
COASTLINE**



# SUPERSTORM SANDY BREACH POINTS



# RESIST ALIGNMENT



# PROJECT TIMELINE

## COMPETITION TO IMPLEMENTATION

**COMPETITION**

**FEASIBILITY  
+  
ENVIRONMENTAL  
IMPACT STATEMENT**

**FINAL DESIGN  
+  
CONSTRUCTION**

**2013**

**2014**

**2015**

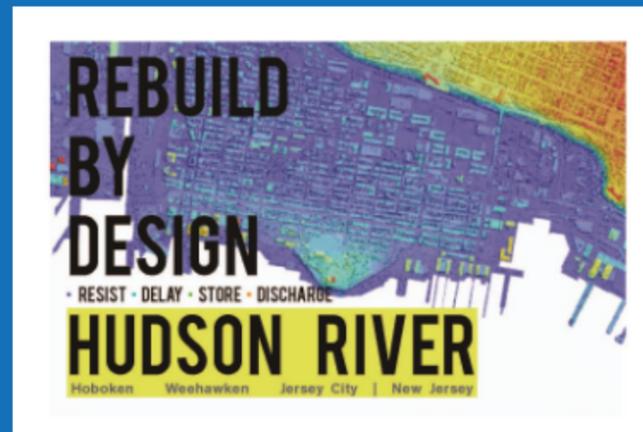
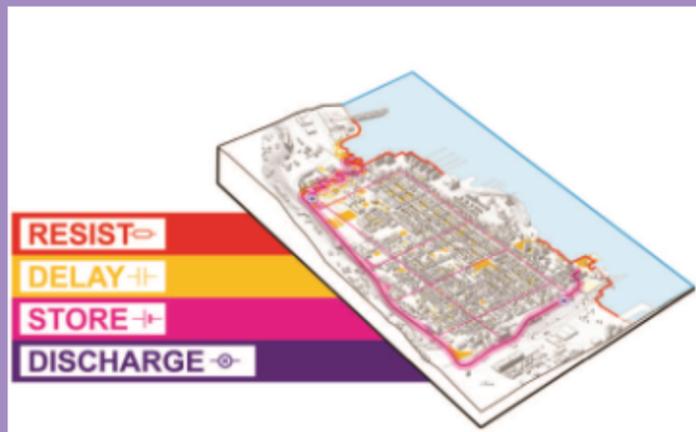
**2016**

**2017**

**2018**

**TODAY**

**2022**



# COMPETITION PHASE

## 4-PART STRATEGY

RESIST



DELAY



STORE



DISCHARGE



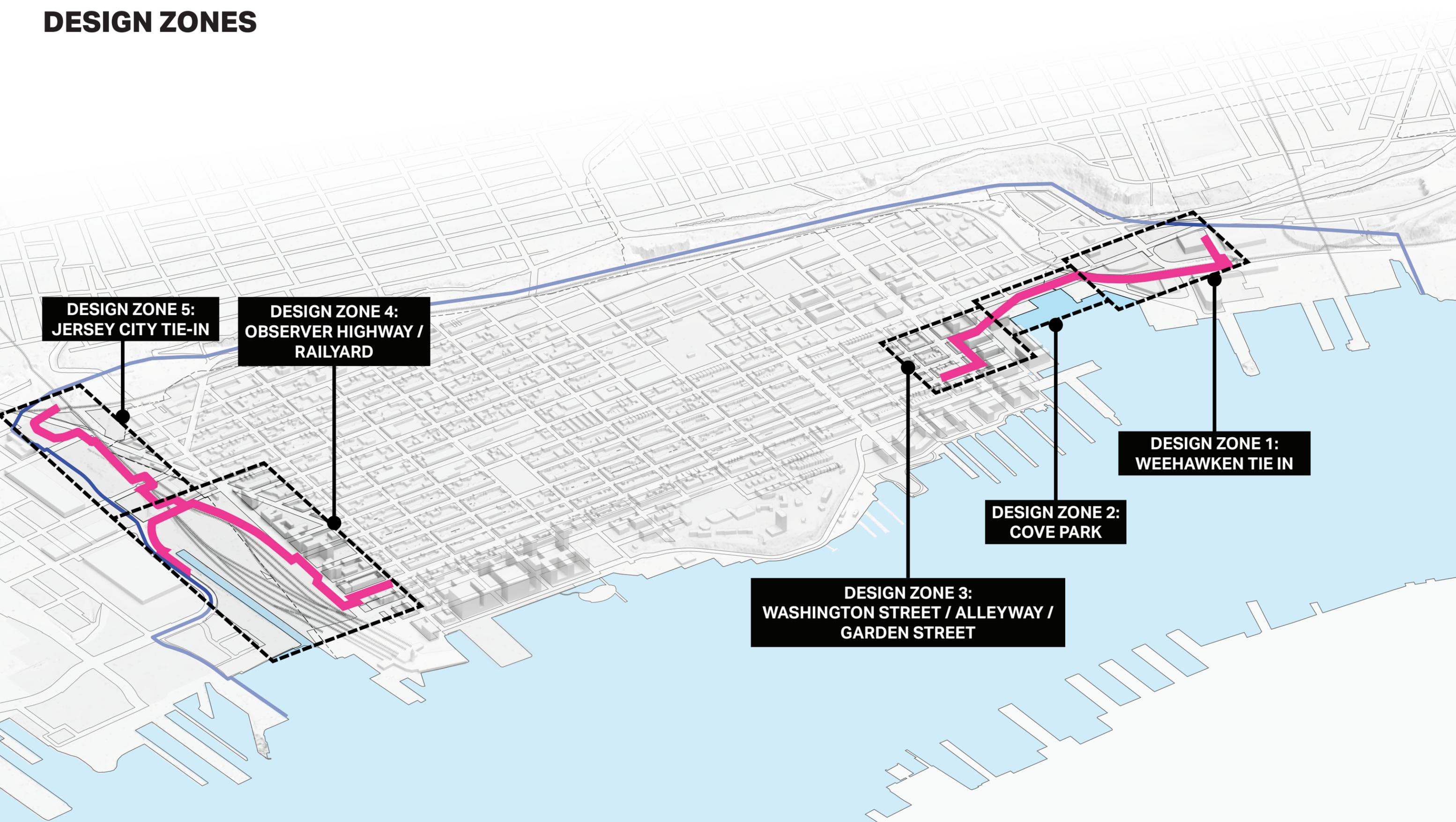
# RECOMMENDATION

## PREFERRED ALTERNATIVE - ALTERNATIVE 3



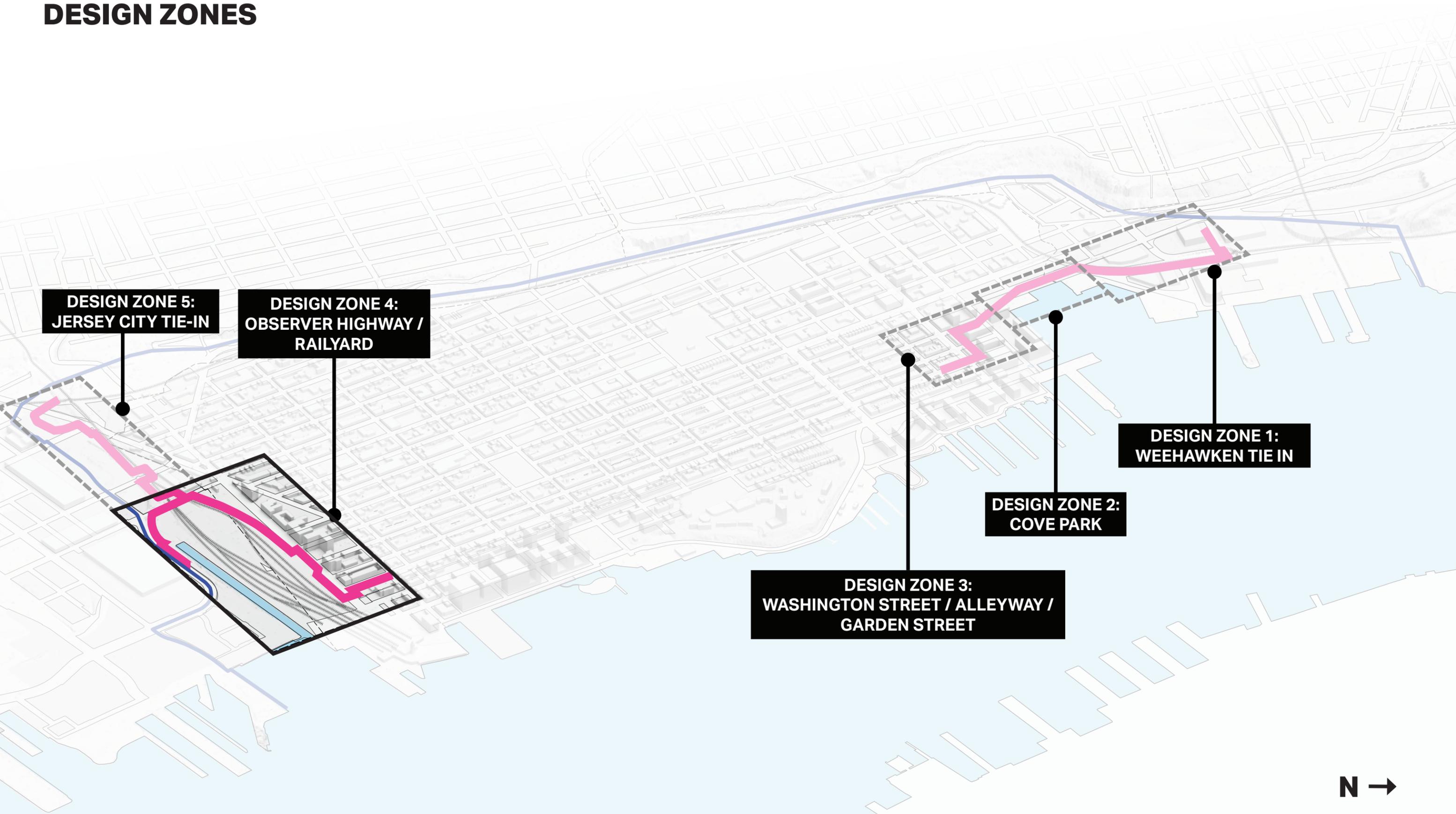
# FINAL DESIGN

## DESIGN ZONES



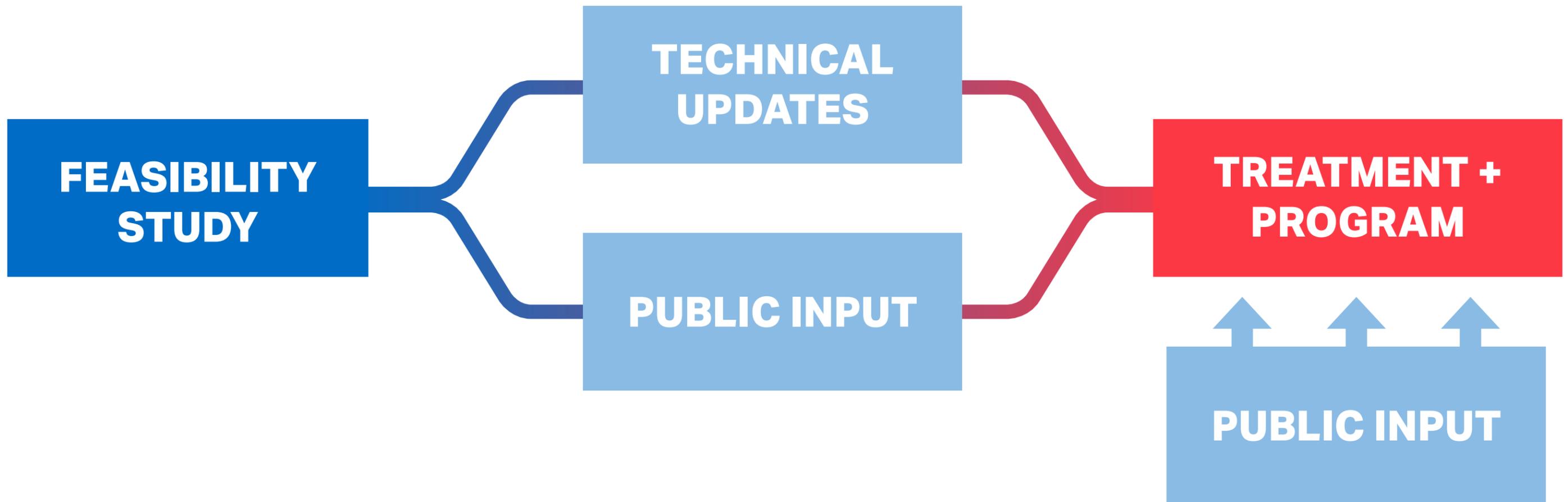
# RESIST SOUTH

## DESIGN ZONES



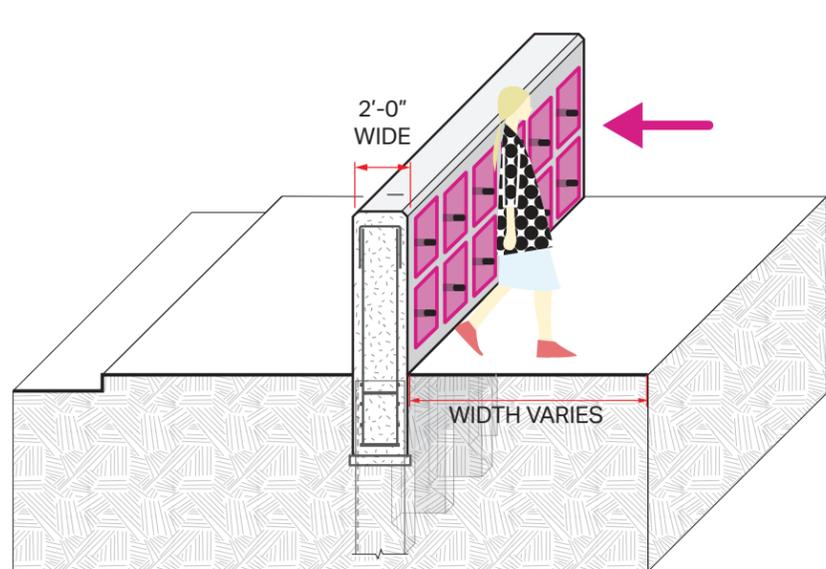
# PROJECT DRIVERS

## TECHNICAL UPDATES & PUBLIC INPUT INFORMING DESIGN DEVELOPMENT

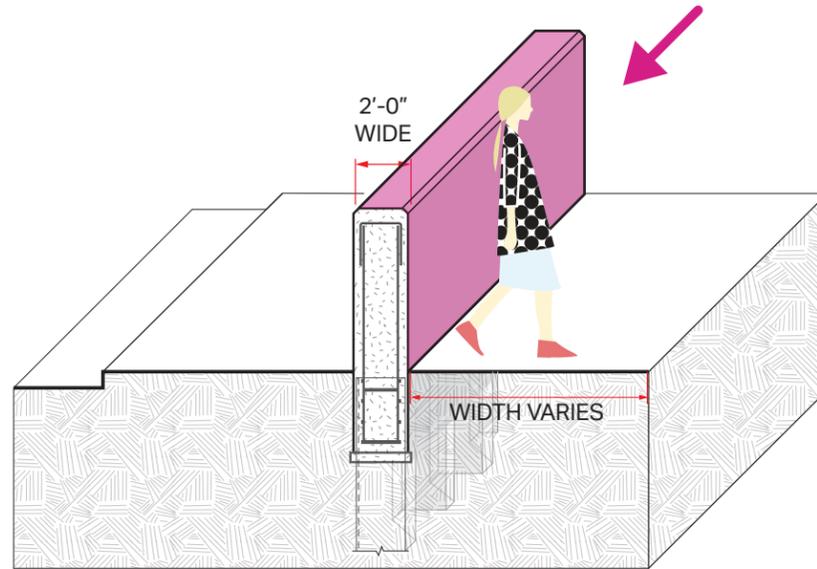


# RESIST TREATMENT METHODS RECAP

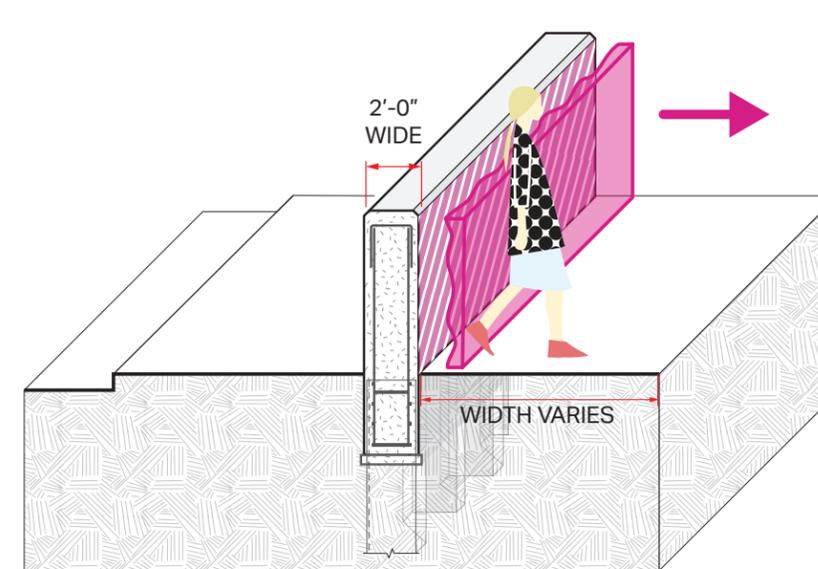
## ZONE 4 I-RESIST STRUCTURE



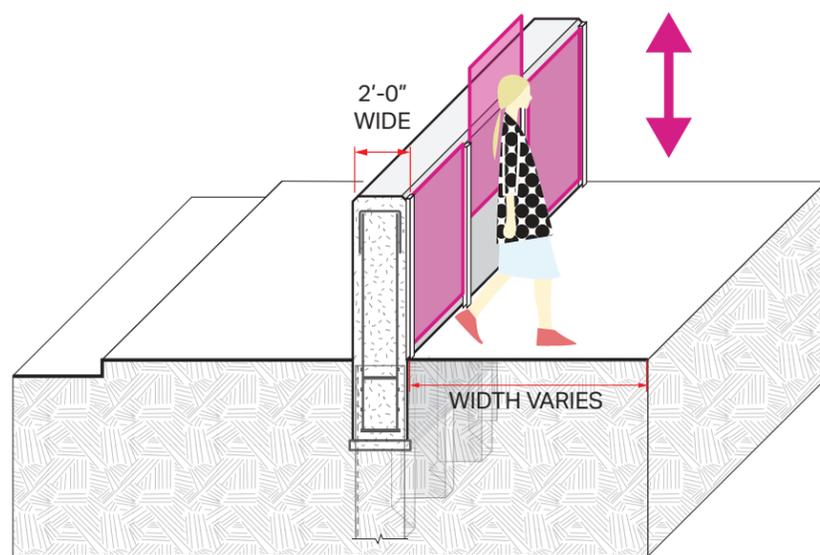
METHOD: ATTACH



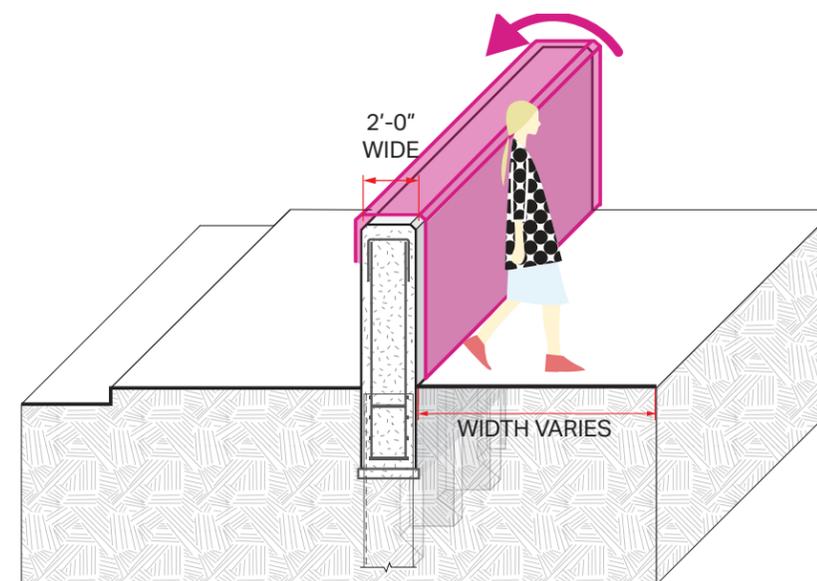
METHOD: SUPER GRAPHICS



METHOD: FORM LINER



METHOD: SLIDE



METHOD: WRAP

# PUBLIC INPUT

# TONIGHT'S INPUT

## PAMPHLET DESCRIPTION

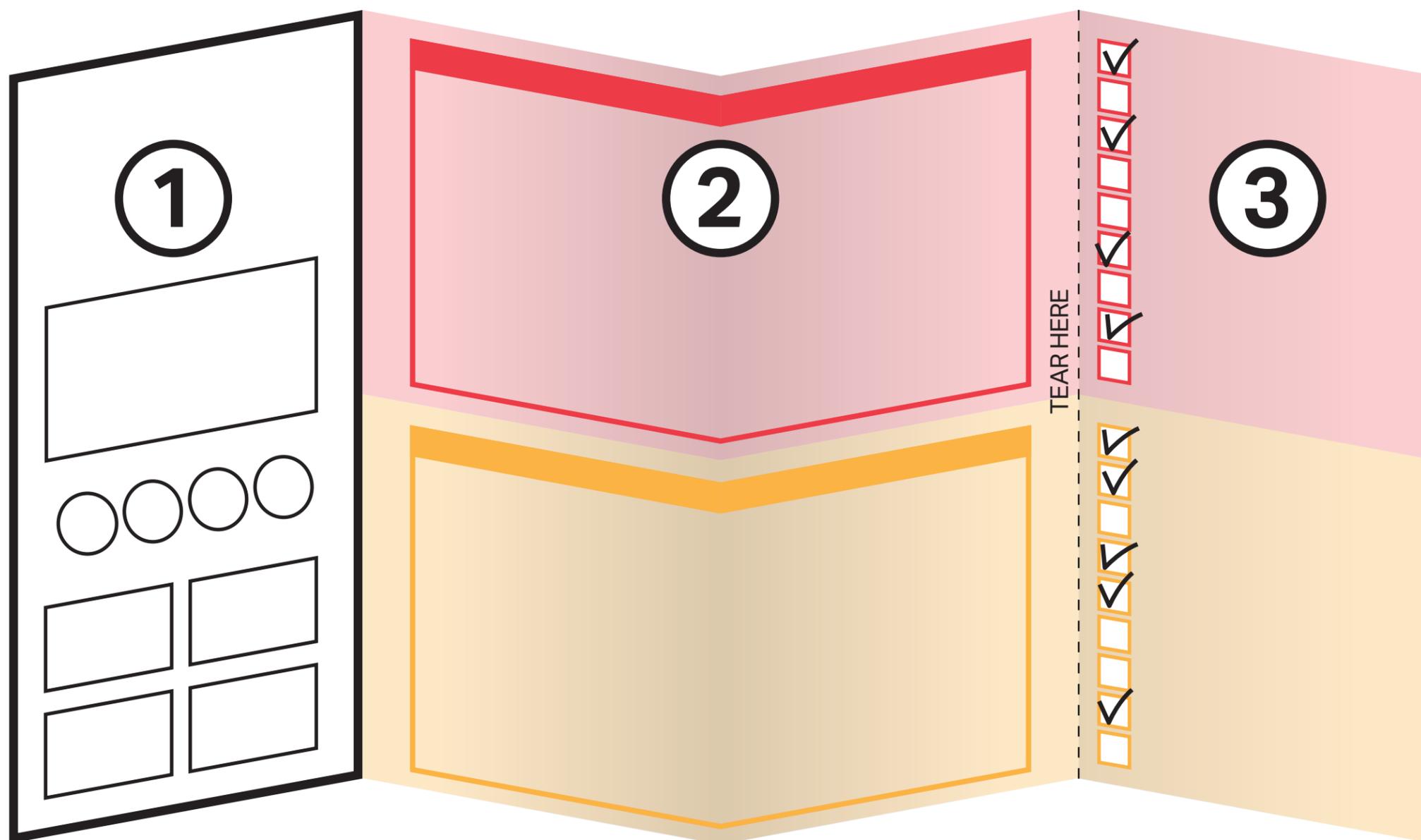


# TONIGHT'S INPUT

## PAMPHLET DESCRIPTION

Follow along with your pamphlet:

1. Project Drivers (Technical Updated + Public Input)
2. Zone 4 Design Interventions
- 3. Preferred Key Features Feedback (Tear and hand in before leaving)**



# TONIGHT'S INPUT

## PAMPHLET DESCRIPTION - FRONT SIDE

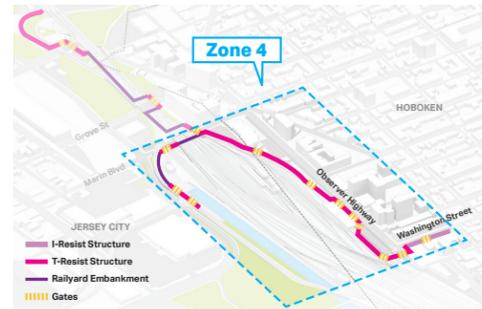
### REBUILD BY DESIGN HUDSON RIVER

JERSEY CITY | HOBOKEN | WEEHAWKEN | NEW JERSEY

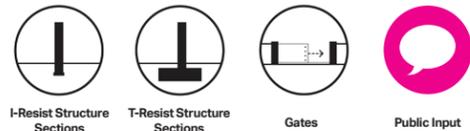
#### DESIGN ZONE WORKSHOP

Zone 4 – Washington Street,  
Observer Highway

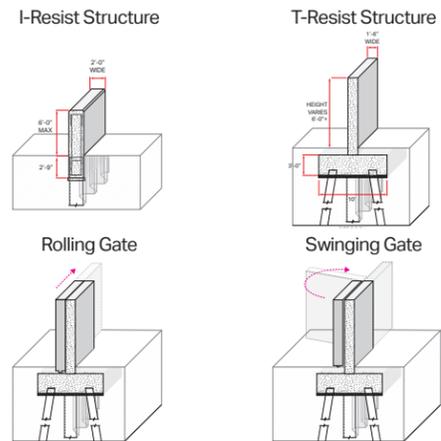
What area are we looking at tonight?



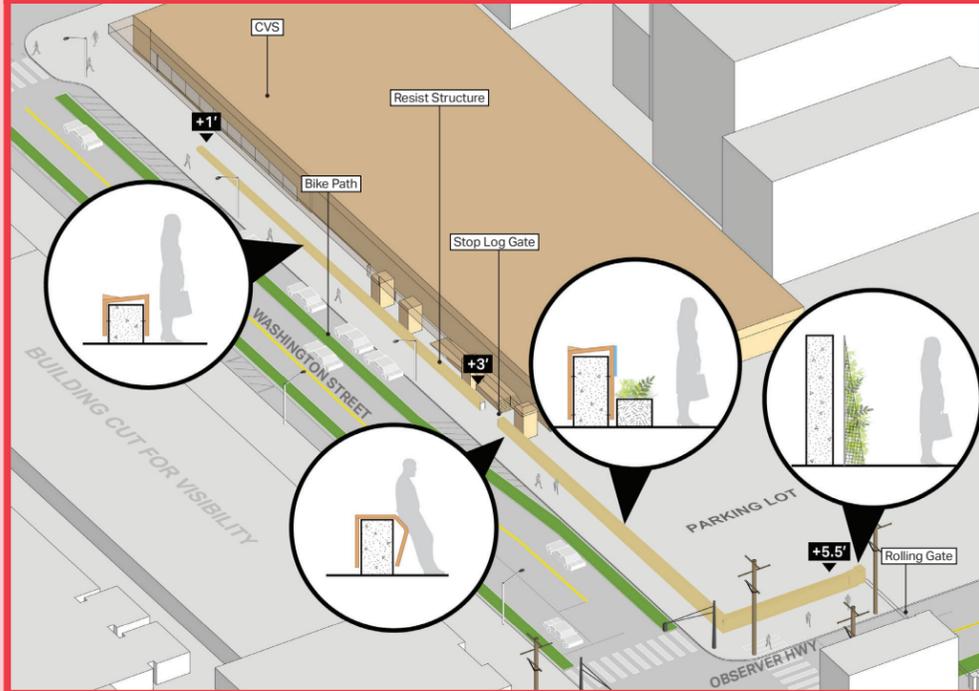
What are the main design drivers?



What are the key technical aspects found in Zone 4?



### WASHINGTON STREET



#### TEXTURE OPTIONS

Wooden Texture



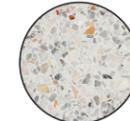
Weathered Metal



Stone Texture



Aggregate Texture



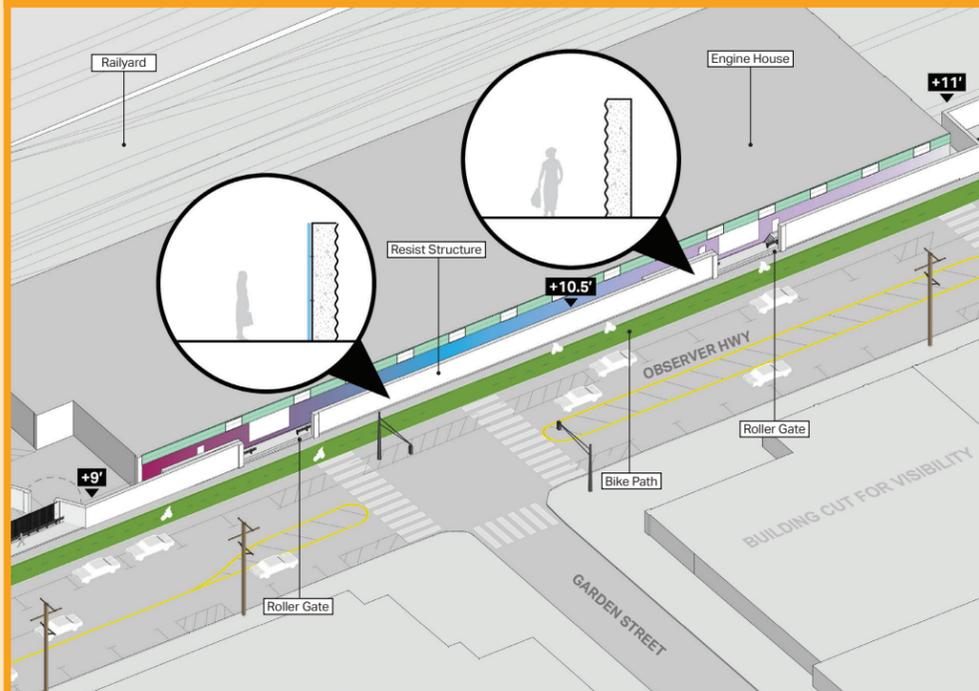
Which key features do you like for...

### WASHINGTON ST.

- Maintained existing sidewalk clear width for pedestrian circulation.
- Wrapped treatment of Resist Structure with Wood look and feel.
- Wrapped treatment of Resist Structure with Metal look and feel.
- Treatment of Resist Structure with Stone look and feel.
- Seat tops integrated into structure where height is 1'-2'.
- Integrated planters near the Washington Street and Observer Highway intersection where space allows.
- Skateboard deterrents integrated into Resist Structure design.
- Climbing deterrents integrated in Resist Structure Design.

Please provide additional feedback on back

### THE ENGINE HOUSE



#### TEXTURE OPTIONS

Industrial-themed Formliner



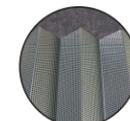
Graphic Murals



Flexible Panels



Corrugated Metal Panels



Which key features do you like for...

### THE ENGINE HOUSE

- Maintained existing sidewalk clear width for pedestrian circulation.
- Maintained existing bike path separated from vehicular travel lanes.
- Formliner treatment of Resist Structure with an industrial past theme, look and feel.
- Treatment of Resist Structure that allows for integration of feature mural.
- Treatment of Resist Structure with panels for signage, art, or other uses.
- Treatment of Resist Structure with folded metal screen and dynamic visual effect.
- Extended treatment strategies higher than top of resist structure to provide additional visual screening of Engine House building.
- Wrapped treatment of Resist Structure with wood look and feel.

Please provide additional feedback on back

# TONIGHT'S INPUT

## PAMPHLET DESCRIPTION - BACK SIDE

What are your thoughts about...  
**WASHINGTON ST.**

Thank you for your feedback!

Signage, Seating, & Skate Stop



Stand/Lean & Gate Storage



Planter + Gateway aesthetic



Wayfinding + Gateway aesthetic



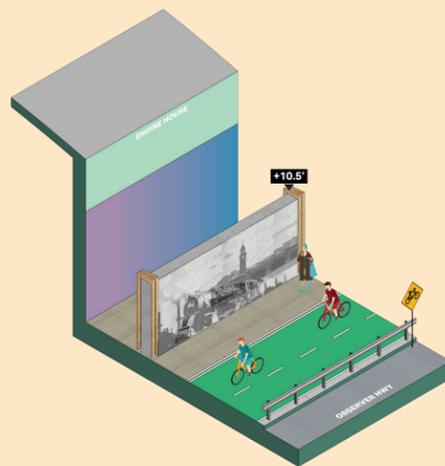
What are your thoughts about...  
**THE ENGINE HOUSE**

Thank you for your feedback!

PERMANENT TREATMENT

SEMI-PERMANENT TREATMENT

FLEXIBLE TREATMENT



Industrial-themed Formliner



Extended Panels with Visual Effect



Changeable Panels



Graphic Mural

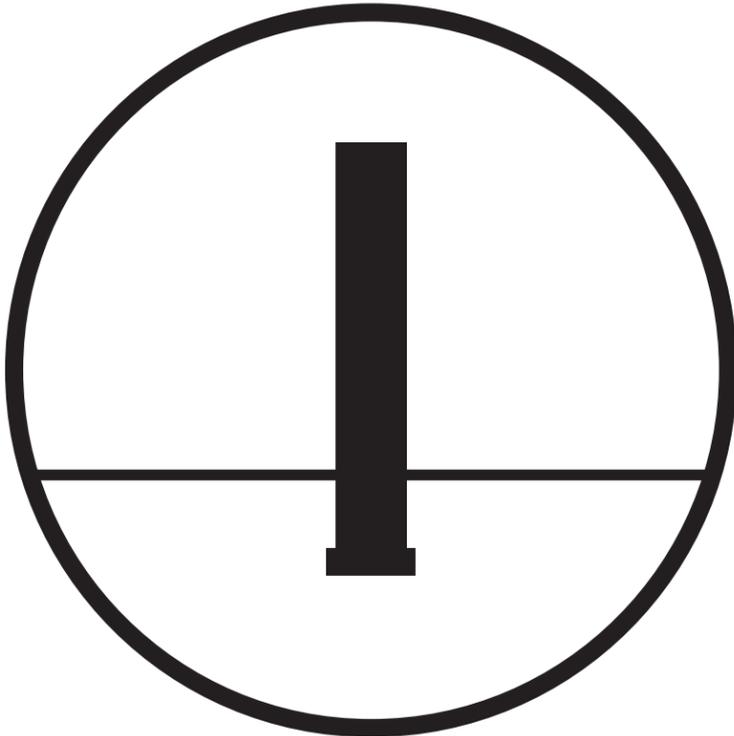
\*Not all finish materials are reflected in vignettes shown on this pamphlet. Final finish types and location of finish types is still being evaluated.

# TECHNICAL DRIVERS

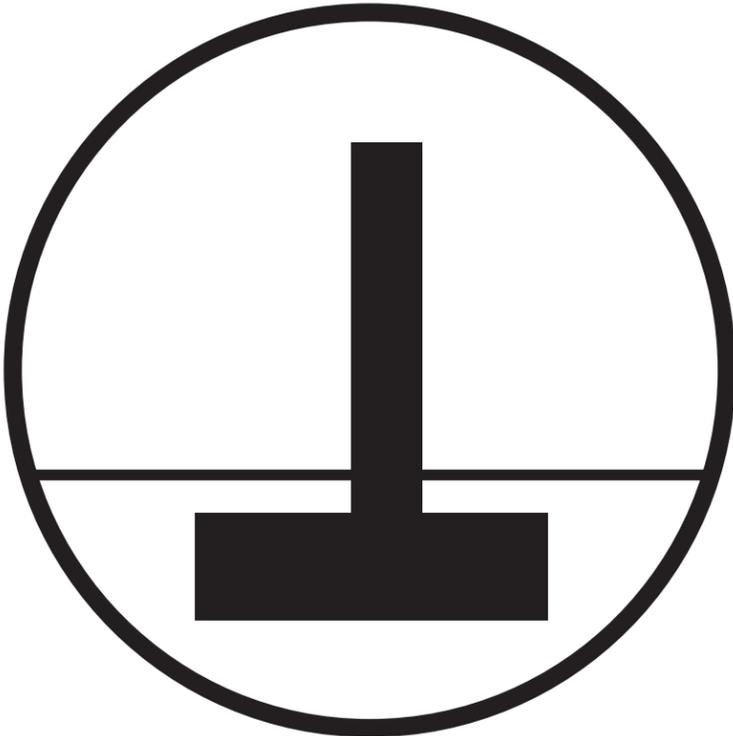
# TECHNICAL DRIVERS

## RESIST STRUCTURE - COVE PARK

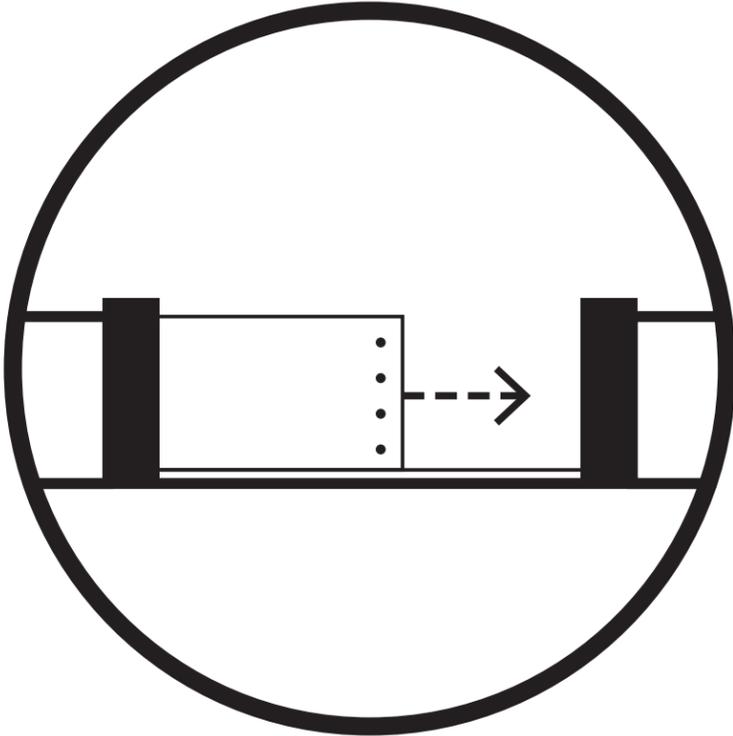
Resist Structure design within Design Zone 4 will include:



I-Resist Structure Sections



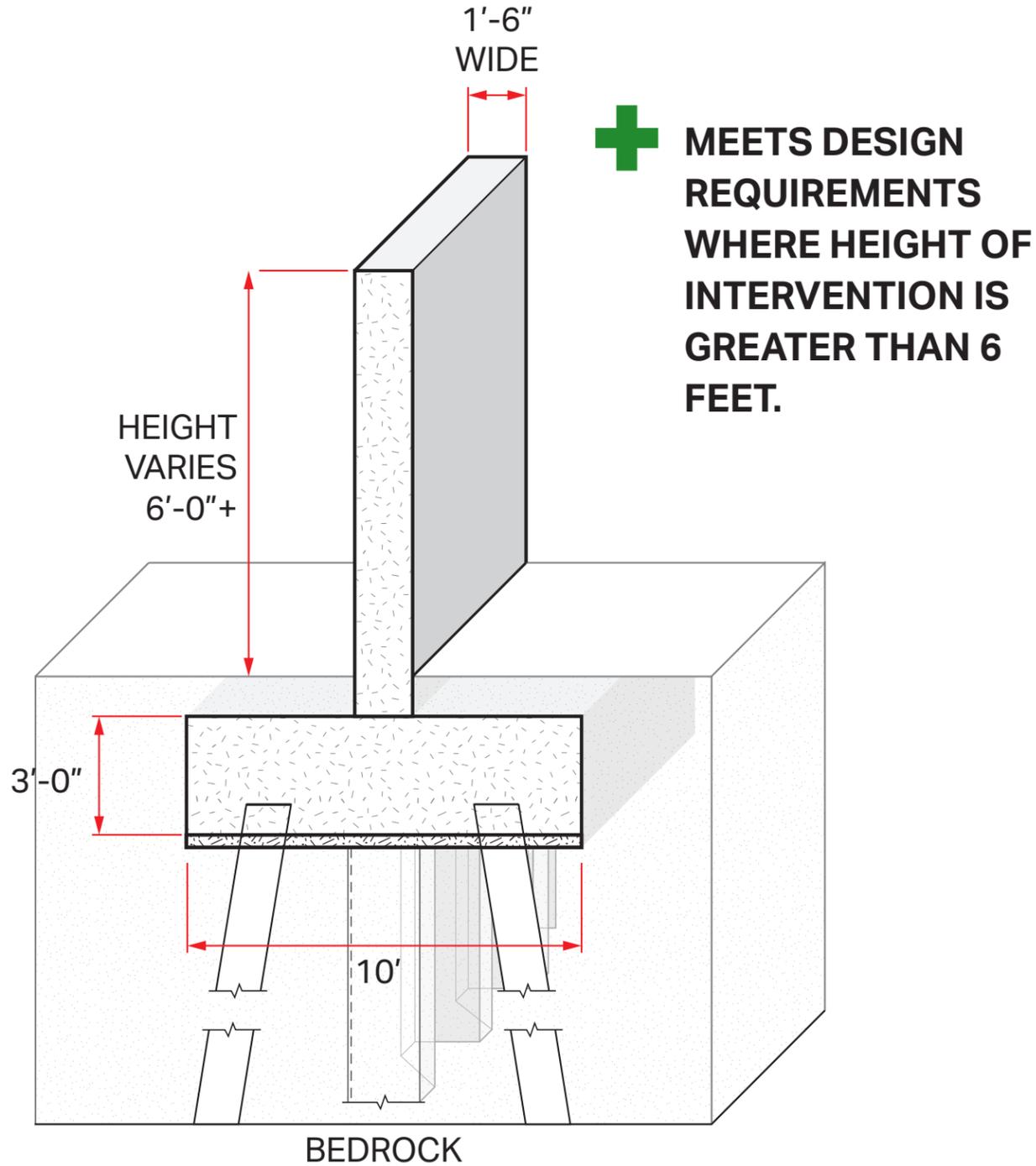
T-Resist Structure Sections



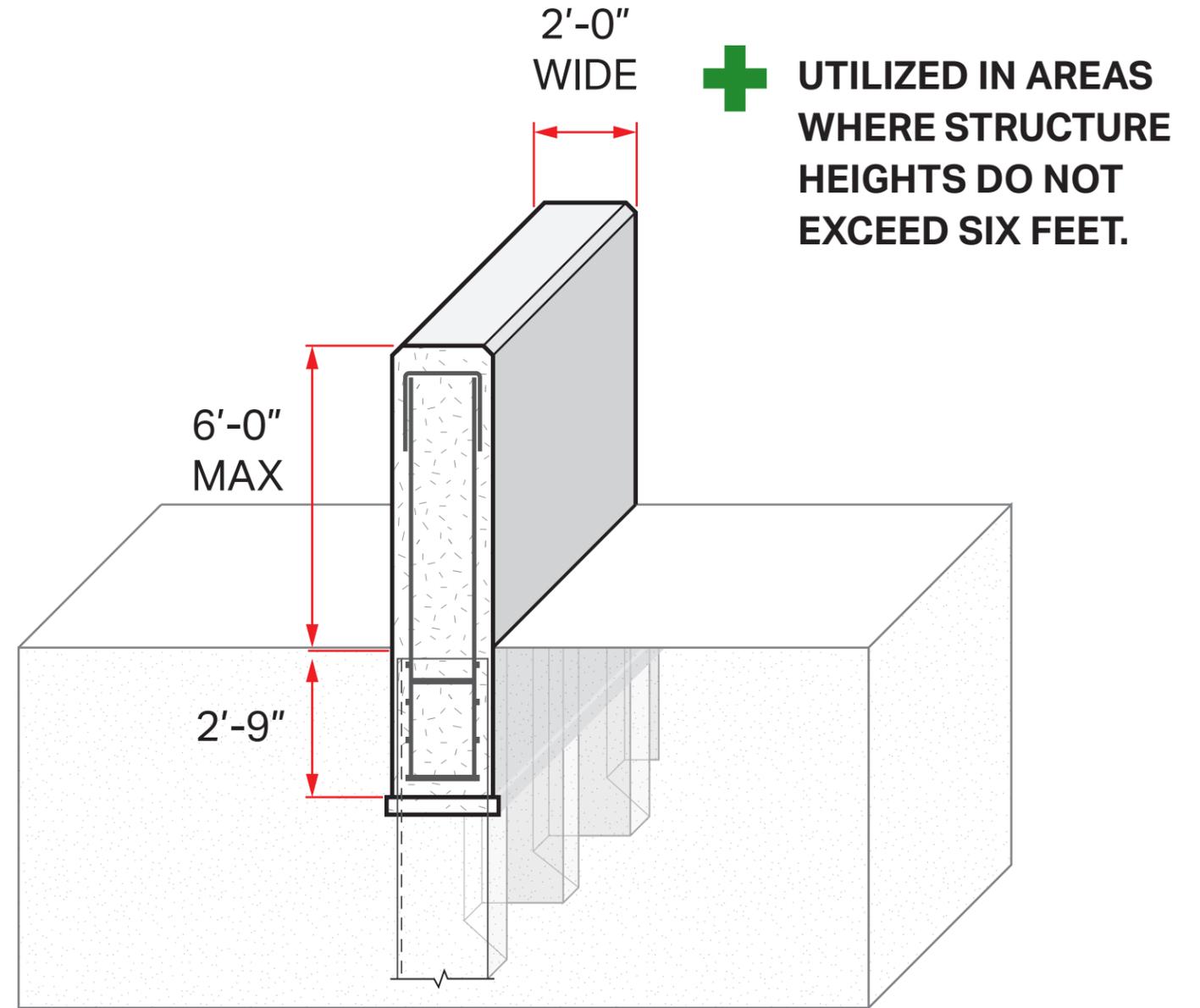
Gates

# TECHNICAL DRIVERS

## T-RESIST STRUCTURE SECTION (COVE PARK) & DEPLOYABLE ROLLER GATES



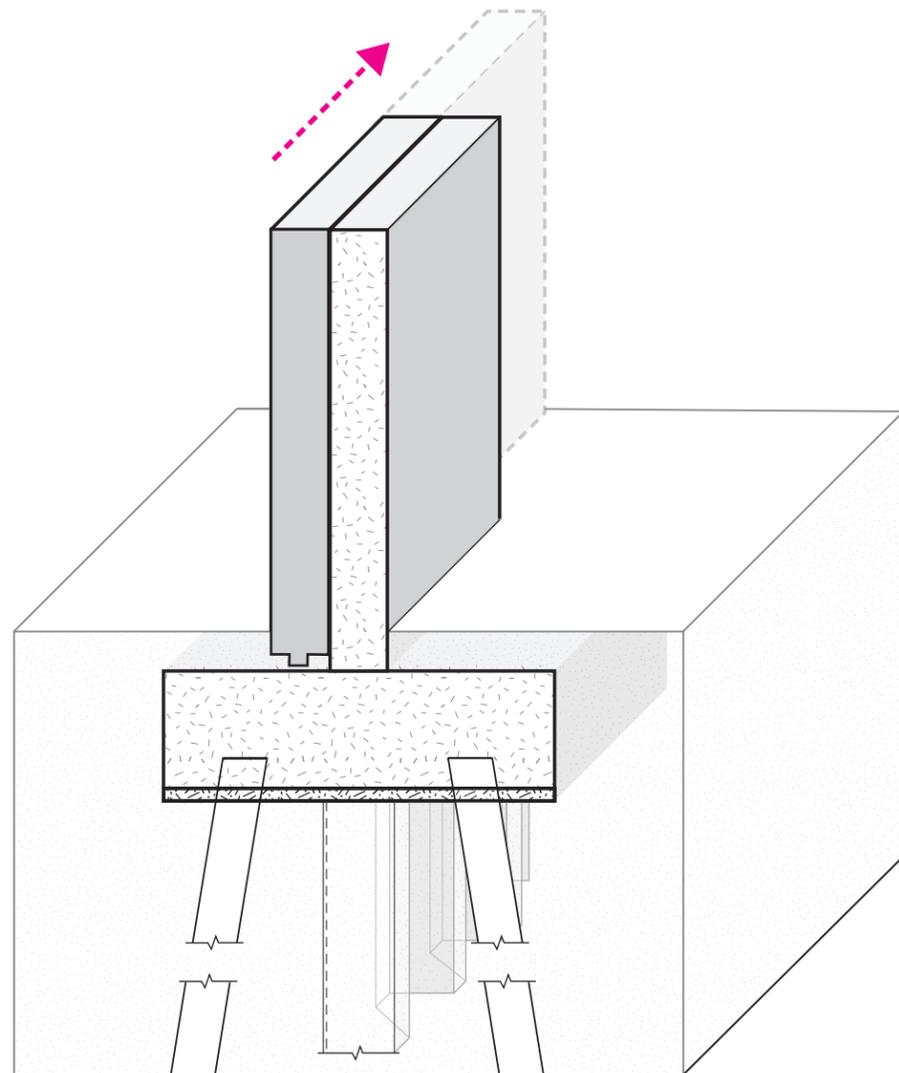
**T-Resist Structure**



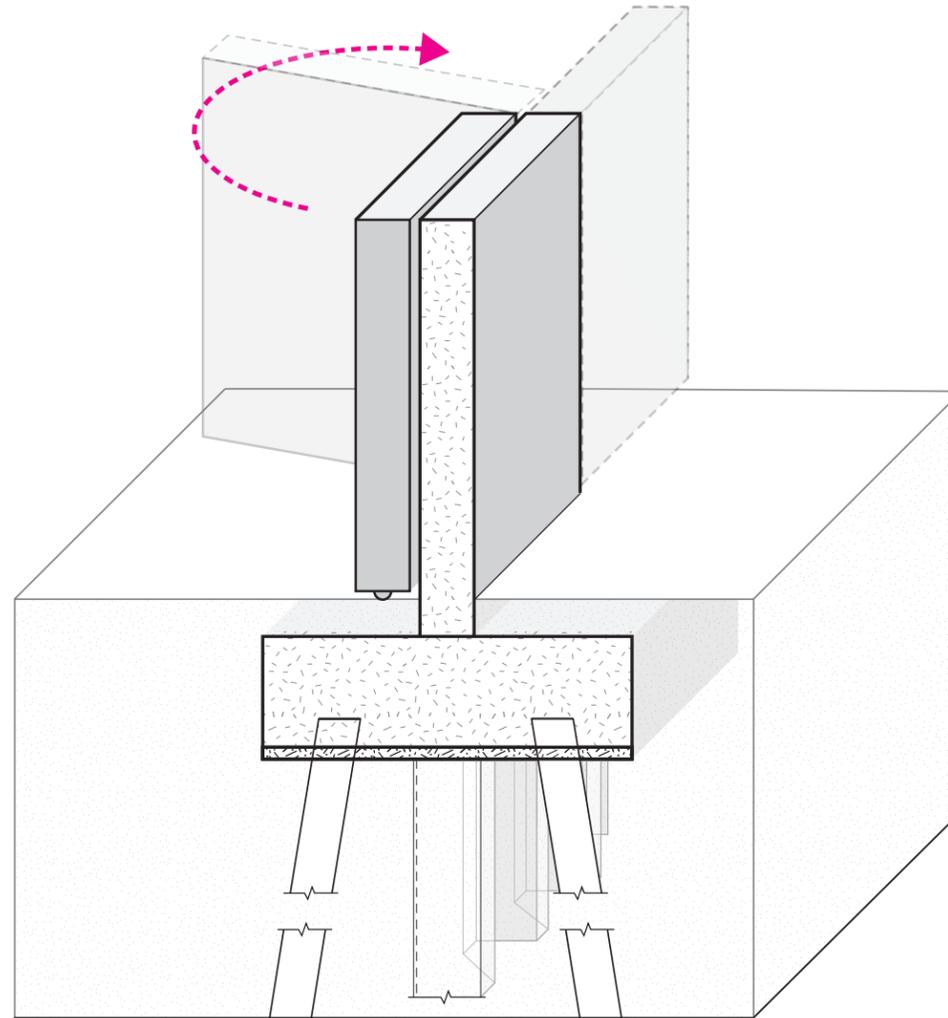
**I-Resist Structure**

# TECHNICAL DRIVERS

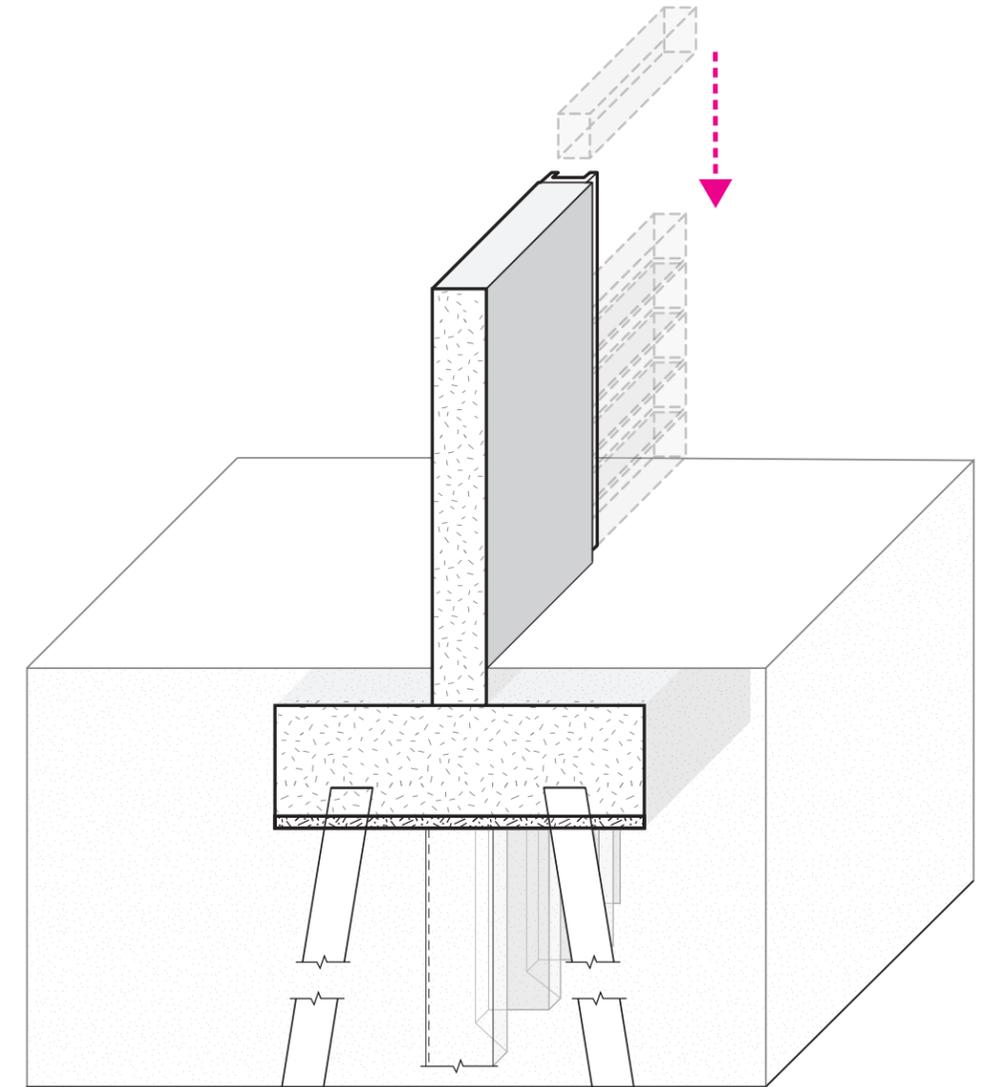
## CONVENTIONAL I-RESIST STRUCTURE SECTION (ALIGNMENT MOST NORTHERN PORTION)



**Roller Gate**



**Swing Gate**

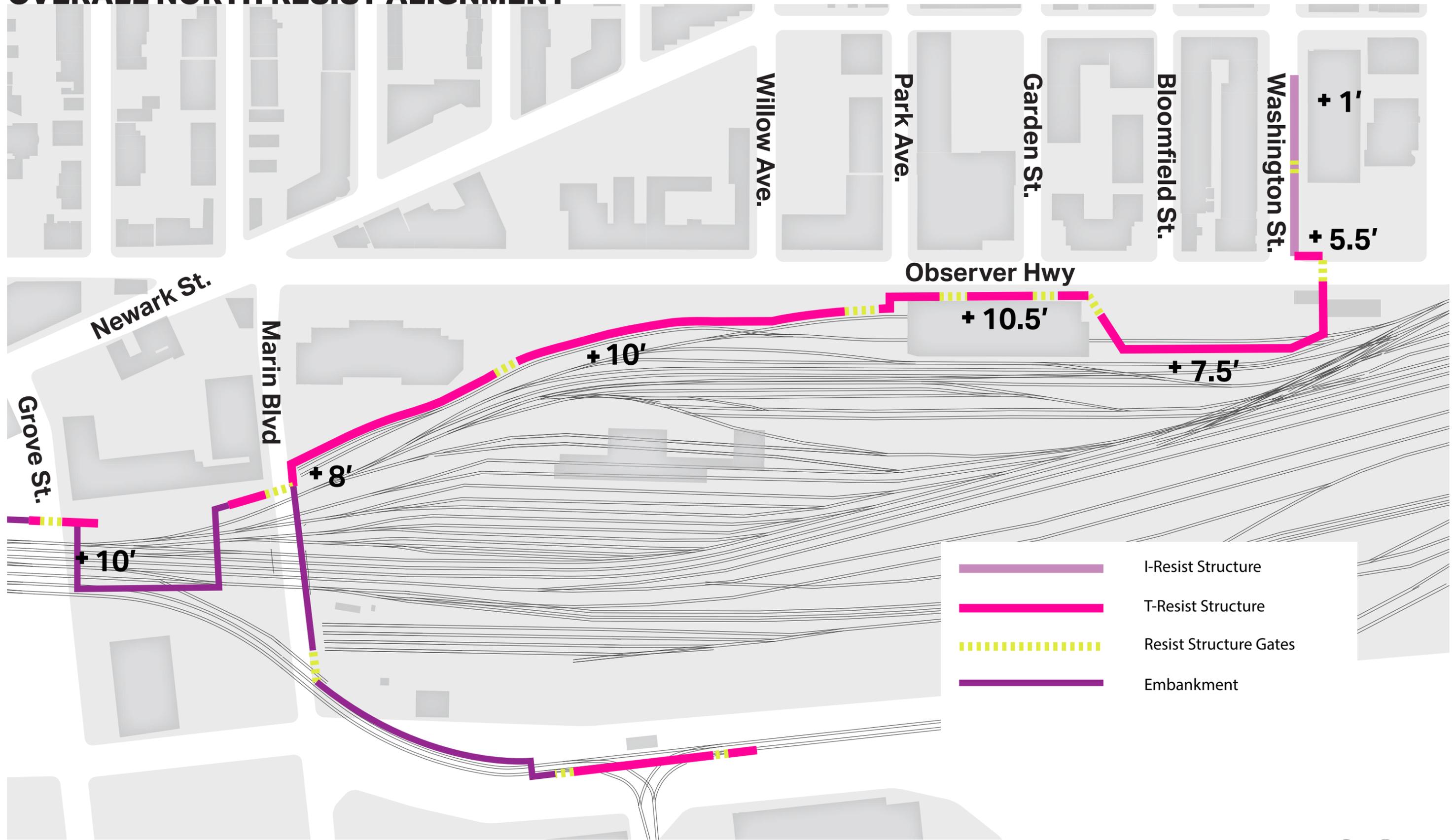


**Stop Log Gate**

Gates are supported on a structural foundation and piles.

# TECHNICAL DRIVERS

## OVERALL NORTH RESIST ALIGNMENT

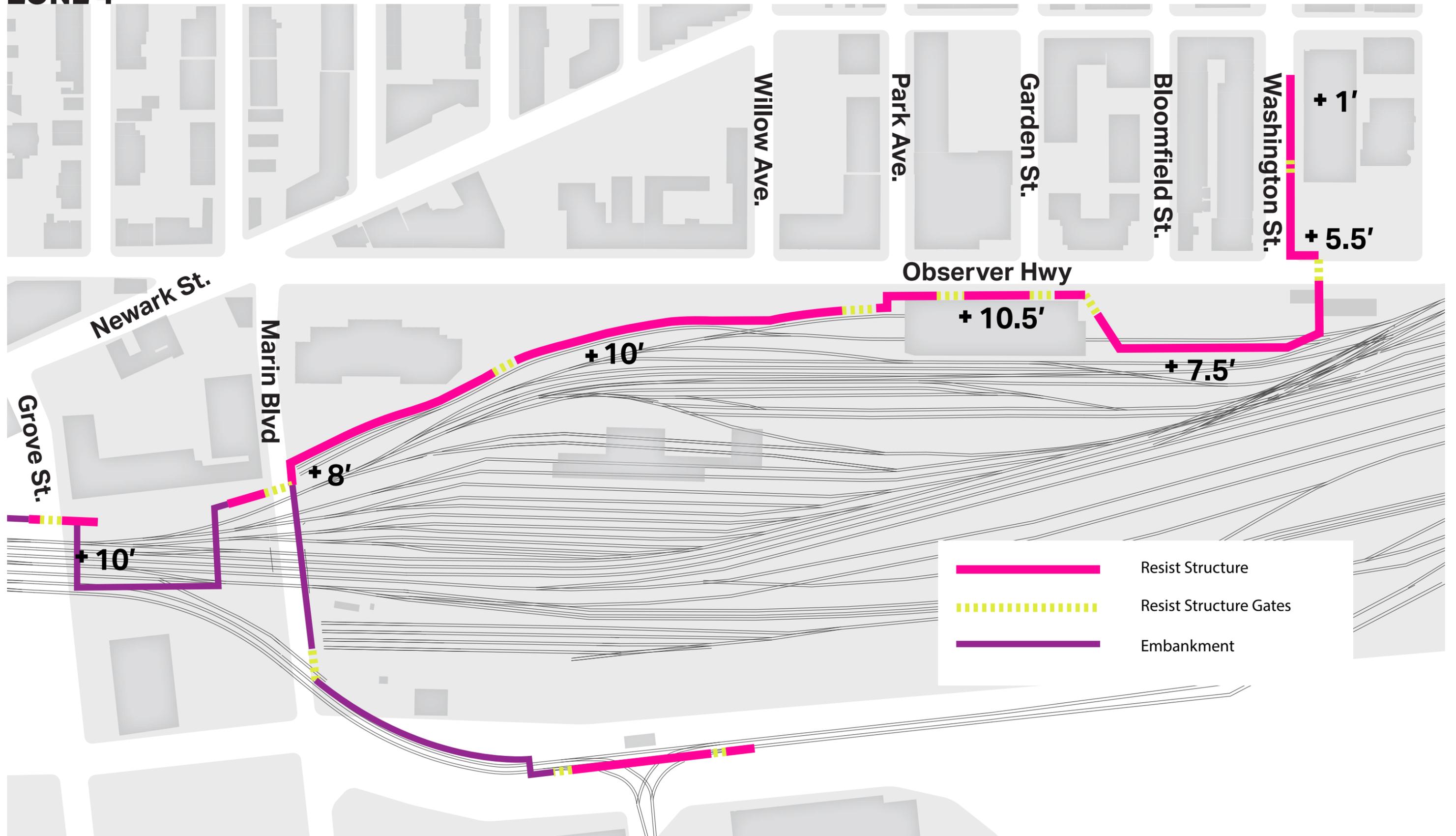


# DESIGN UPDATES

## ZONE 4 - HOBOKEN

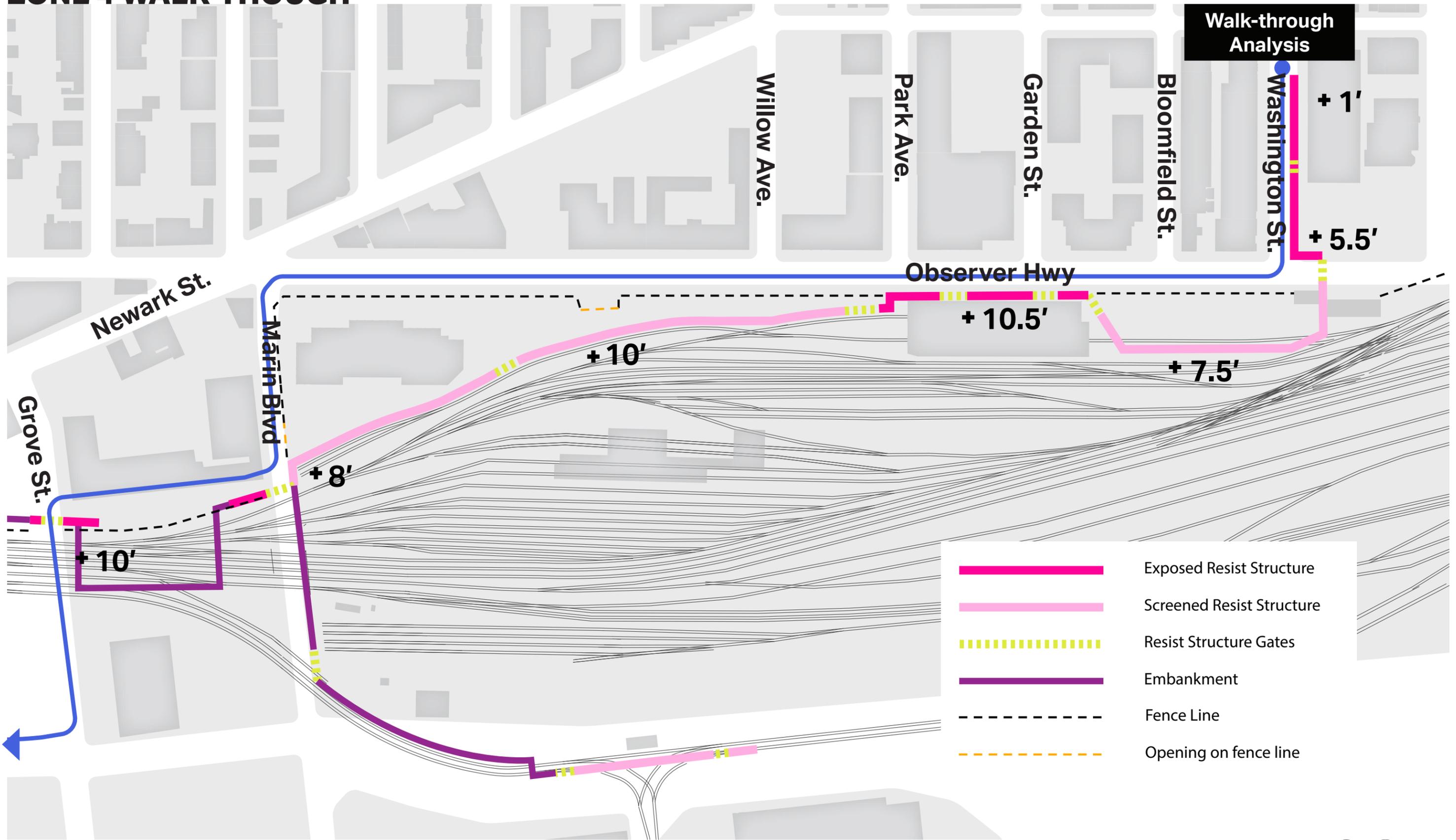
# SOUTHERN ALIGNMENT

## ZONE 4

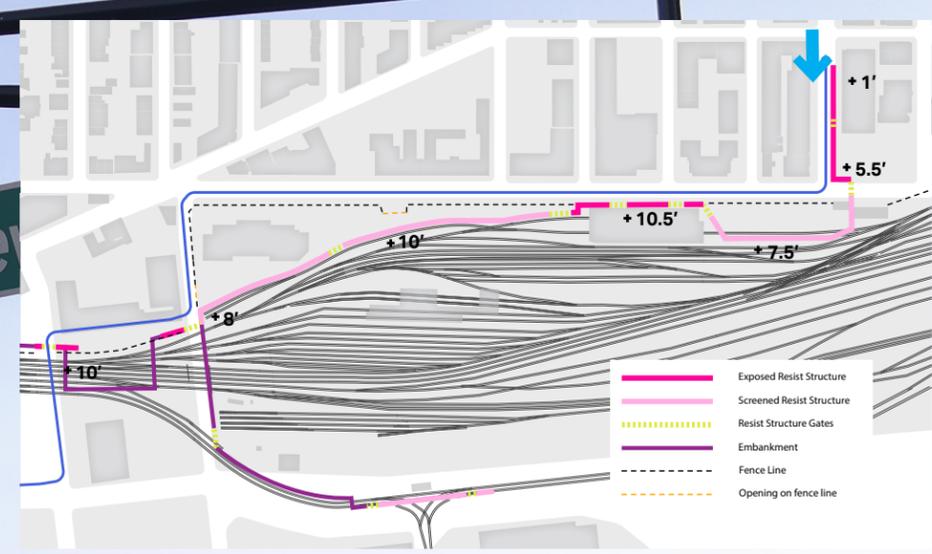


# SOUTHERN ALIGNMENT

## ZONE 4 WALK-THROUGH

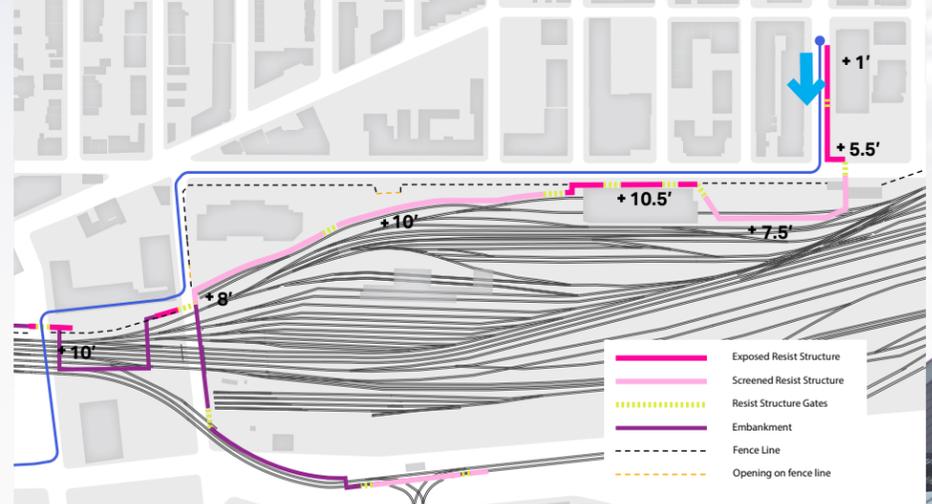


	Exposed Resist Structure
	Screened Resist Structure
	Resist Structure Gates
	Embankment
	Fence Line
	Opening on fence line



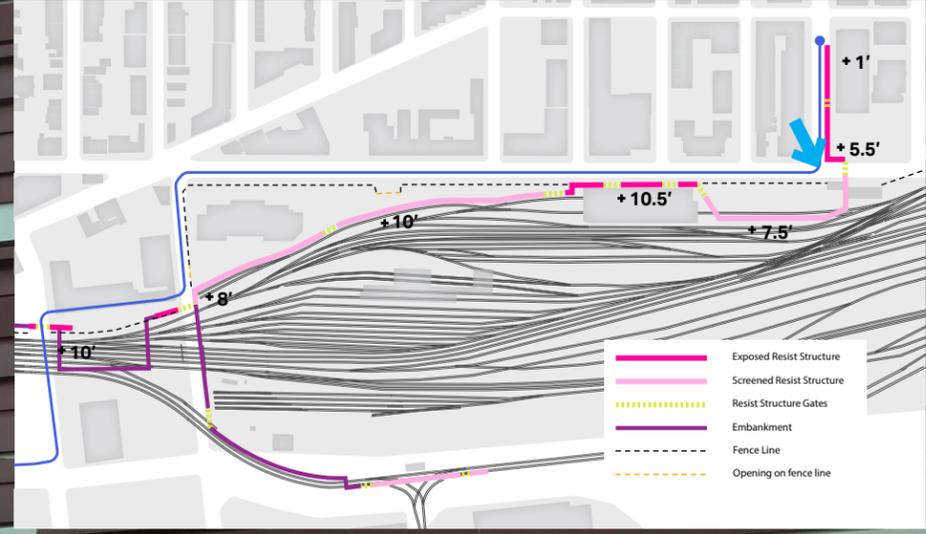


STRUCTURE HEIGHT  
+3.00



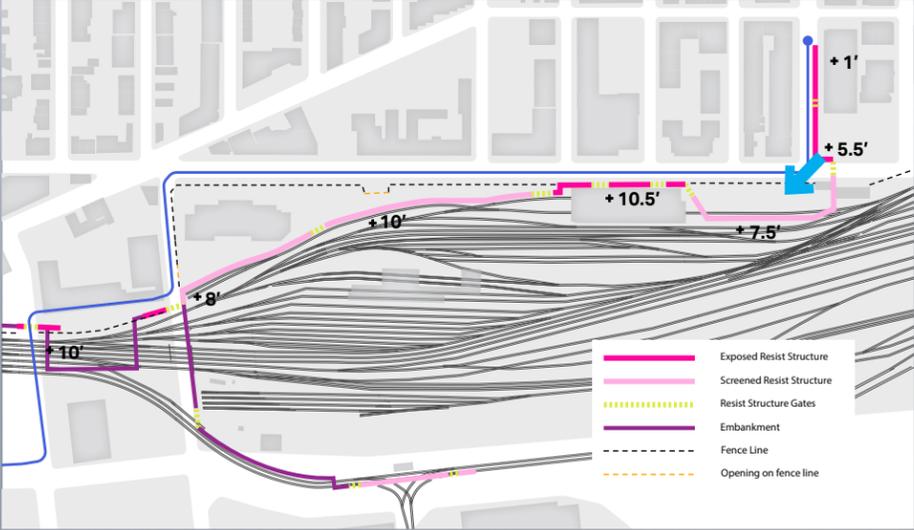


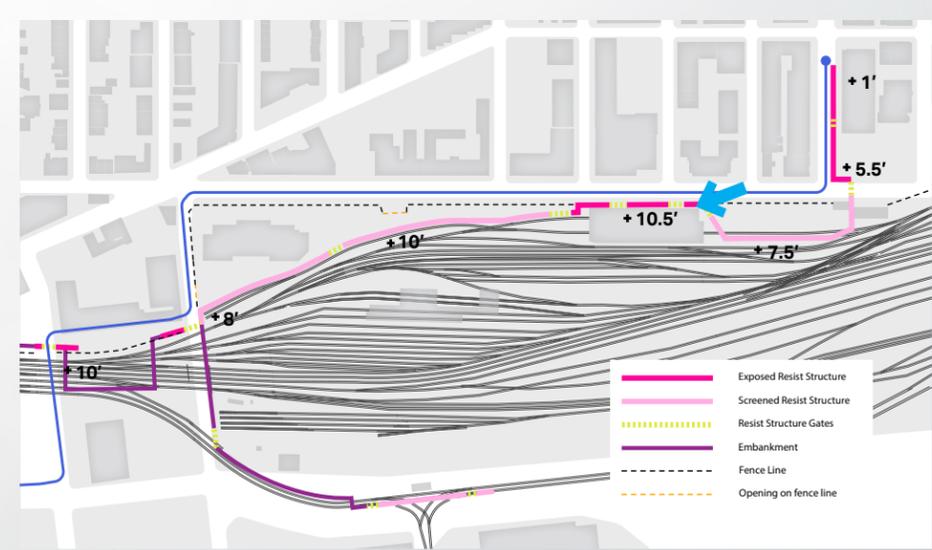
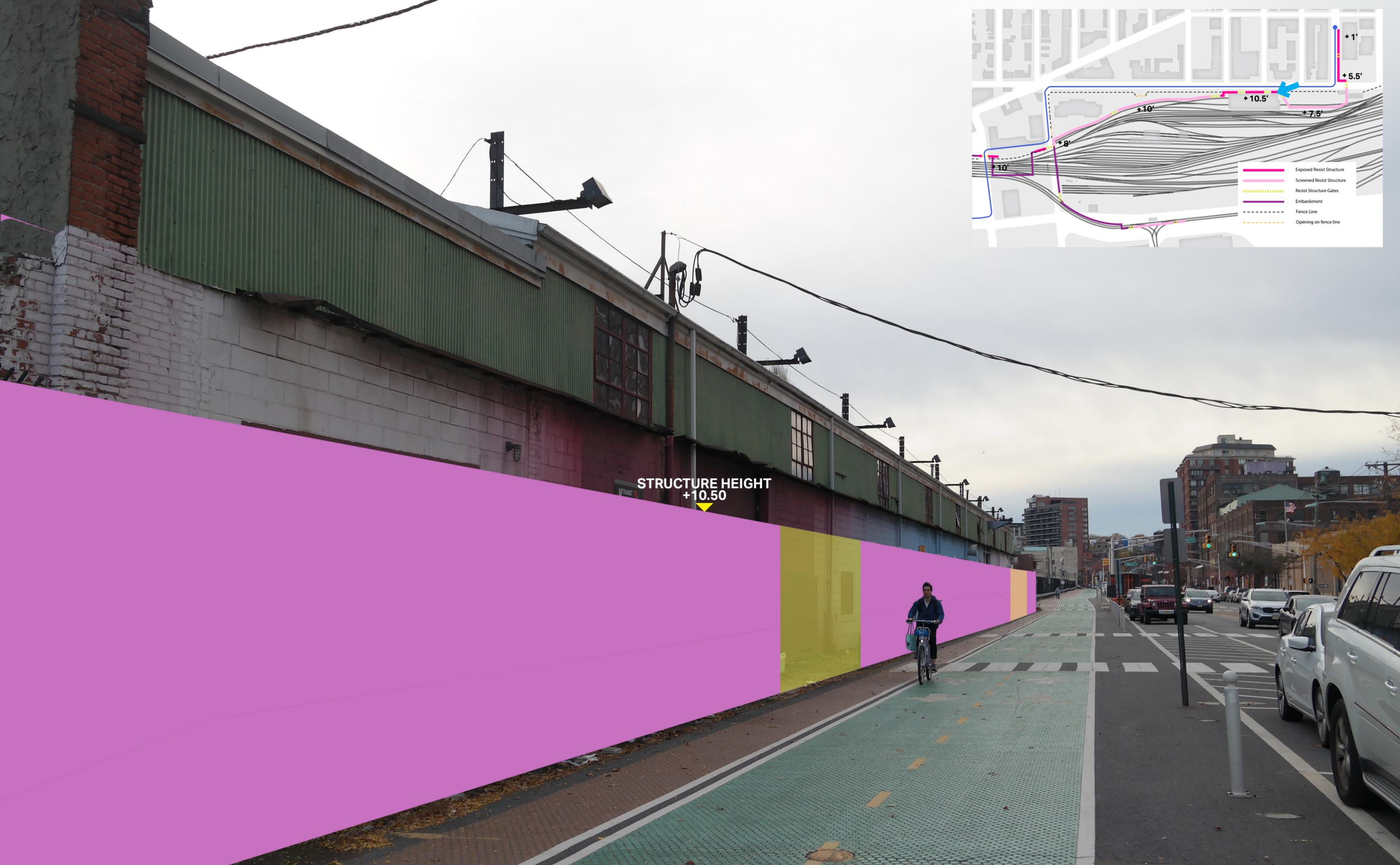
STRUCTURE HEIGHT  
+7.00

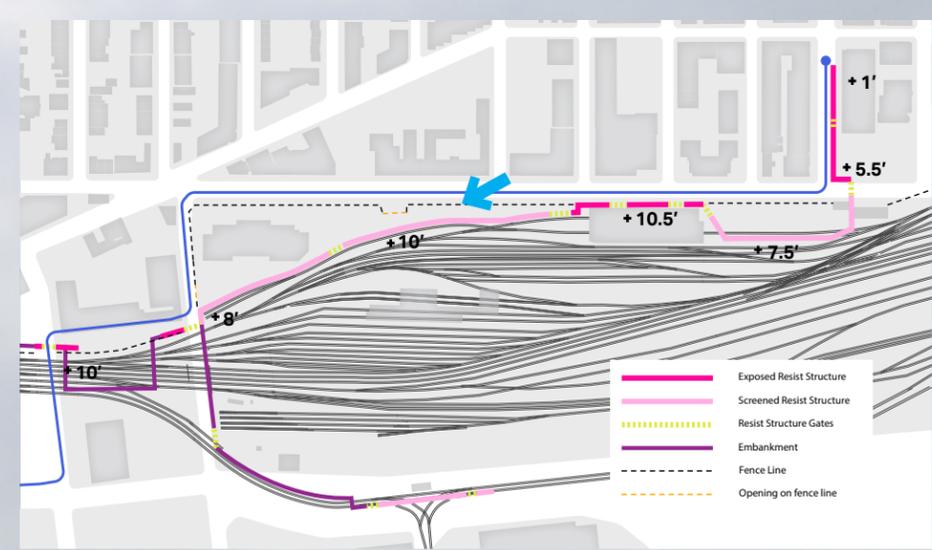




RESIST STRUCTURE NOT VISIBLE FROM SIDEWALK / BIKE PATH ALONG OBSERVER HIGHWAY

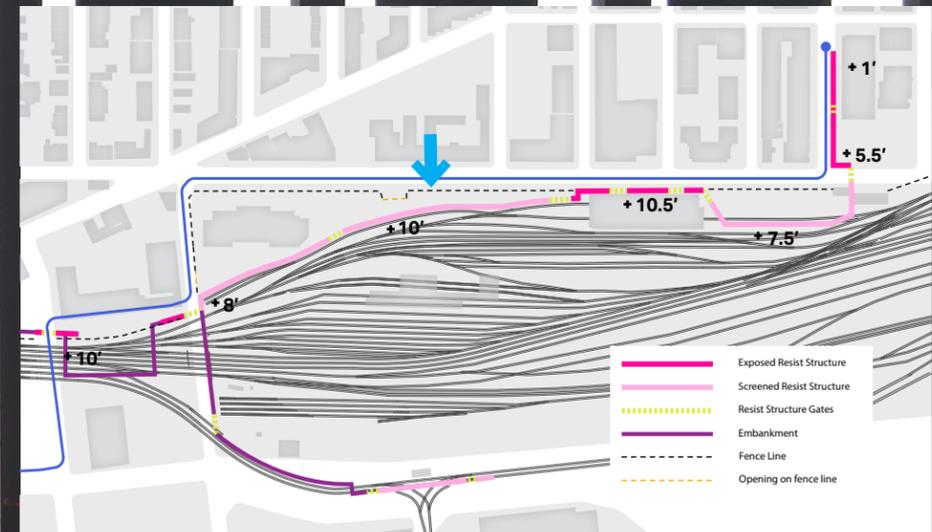


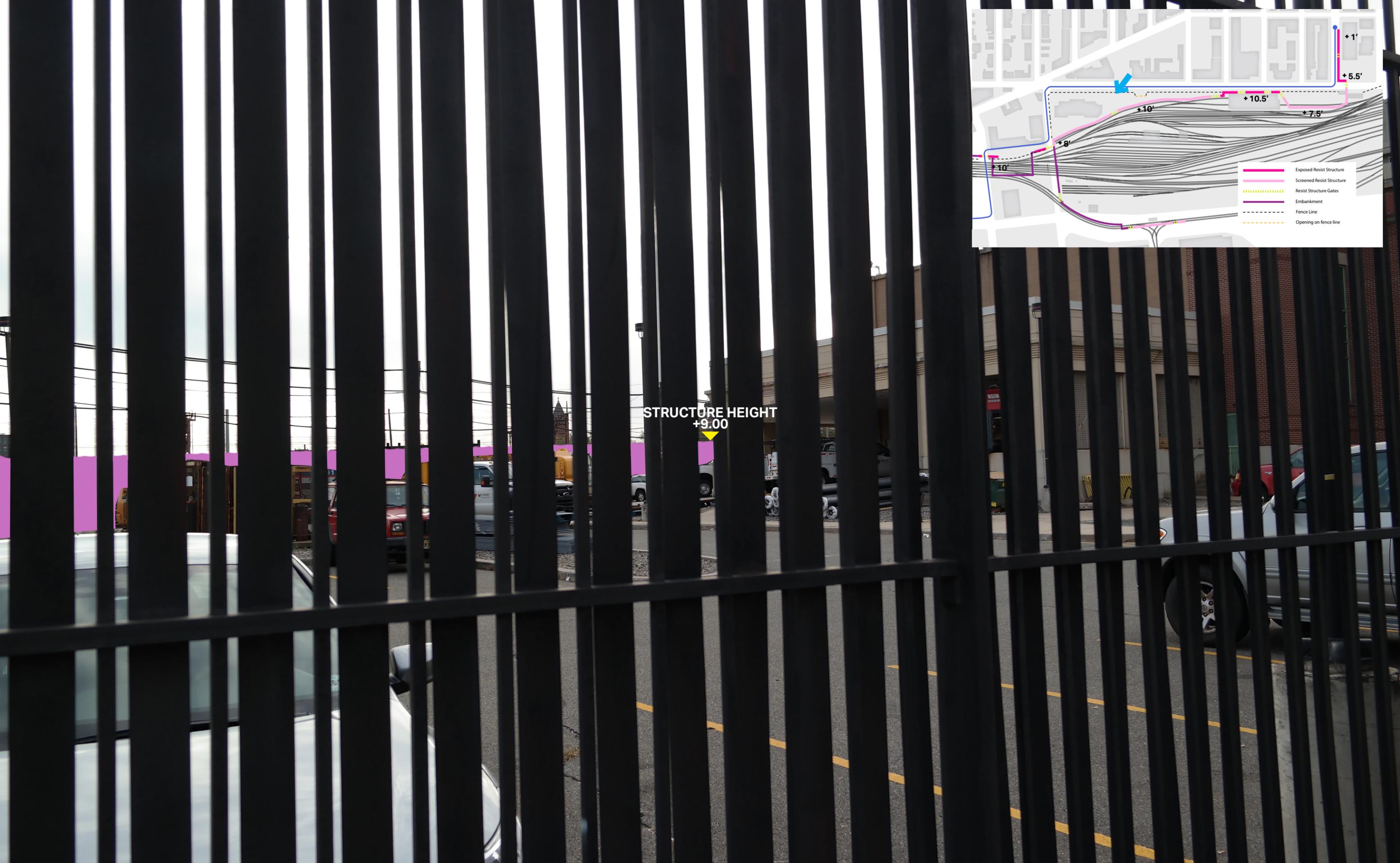




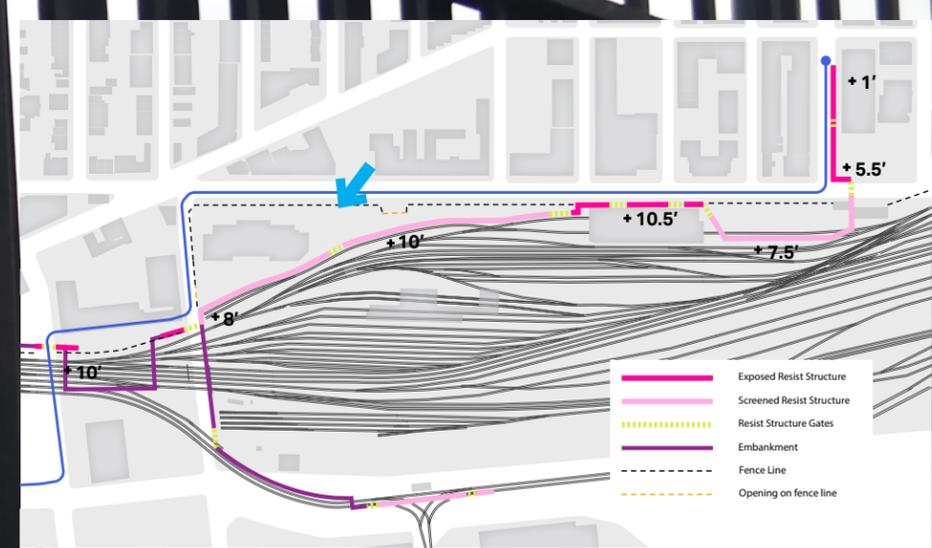


STRUCTURE HEIGHT  
+10.00



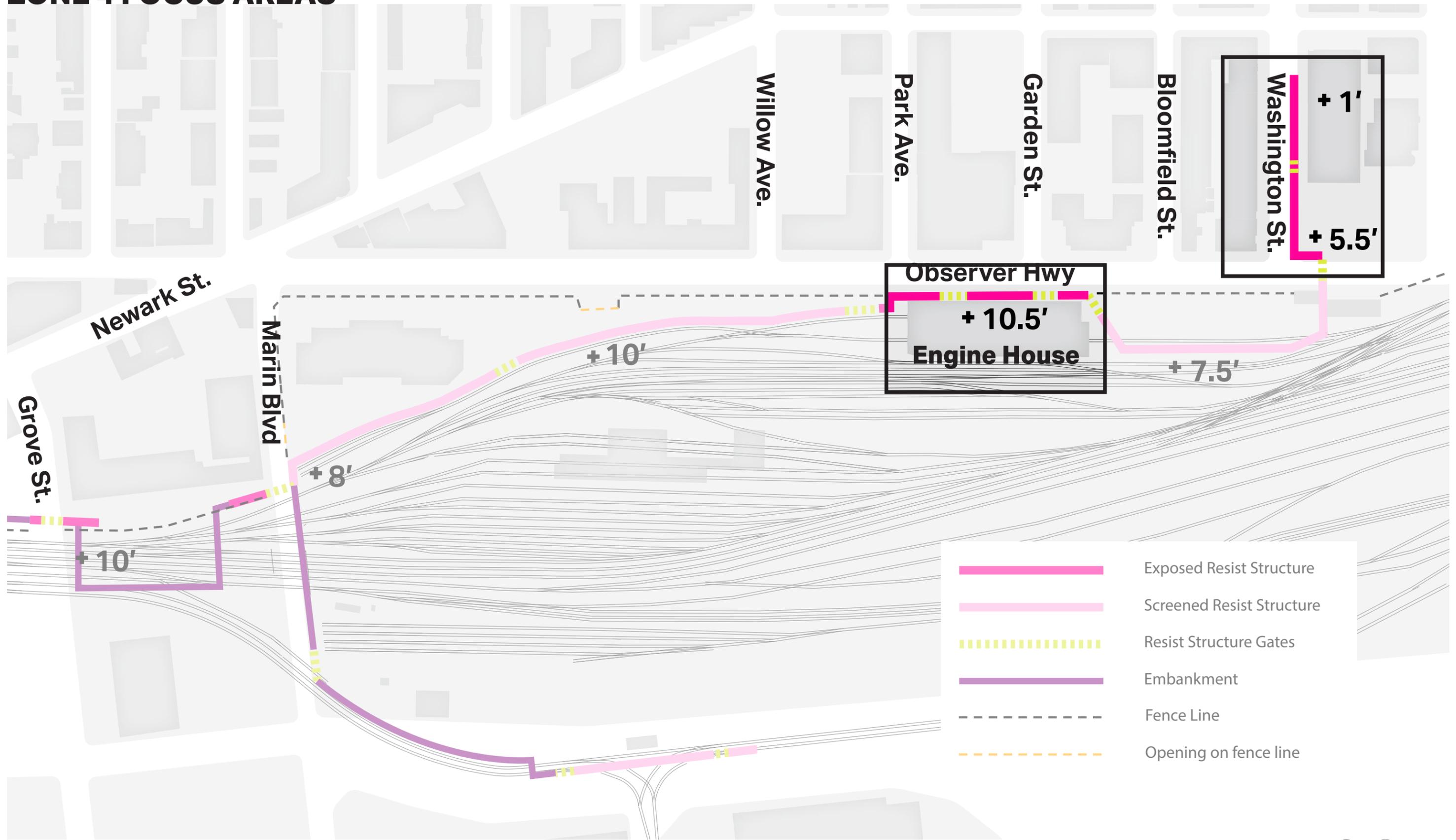


STRUCTURE HEIGHT  
+9.00

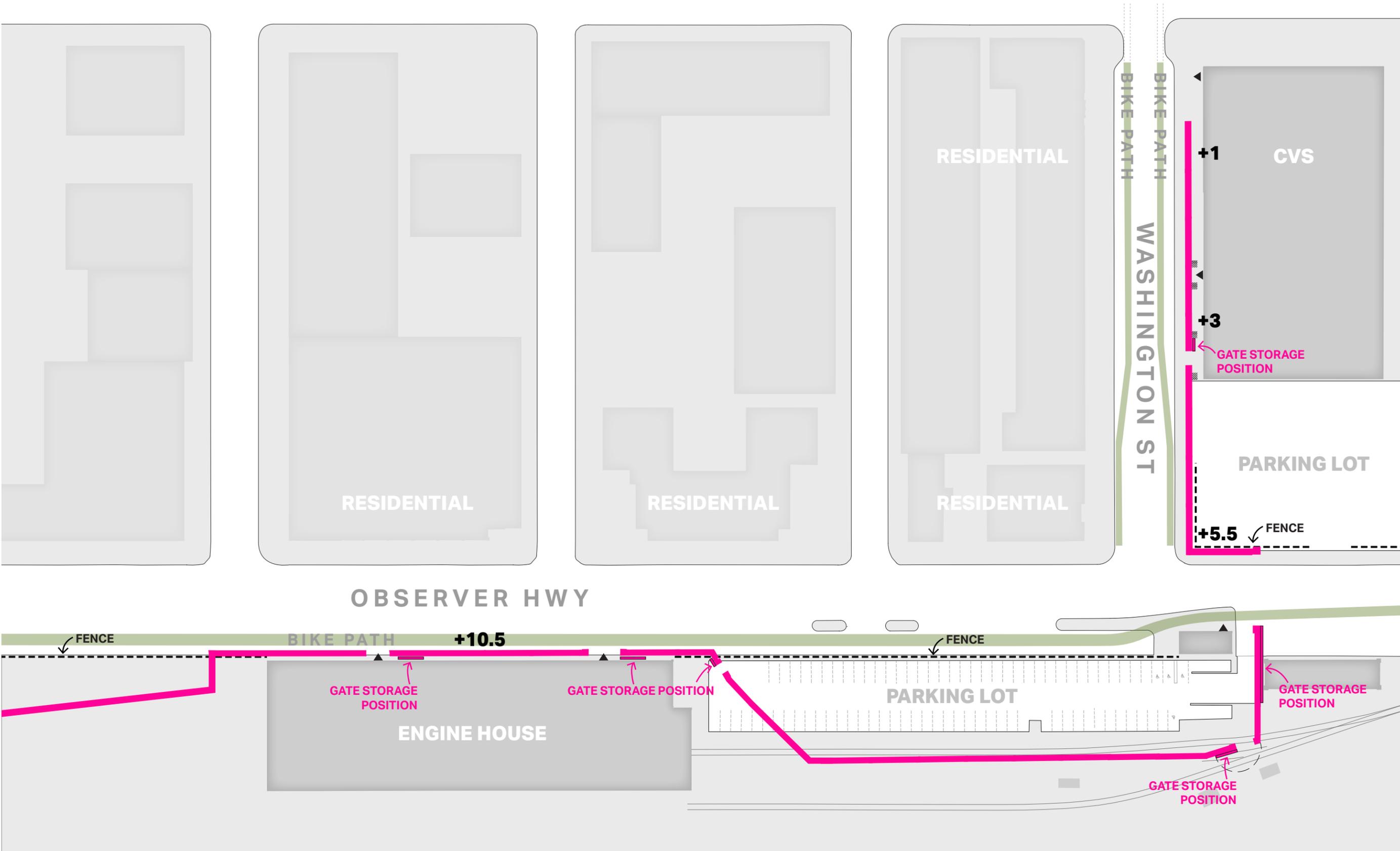


# SOUTHERN ALIGNMENT

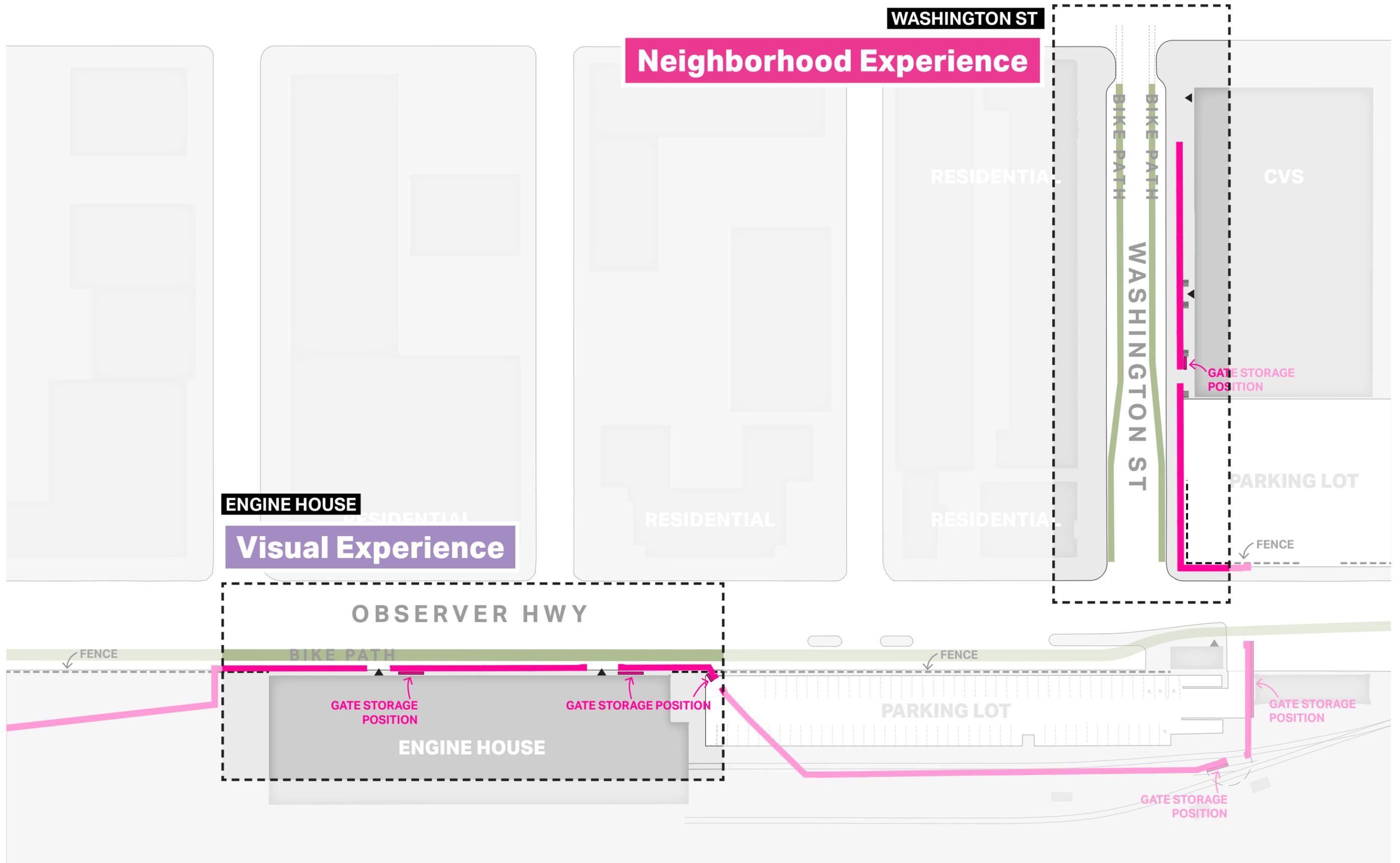
## ZONE 4 FOCUS AREAS



# ZONE 4 FOCUS AREAS



# ZONE 4 FOCUS AREA



# EXISTING CONDITIONS

WASHINGTON ST.

CVS

OVERHANG TRANSPARENT FOR VISIBILITY

STREET LIGHT

BIKE PATH

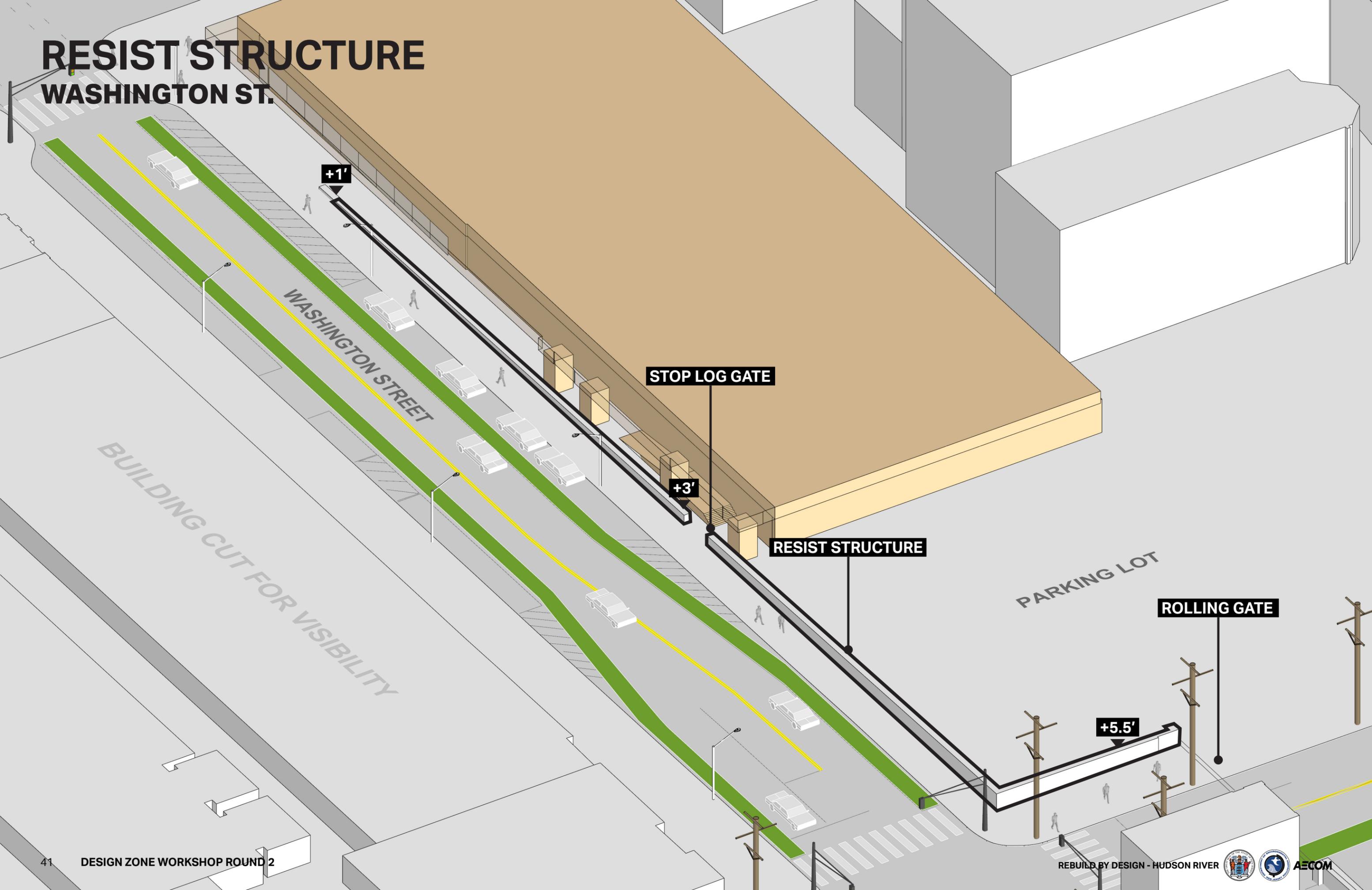
CHAINLINK FENCE

BUILDING CUT FOR VISIBILITY

PARKING LOT

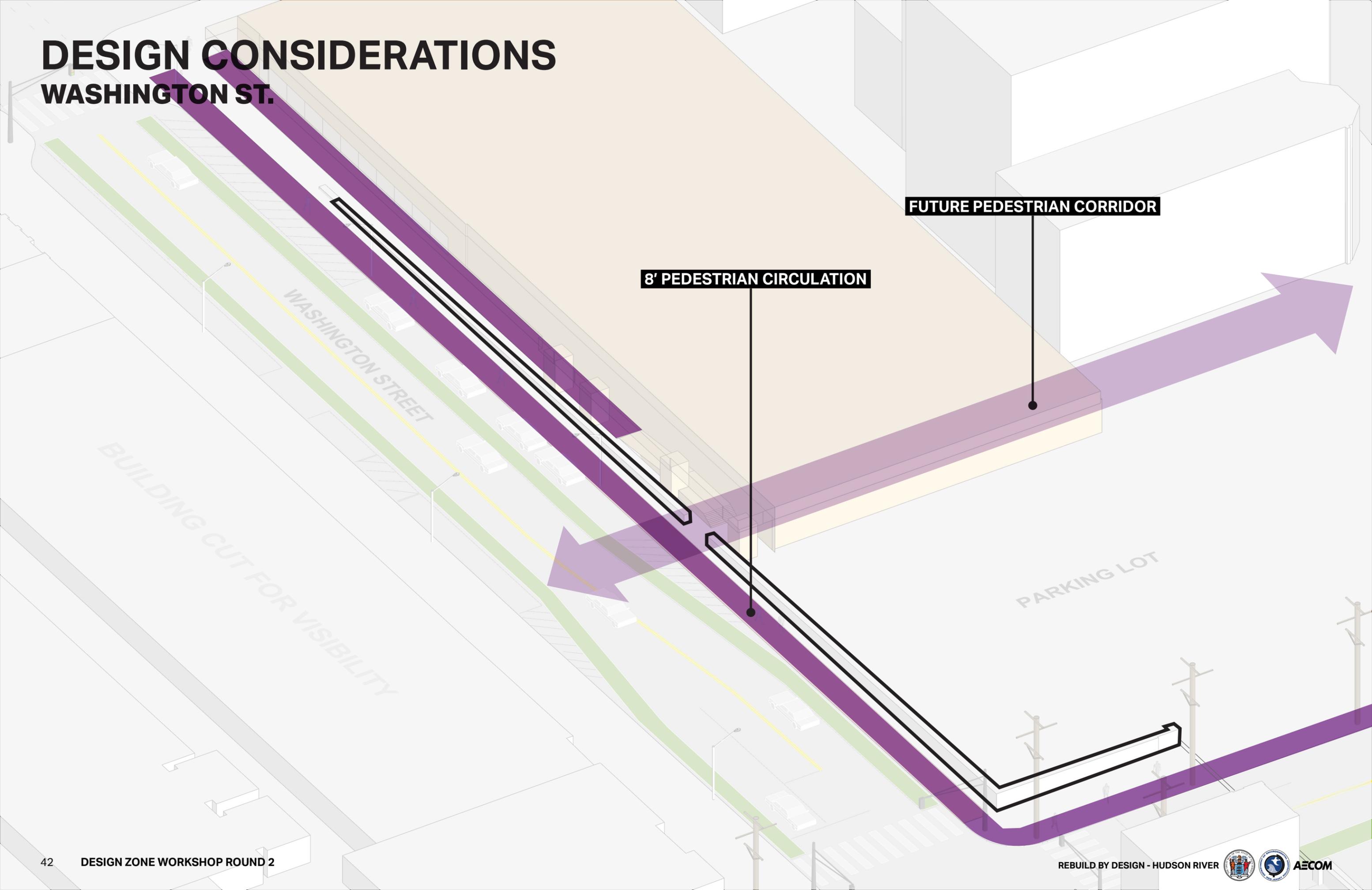


# RESIST STRUCTURE WASHINGTON ST.



# DESIGN CONSIDERATIONS

## WASHINGTON ST.



FUTURE PEDESTRIAN CORRIDOR

8' PEDESTRIAN CIRCULATION

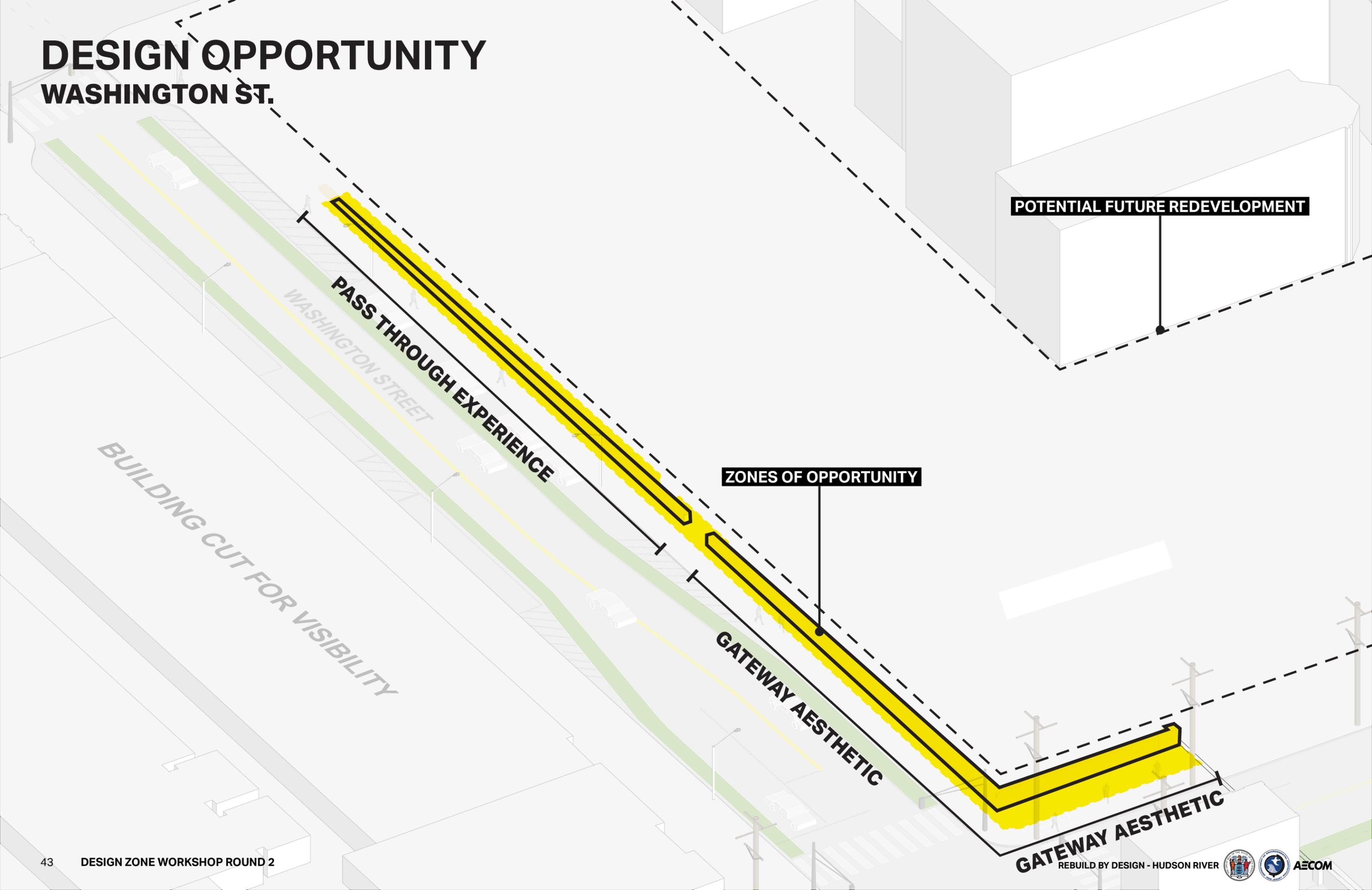
BUILDING CUT FOR VISIBILITY

WASHINGTON STREET

PARKING LOT

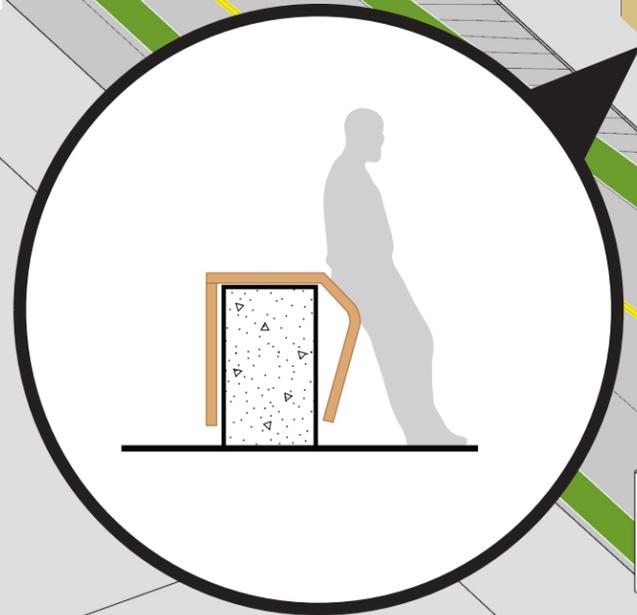
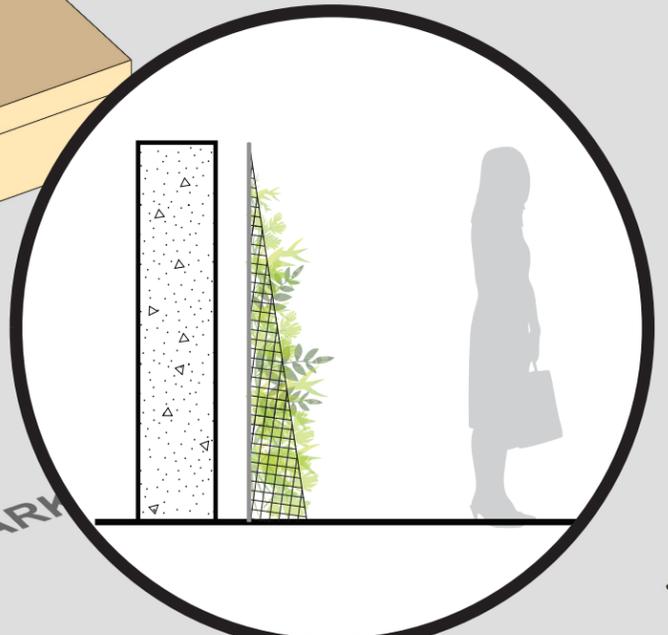


# DESIGN OPPORTUNITY WASHINGTON ST.



# MATERIALITY & PROGRAM

## WASHINGTON ST.



+1'

+3'

+5.5'

BUILDING CUT FOR VISIBILITY

# MATERIALITY & PROGRAM

## WASHINGTON ST.



Wooden texture



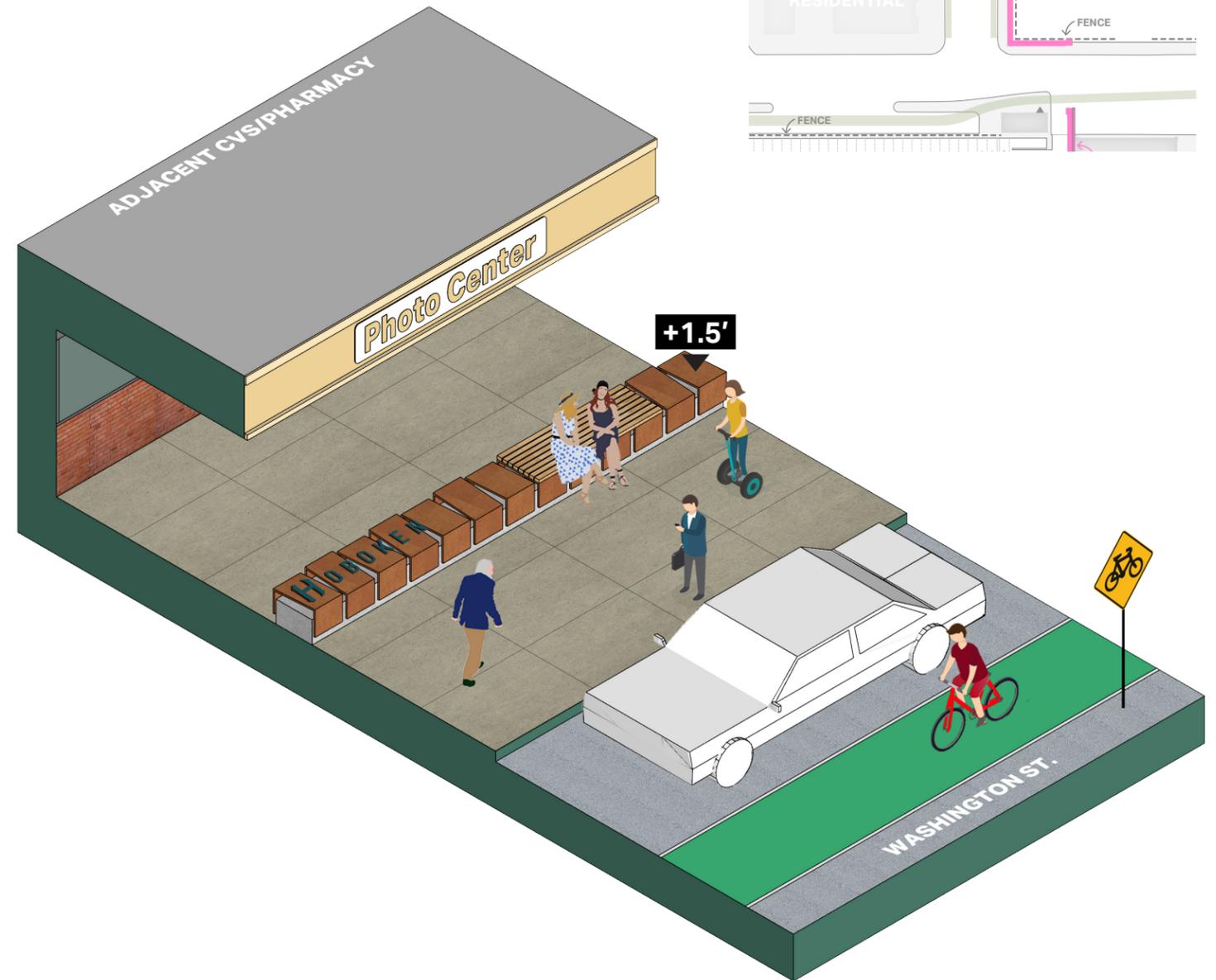
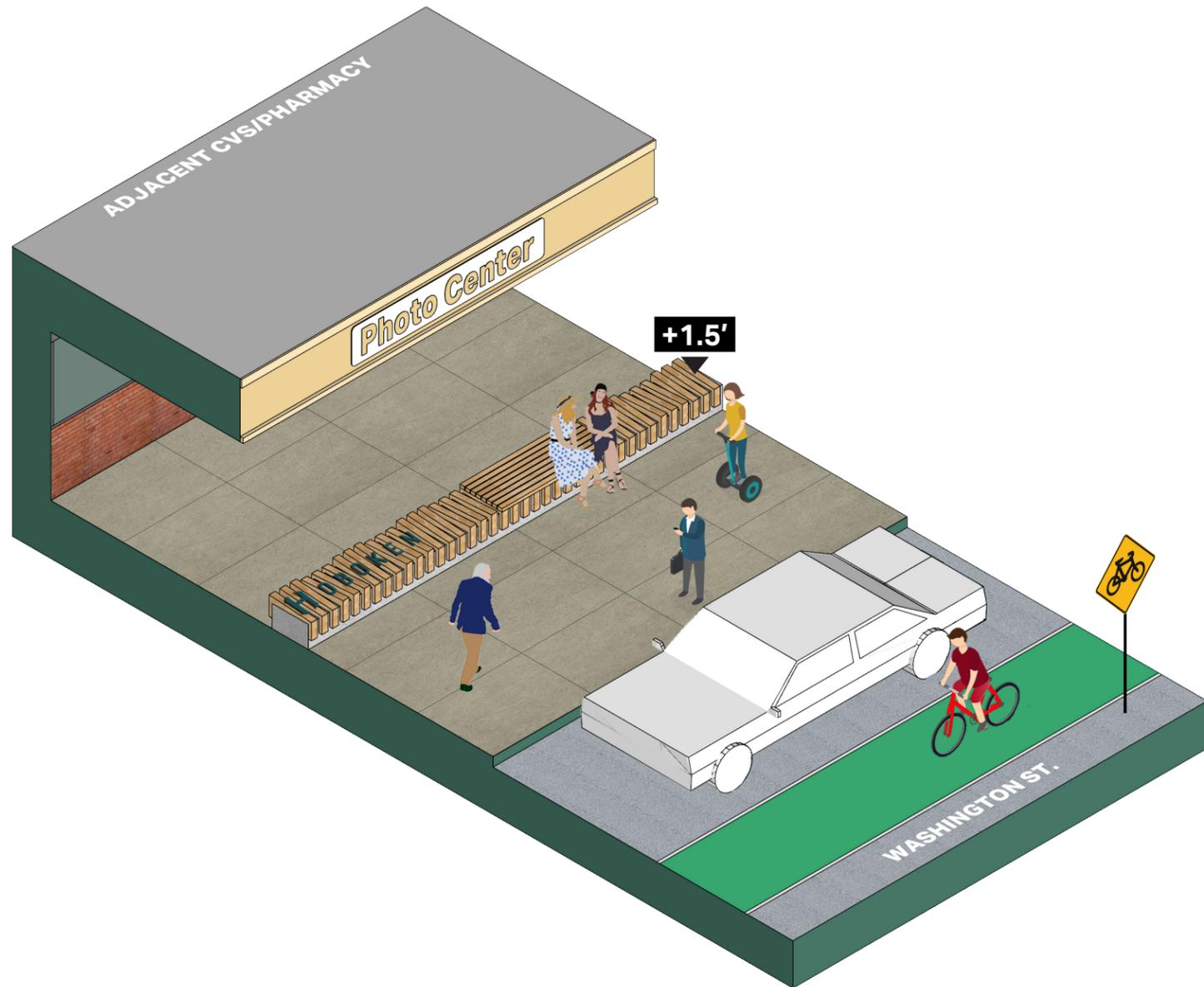
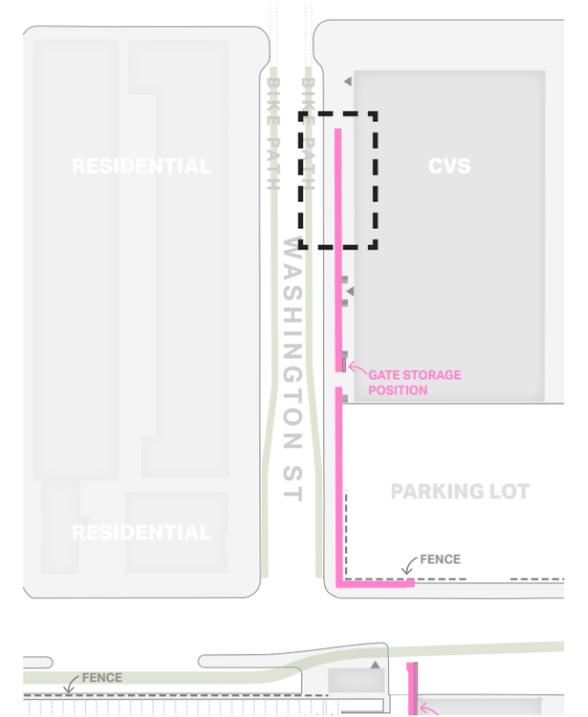
Weathered metal



Stone texture



Aggregate texture



Signage & Seating & Skate Stop

# MATERIALITY & PROGRAM

## WASHINGTON ST.



Wooden texture



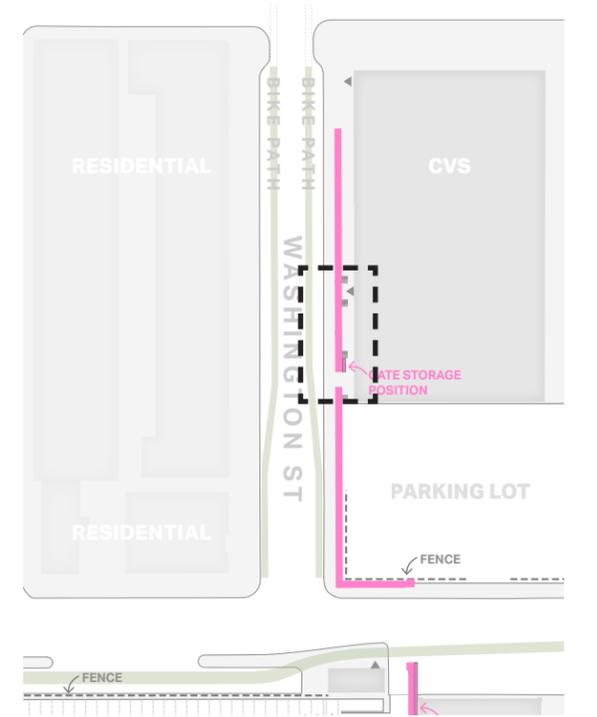
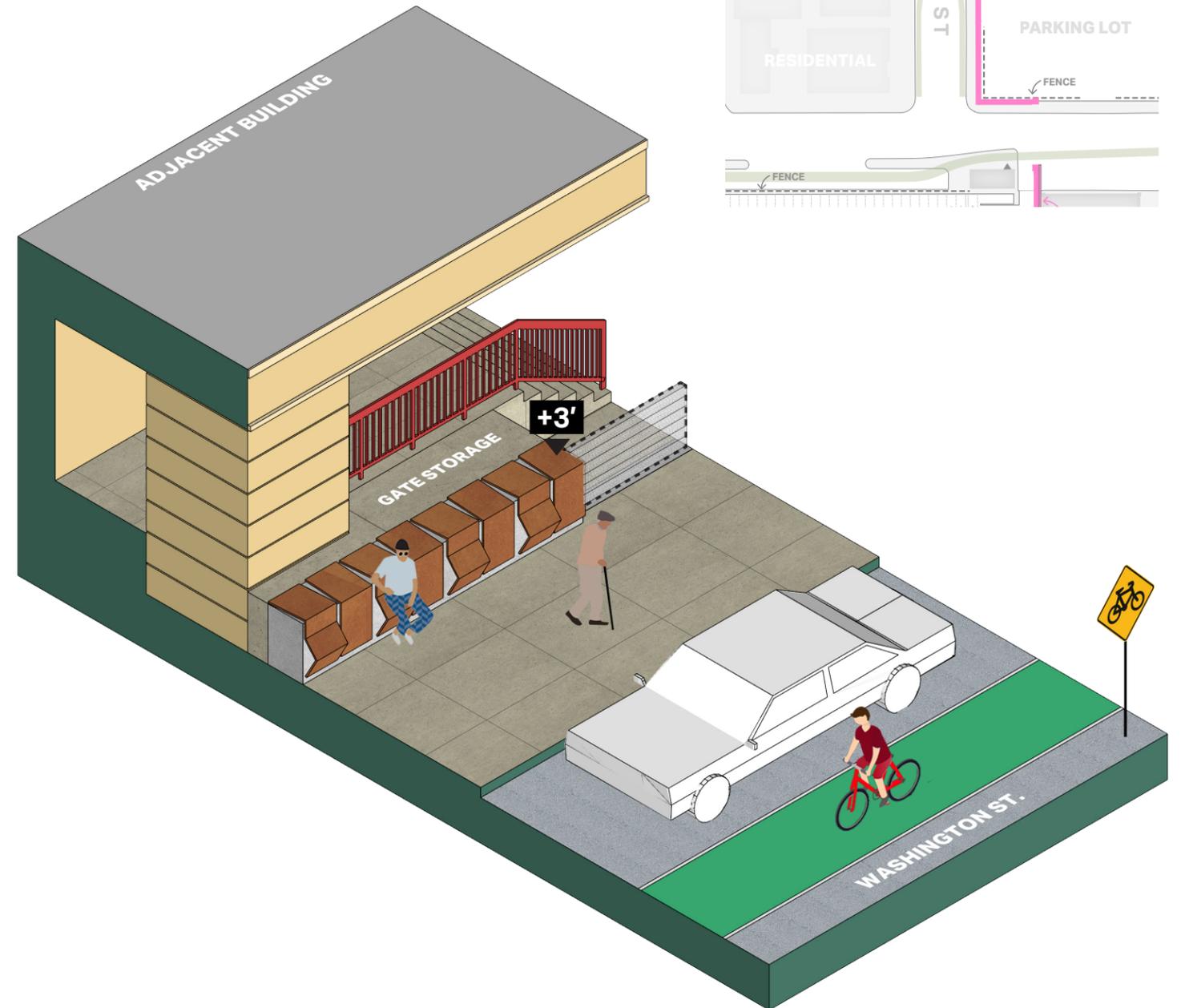
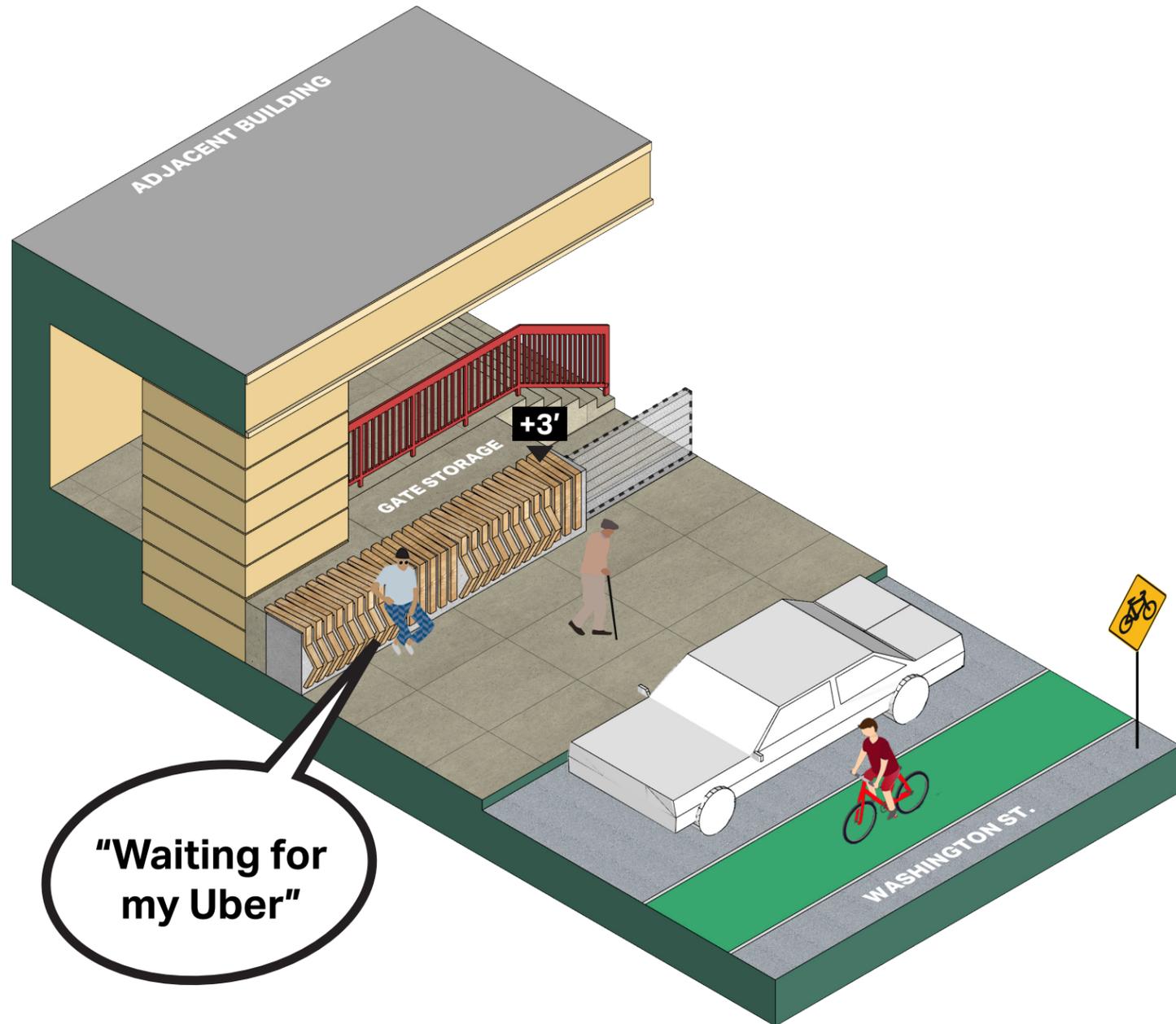
Weathered metal



Stone texture



Aggregate texture



Stand Lean & Gate Storage

# MATERIALITY & PROGRAM

## WASHINGTON ST.



Wooden texture



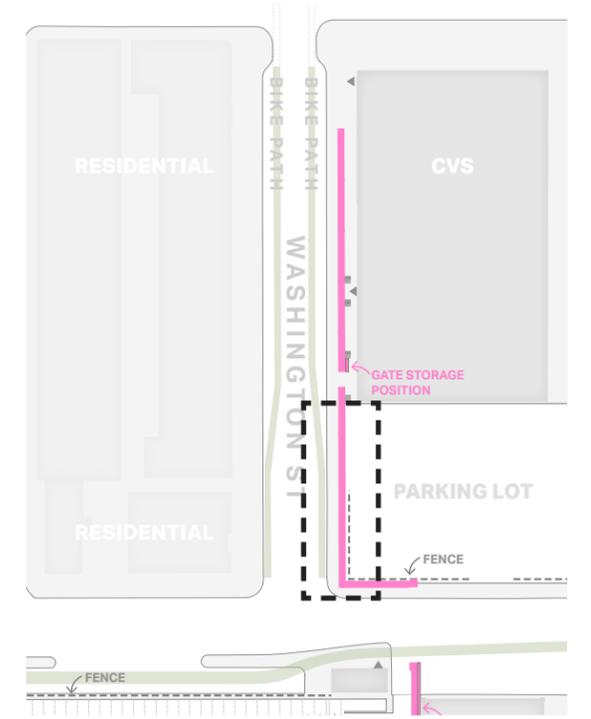
Weathered metal



Stone texture



Aggregate texture



"Gateway of our city!"

"Love the greenery!"



### Greenery & Signage

# MATERIALITY & PROGRAM

## WASHINGTON ST.



Wooden texture



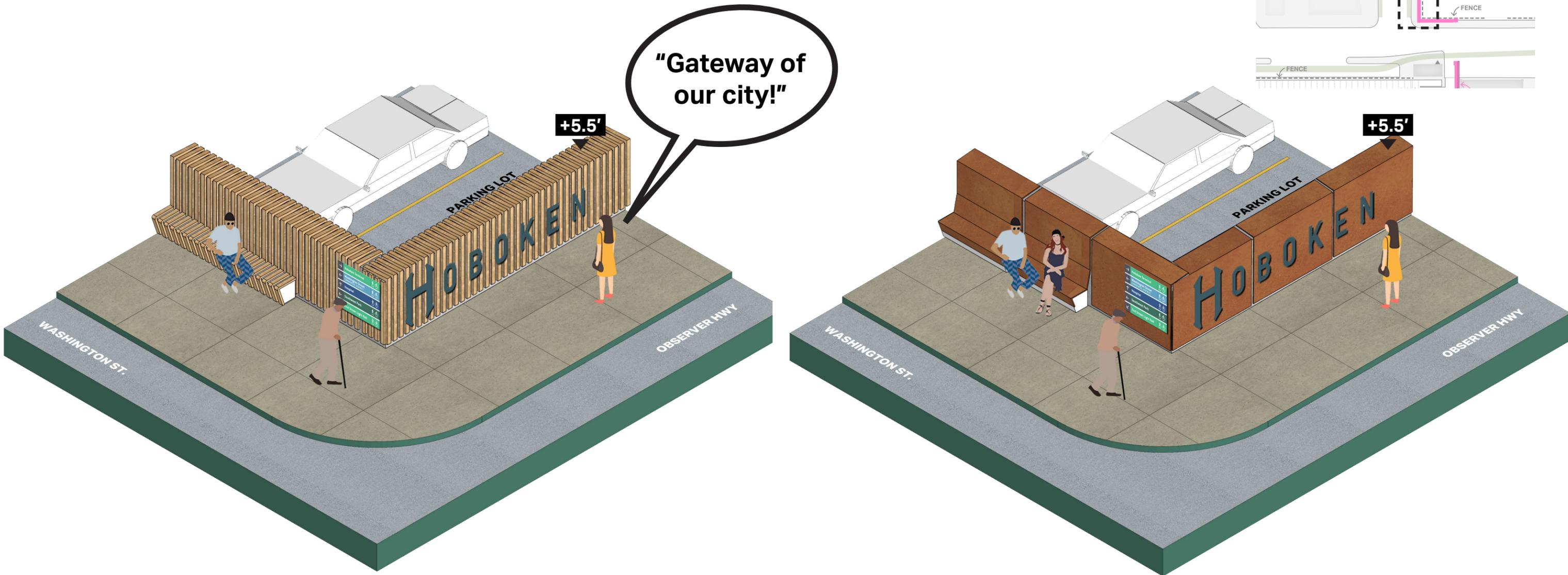
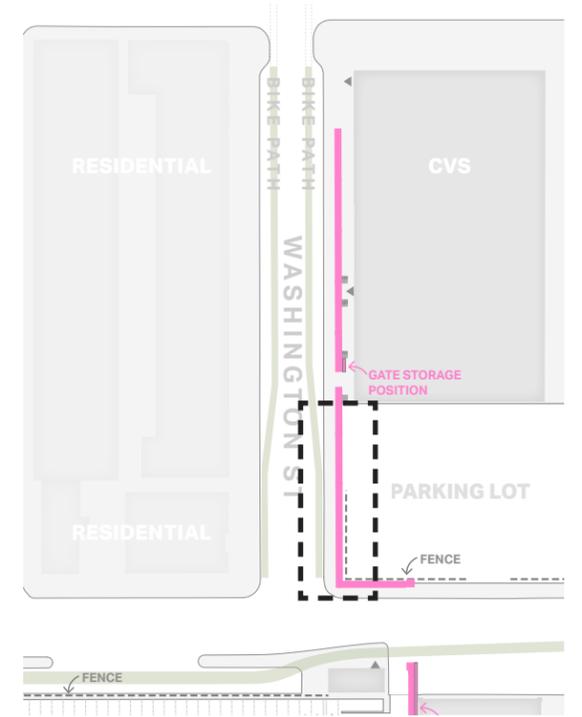
Weathered metal



Stone texture



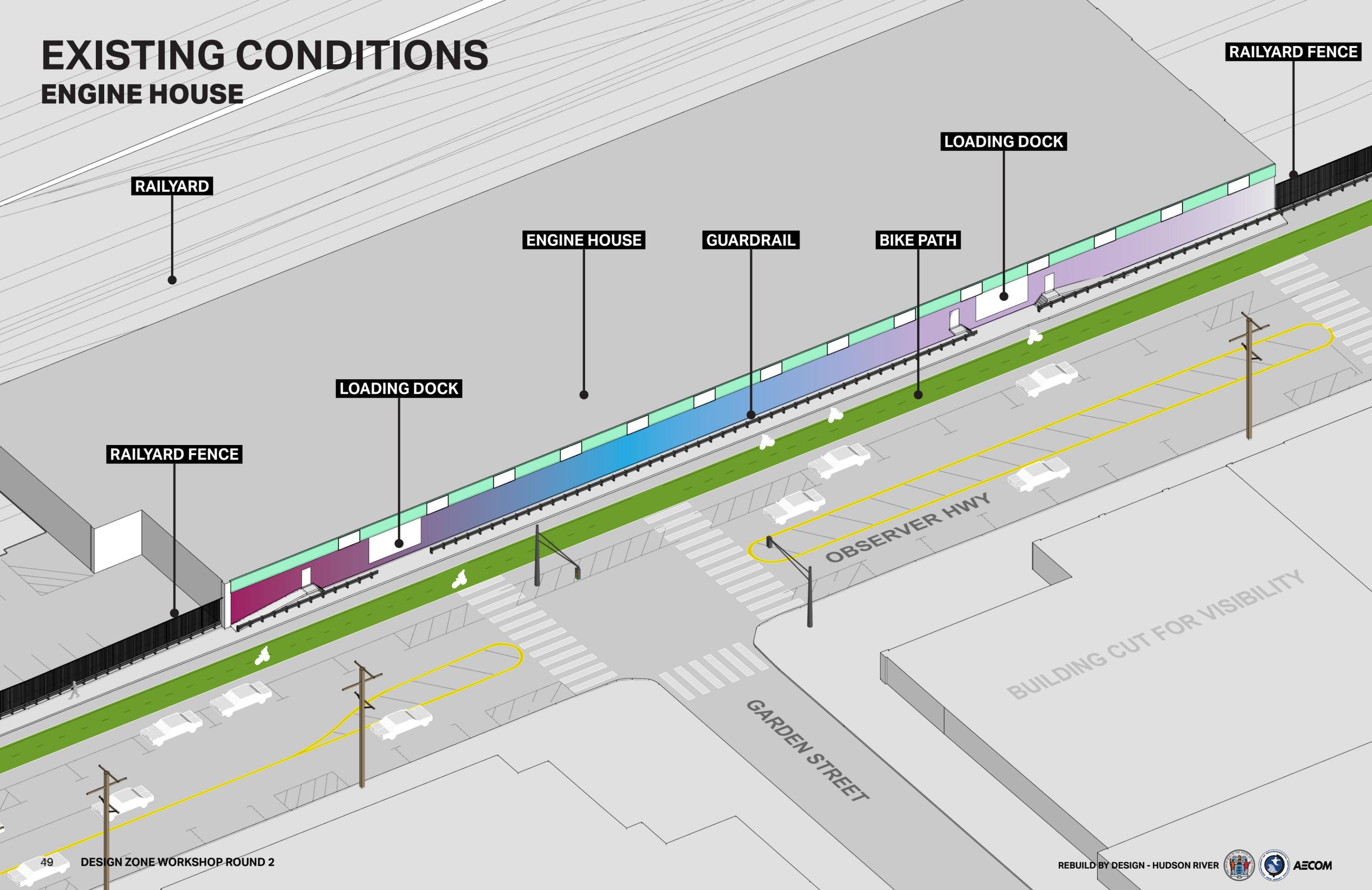
Aggregate texture



### Signage & Wayfinding & Seating

# EXISTING CONDITIONS

## ENGINE HOUSE



RAILYARD

RAILYARD FENCE

LOADING DOCK

ENGINE HOUSE

GUARDRAIL

BIKE PATH

LOADING DOCK

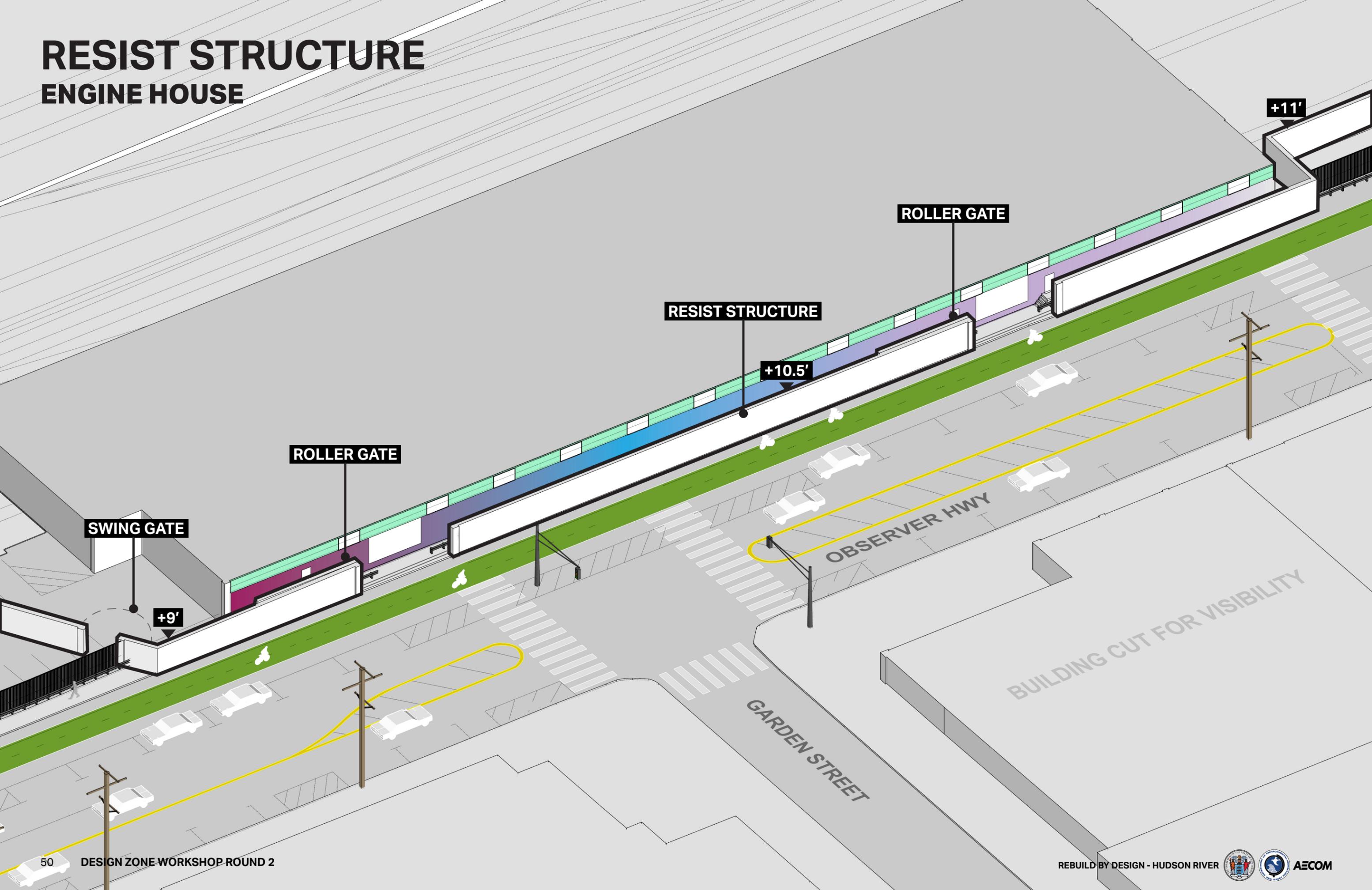
RAILYARD FENCE

OBSERVER HWY

GARDEN STREET

BUILDING CUT FOR VISIBILITY

# RESIST STRUCTURE ENGINE HOUSE



SWING GATE

+9'

ROLLER GATE

RESIST STRUCTURE

+10.5'

ROLLER GATE

+11'

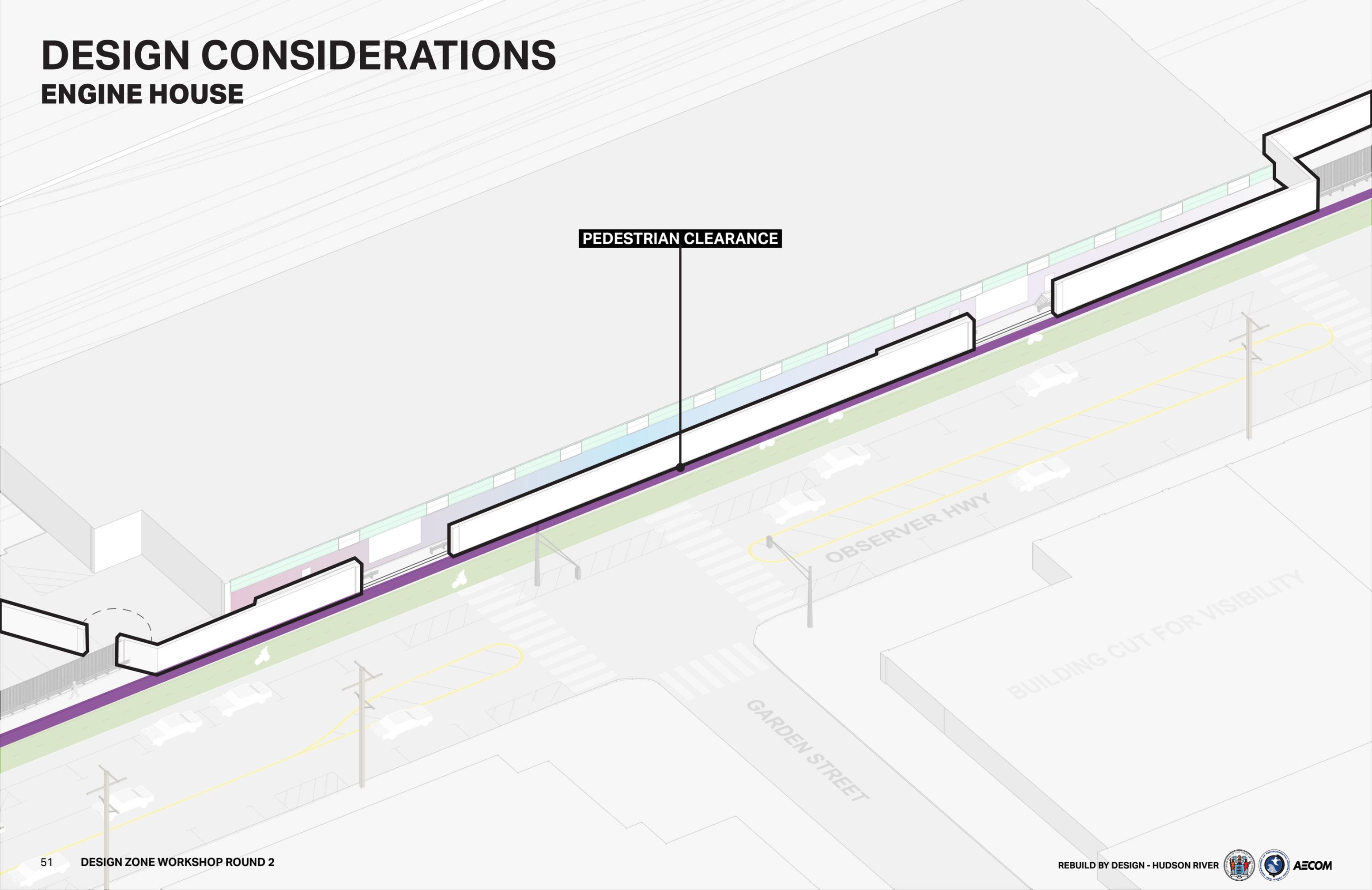
OBSERVER HWY

GARDEN STREET

BUILDING CUT FOR VISIBILITY

# DESIGN CONSIDERATIONS

## ENGINE HOUSE



PEDESTRIAN CLEARANCE

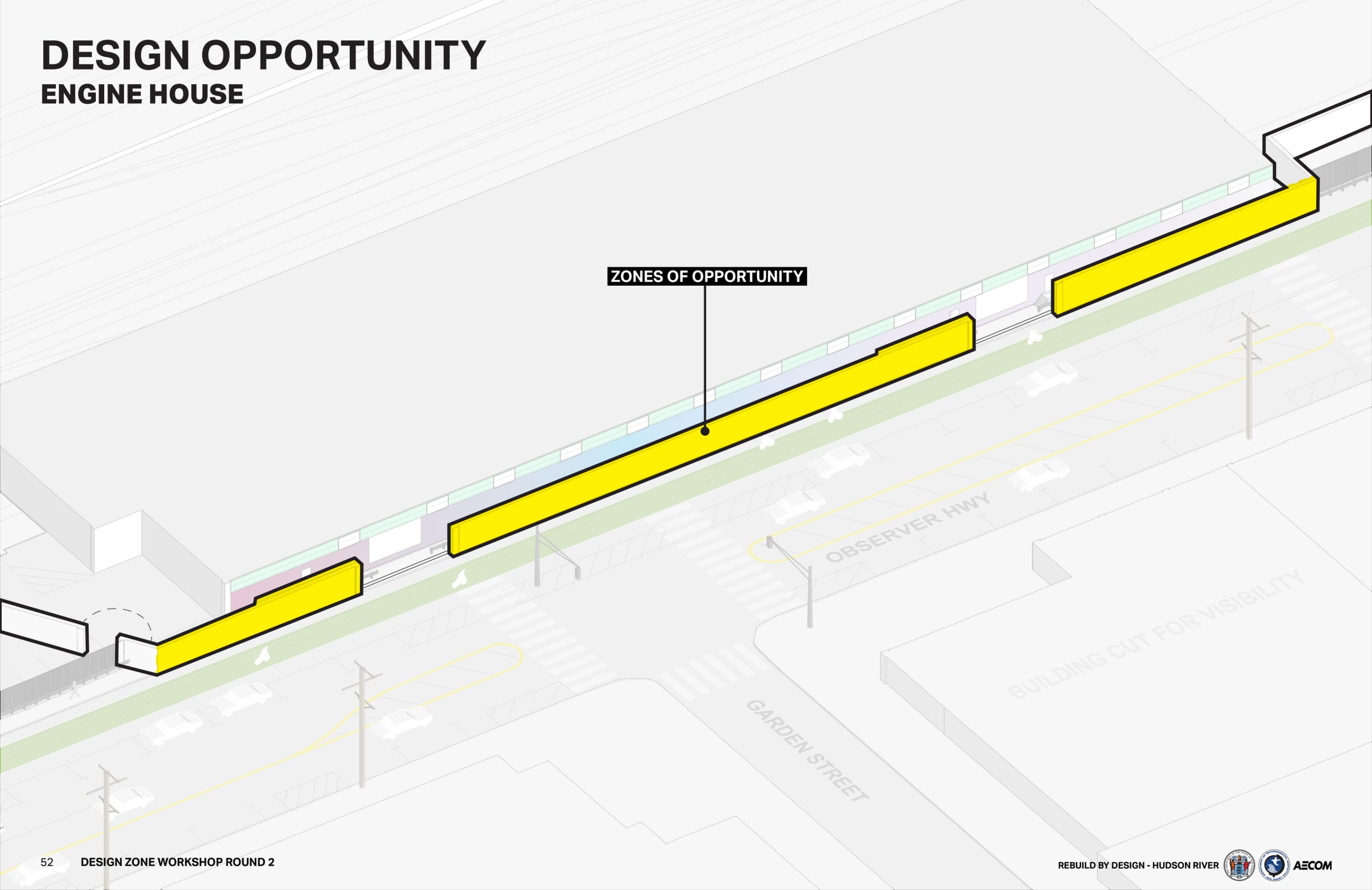
OBSERVER HWY

GARDEN STREET

BUILDING CUT FOR VISIBILITY

# DESIGN OPPORTUNITY

## ENGINE HOUSE



ZONES OF OPPORTUNITY

OBSERVER HWY

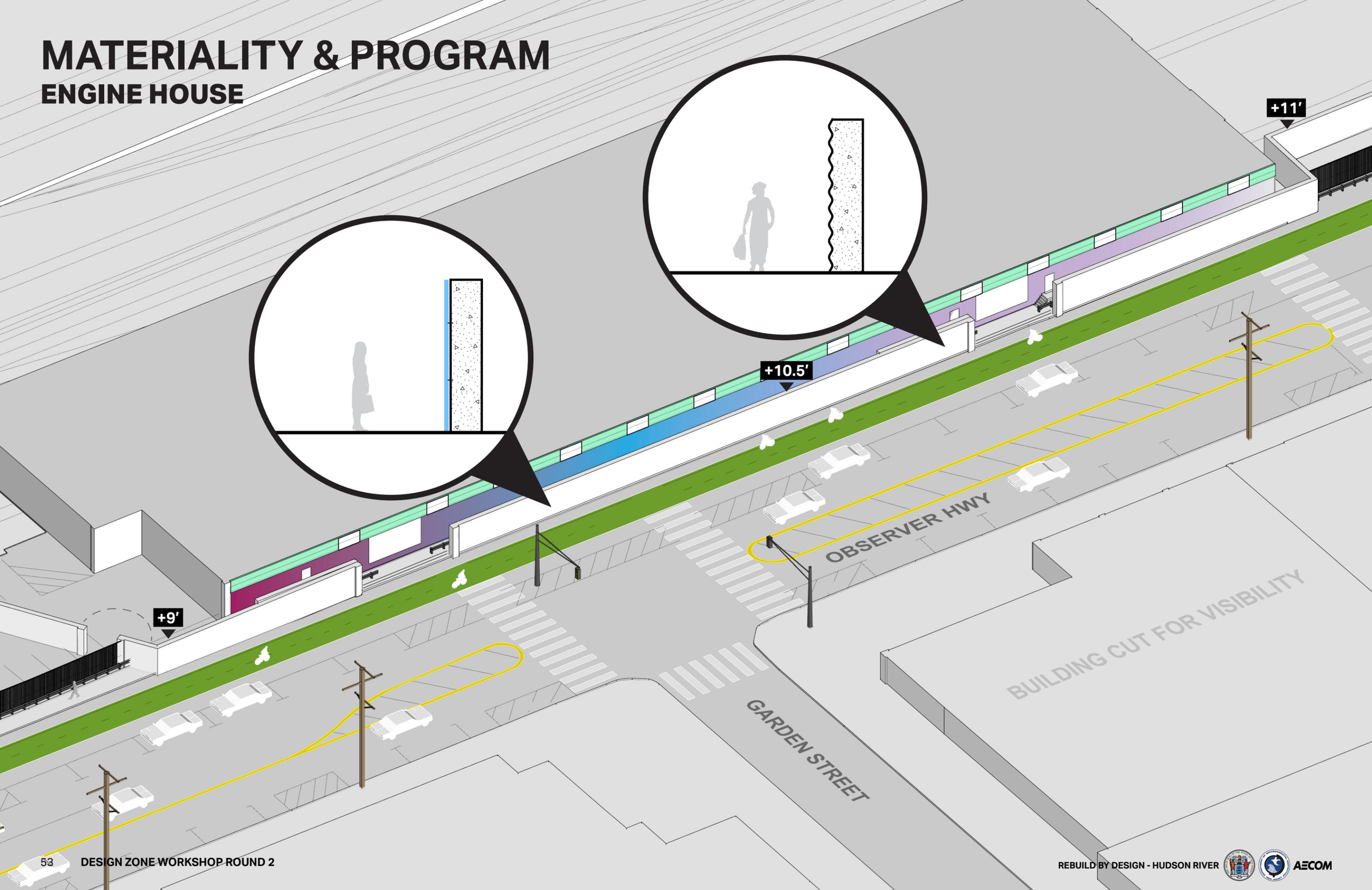
GARDEN STREET

BUILDING CUT FOR VISIBILITY



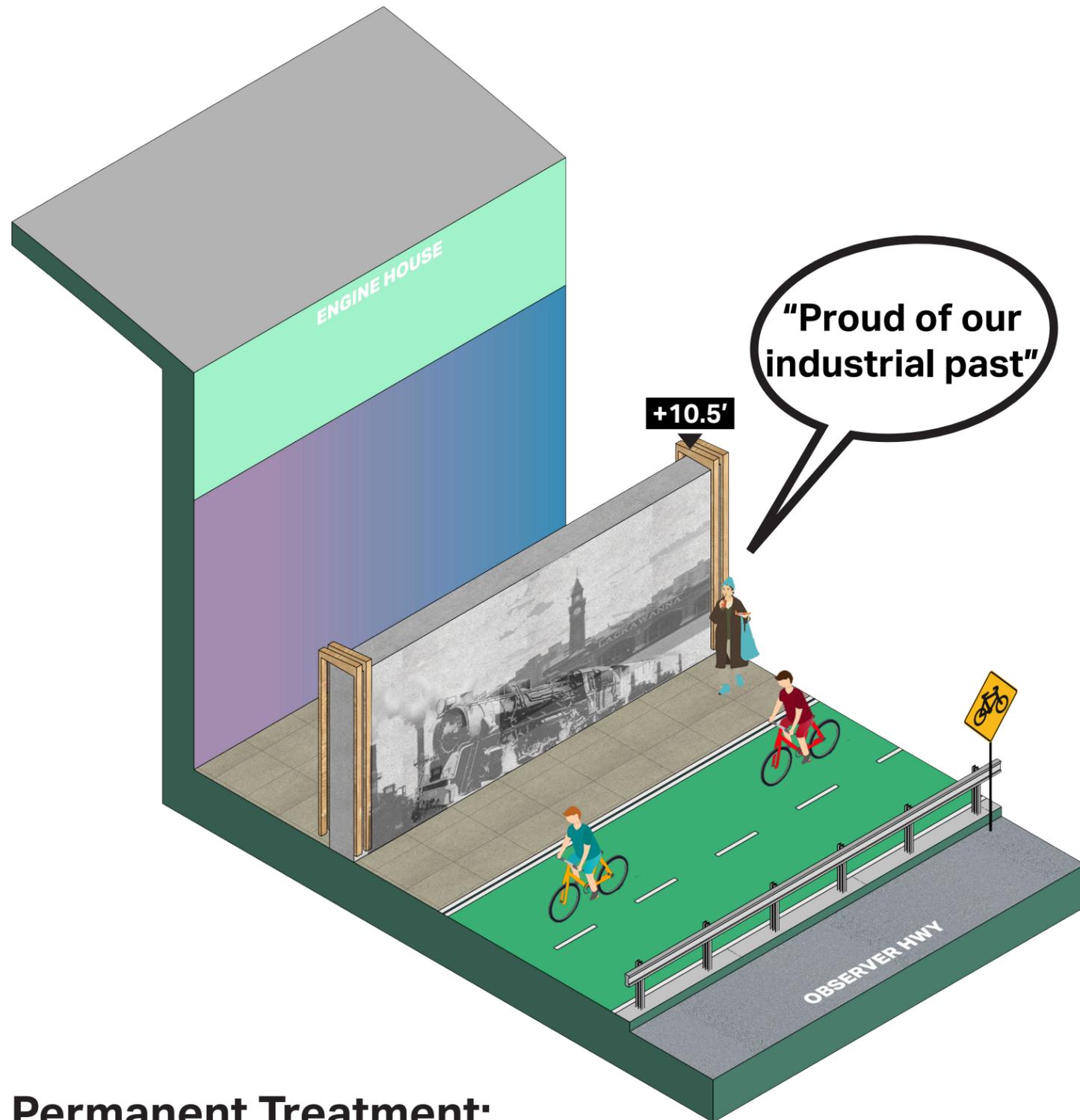
# MATERIALITY & PROGRAM

## ENGINE HOUSE

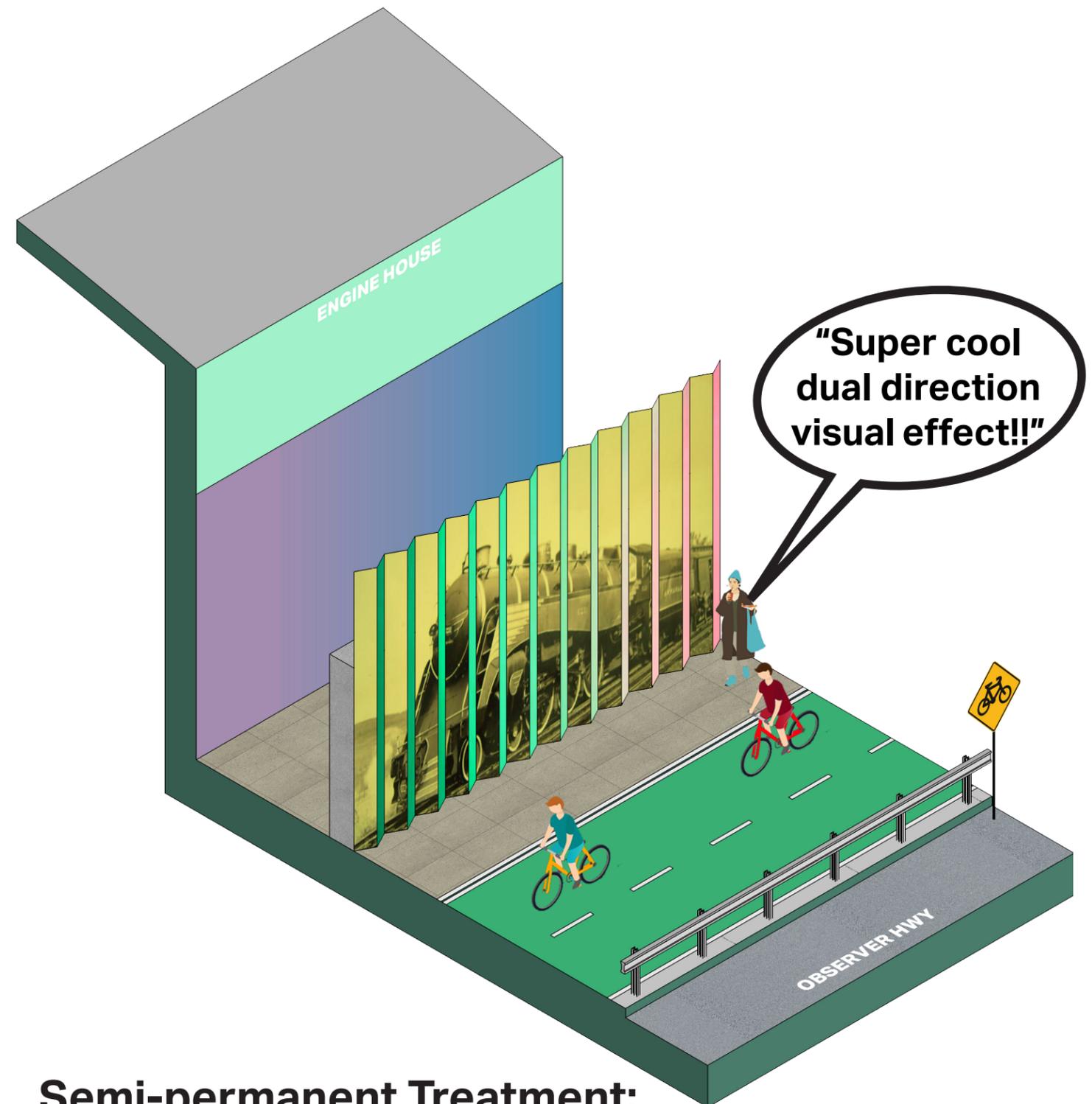


# MATERIALITY & PROGRAM

## ENGINE HOUSE



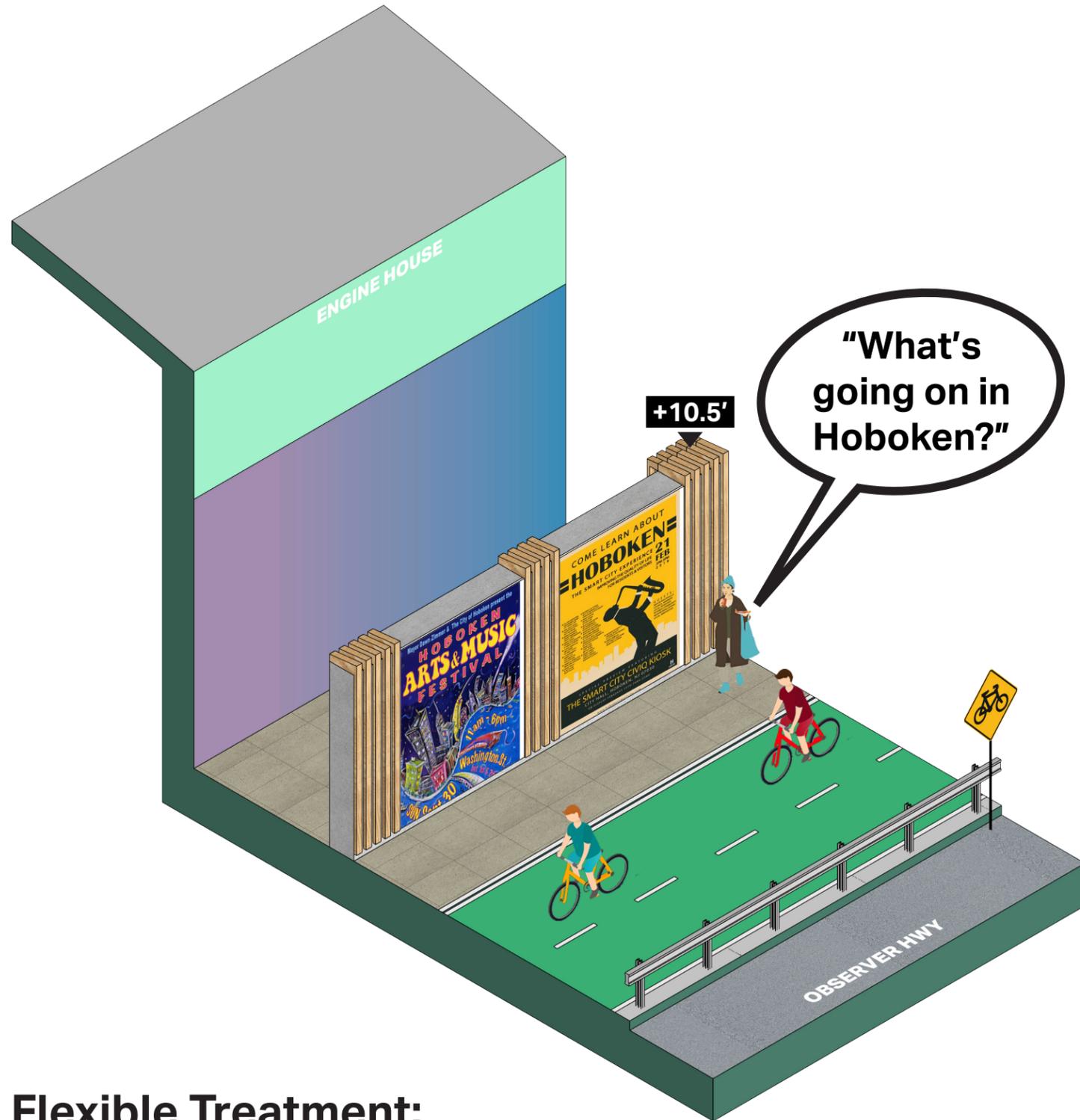
**Permanent Treatment:  
Industrial Themed Formliner**



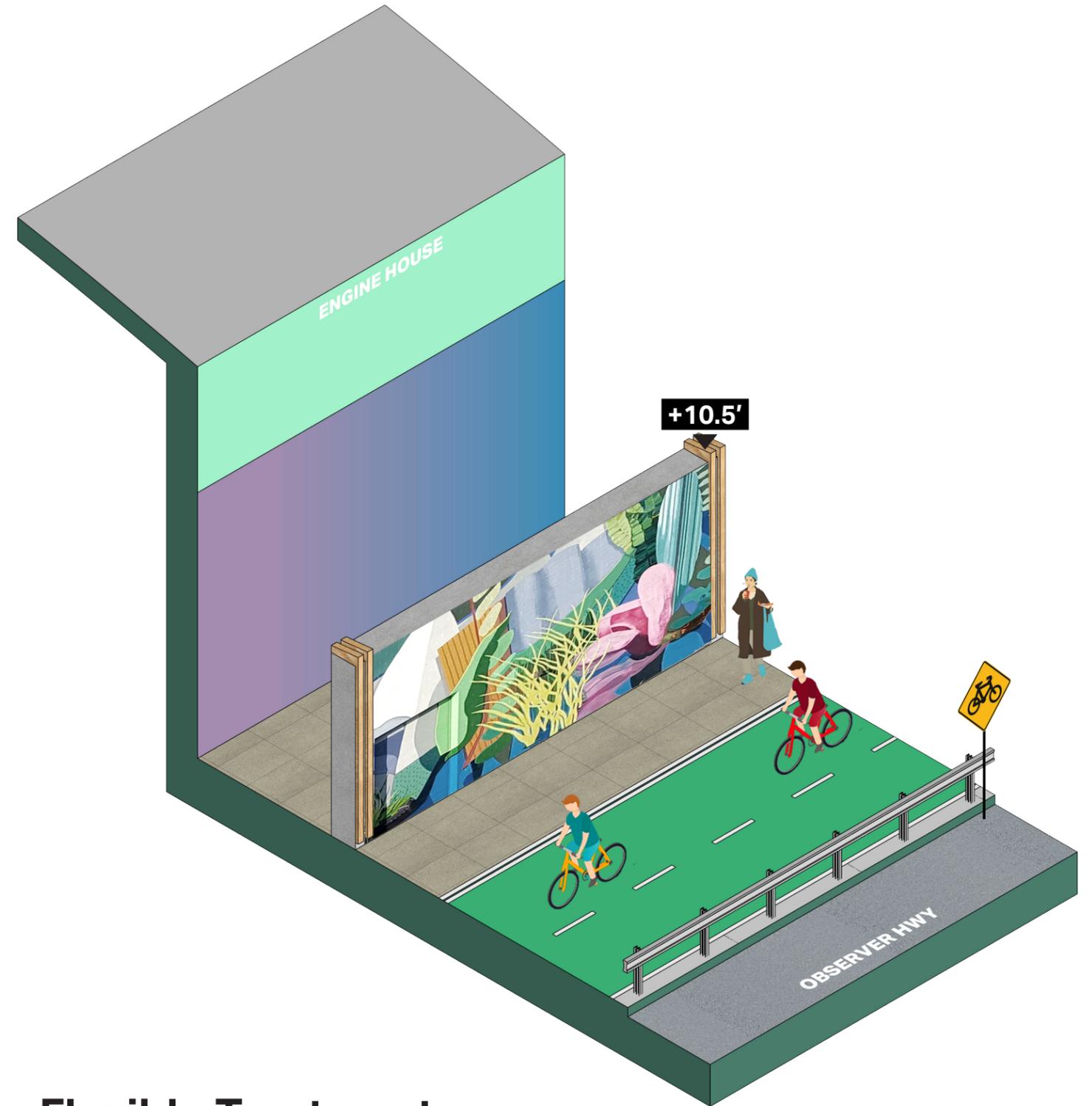
**Semi-permanent Treatment:  
Extended Panels with Visual Effect**

# MATERIALITY & PROGRAM

## ENGINE HOUSE



**Flexible Treatment:  
Changeable Panels**



**Flexible Treatment:  
Mural**

# NEXT STEPS + KEY DATES

## UPCOMING ENGAGEMENT OPPORTUNITIES

- **PUBLIC MEETING #3**

- MAY, 2019

- **PUBLIC MEETING #4**

- JULY / AUGUST 2019

- **Questions & Comments:**

- [rbd-hudsonriver@dep.nj.gov](mailto:rbd-hudsonriver@dep.nj.gov)

- **Mail**

- Dennis Reinknecht, Chief  
Bureau of Flood Resilience  
501 East State Street,  
Mail Code 501-01A, PO Box 420  
Trenton, NJ 08625-0420

- **Website:**

- [www.rbd-hudsonriver.nj.gov](http://www.rbd-hudsonriver.nj.gov)

# THE TEAM

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



Presenter

**KAREN APPELL PE, CPESC**  
Project Manager



Presenter

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



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



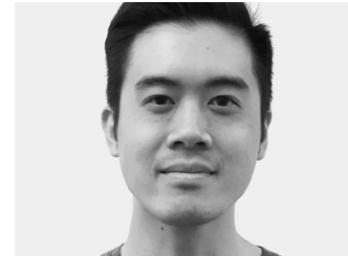
**TOM VARGO PE, CCM**  
Senior Design / Construction  
Engineer



**COLBY SEIBERT**  
Project Engineer



**RAN WEI**  
Landscape Designer



**TIMOTHY HO, OMA**  
Community Engagement



**ANNA MARSHALL**  
Project Specialist

**END**