

PUBLIC DESIGN COMMISSION PRESENTATION

New York City Economic Development Corporation

Bush Terminal - Pier 6 Sunset Park, Brooklyn, NY

JuLY 15, 2024

NYC/EDC  ARCADIS SCAPE

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PURPOSE

- **NYCEDC plans to stabilize Pier 6, a 5-acre filled pier adjacent to Bush Terminal, creating a safe environment to facilitate accessible public space and access to water.**
- **Pier 6, a site with a rich and active industrial history, is envisioned to serve as a new waterfront public open space for Sunset Park residents, Bush Terminal workers, and visitors.**

GOALS

DESIGN GOALS

- **Safe & Accessible** / Provide a safe and accessible waterfront public space
- **Engaging & Flexible** / Design engaging and flexible spaces for all and connect people with the harbor
- **Ecological & Industrial** / Celebrate the pier's rich industrial and ecological history and engage with current harbor ecosystems and industrial activity
- **Sustainable & Adaptable** / Design a place that is sustainable and adaptable to a changing environment
- **Implementable & Maintainable** / Implement the design goals cost-effectively and open a low-maintenance, redesigned pier in 2026

PROGRAM

- **Multi-use, flexible gathering spaces** / Lawns, plazas, seating.
- **Paths & Boardwalk**
- **Water Viewing, interaction**
- **Natural Planted Areas**
- **Accessible Parking for Bush Terminal** / Limited accessible spaces

PROJECT LOCATION

PROJECT LOCATION

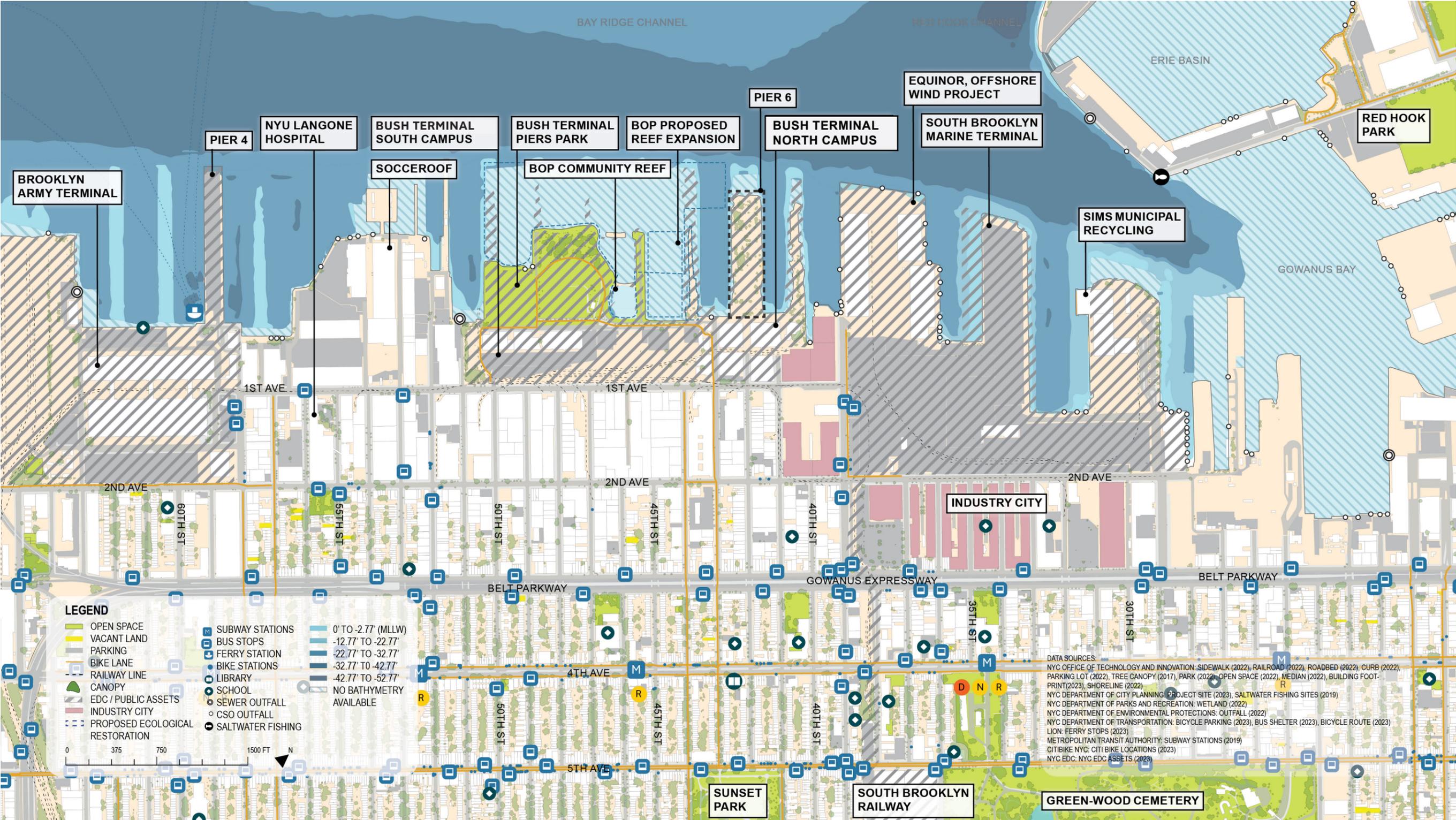
BUSH TERMINAL - PIER 6



EXISTING CONDITIONS

EXISTING CONDITIONS

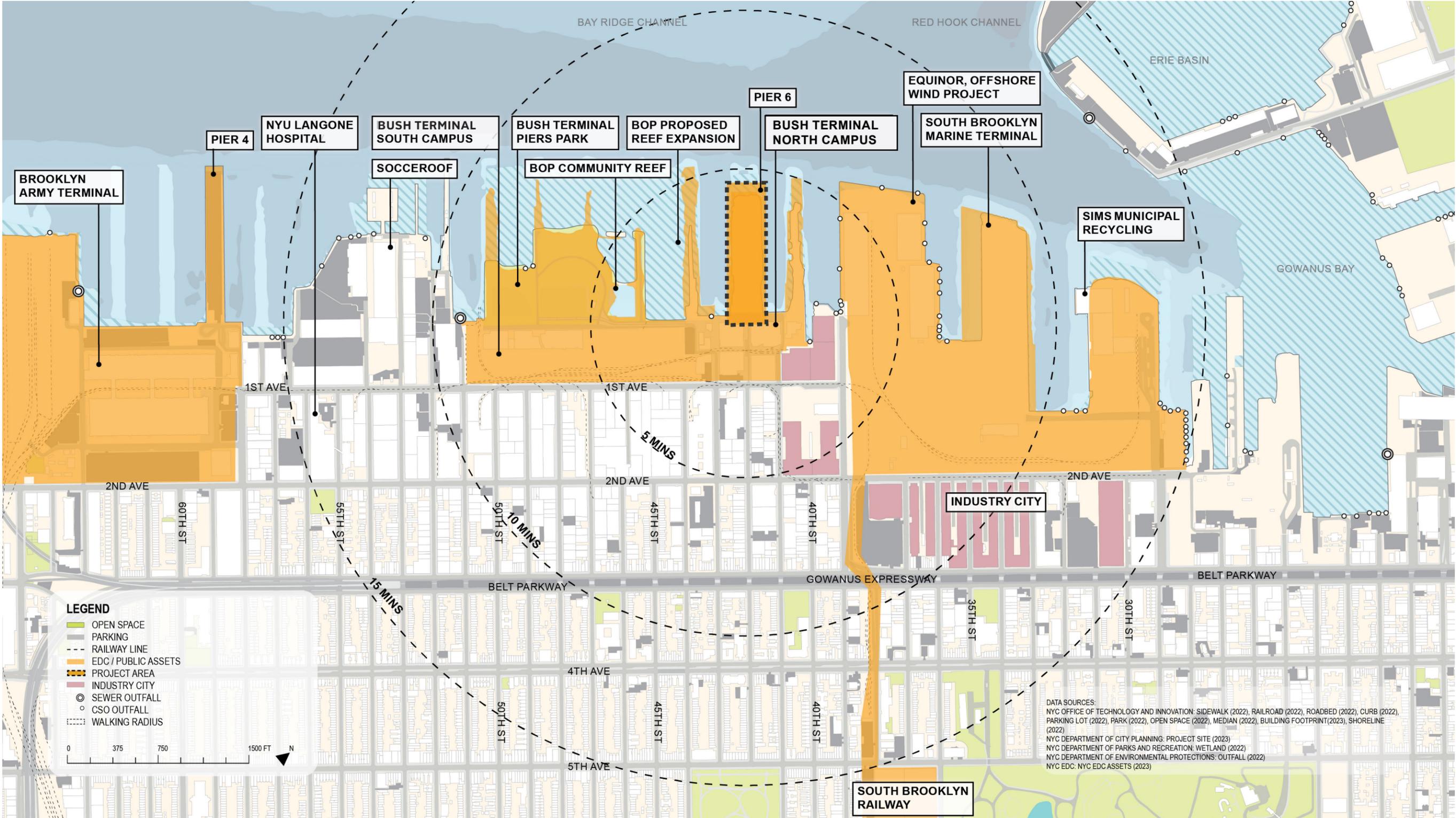
NEIGHBORHOOD PLAN



BUSH TERMINAL - PIER 6
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EXISTING CONDITIONS

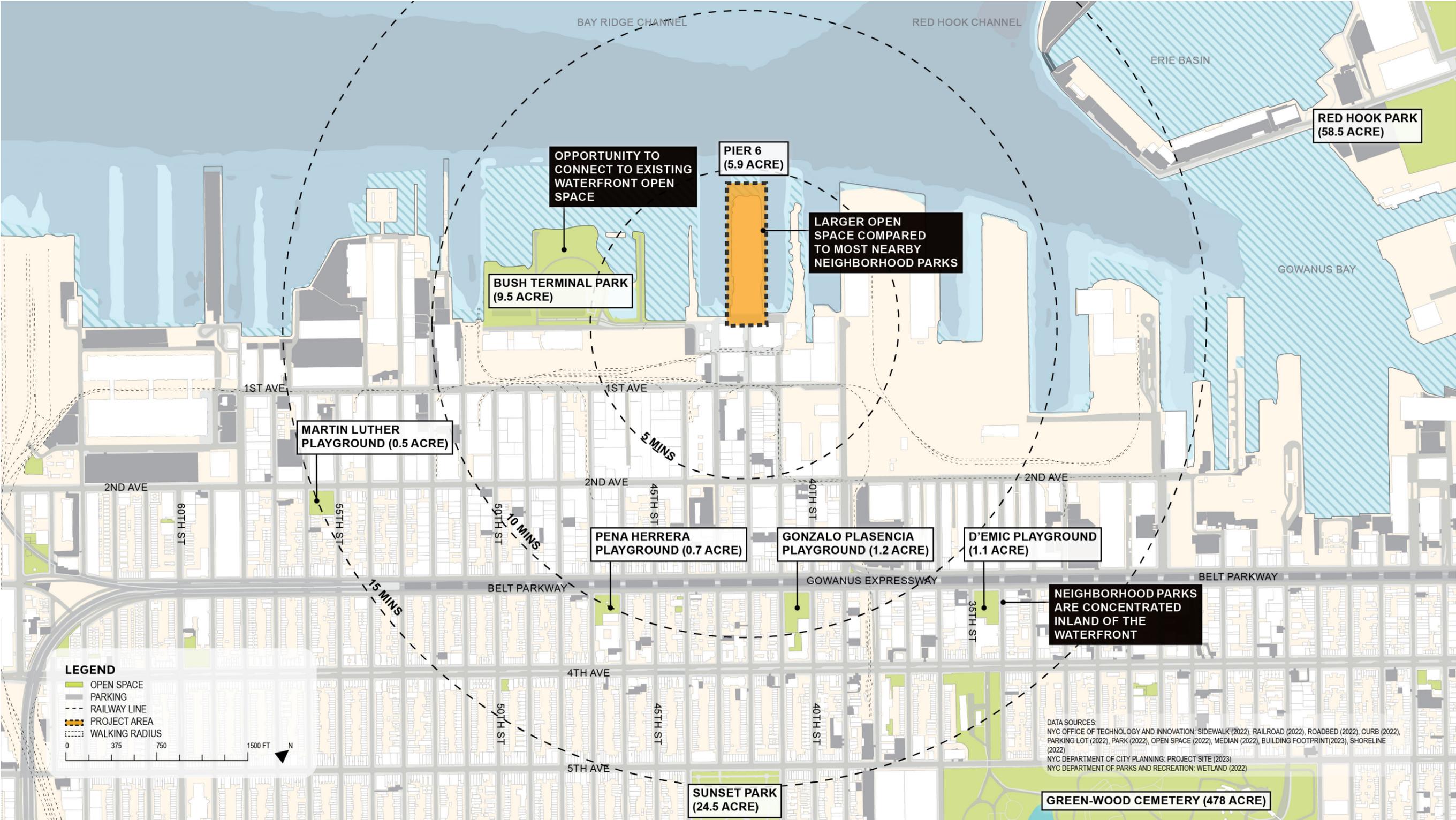
ADJACENT WATERFRONT ENTITIES



BUSH TERMINAL - PIER 6
 JULY 15, 2024

EXISTING CONDITIONS

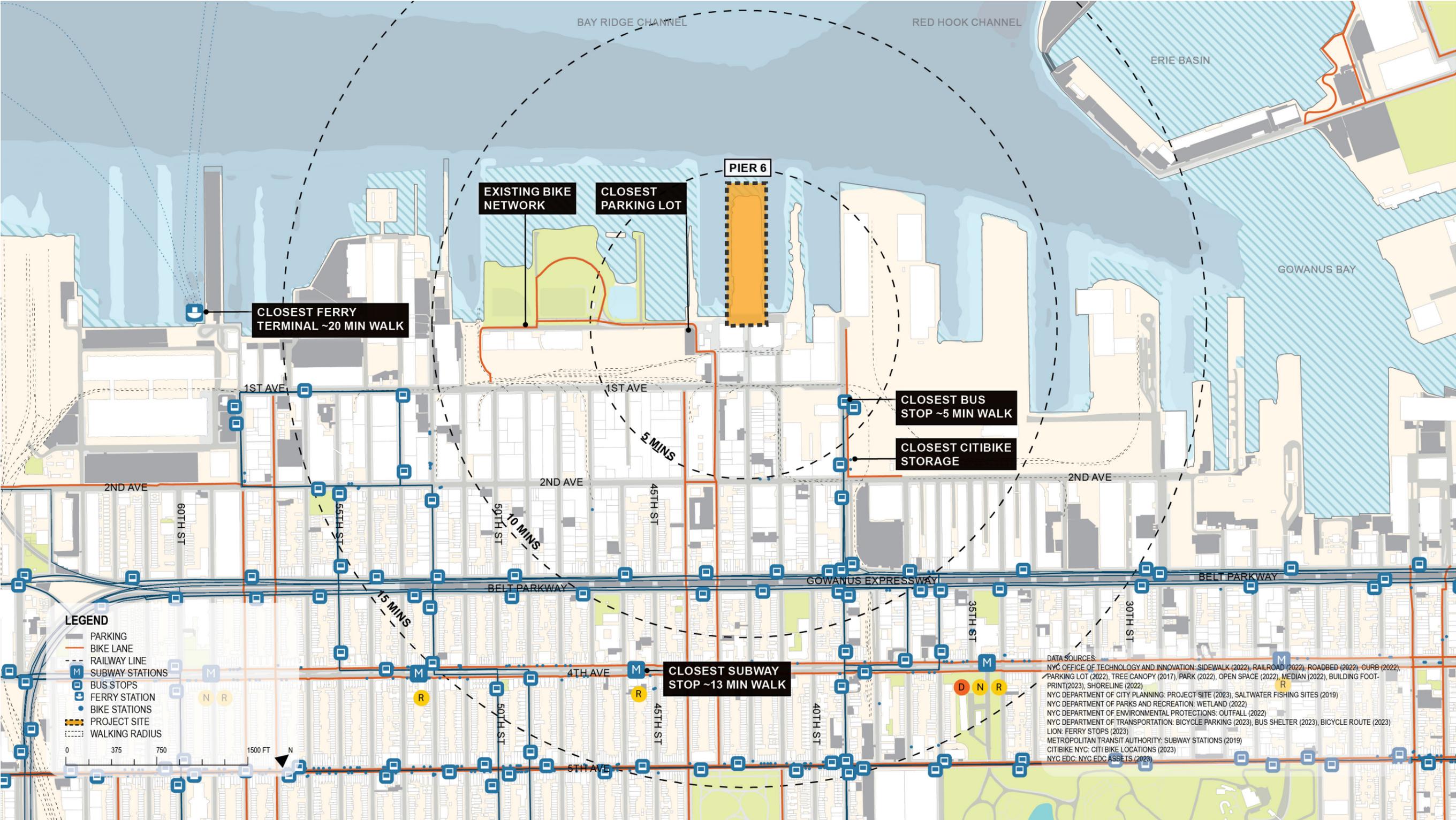
ADJACENT OPEN PUBLIC SPACES



BUSH TERMINAL - PIER 6
JULY 15, 2024

EXISTING CONDITIONS

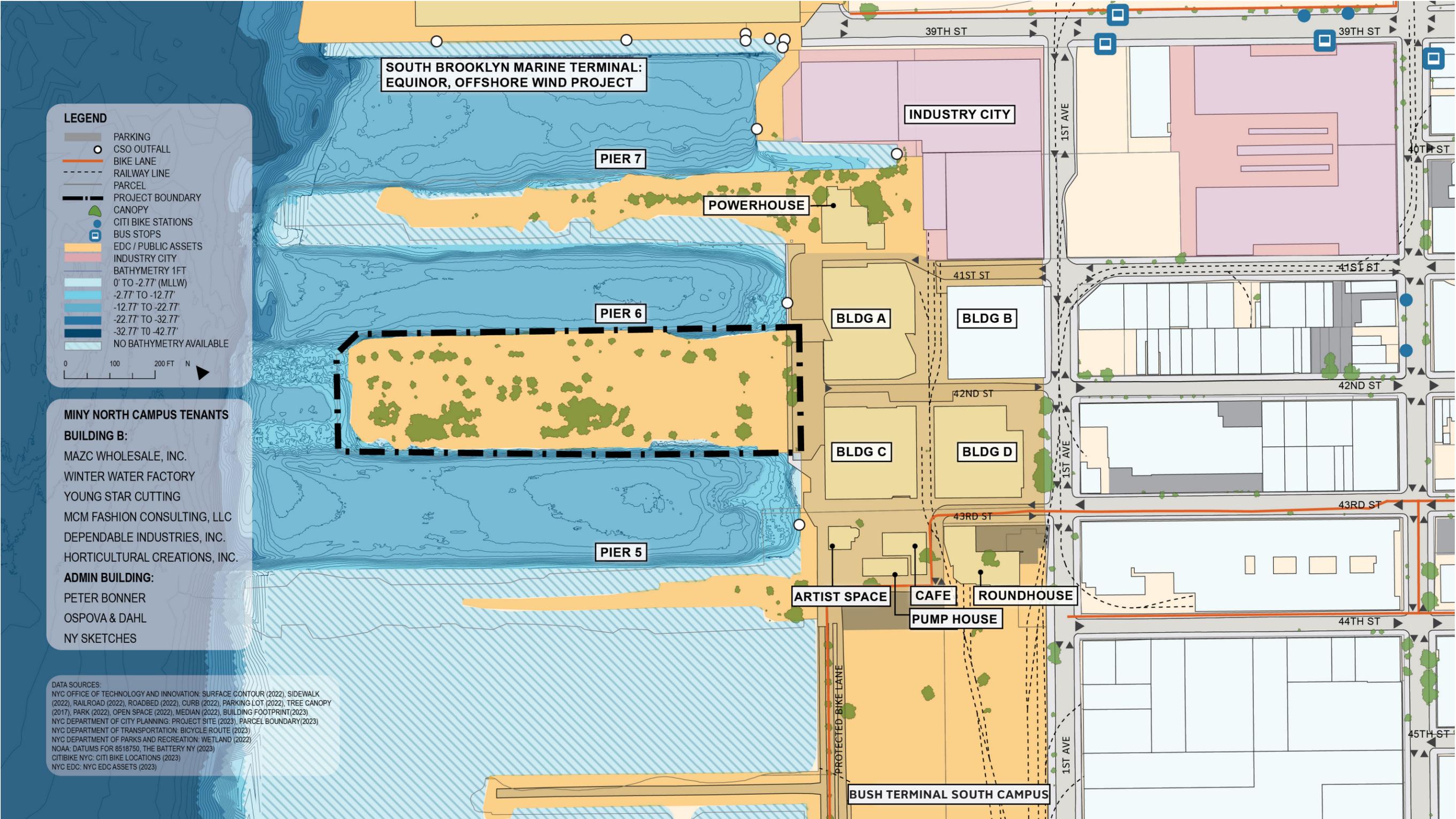
TRANSIT



BUSH TERMINAL - PIER 6
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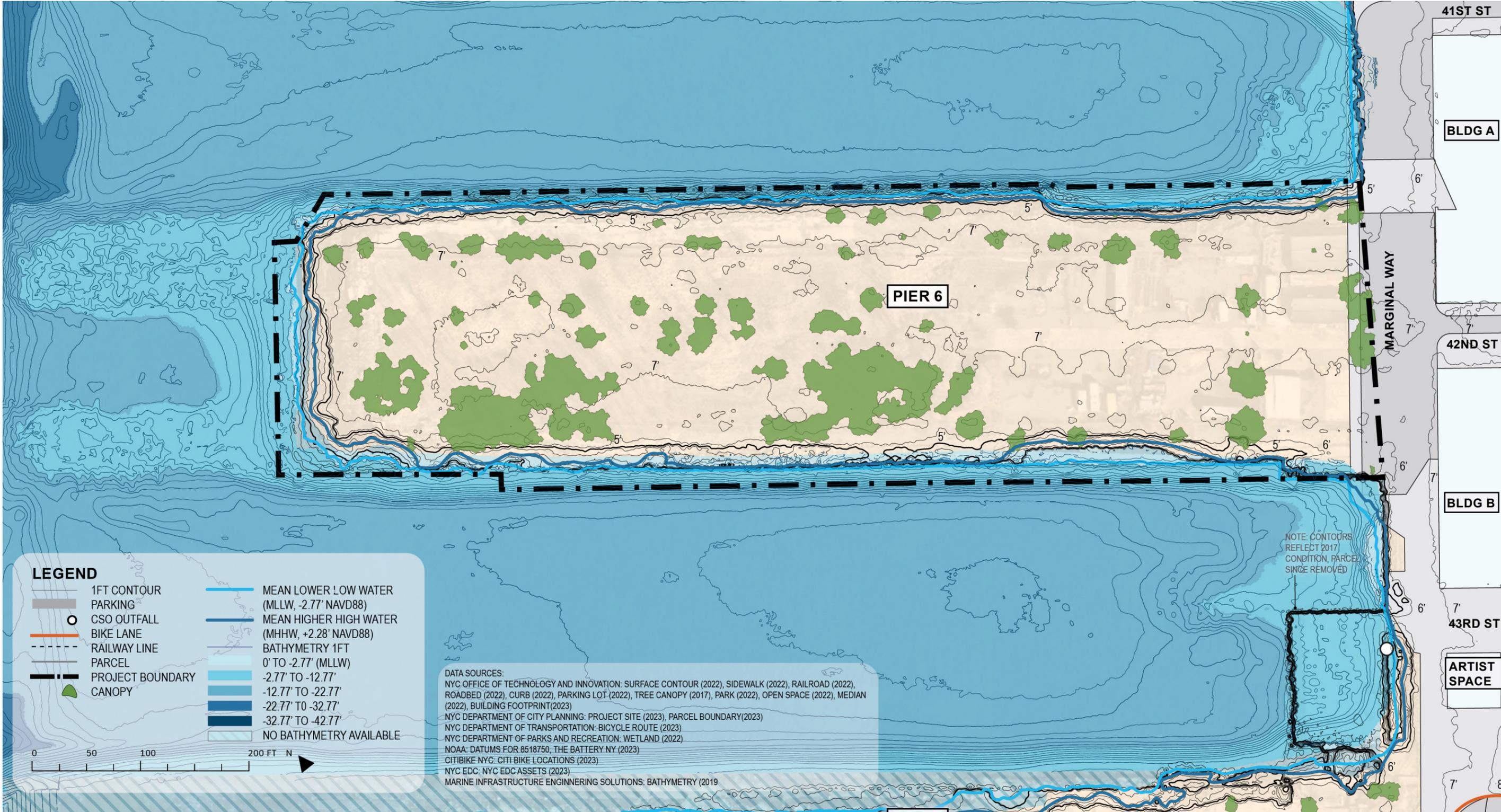
EXISTING CONDITIONS

PUBLIC ASSETS MAP



EXISTING CONDITIONS

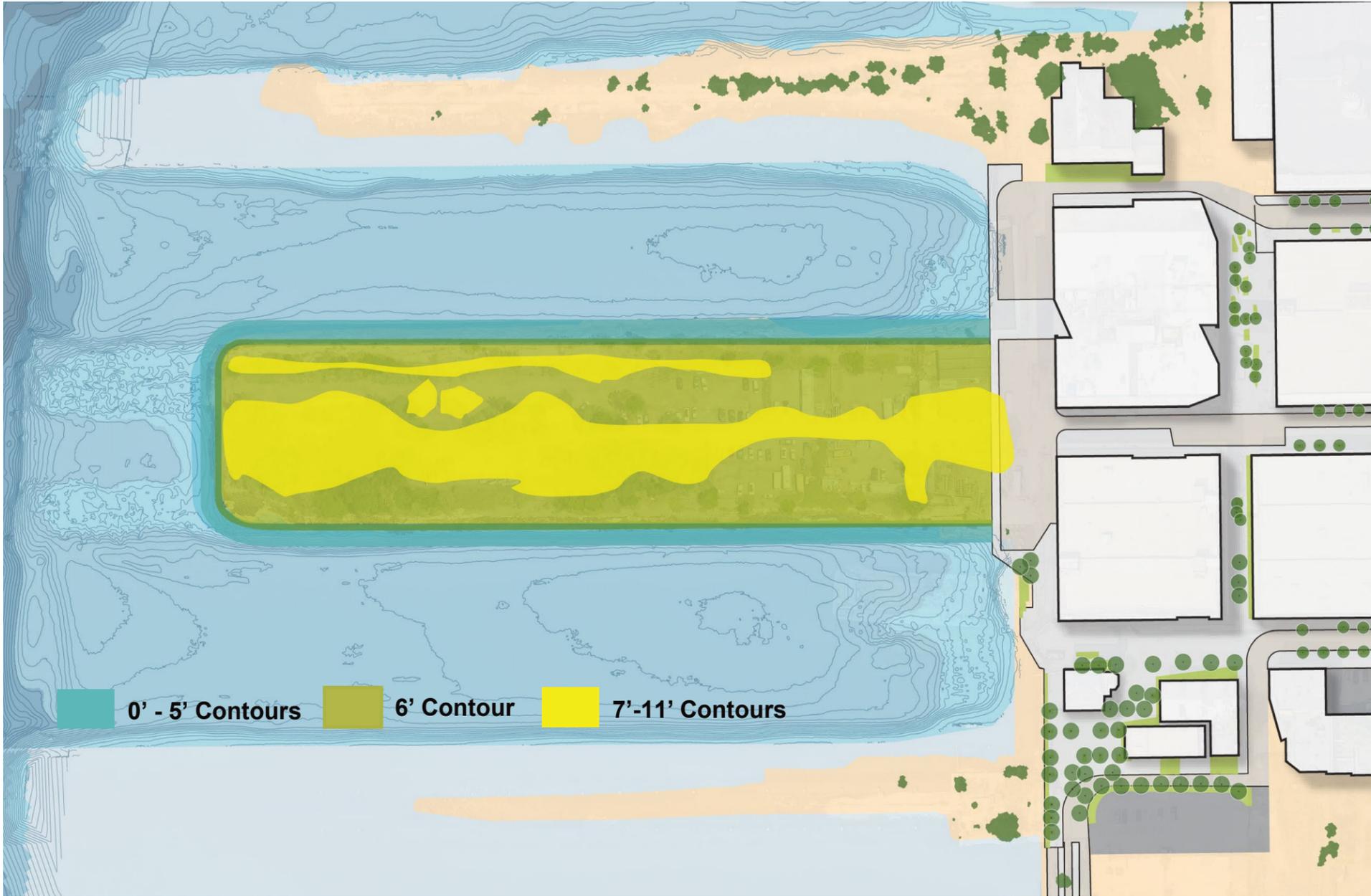
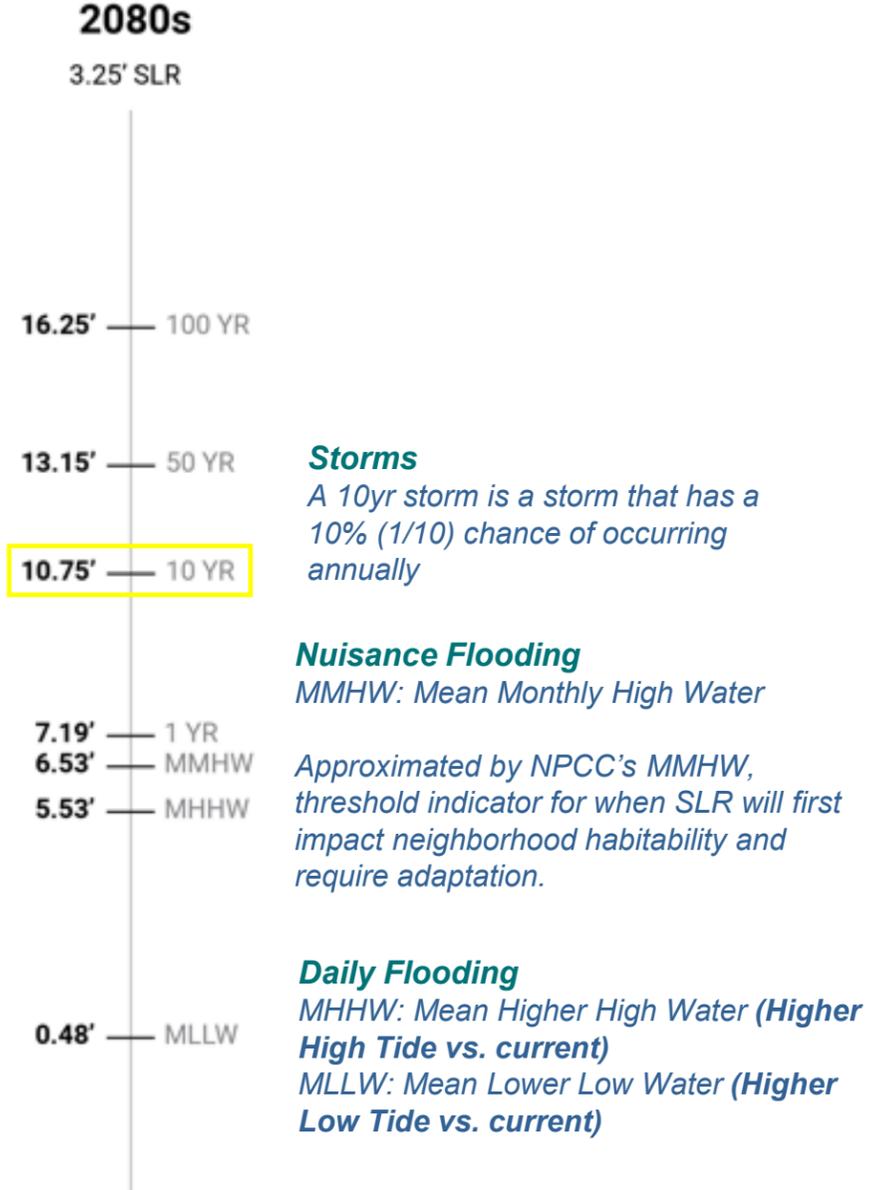
SITE PLAN



BUSH TERMINAL - PIER 6
 JULY 15, 2024

EXISTING CONDITIONS

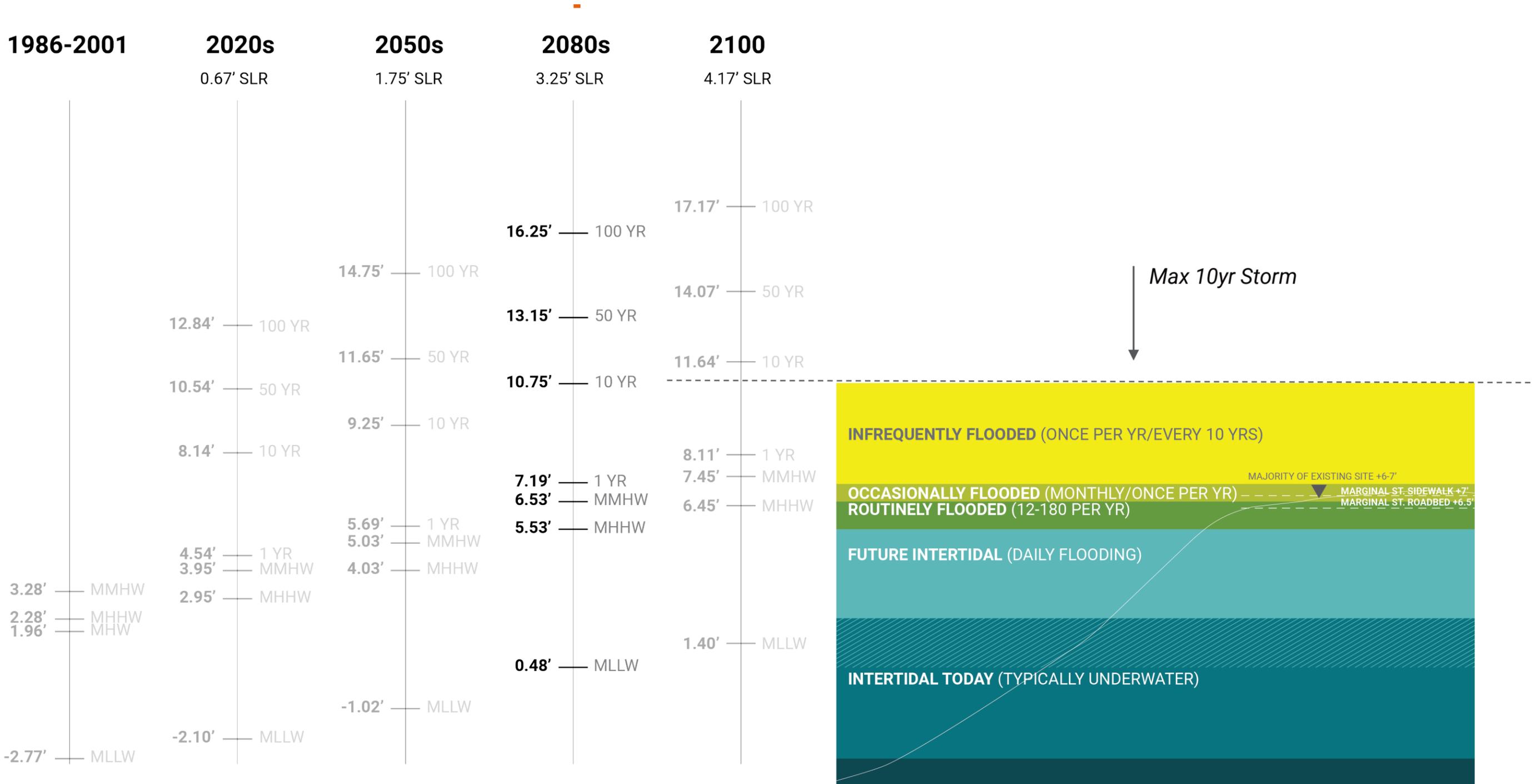
ASSESSING FLOOD ELEVATIONS



*flooding elevations are stillwater and do not include wave action. Vertical Datum NAVD88.

EXISTING CONDITIONS

FLOOD TOLERANCE ASSUMPTIONS



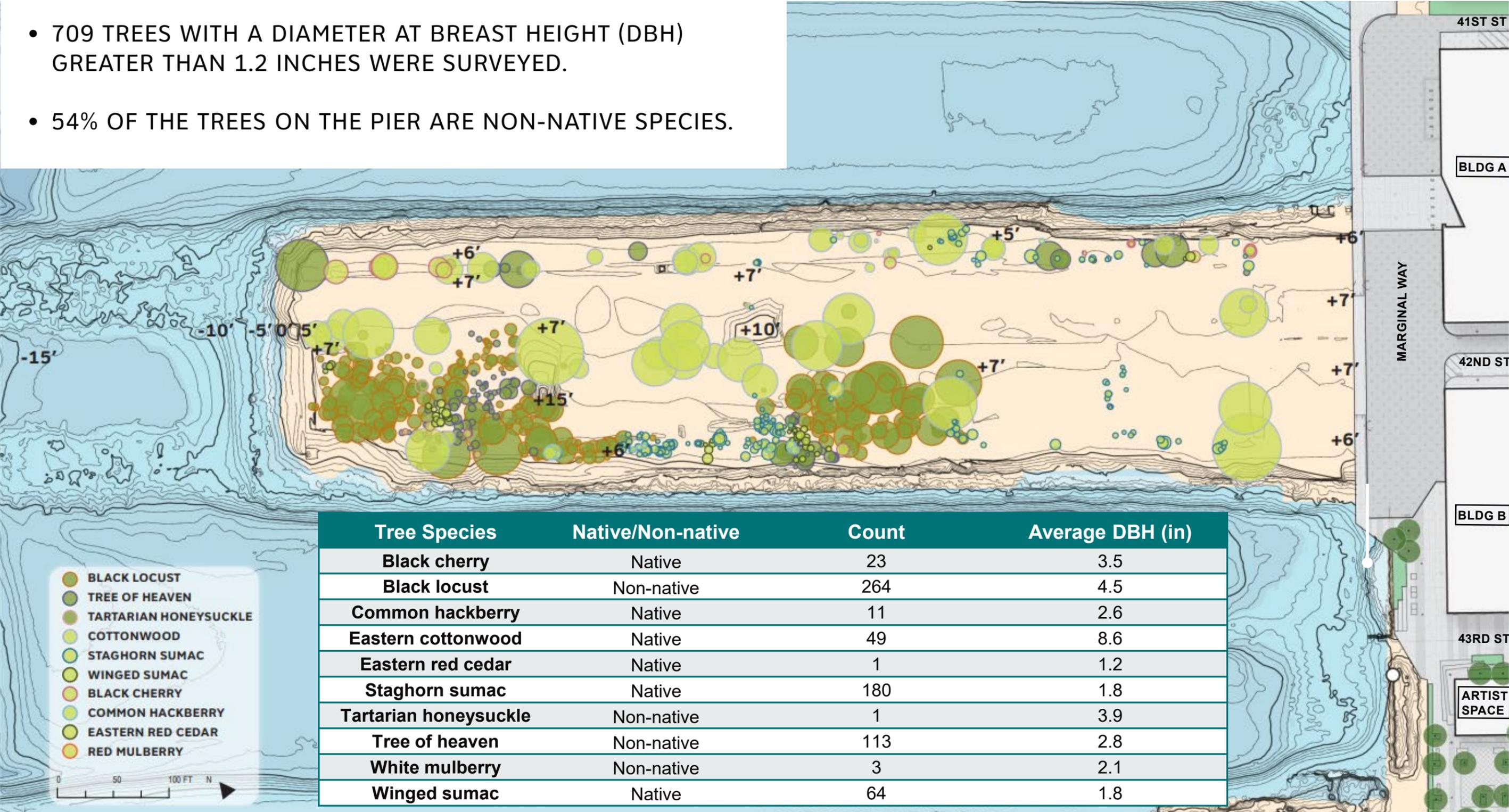
NPCC, NAVD 88 2015 intermediate-high (75th percentile) NYC sea level rise projections

*flooding elevations are stillwater and do not include wave action. Vertical Datum NAVD88.

EXISTING CONDITIONS

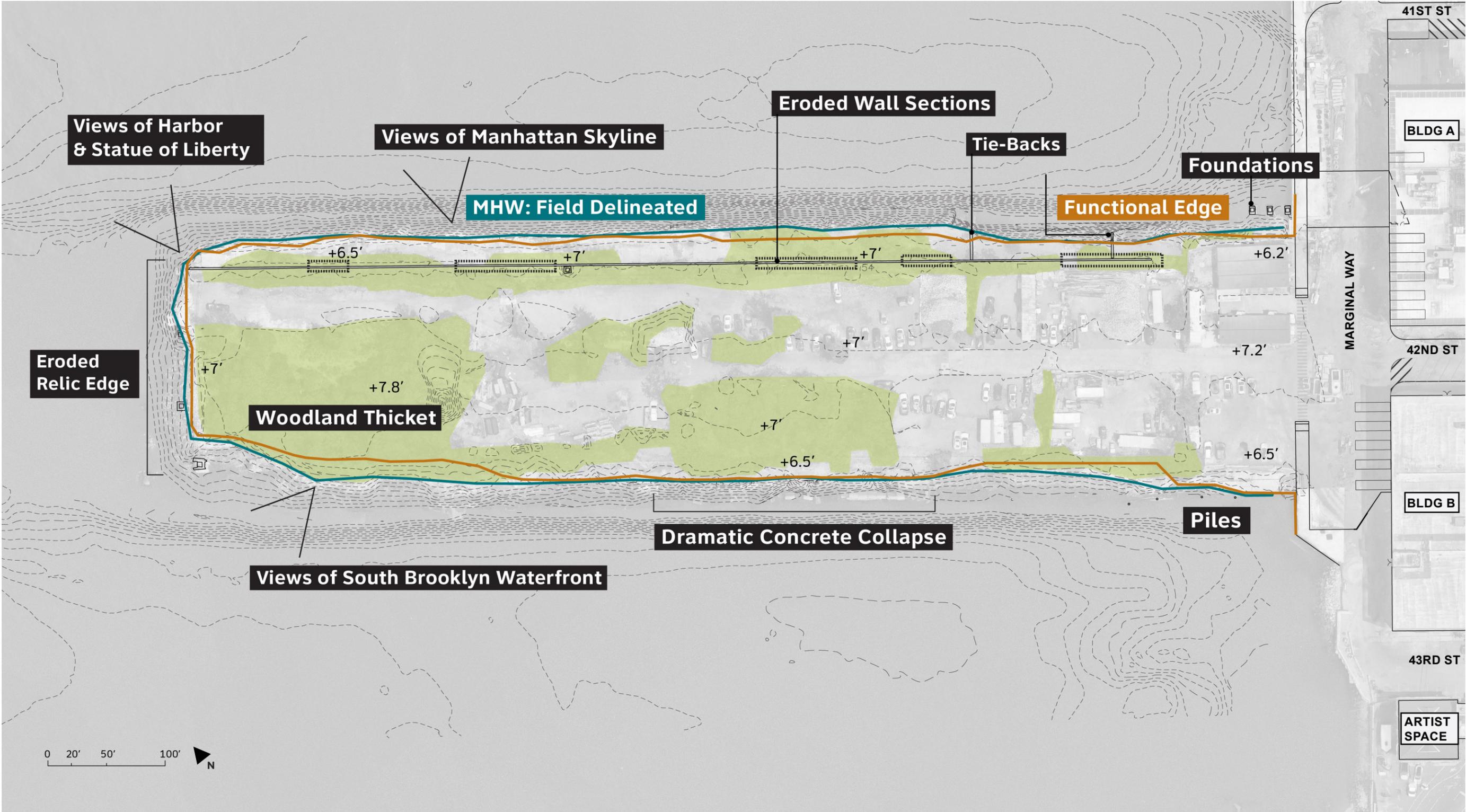
TREE INVENTORY

- 709 TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 1.2 INCHES WERE SURVEYED.
- 54% OF THE TREES ON THE PIER ARE NON-NATIVE SPECIES.



EXISTING CONDITIONS

SITE OPPORTUNITIES / CONSTRAINTS



EXISTING CONDITIONS

SITE PHOTOS



VIEW NORTHWEST FROM SIDEWALK TOWARDS PIER



VIEW EAST TOWARDS BUSH TERMINAL CAMPUS

EXISTING CONDITIONS

SITE PHOTOS



VIEW WEST FROM SOUTH EDGE OF PIER



VIEW EAST FROM SOUTH EDGE OF PIER

EXISTING CONDITIONS

SITE PHOTOS



VIEW NORTHEAST FROM MIDDLE OF PIER



VIEW EAST FROM MIDDLE OF PIER

EXISTING CONDITIONS

SITE PHOTOS



VIEW EAST FROM NORTH EDGE OF PIER



VIEW WEST TOWARDS WATER

EXISTING CONDITIONS

SITE PHOTOS



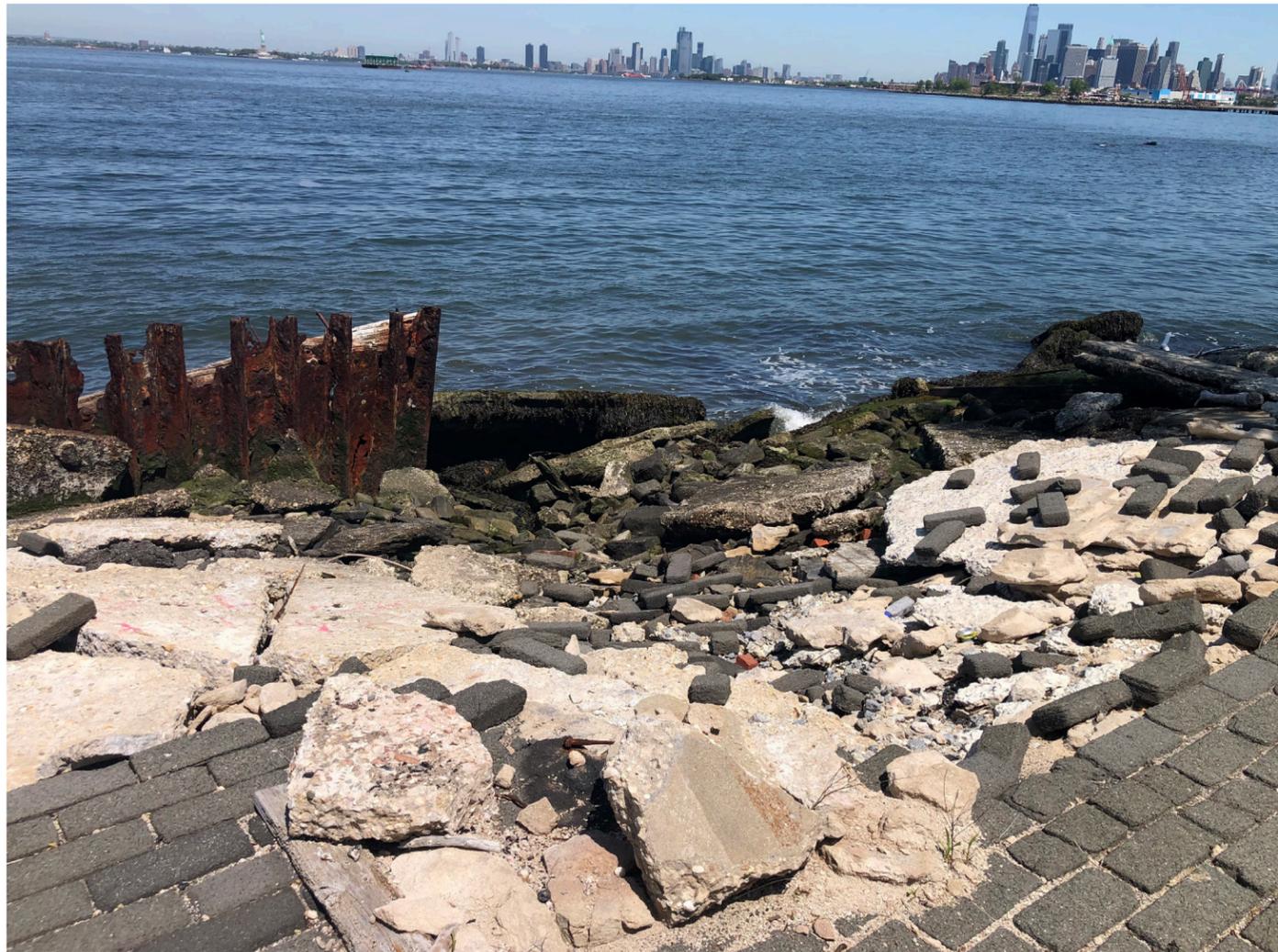
VIEW SOUTHWEST INTO EMERGENT WOODLAND



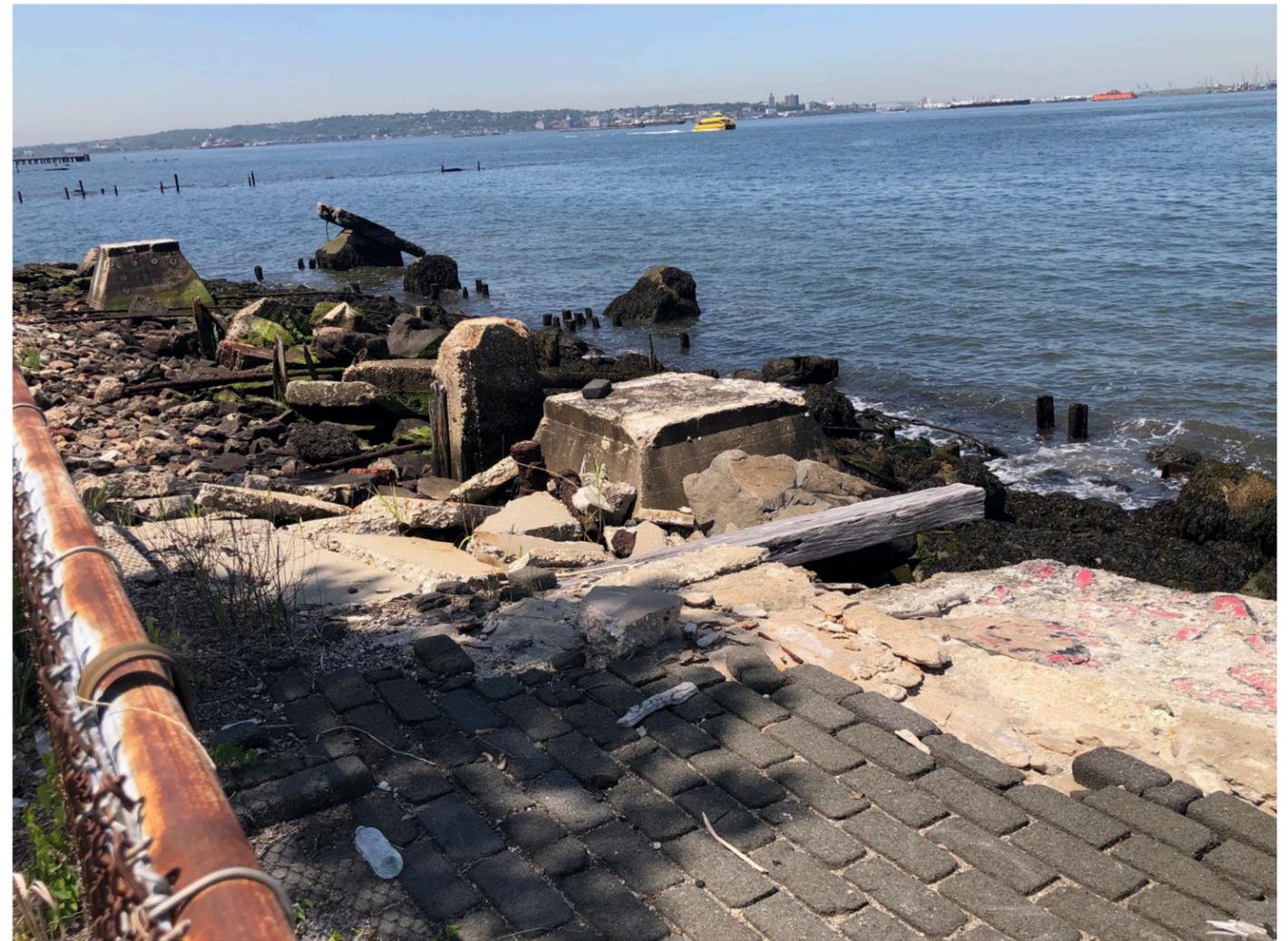
VIEW NORTHEAST TOWARDS MANHATTAN

EXISTING CONDITIONS

SITE PHOTOS



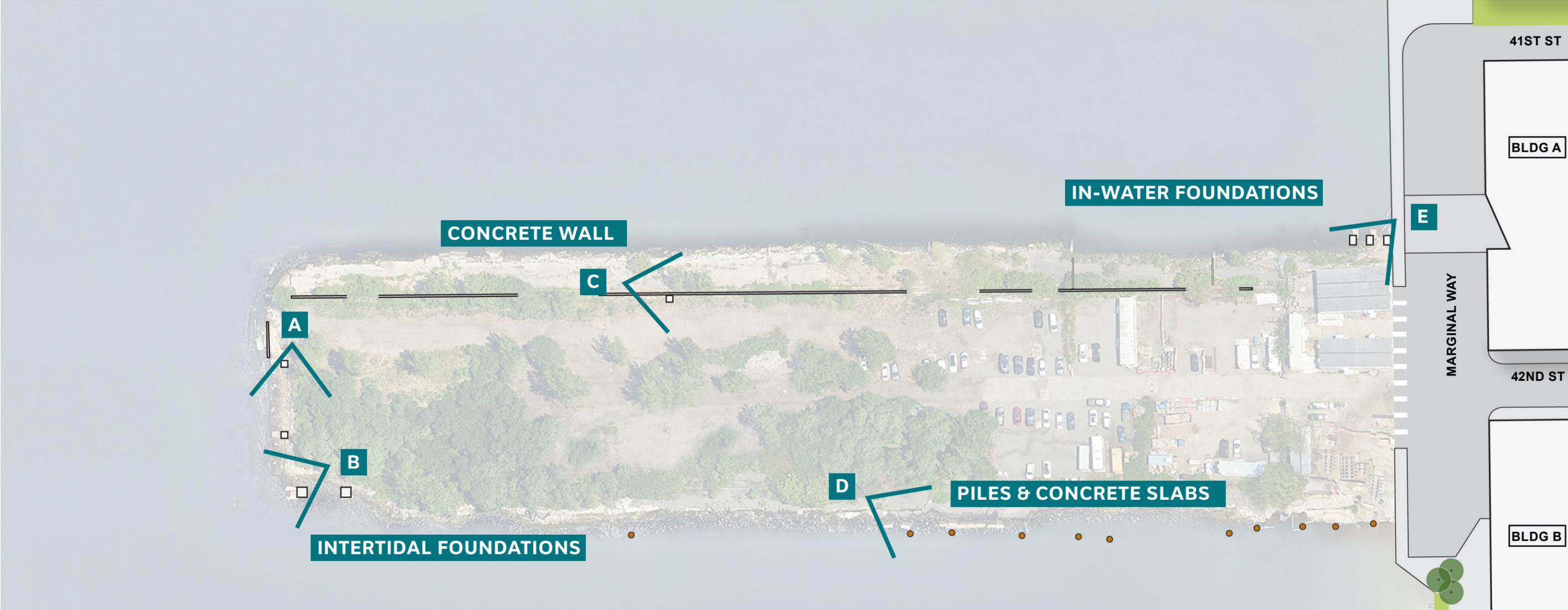
VIEW NORTHWEST FROM OUTER EDGE OF PIER



VIEW SOUTHWEST FROM OUTER EDGE OF PIER

EXISTING CONDITIONS

MATERIAL INSPIRATION: WALLS, FOUNDATIONS, PILES



A



B



C



D



E

EXISTING CONDITIONS

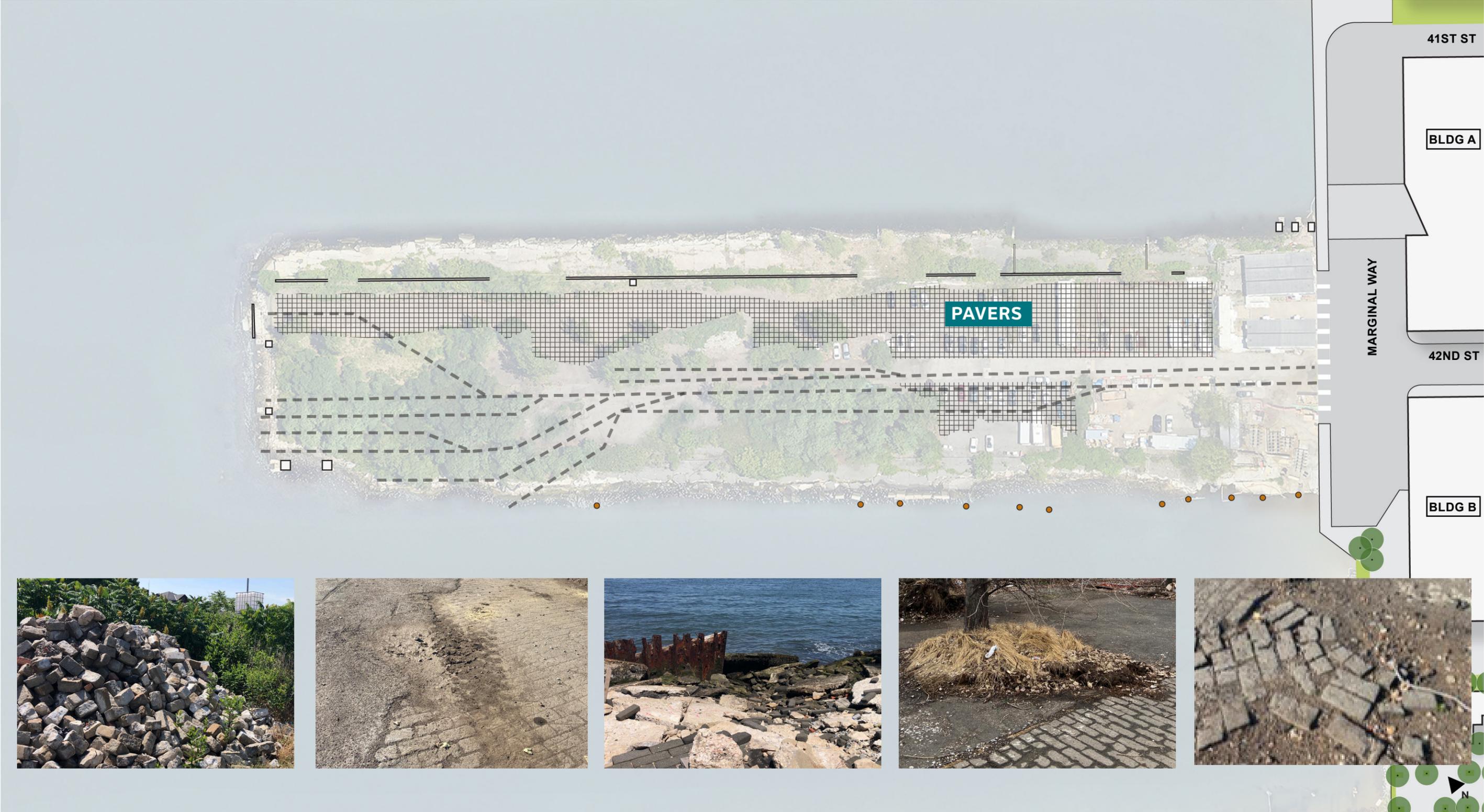
MATERIAL INSPIRATION: RAILS



BUSH TERMINAL - PIER 6
JULY 15, 2024

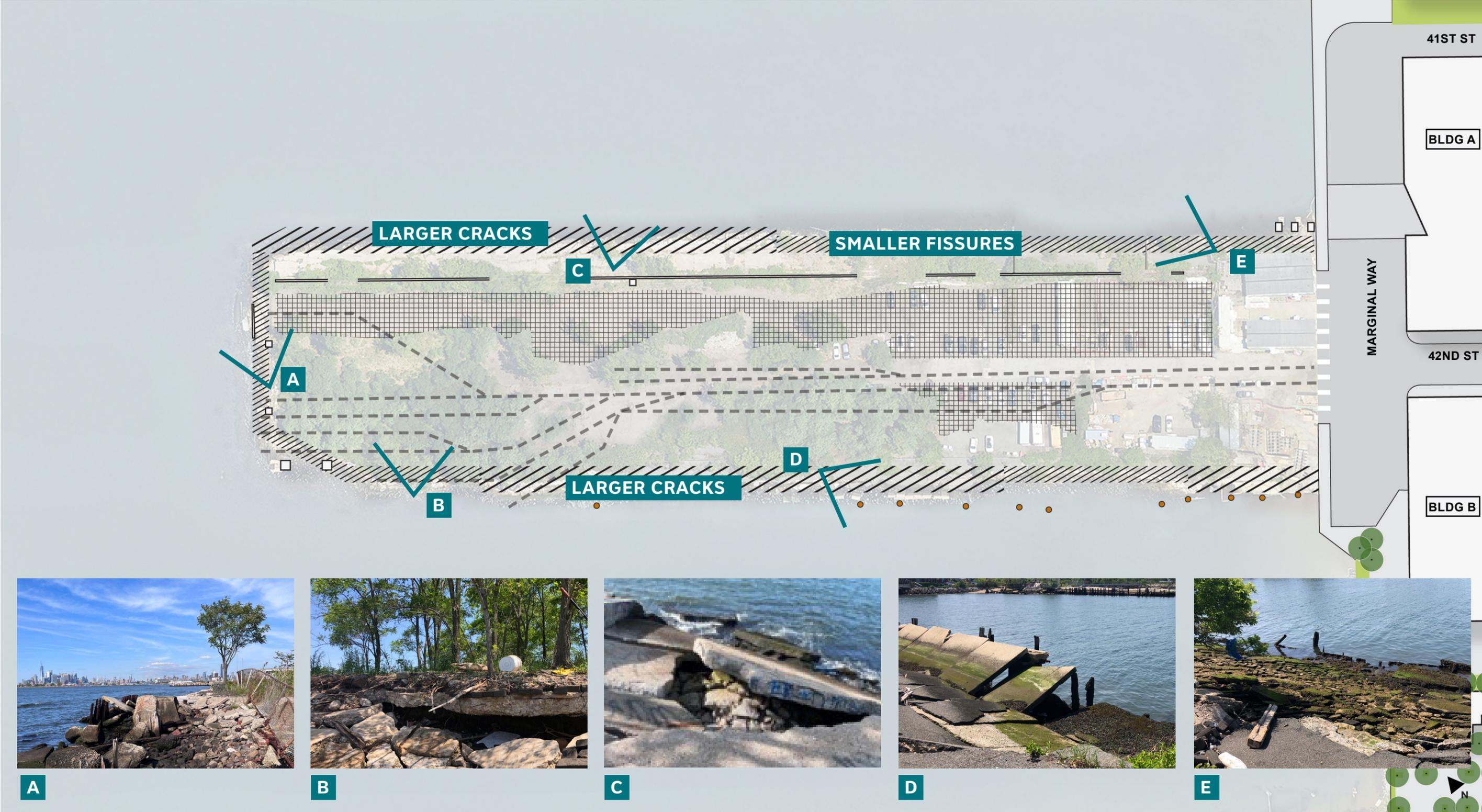
EXISTING CONDITIONS

MATERIAL INSPIRATION: PAVERS



EXISTING CONDITIONS

MATERIAL INSPIRATION: CRACKED EDGE CONDITION



EXISTING CONDITIONS

MATERIAL INSPIRATION: EMERGENT ECOLOGY

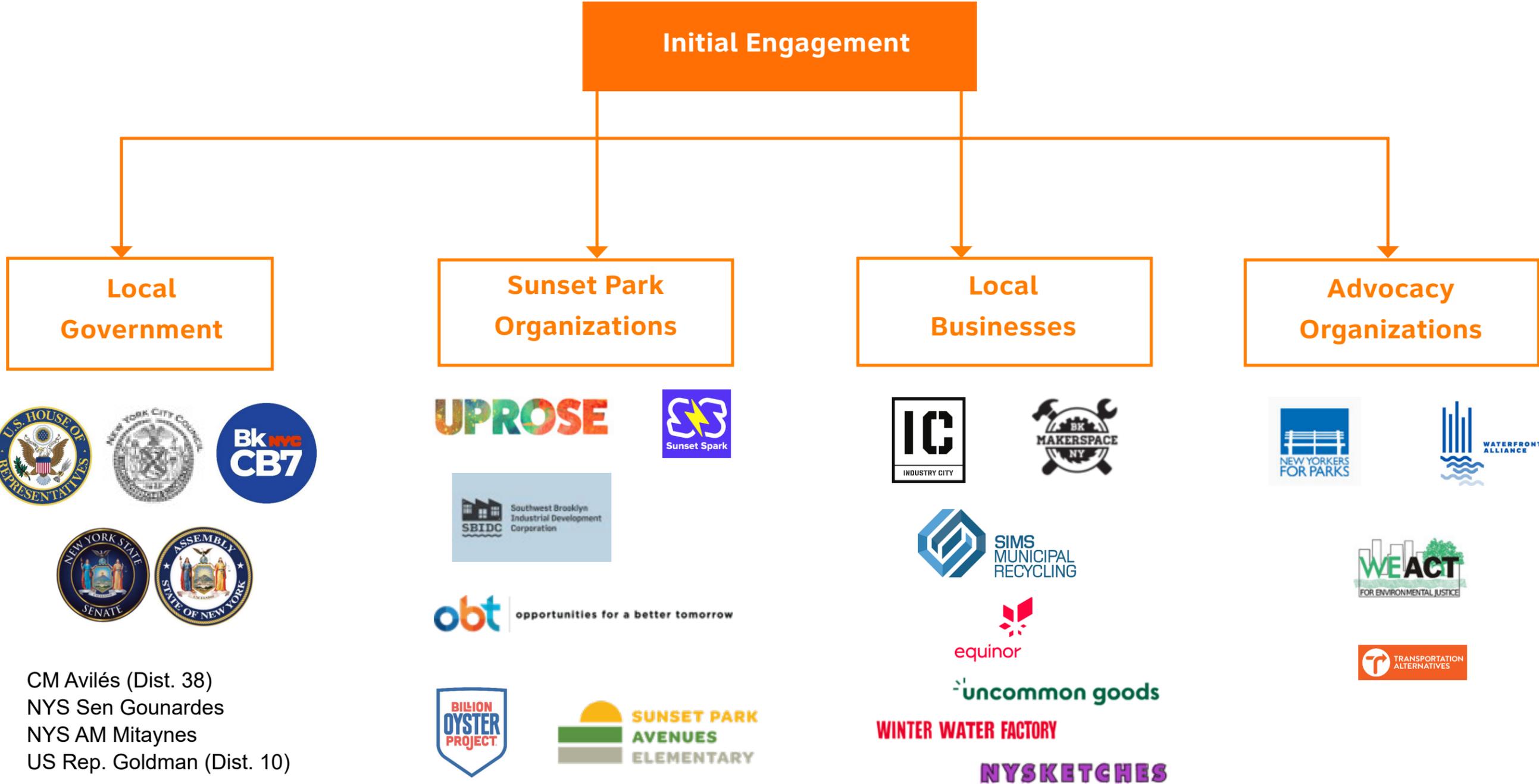


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COMMUNITY ENGAGEMENT

LOCAL STAKEHOLDERS

ENGAGEMENT



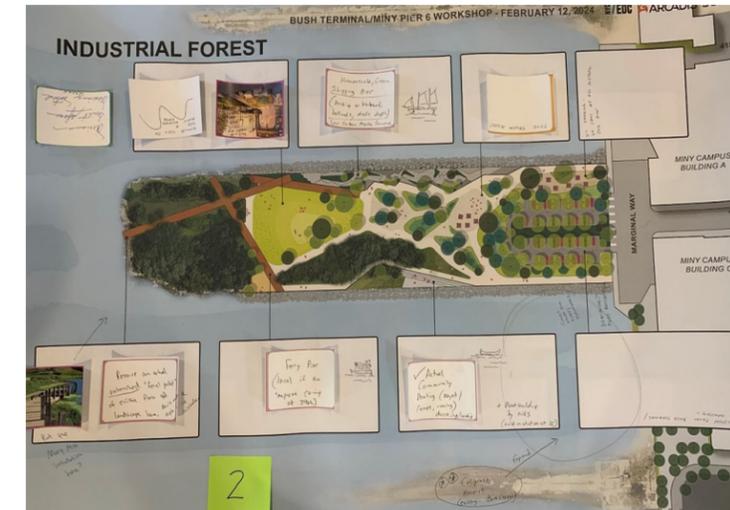
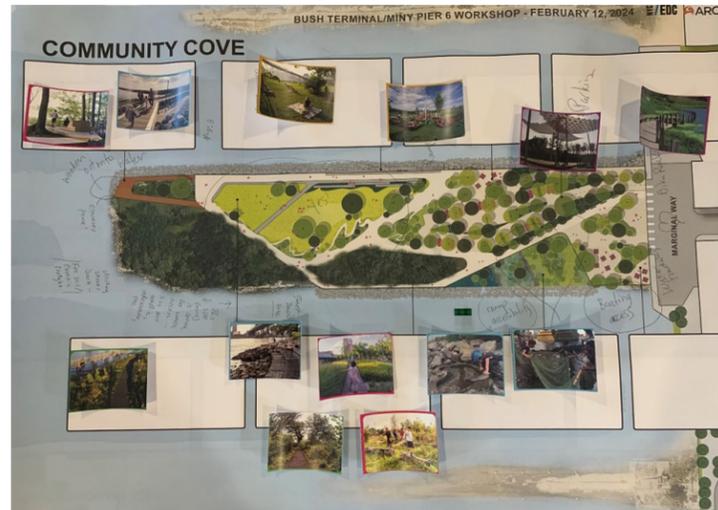
TOWN HALL #1

ENGAGEMENT

The feedback received during the first town hall helped shape the initial concepts into a proposed design.

Key Takeaways: Town Hall #1 (February 2024)

- Maintain natural/wild/tree grove spaces
- No cars or parking on pier
- Open spaces for vendors, markets, community-serving programming
- Educational uses for the surrounding schools
- Water and non-motorized recreational boating access
- Lawn space for flexible gatherings
- Provide a durable and maintainable pier

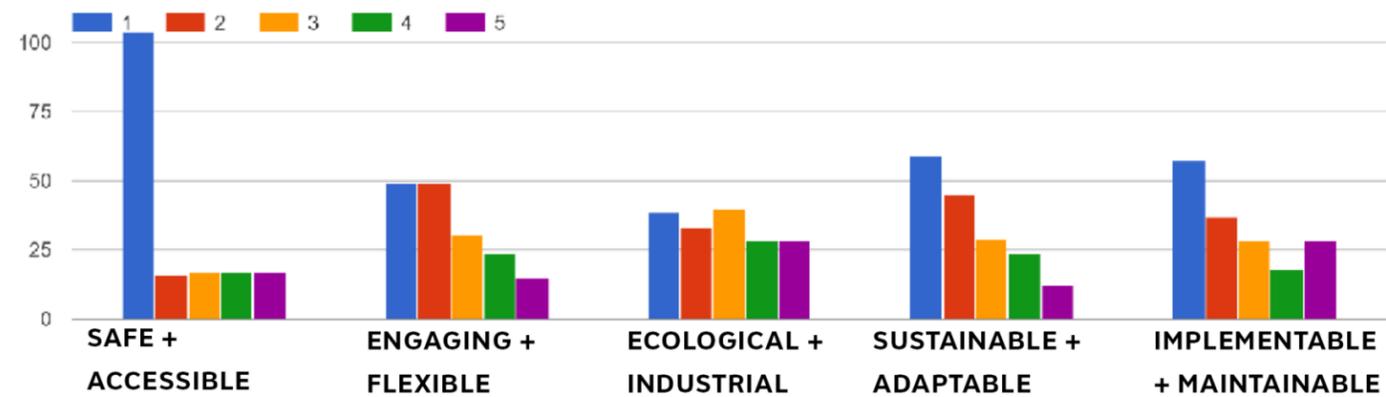


TOWN HALL #1

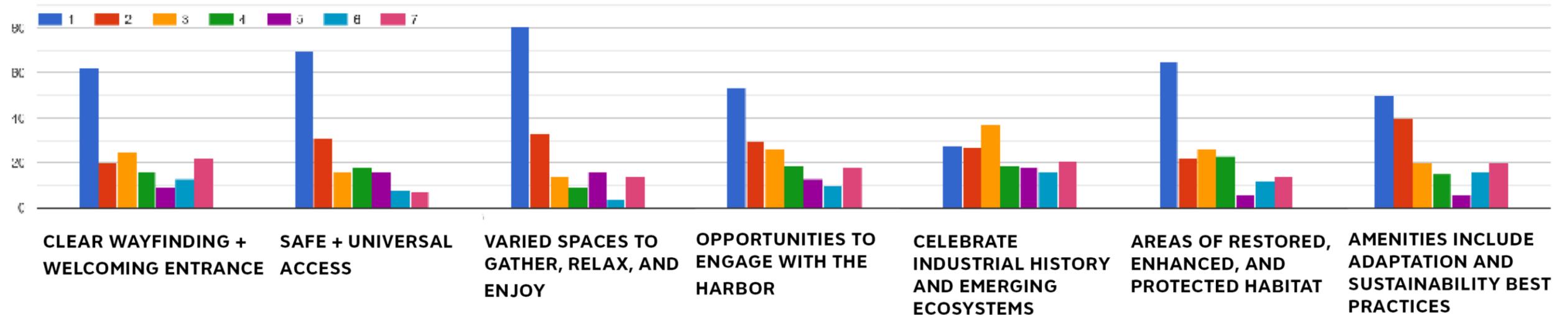
ENGAGEMENT

Survey responses collected before and after Town Hall #1 also helped shape the design.

PROJECT GOALS - ASSIGN VALUES TO EACH GOAL WITH 1 BEING MOST PRIORITIZED, 5 BEING LEAST PRIORITIZED:



AMENITIES - ASSIGN VALUES TO THE LIST OF AMENITIES BELOW WITH 1 BEING MOST PRIORITIZED, 5 BEING LEAST PRIORITIZED:



TOWN HALL #2

ENGAGEMENT

The feedback received during the second town hall confirmed the schematic design and expanded our understanding of how residents would use the pier.

Town Hall #2 and Tabling Events #1 and #2 (June 2024)

Key additional programming feedback included:

- Multigenerational spaces
- Open spaces for vendors, markets, and community-serving programming with an emphasis on local food vendors and youth art opportunities
- Enhanced native habitats
- Need for site security
- Site access improvements
- Historical signage program
- Playground or play elements



SCHEMATIC DESIGN

SCHEMATIC DESIGN

LANDSCAPE PLAN



BUSH TERMINAL - PIER 6
JULY 15, 2024

SCHEMATIC DESIGN

BIRD'S EYE VIEW LOOKING NORTH

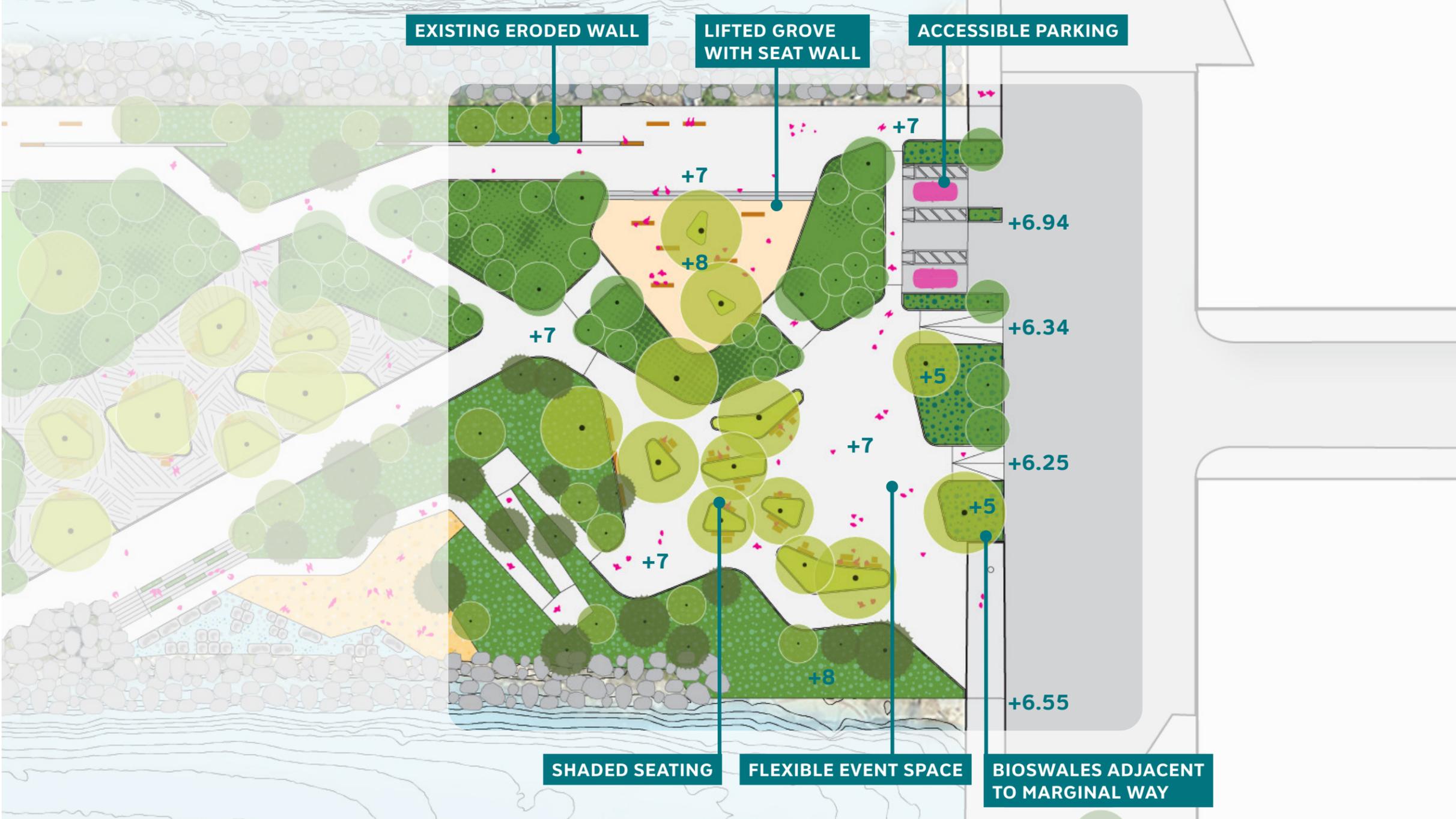


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ENTRY PLAZA

ENTRY PLAZA

PLAN



ENTRY PLAZA

PEDESTRIAN VIEW



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JULY 15, 2024

TIDE POOL

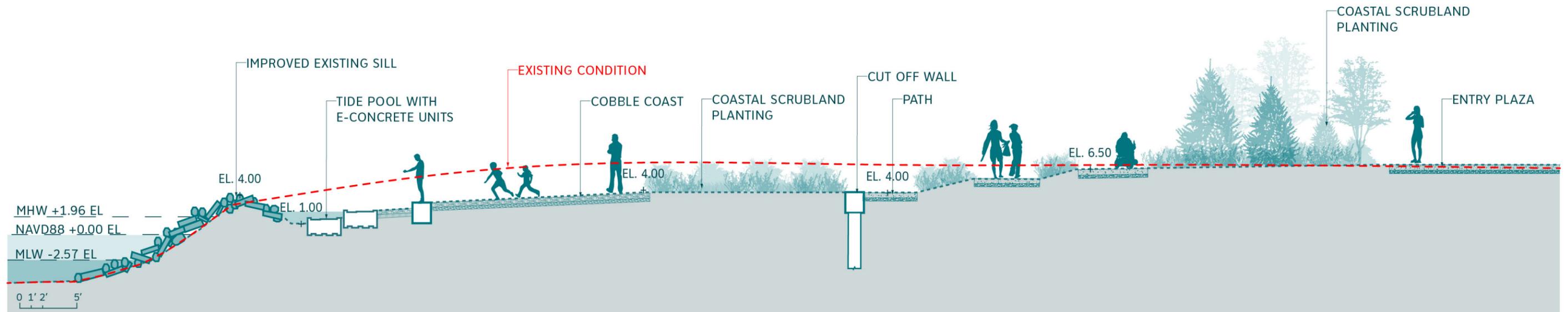
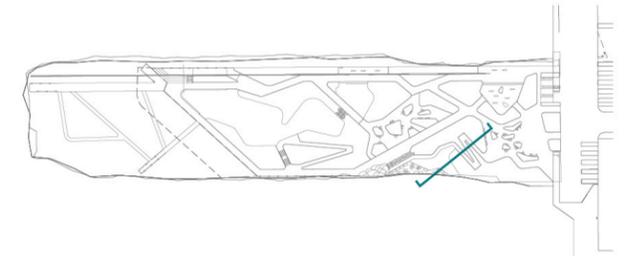
TIDE POOL

PLAN



TIDE POOL

SECTION



TIDE POOL

PEDESTRIAN VIEW



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LAWNS

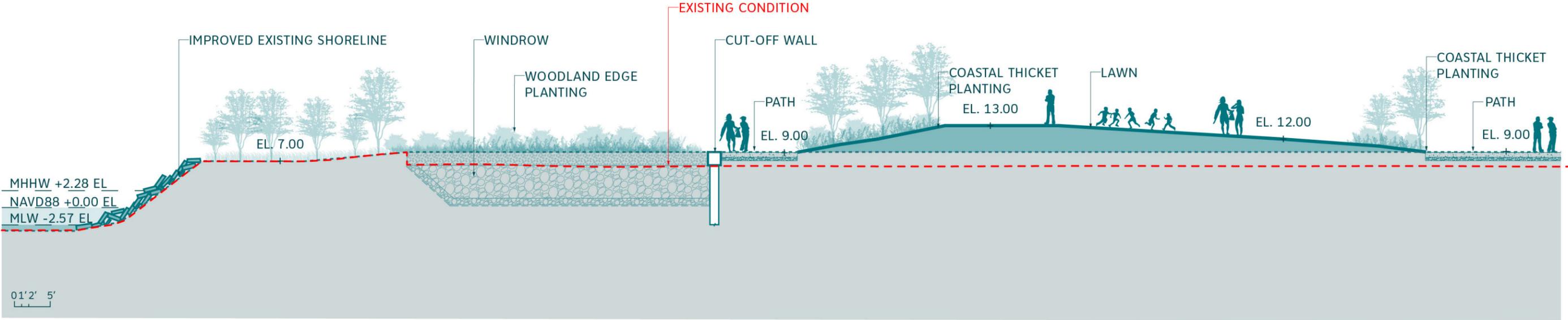
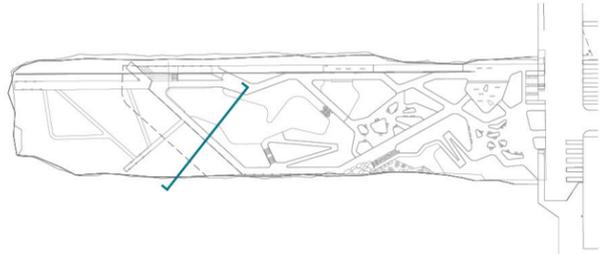
LAWNS

PLAN



LAWNS

SECTION



LAWNS

PEDESTRIAN VIEW



BUSH TERMINAL - PIER 6
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WOODLAND

+

BOARDWALK

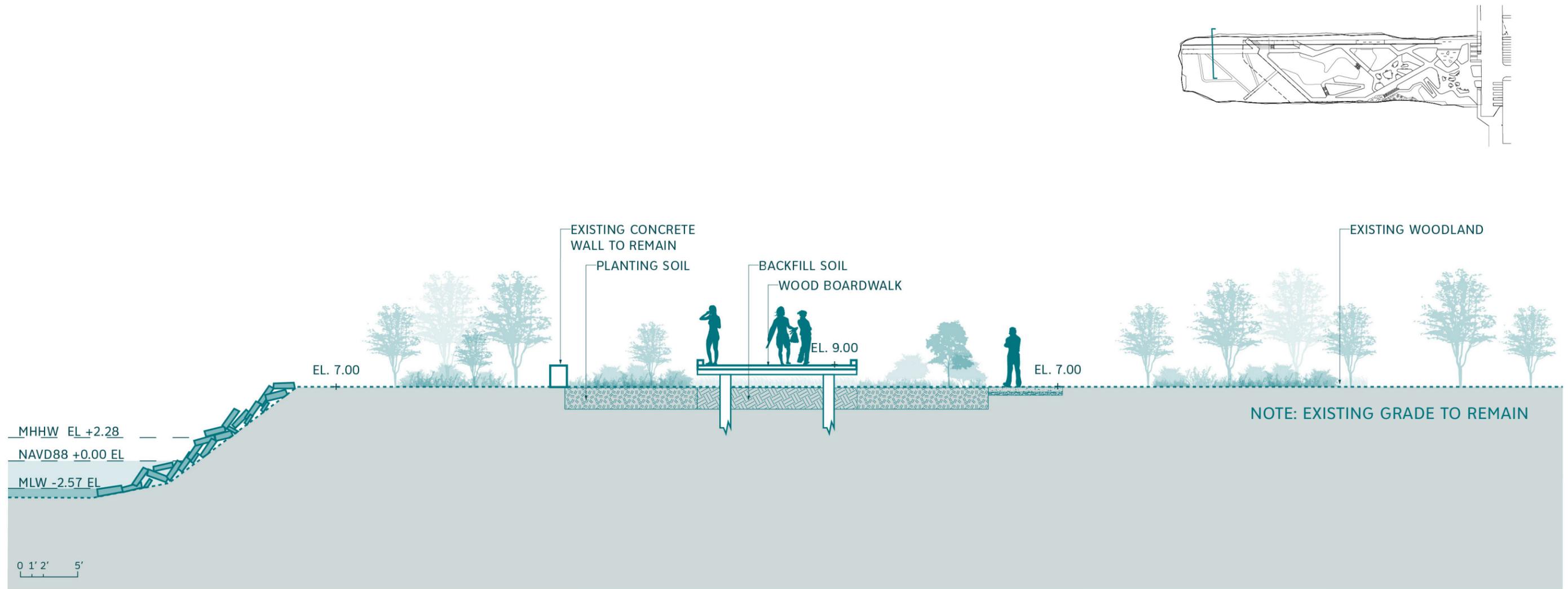
WOODLAND & BOARDWALKS

PLAN



WOODLAND & BOARDWALKS

SECTION



WOODLAND & BOARDWALKS

PEDESTRIAN VIEW

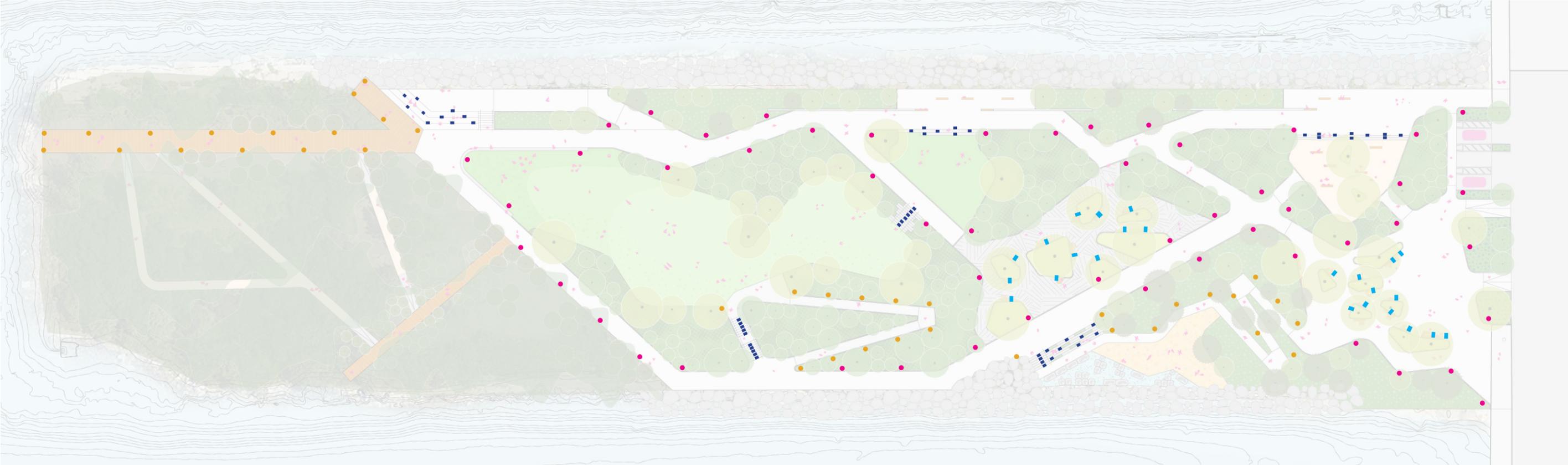


BUSH TERMINAL - PIER 6
JULY 15, 2024

LIGHTING DESIGN

LIGHTING DESIGN

PLAN



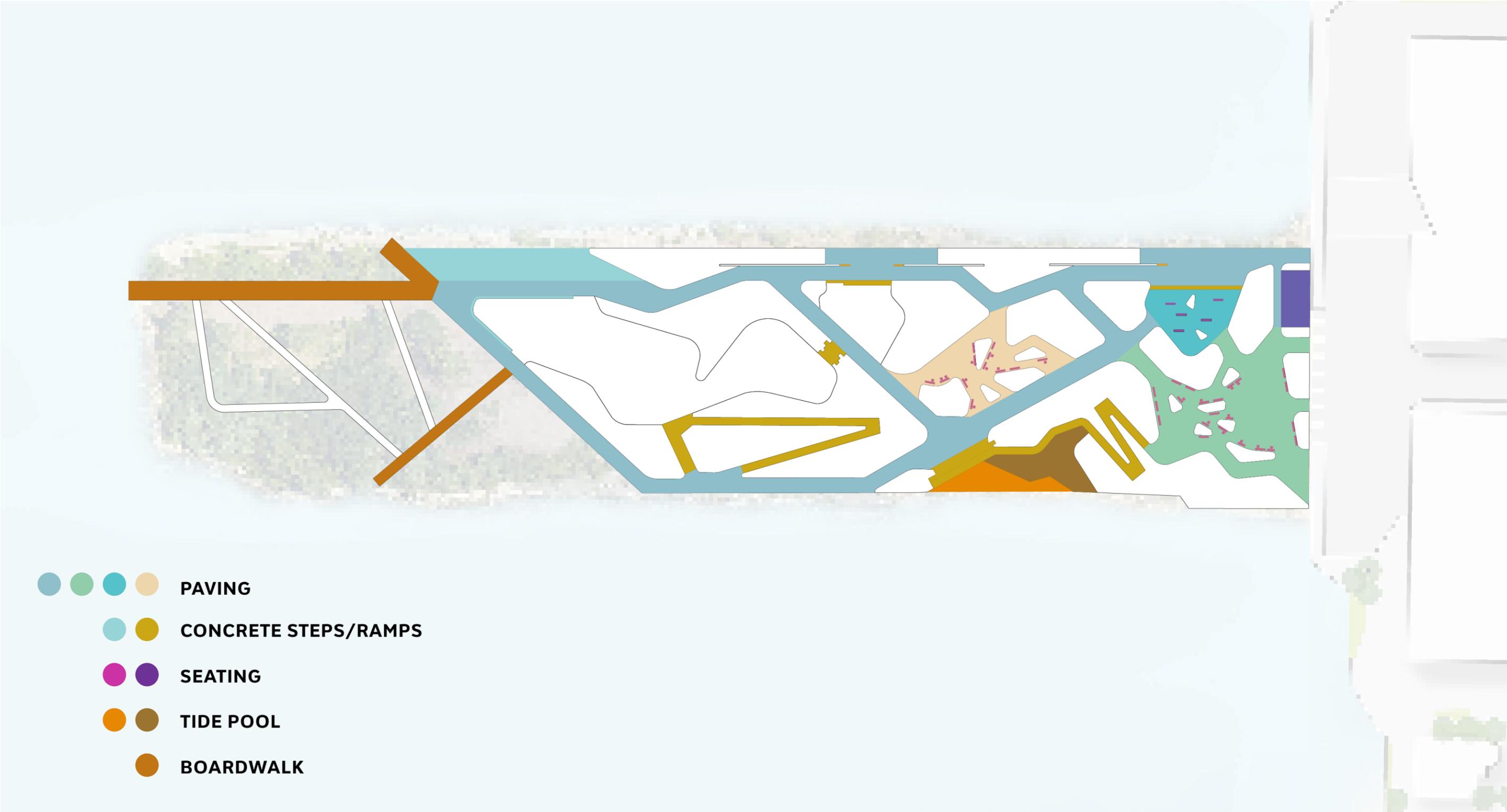
LEGEND

- TYPE A: 12' PATHWAY POLE LIGHT
- TYPE B: LIGHTED BOLLARD
- TYPE C: LED STAIR LIGHT
- TYPE D: LED SEAT LIGHT

**MATERIALS /
FURNITURE**

MATERIALS

PLAN



MATERIALS

PALETTE

PAVING



UNIT PAVERS ● ●



RECLAIMED CONCRETE FLAGS ●



CIP CONCRETE ●



STABILIZED STONE DUST ●

CONCRETE STEPS/RAMPS



CONCRETE GET DOWN STEPS ●



CONCRETE STEPS WITH LIGHT ●

BOARDWALKS



TIMBER BOARDWALK WITH KICK RAIL ●

MATERIALS

PALETTE

SEATING



RECLAIMED TIMBER BENCHES ●



TIMBER PICNIC TABLES & BENCHES ● ●



PRESERVED & IMPROVED CONCRETE SEAT WALL

TIDE POOL



ECONCRETE UNITS ●



COAST COBBLE ●

LIGHT FIXTURES



12 TALL POLE

BOLLARD

SITE ACCENTS

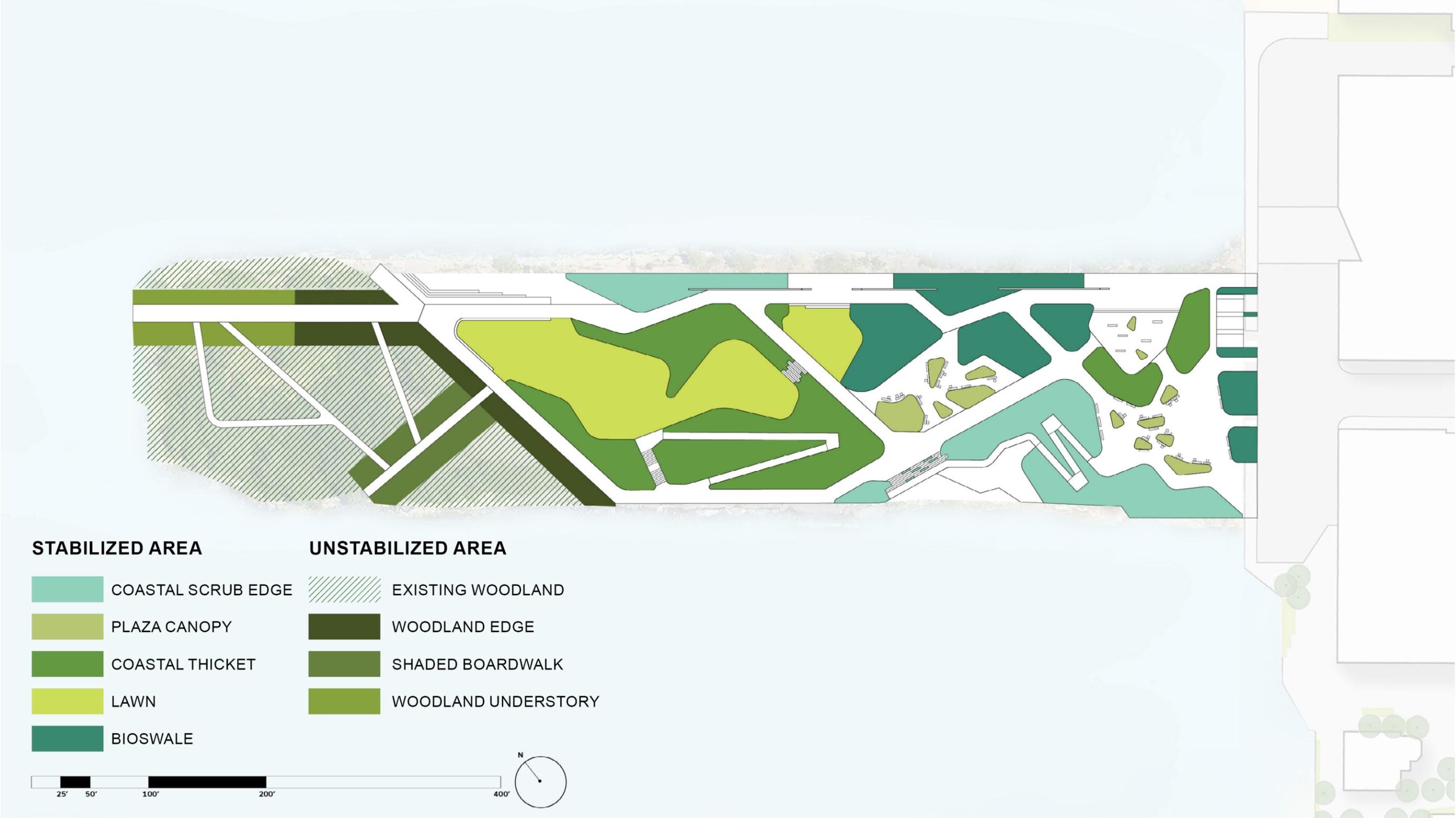


RECLAIMED MARITIME BOLLARDS & CLEATS

PLANT PALETTE

PLANT PALETTE

PLAN



PLANT PALETTE

COASTAL SCRUB EDGE



SOLIDAGO SEMPERVIRENS
SEASIDE GOLDENROD



BACCHARIS HALIMFOLIA
GROUNSEL TREE



RHUS COPALLINUM
SHINING SUMAC



PANICUM VIRGATUM
SWITCHGRASS



PRUNUS MARITIMA
BEACH PLUM



JUNIPERUS VIRGINIANA
EASTERN RED CEDAR

PLAZA CANOPY



QUERCUS RUBRA
RED OAK



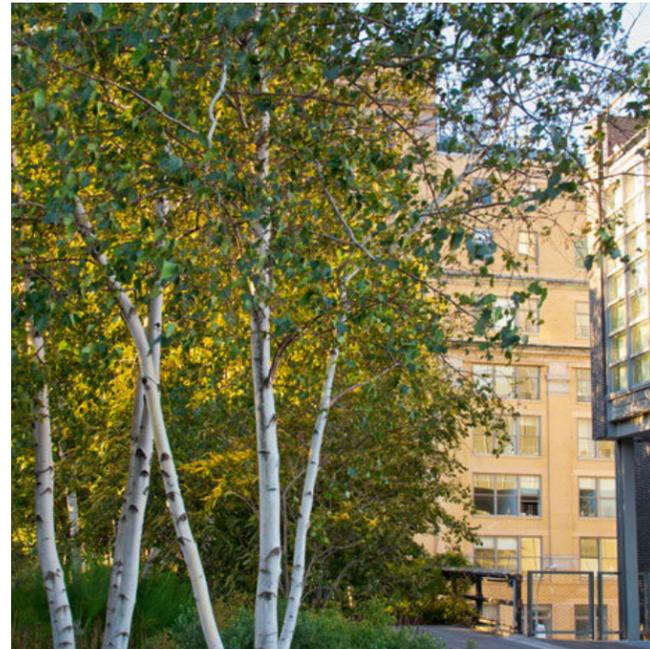
QUERCUS ALBA
WHITE OAK

PLANT PALETTE

COASTAL THICKET



TRIDENS FLAVUS
PURPLETOP



BETULA POPULIFOLIA
GRAY BIRCH

WOODLAND EDGE



MORELLA PENNSYLVANICA
BAYBERRY



VIBURNUM DENTATUM
ARROWWOOD



ILEX GLABRA
INKBERRY HOLLY



PINUS RIGIDA
PITCH PINE



SAMBUCUS CANADENSIS
COMMON ELDERBERRY



ILEX OPACA
AMERICAN HOLLY

PLANT PALETTE

SHADED BOARDWALK



EUPATORIUM ALTISSIMUM
TALL BONESET



ARONIA MELANOCARPA
BLACK CHOKEBERRY

WOODLAND UNDERSTORY



DESCHAMPSIA FLEUXOSA
COMMON HAIRGRASS



HEUCHERA AMERICANA
AMERICAN ALUMROOT



HAMAMELIS VIRGINIANA
COMMON WITCHHAZEL



POPULUS DELTOIDES
EASTERN COTTONWOOD



LUZULA MERIDIONALIS
COMMON WOODRUSH



SYMPHYOTRICHUM NOVI-BELGII
NEW YORK ASTER

PLANT PALETTE

BIOSWALES



PANICUM VIRGATUM
SWITCHGRASS



CEPHALANTHUS OCCIDENTALIS
BUTTONBUSH



ILEX GLABRA
INKBERRY



QUERCUS PHELLOS
WILLOW OAK

LAWN SURROUNDED BY CANOPY



UNDERSTORY IMPROVEMENTS IN EXISTING WOODLAND



SCHEMATIC DESIGN RECAP

SCHEMATIC DESIGN

BUSH TERMINAL - PIER 6 - PLAN



SCHEMATIC DESIGN

BUSH TERMINAL - PIER 6 - BIRD'S EYE VIEW LOOKING NORTH



BUSH TERMINAL - PIER 6
JULY 15, 2024

THANK YOU