East Side Coastal Resiliency SANDRESM1

Final Review Public Design Commission

December 16, 2019









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1. SITE DESIGN: PROJECT AREA 1 (PA1)

2. SITE DESIGN: PROJECT AREA 2 (PA2)

3. SITE ELEMENTS

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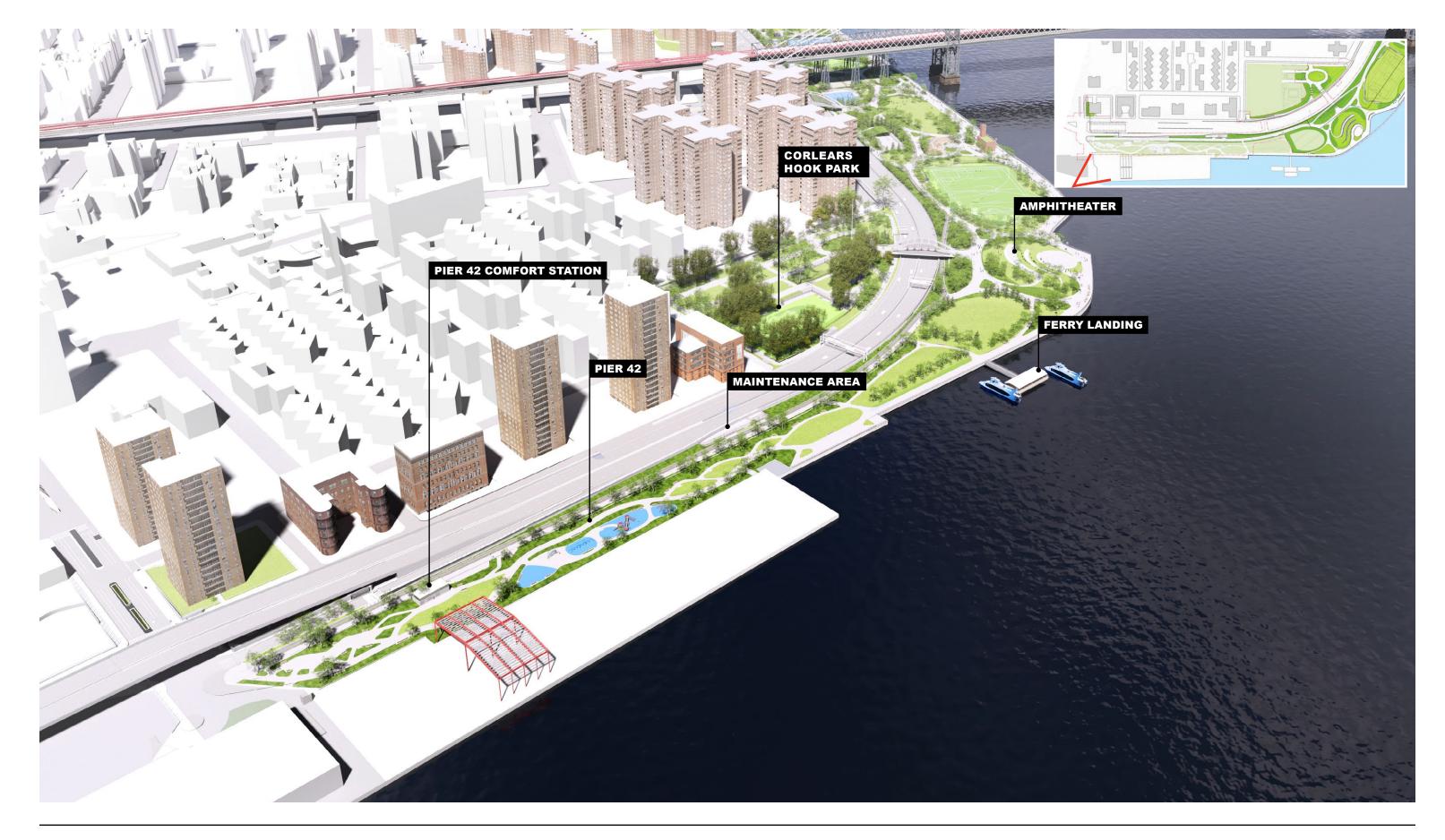
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PA1 Site Design Final Review



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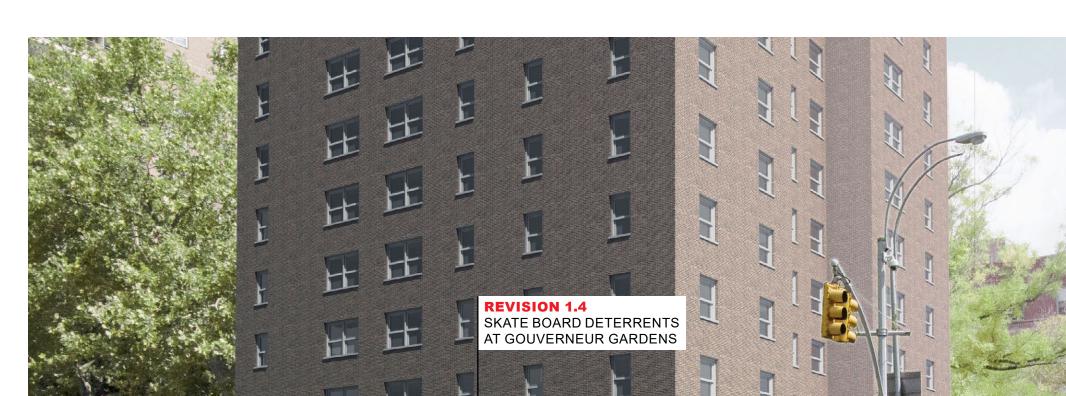
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REVISION 1.4 SKATE BOARD DETERRENTS AT GOUVERNEUR GARDENS Ĩ T



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Montgomery Street Tie-Back Gate Open Final Review

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Montgomery Street Tie-Back Gate Closed Final Review

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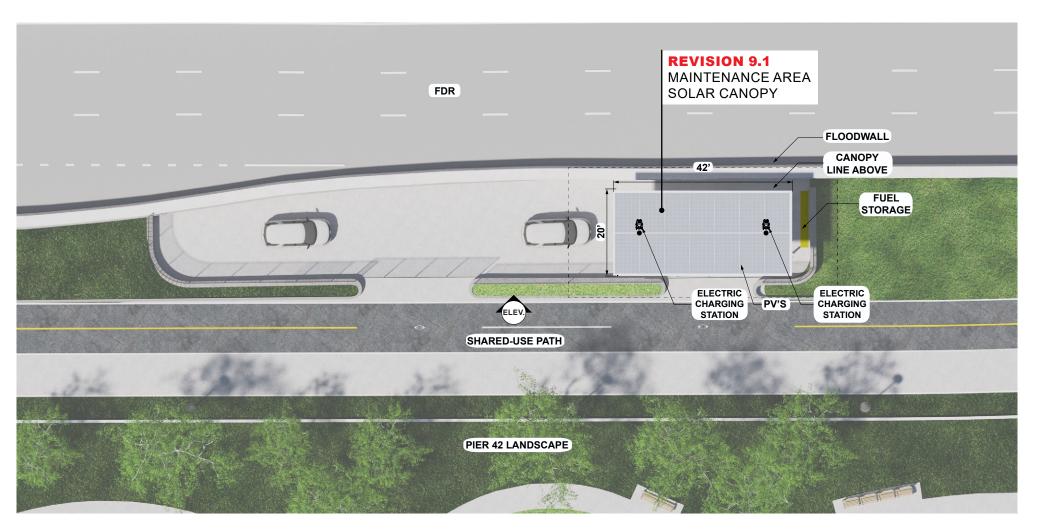
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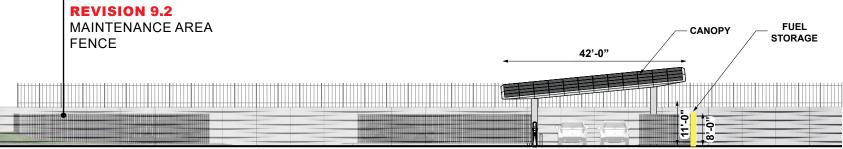
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Manhattan Greenway Final Review







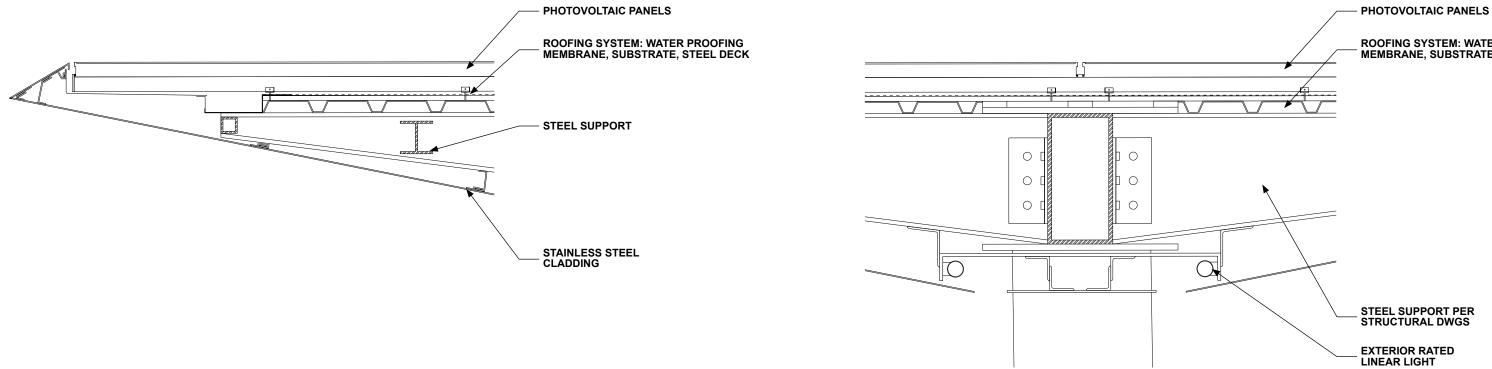
Pier 42 Maintenance Area Elevation

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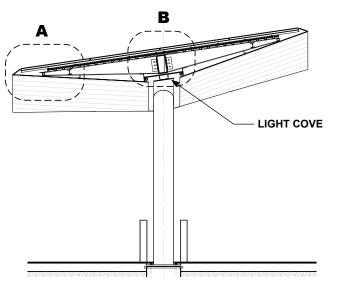
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Pier 42 Maintenance Area Final Review 10

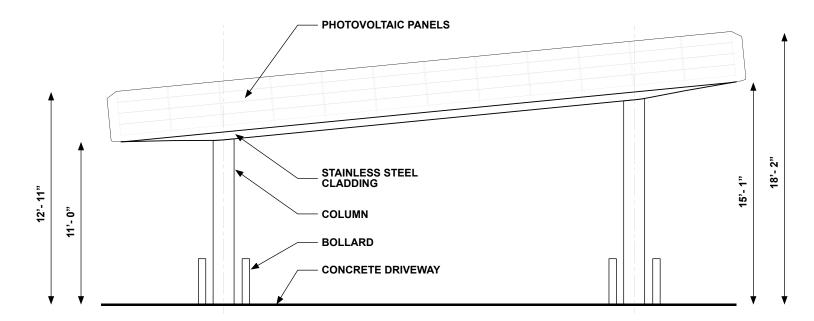


Detail A **Section at Canopy Edge**

Detail B **Section at Light Cove and PV Panels**



East Section



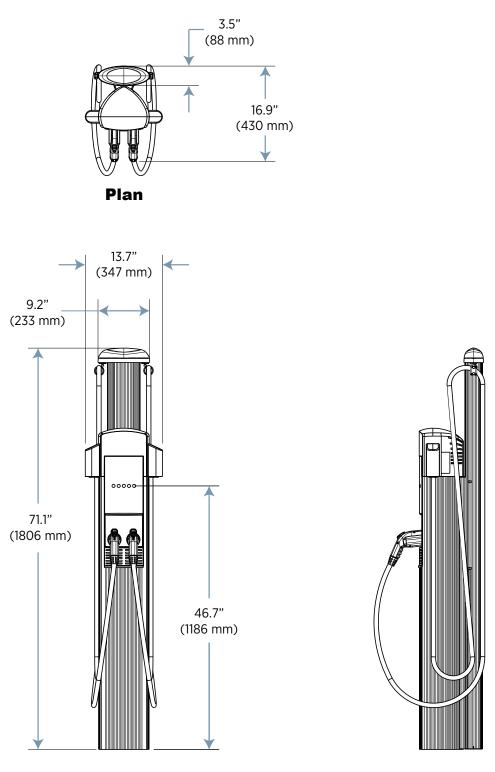
South Elevation

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Pier 42 Maintenance Area Final Review 11

ROOFING SYSTEM: WATER PROOFING MEMBRANE, SUBSTRATE, STEEL DECK



Front Elevation

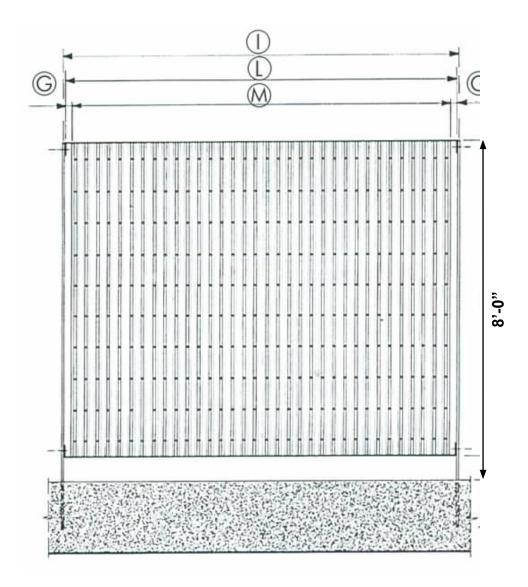
Side Elevation

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Maintenance Area 3 EV Charging Station Pedestal Detail 12





Fence Appearance

Fence Detail

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Pier 42 Maintenance Area Talia Louver Style Fence13



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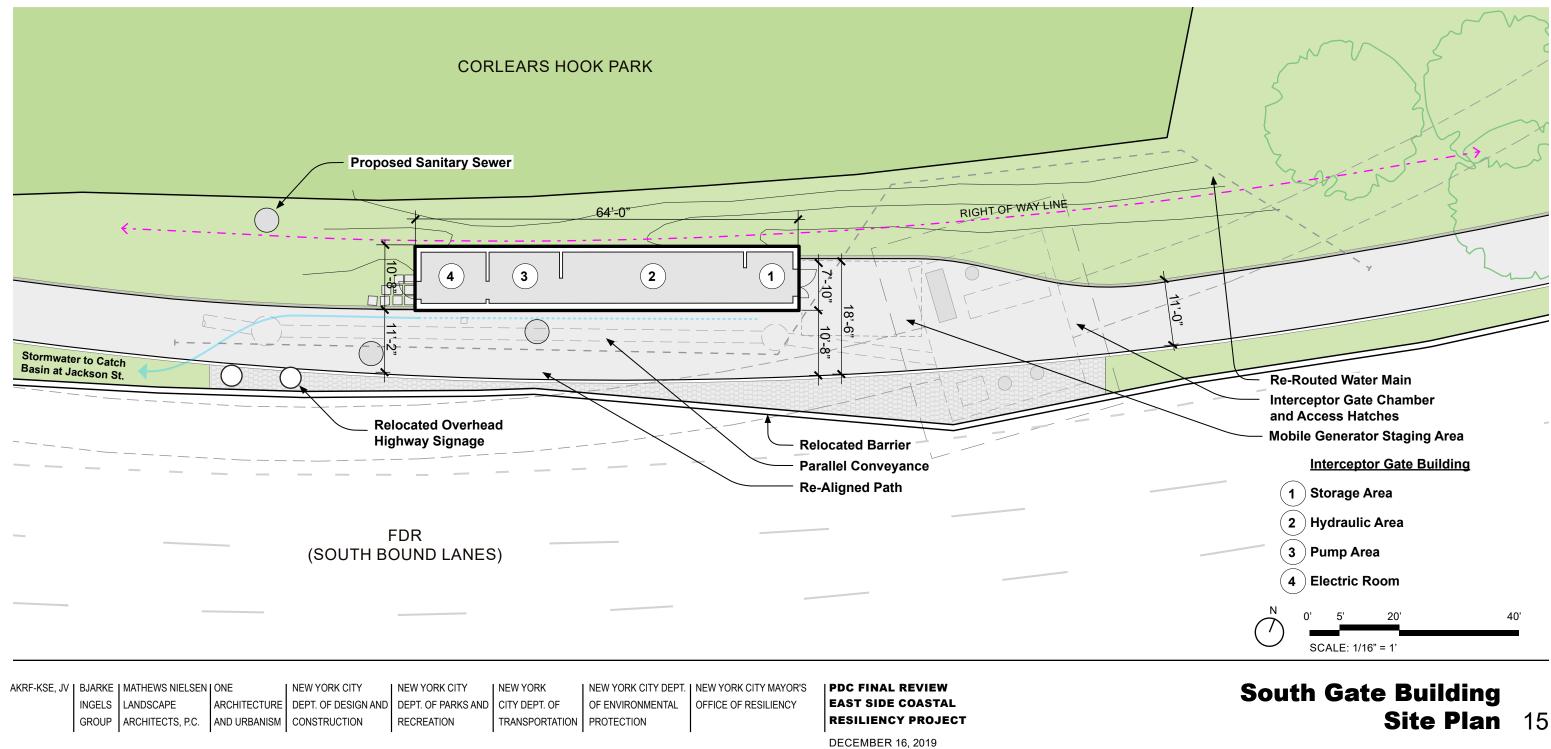
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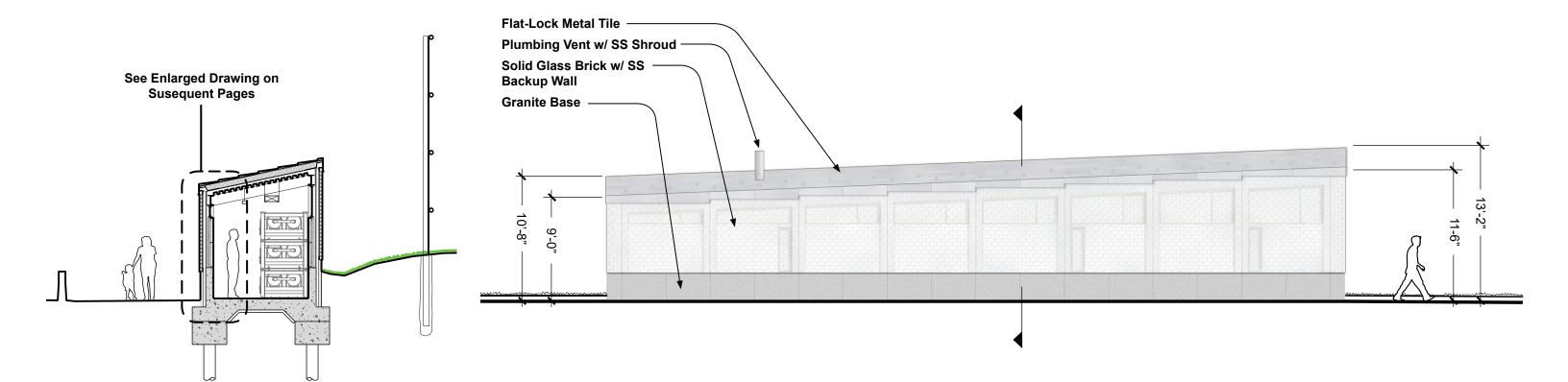
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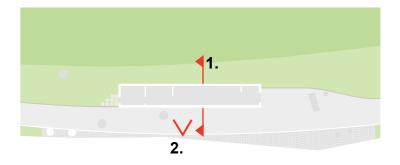


1. CROSS SECTION

2. SOUTH ELEVATION

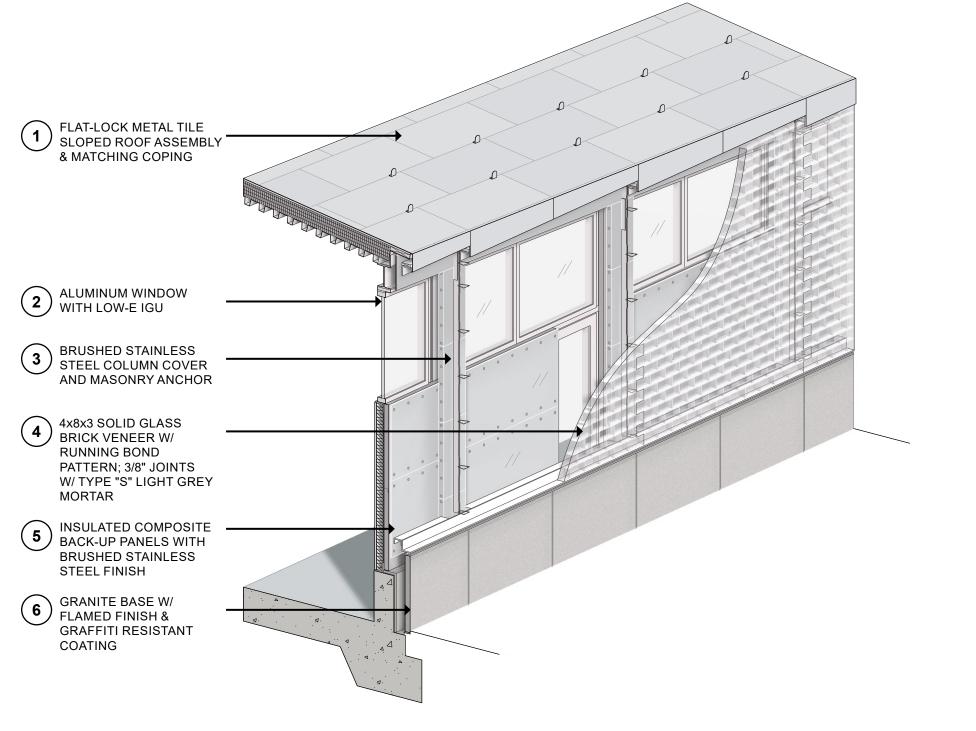
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South Gate Building Section & Elevation 16



CUTAWAY AXONOMETRIC

DETAILED RENDERED ELEVATION

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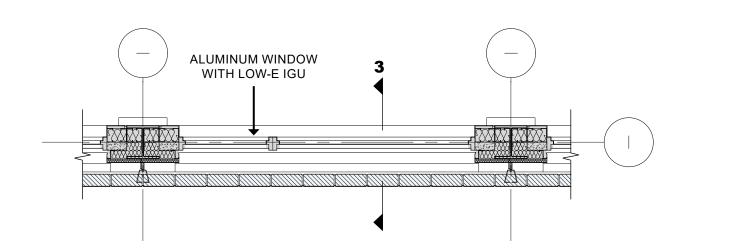
South Gate Building Facade Detail 17



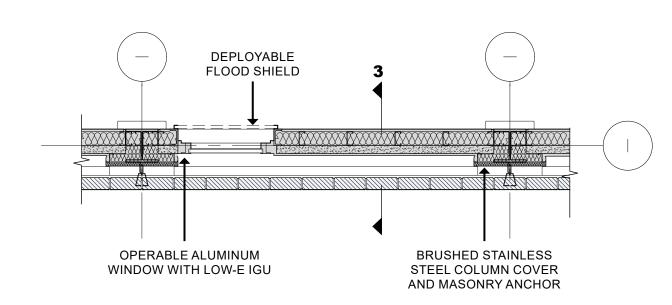
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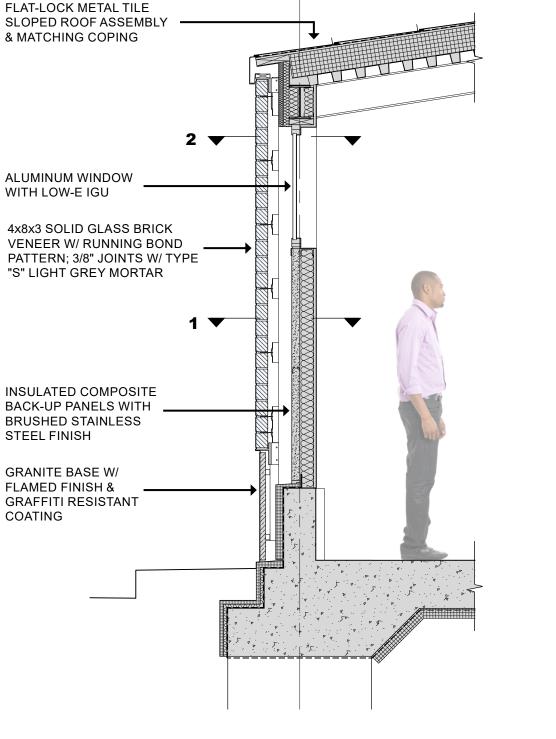
2. TYPICAL WALL ASSEMBLY AT CLERESTORY WINDOW





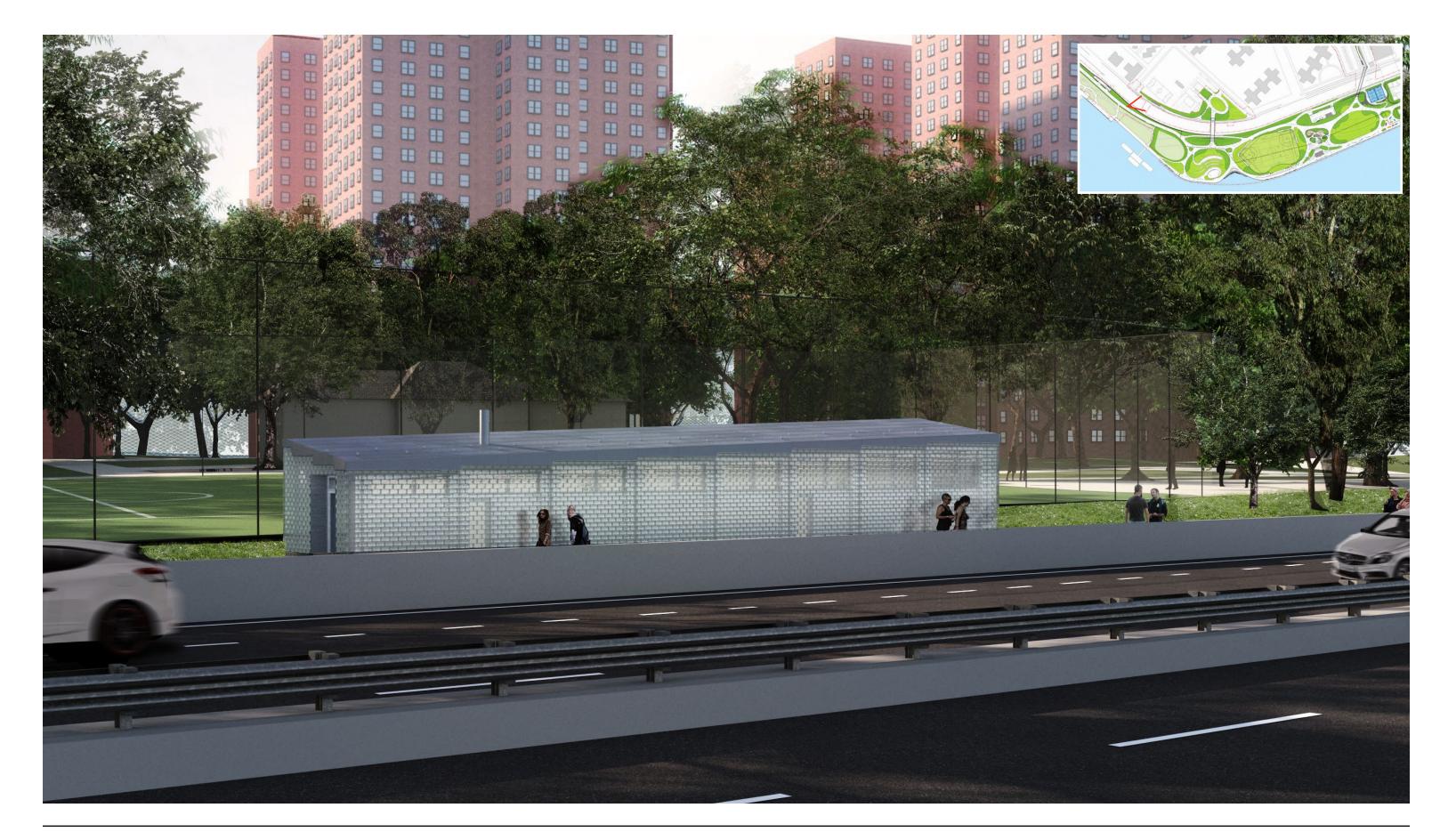
1. TYPICAL WALL ASSEMBLY





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South Gate Building View From Southwest 19

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Corlears Hook Bridge FDR View 21



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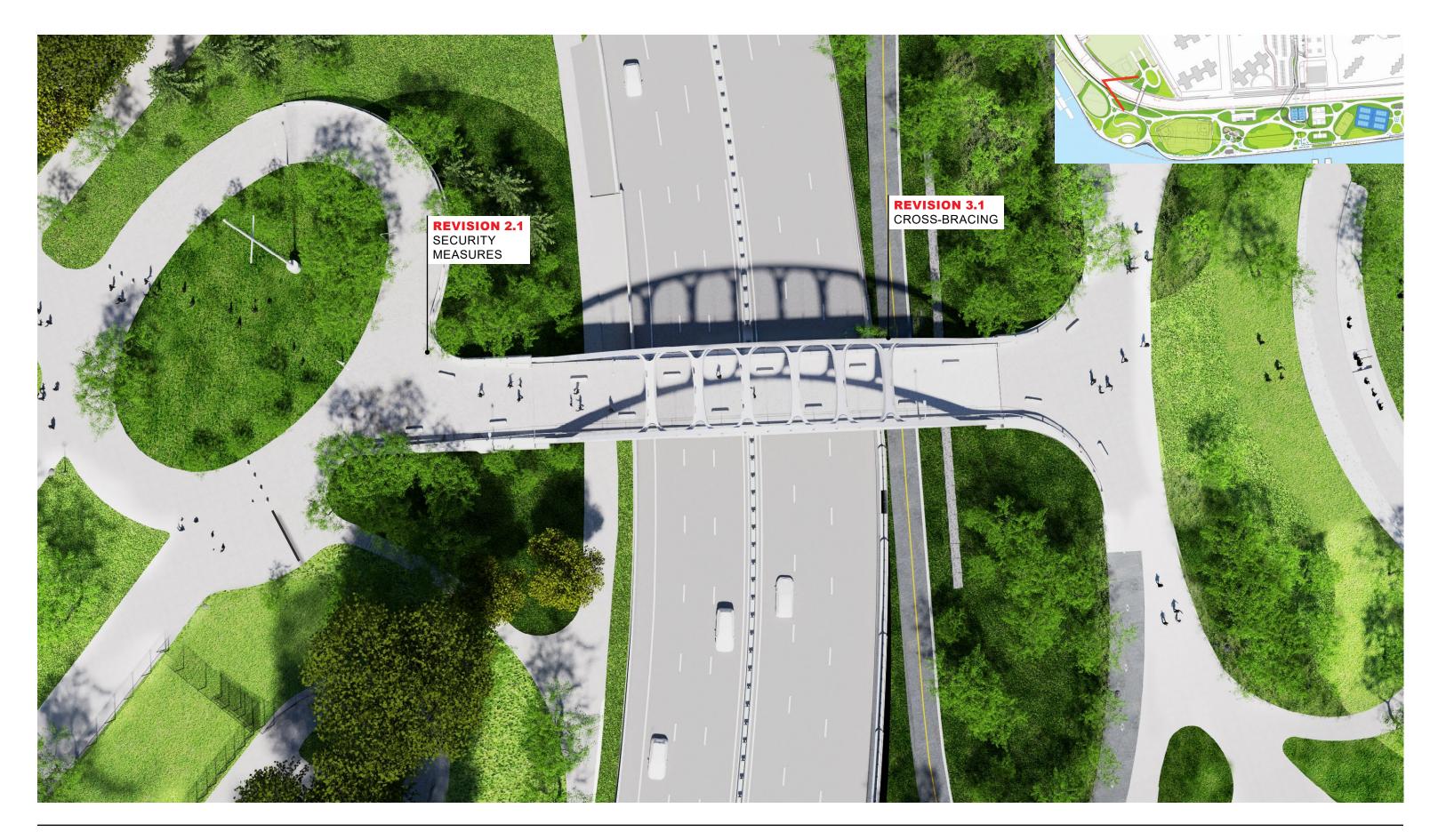
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Corlears Hook Bridge On-Bridge View 22



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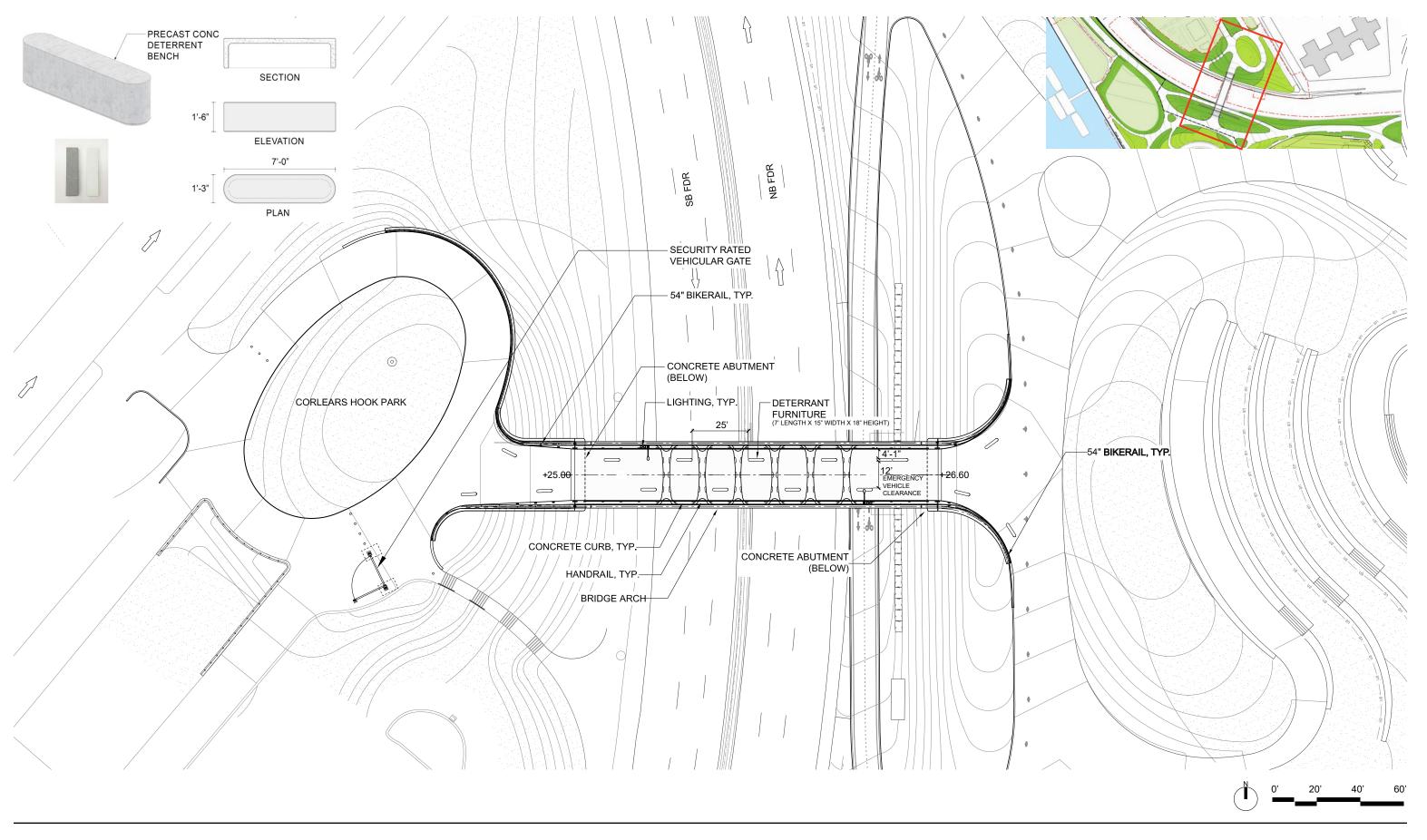
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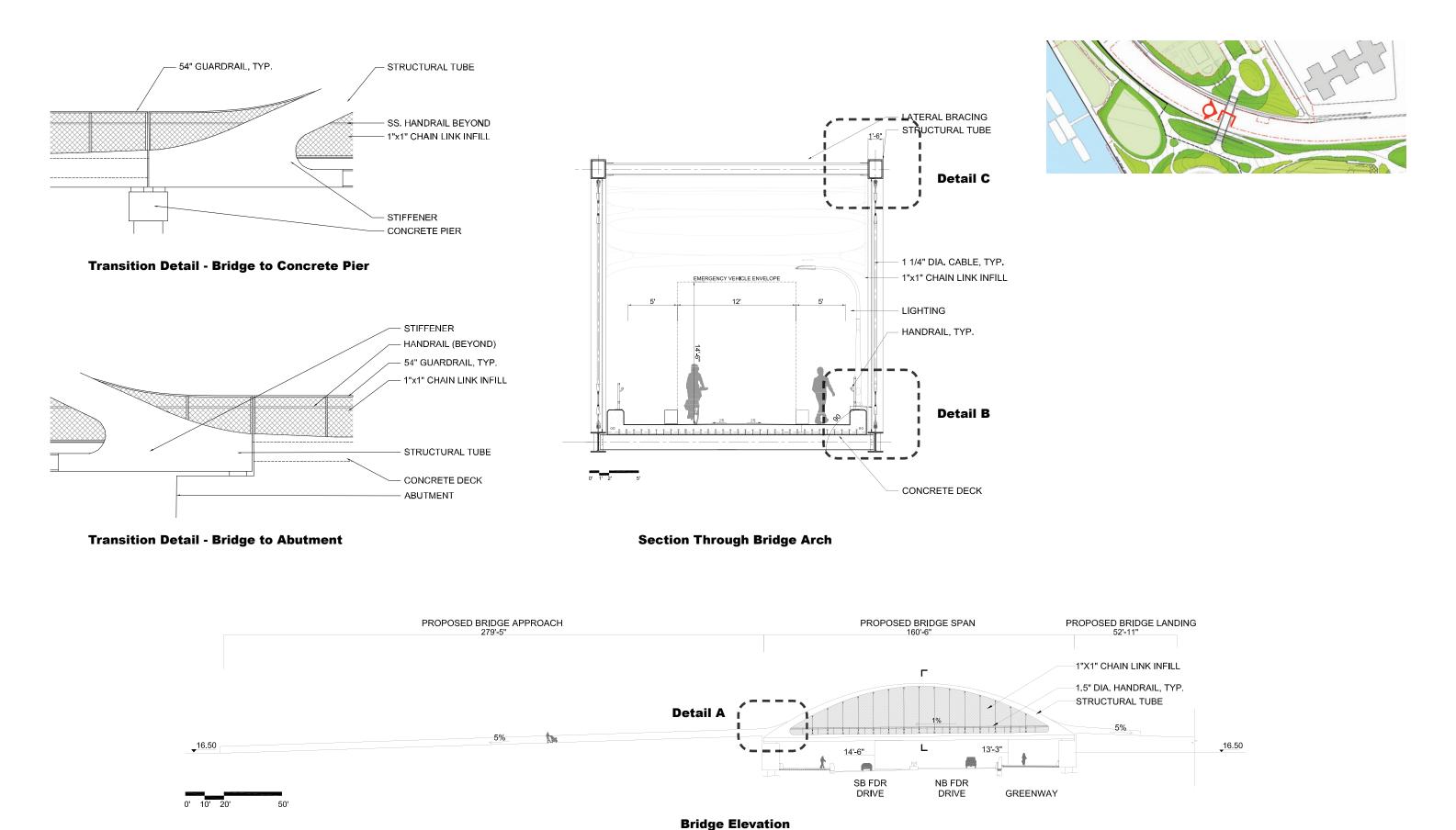
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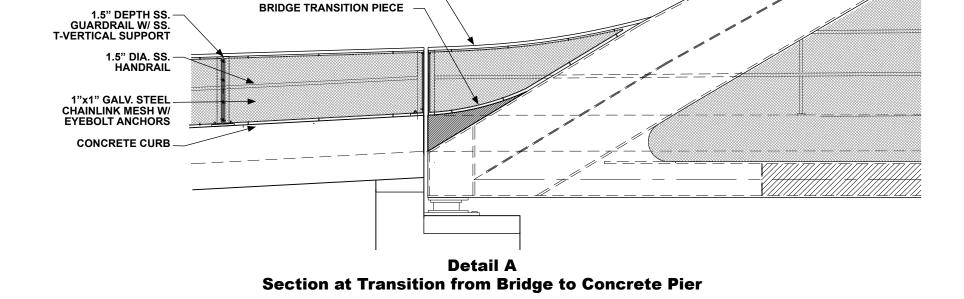
Corlears Hook Bridge Enlargement Plan 24



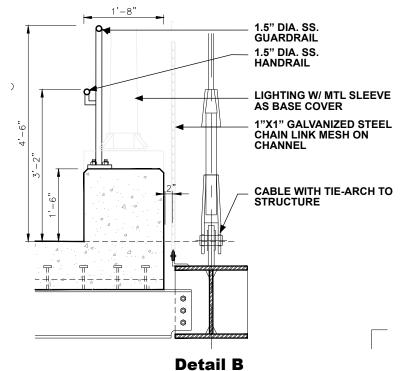
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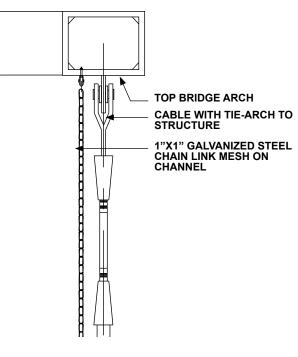
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Corlears Hook Bridge Section and Elevation 25



1.5" DEPTH GUARDRAIL TRANSITIONS INTO BRIDGE ARCH





Detail C Section at Top Structural Tube

Section at Concrete Deck

Corlears Hook Bridge Section and Elevation 26

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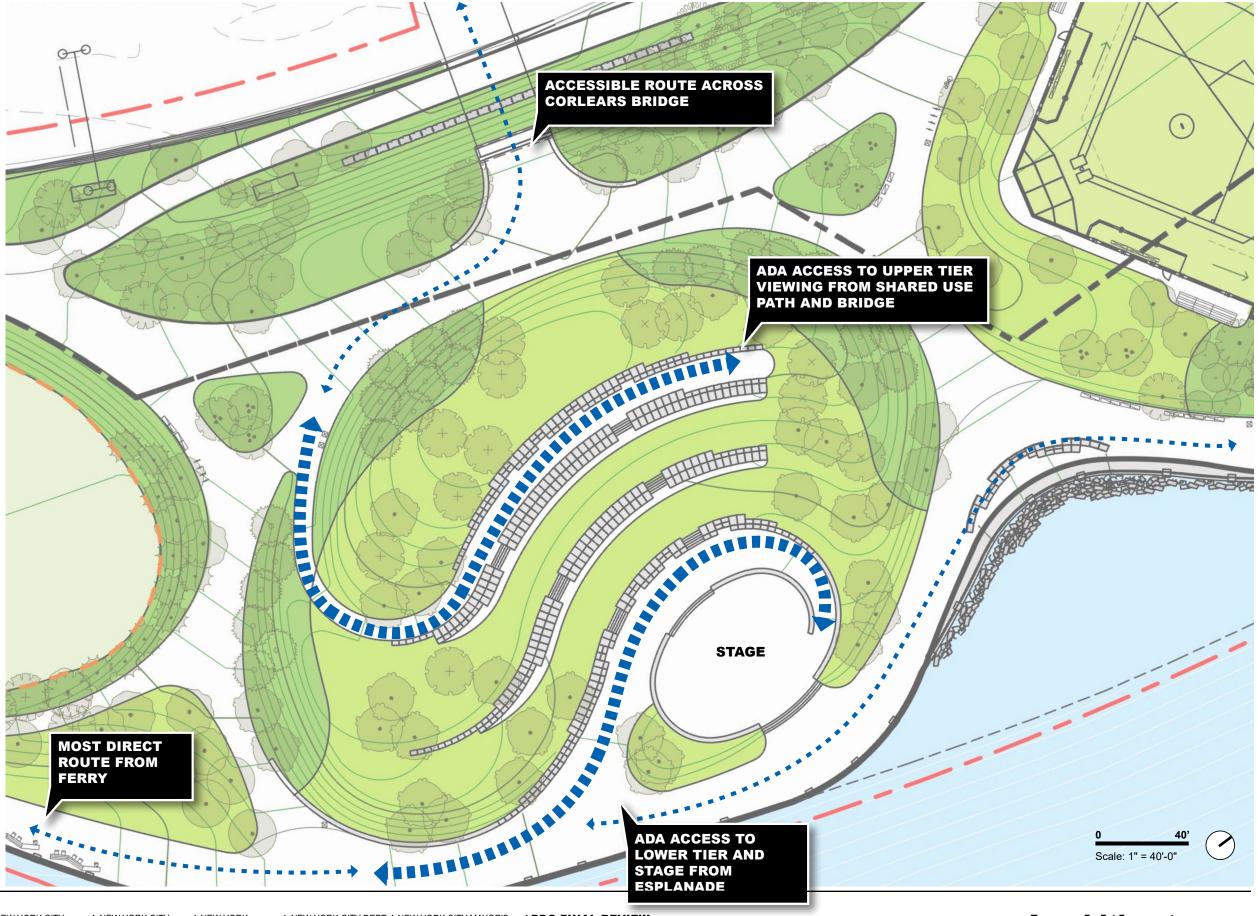
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Amphitheater **Final Review** 27





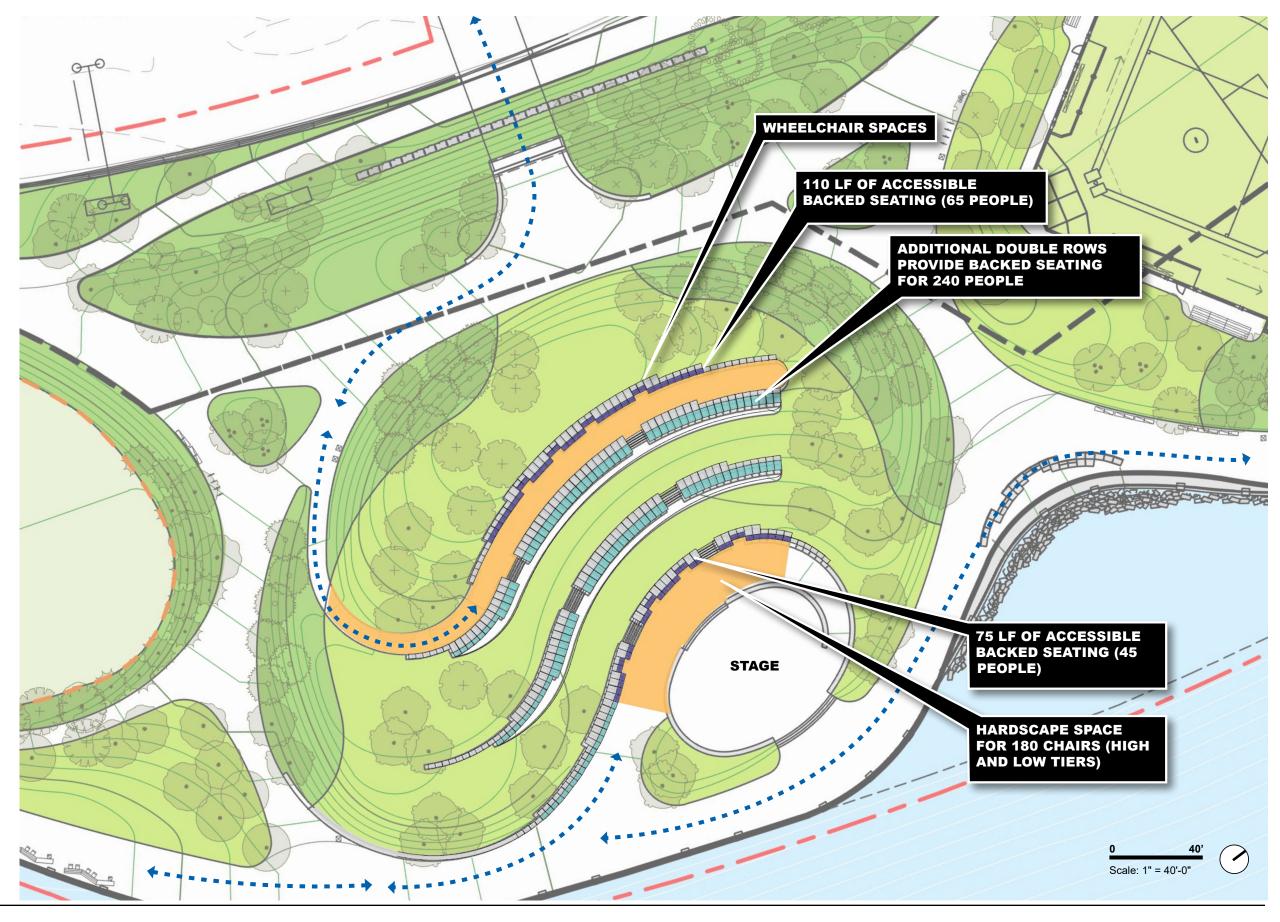
Amphitheater Accessibility 28

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Amphitheater Seating 29

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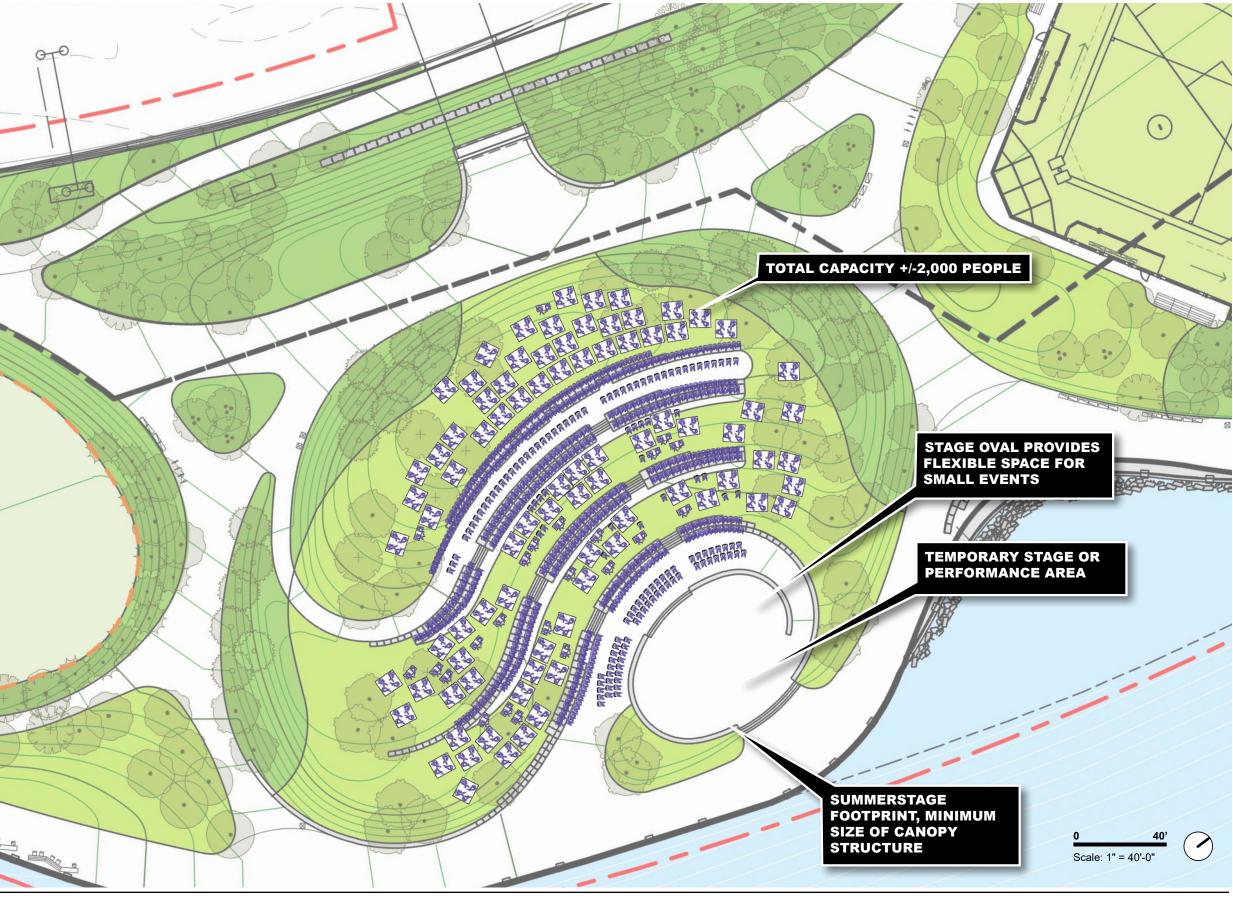
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2000 PEOPLE

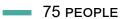
TOTAL CAPACITY:+/-2,000 PEOPLE LAWN CAPACITY: 1,070 PEOPLE FIXED SEATING CAPACITY: 750 PEOPLE HARDSCAPE CAPACITY = 180 PEOPLE

NOTE: TOTAL SIZE: +/-40,000 SF



Amphitheater **Capacity** 30

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Amphitheater Capacity 31

FLOODWALL UNDER GROUND **BACKED SEATING** NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK EAST SIDE COASTAL INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY LANDSCAPE

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TRANSPORTATION PROTECTION GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION

50' LAWN

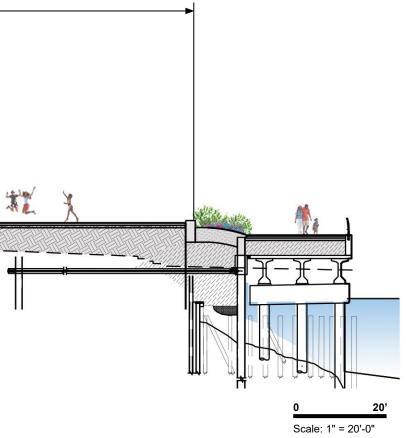
85' AMPHITHEATER SEATING

RESILIENCY PROJECT

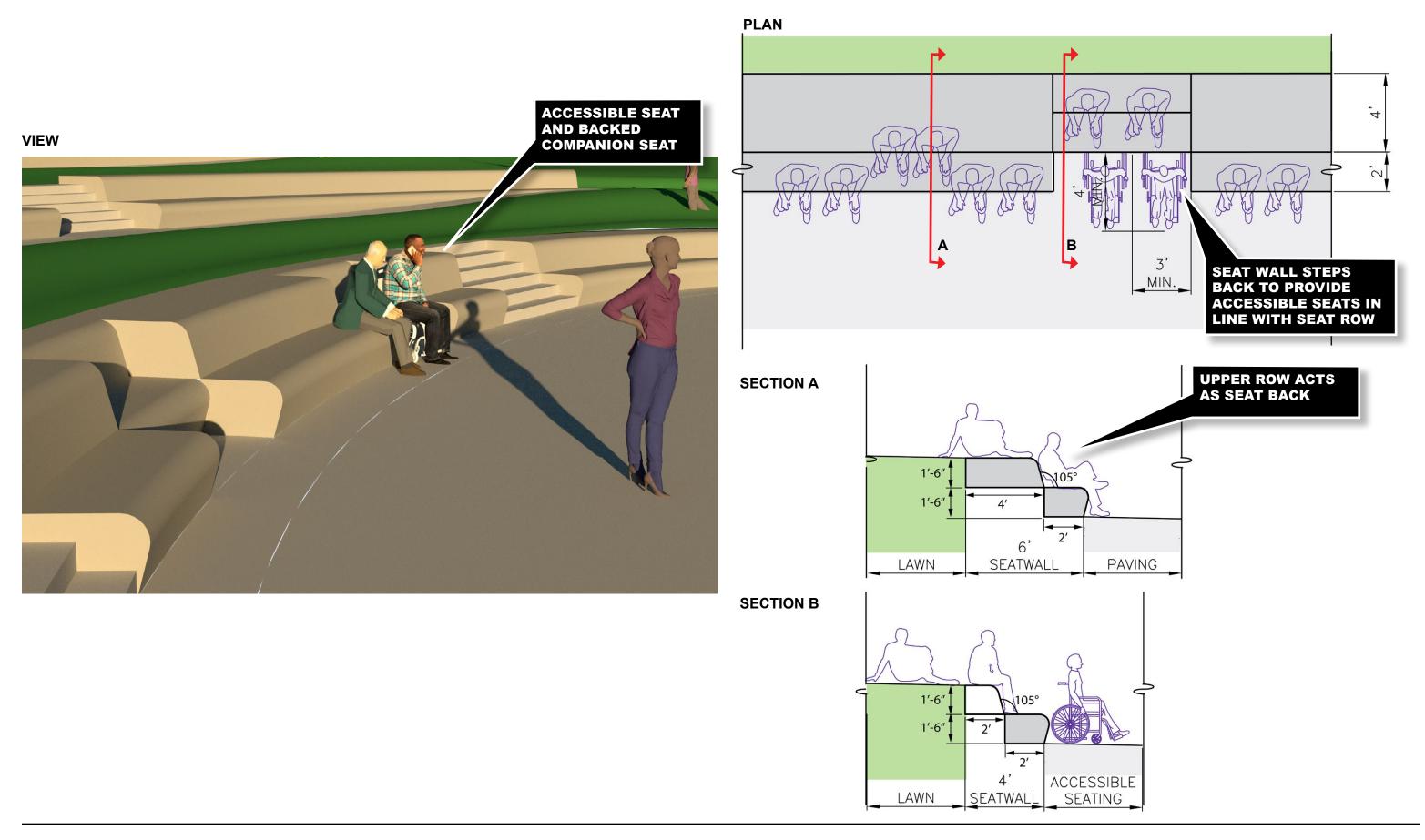


55' STAGE

16' PATH



Amphitheater Section 32



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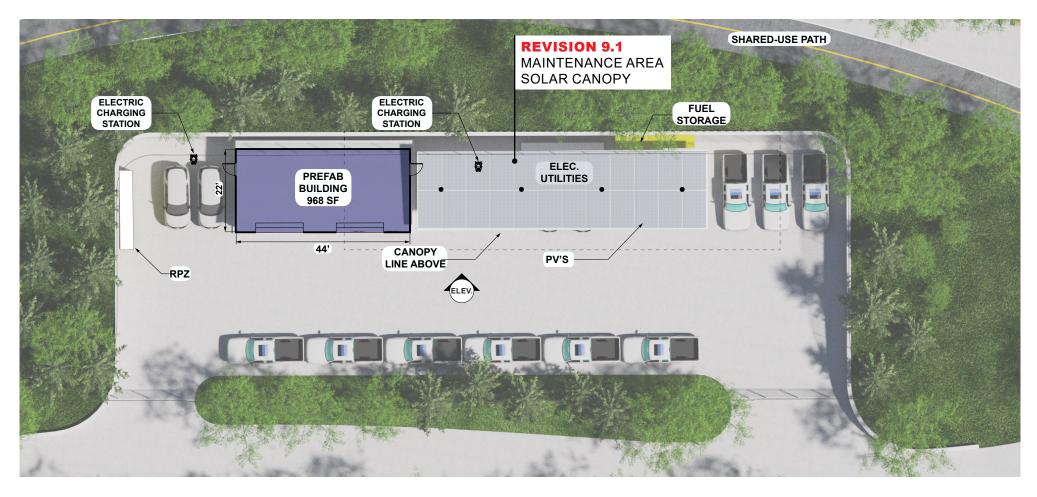
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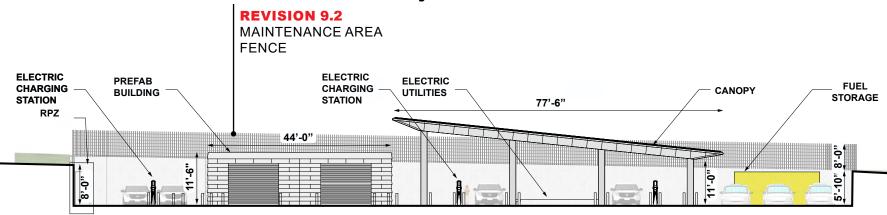


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Nature Exploration Final Review 35



Delancey Maintenance Area Plan



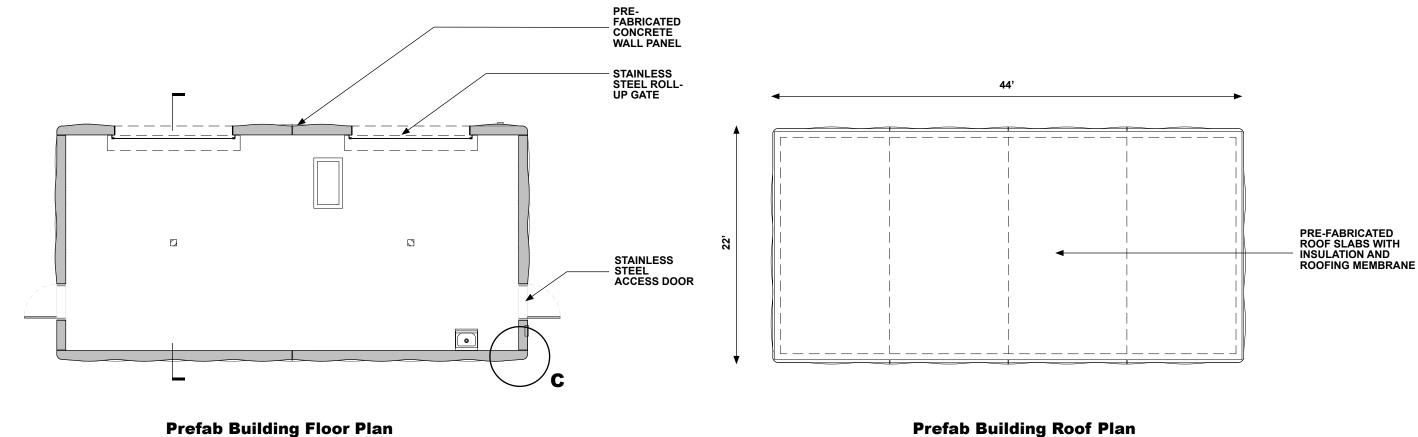
Delancey Maintenance Area Elevation

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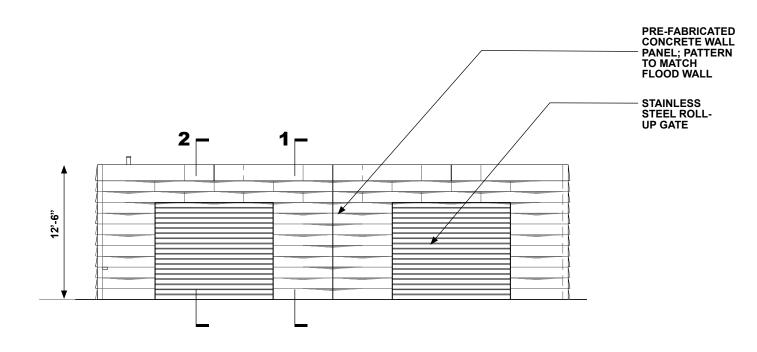
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

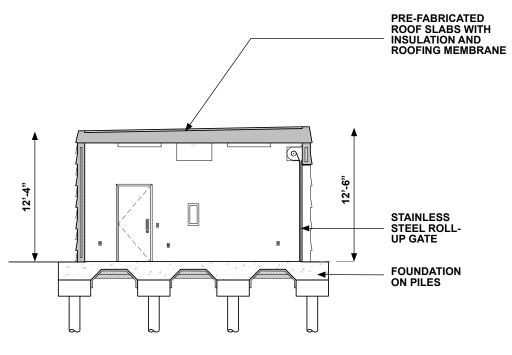
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Maintenance Area 2 Final Review 36



Maintenance Area 2 Floor Plan / Roof Plan 37





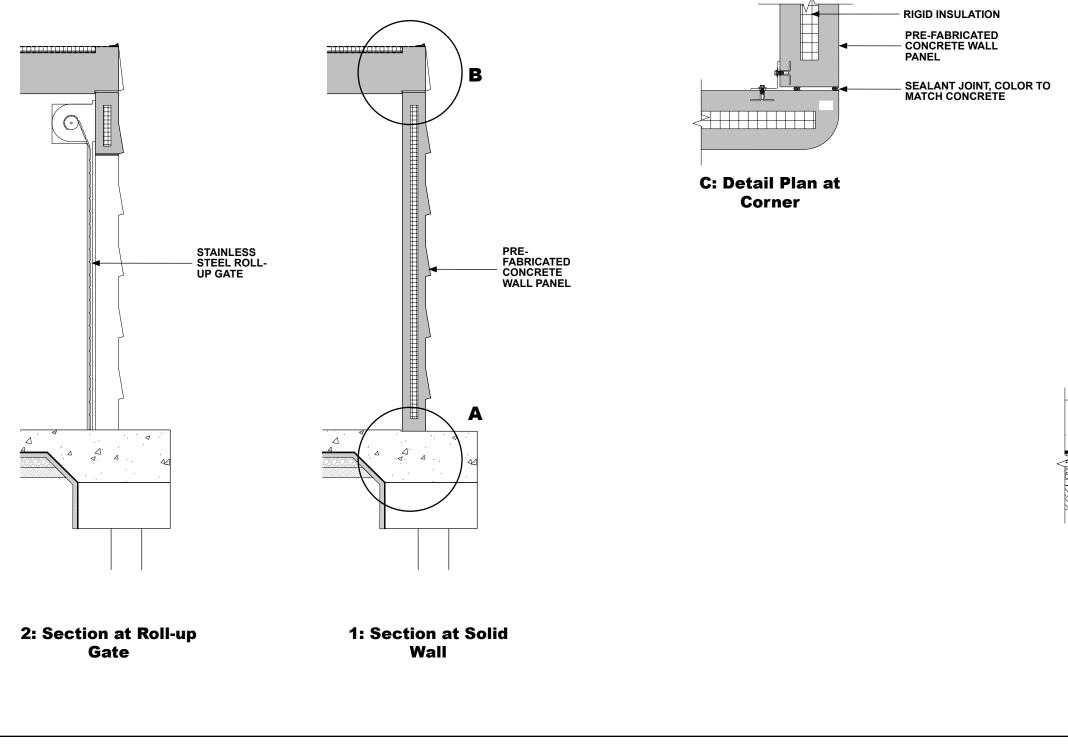
Prefab Building Elevation

Prefab Building Section

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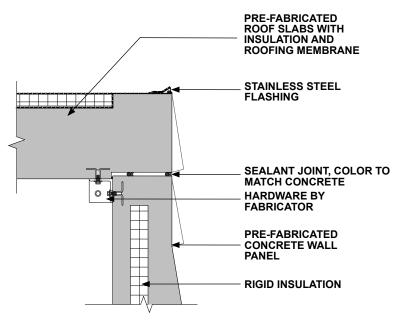
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Maintenance Area 2 Elevation / Section 38

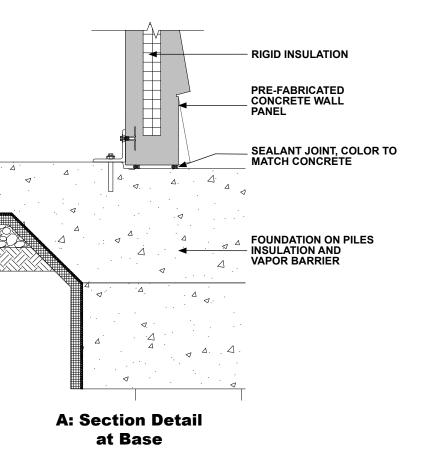


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Maintenance Area 2 Wall Details 39

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Delancey Bridge Existing Condition 40



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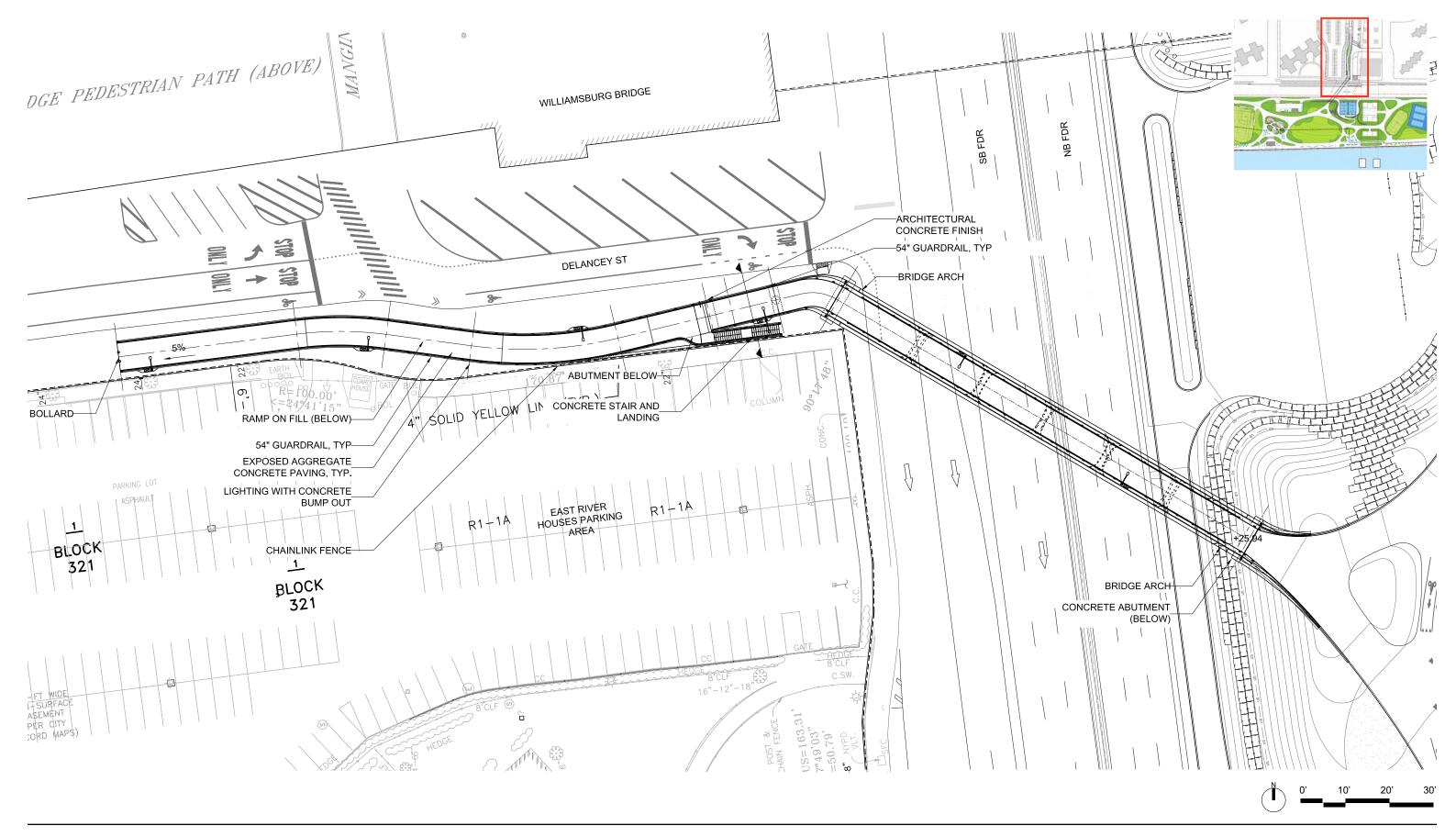
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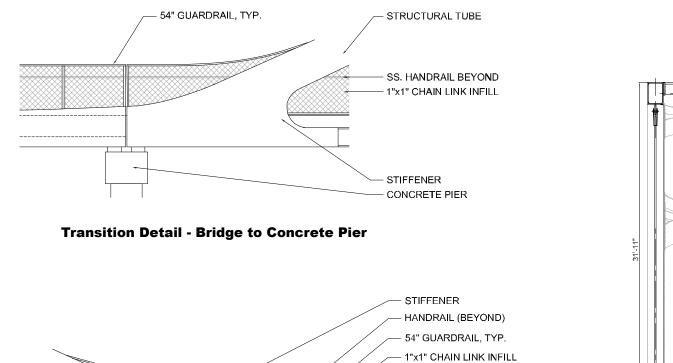
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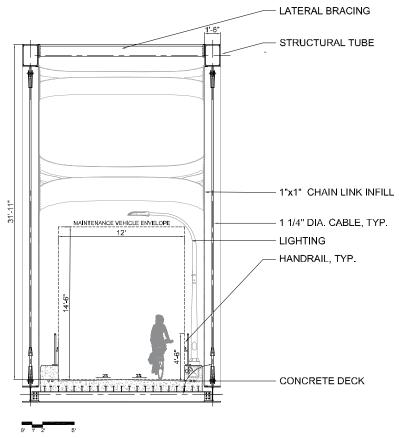
Delancey Street Bridge Enlargement Plan 43



STRUCTURAL TUBE

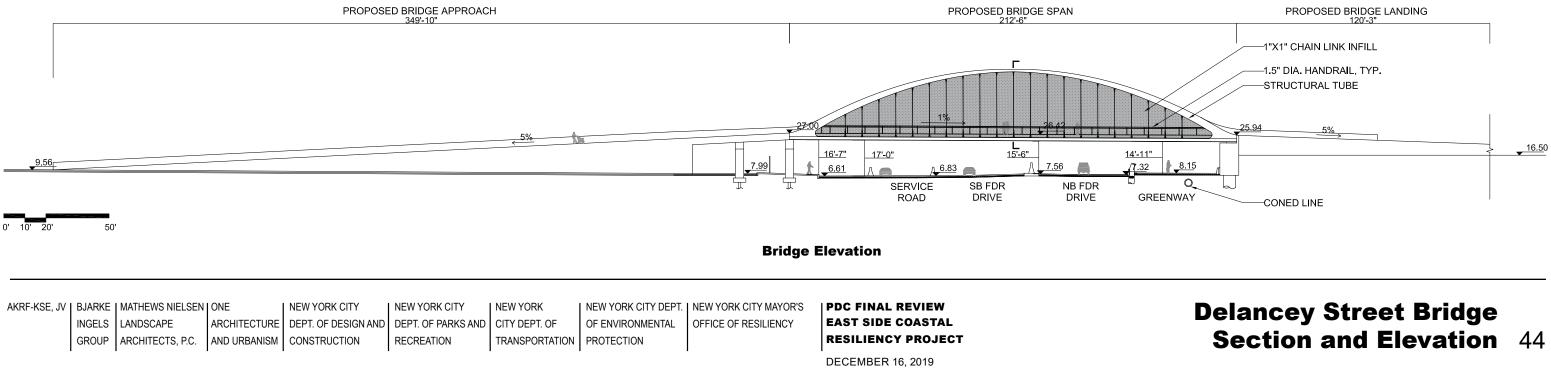
CONCRETE DECK

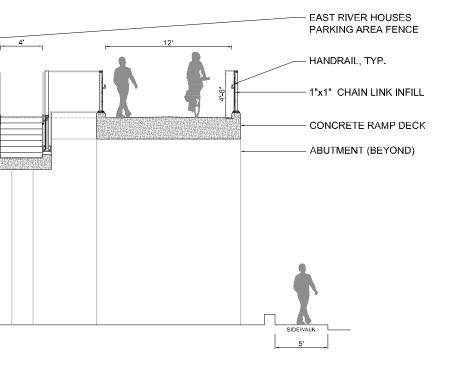
ABUTMENT



Transition Detail - Bridge to Abutment

Section Through Bridge Arch





0' 1' 2'

-8" TOT/

Section Through Ramp & Stair





Delancey Street Bridge City-Side Landing 45



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Delancey Street Bridge Bridge View 46

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Delancey Street Bridge On Bridge View 47

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Reaches E-G Final Review 48

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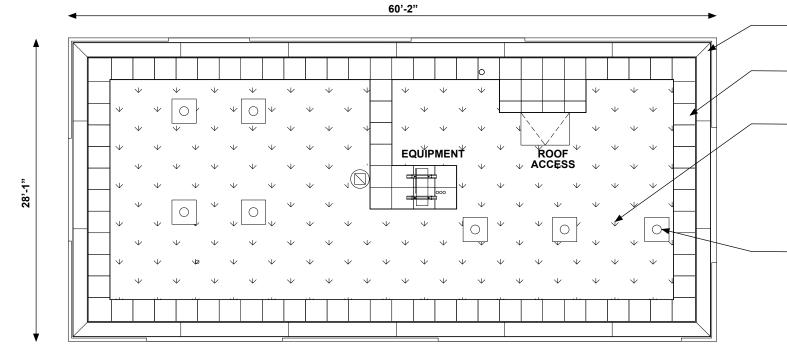
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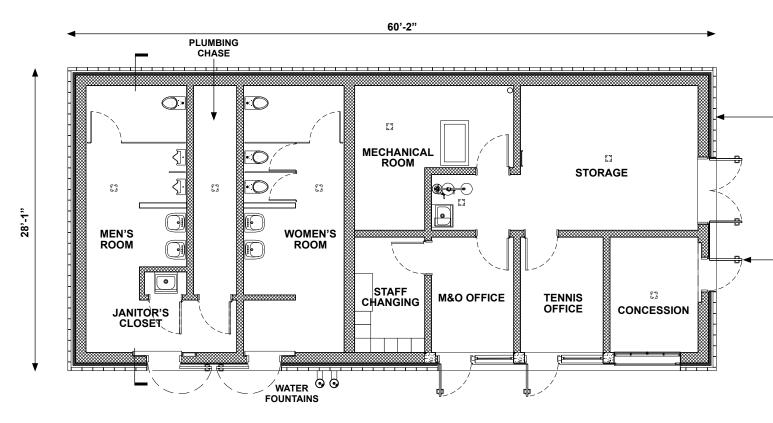
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



Tennis House Park View 49



Tennis House Roof Plan



Tennis House Floor Plan

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STAINLESS STEEL COPING

CONCRETE PAVERS ON PEDESTALS

GREEN ROOF

LIGHT TUBES

REVISION 6.1 PARK BUILDING SOLAR TUBES

RUNNING - BOND BRICK

- STAINLESS STEEL ACCESS DOOR, TYP.

Tennis House Floor Plan / Roof Plan 50



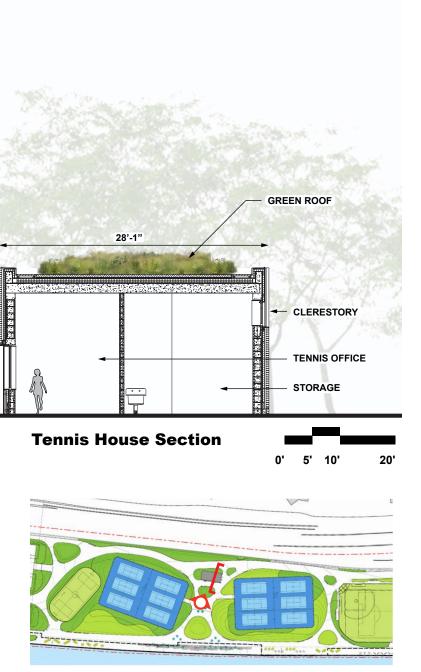
Tennis House Elevation

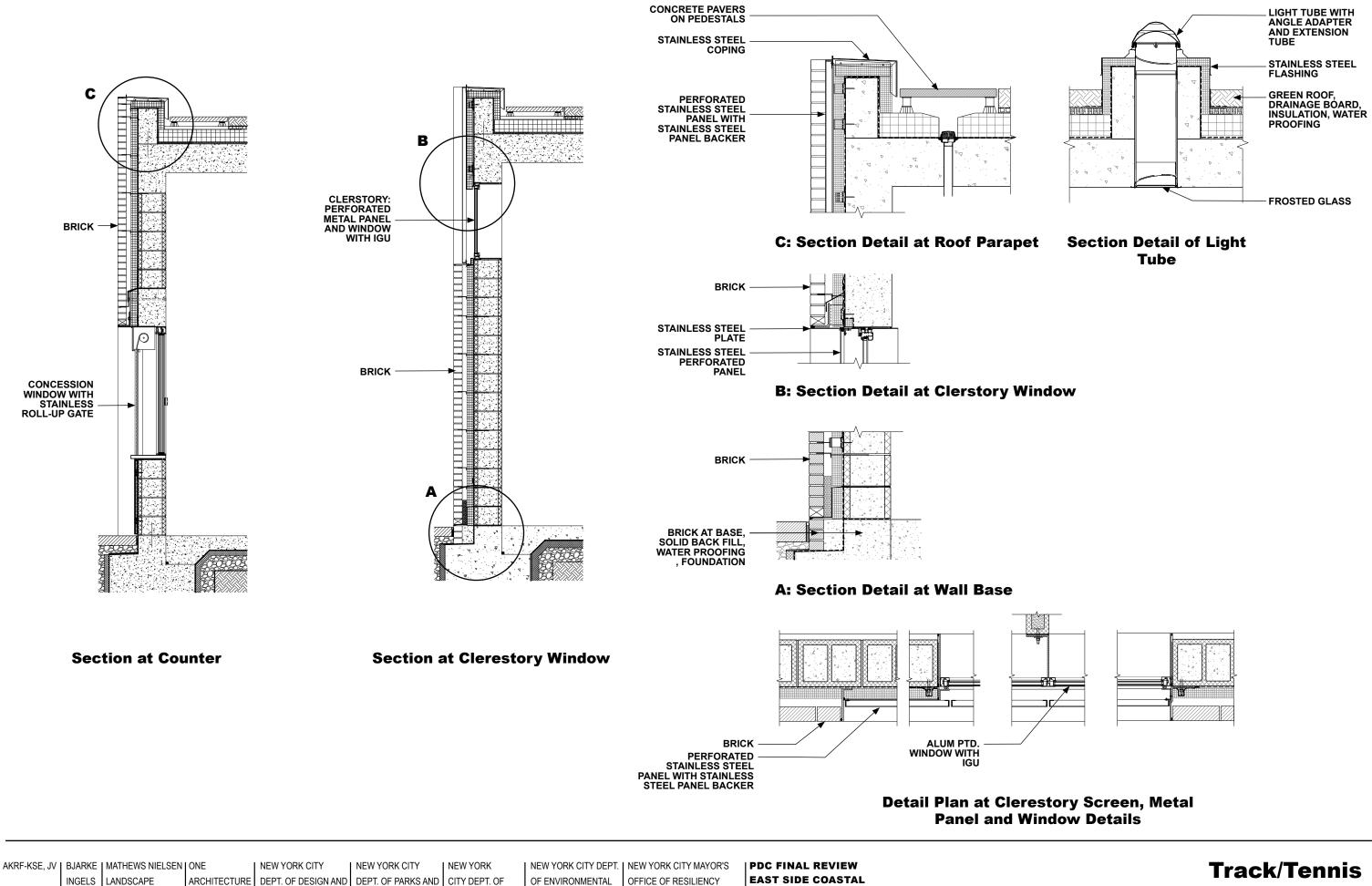
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EAST SIDE COASTAL **RESILIENCY PROJECT**

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Tennis House East Elevation & Section 51





AND URBANISM CONSTRUCTION

RECREATION

GROUP

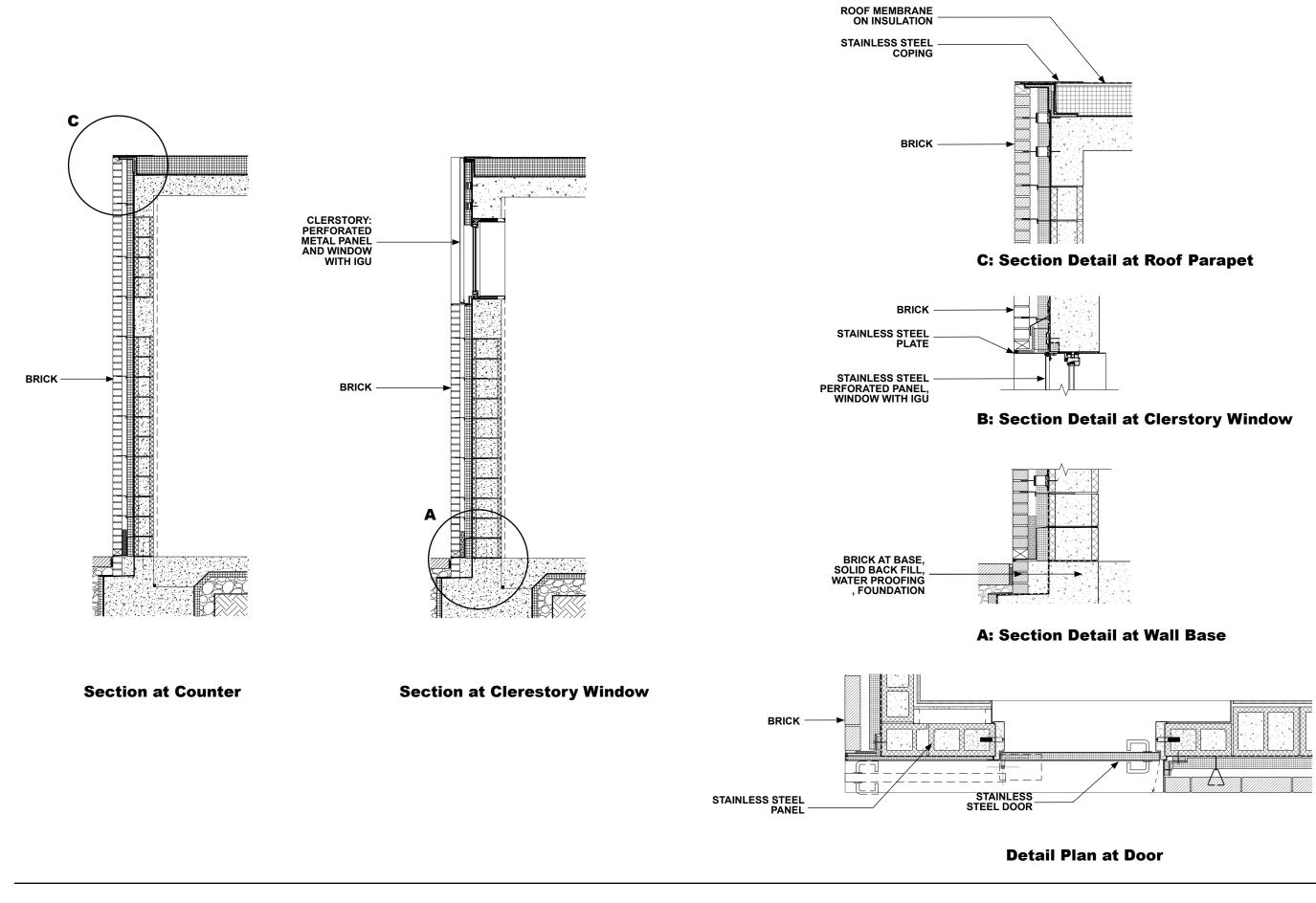
ARCHITECTS, P.C.

TRANSPORTATION PROTECTION

RESILIENCY PROJECT

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Wall Sections & Details 52



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Comfort Station Wall Sections & Details 53



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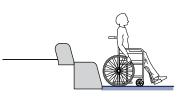
Esplanade Embayment Final Review 54

BACKED SEATING PROVIDED PDC FINAL REVIEW AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S EAST SIDE COASTAL ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION DECEMBER 16, 2019

SECTION B

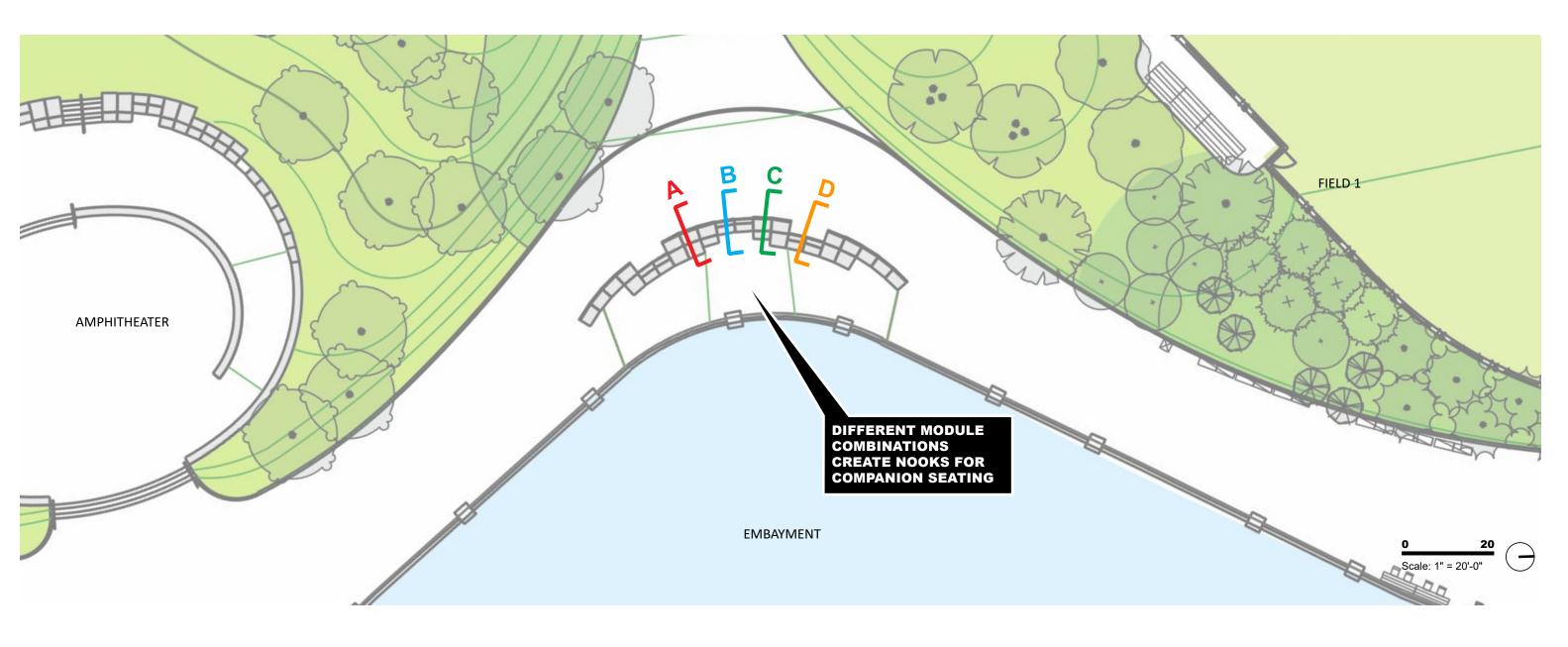








SECTION C



Amphitheater Embayment Seating 55

SECTION D

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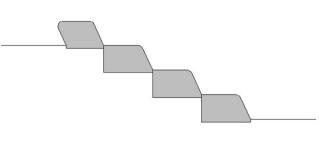
SECTION B

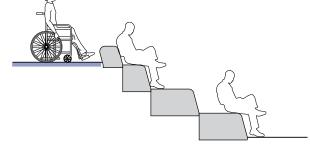
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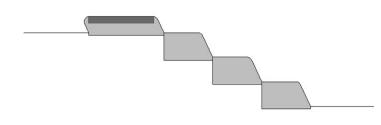
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT**

SECTION C

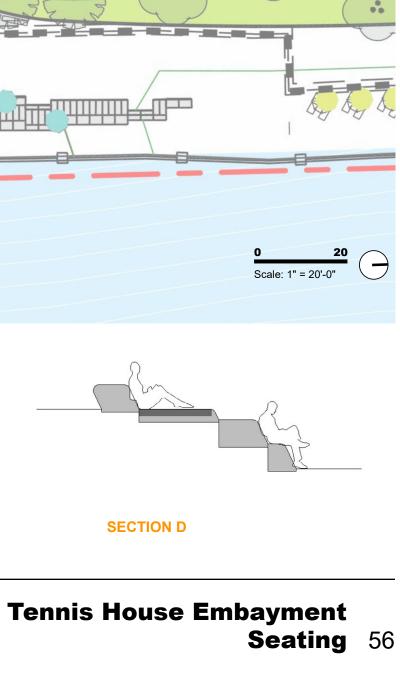
SECTION A











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SECTION B

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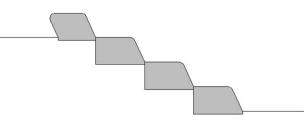
PDC FINAL REVIEW

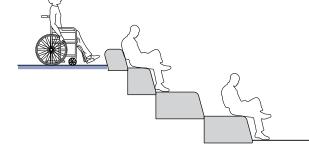
DECEMBER 16, 2019

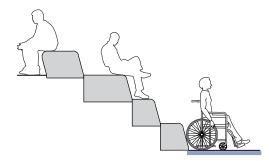
EAST SIDE COASTAL **RESILIENCY PROJECT**

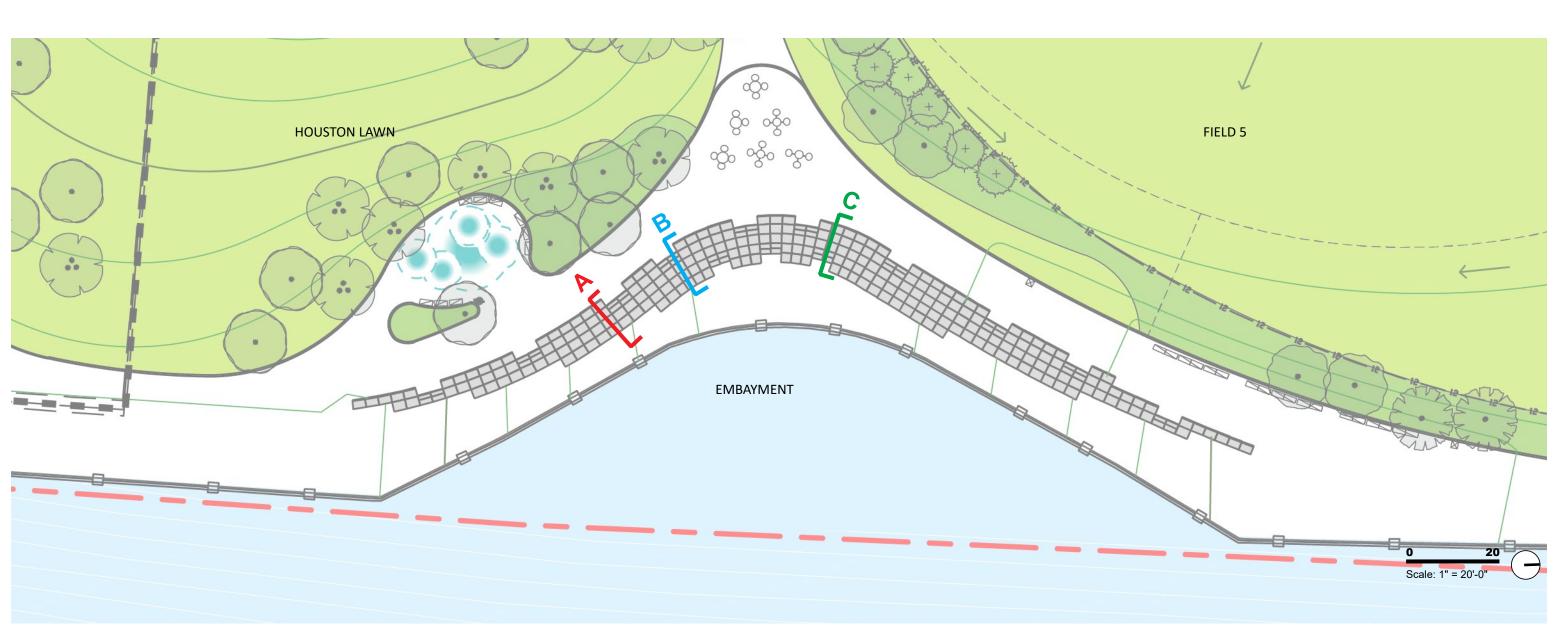
SECTION C

SECTION A









Houston Street Embayment Seating 57

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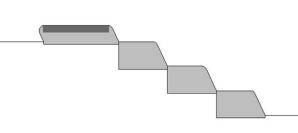
SECTION C

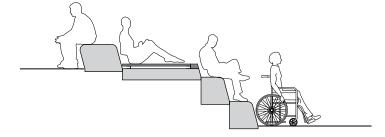
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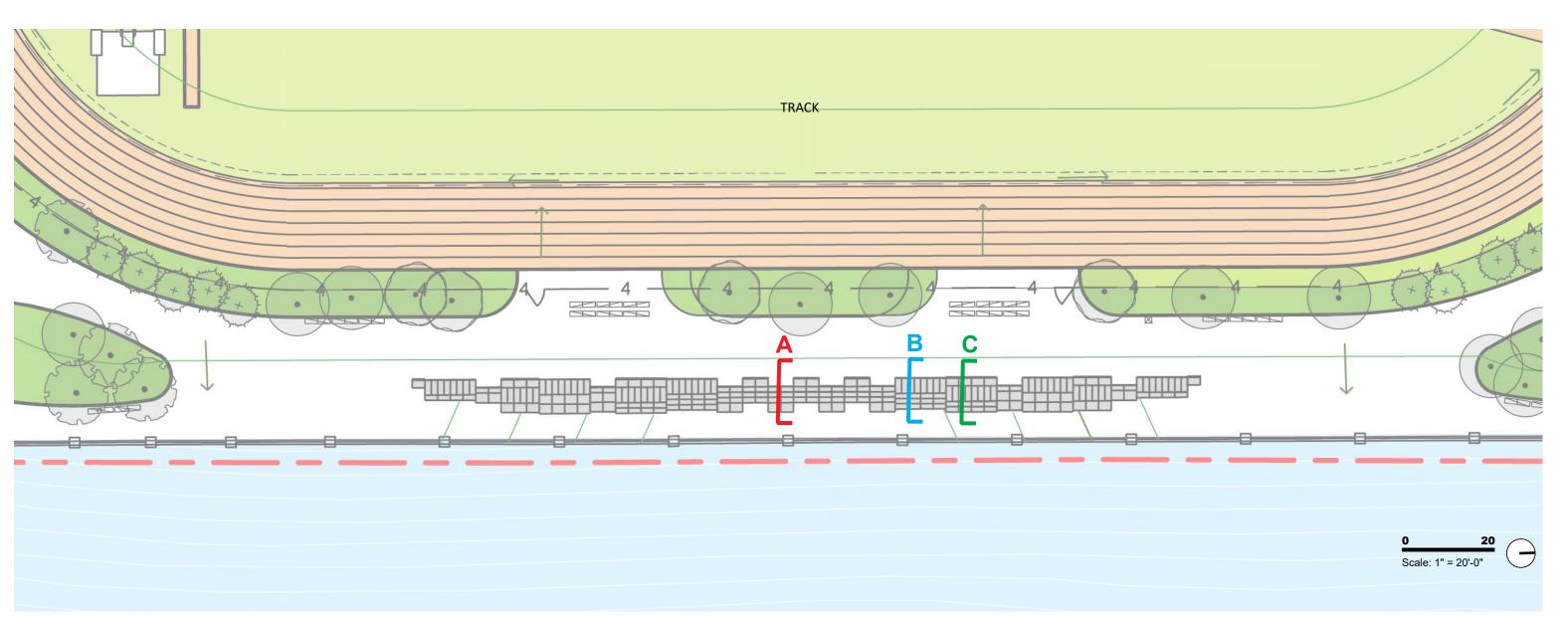
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT**

SECTION D

SECTION B







ESPLANADE SEATWALLS

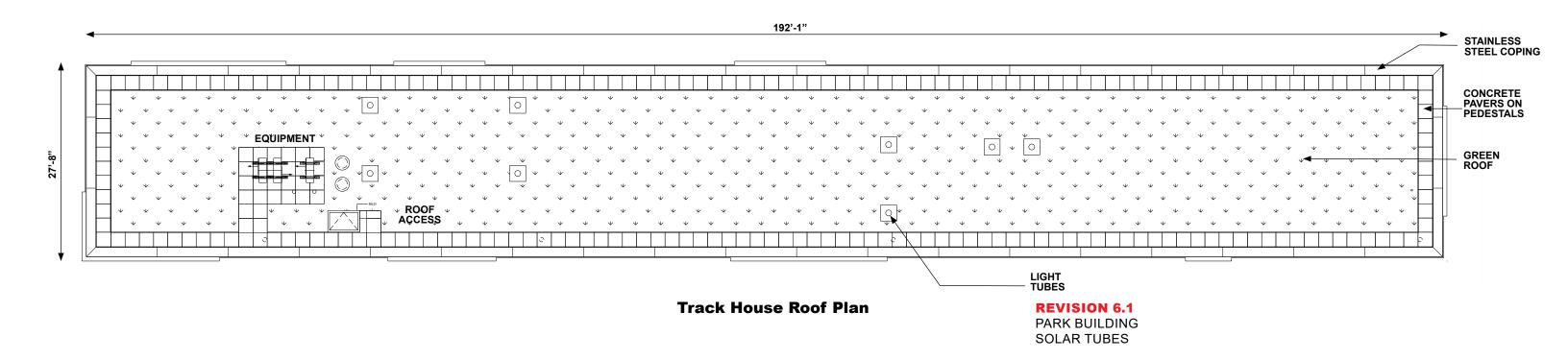
Track Step Down Seating 58

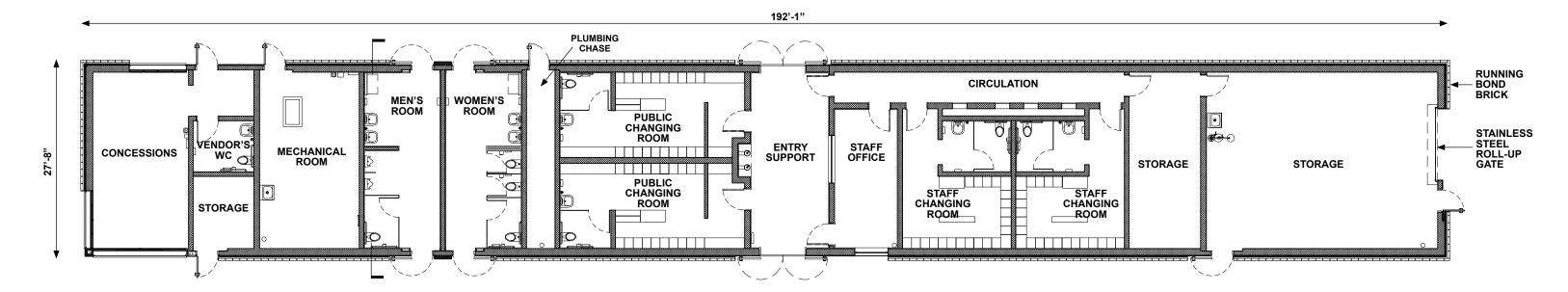
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Reaches H-J Final Review 59





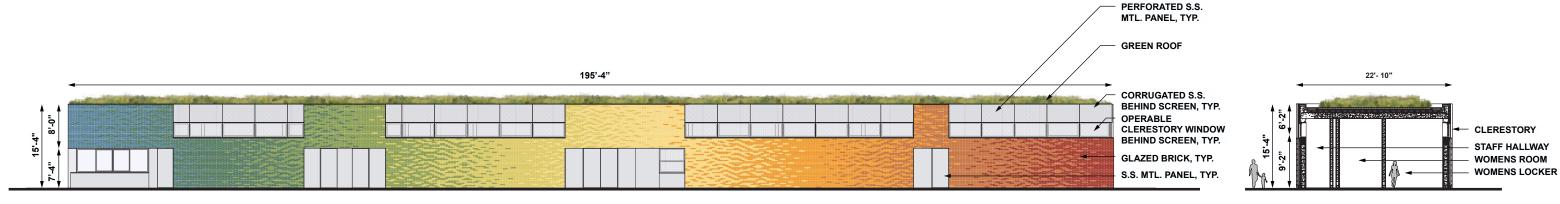
Track House Floor Plan

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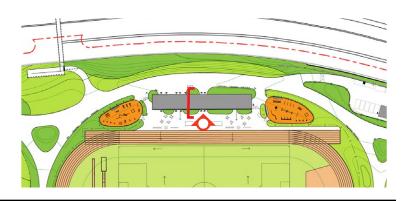
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Track House East Elevation & Section 61







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RECREATION

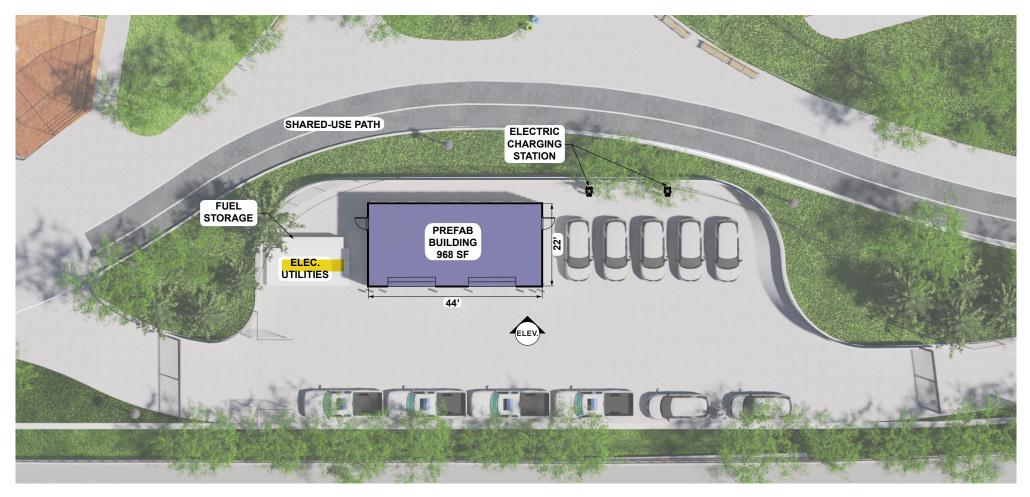
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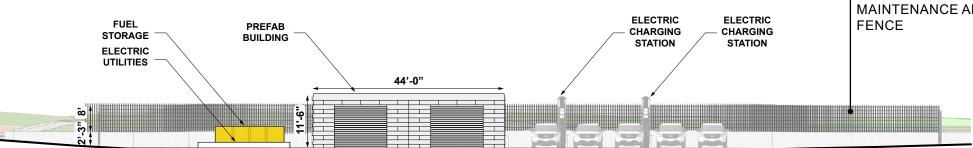
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Track House Park View 62



Track Maintenance Area Plan



Track Maintenance Area Elevation

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REVISION 9.2 MAINTENANCE AREA

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10th Street BridgeExisting Condition64

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10th Street Bridge FDR View 65

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10th Street Bridge **Aerial View** 66

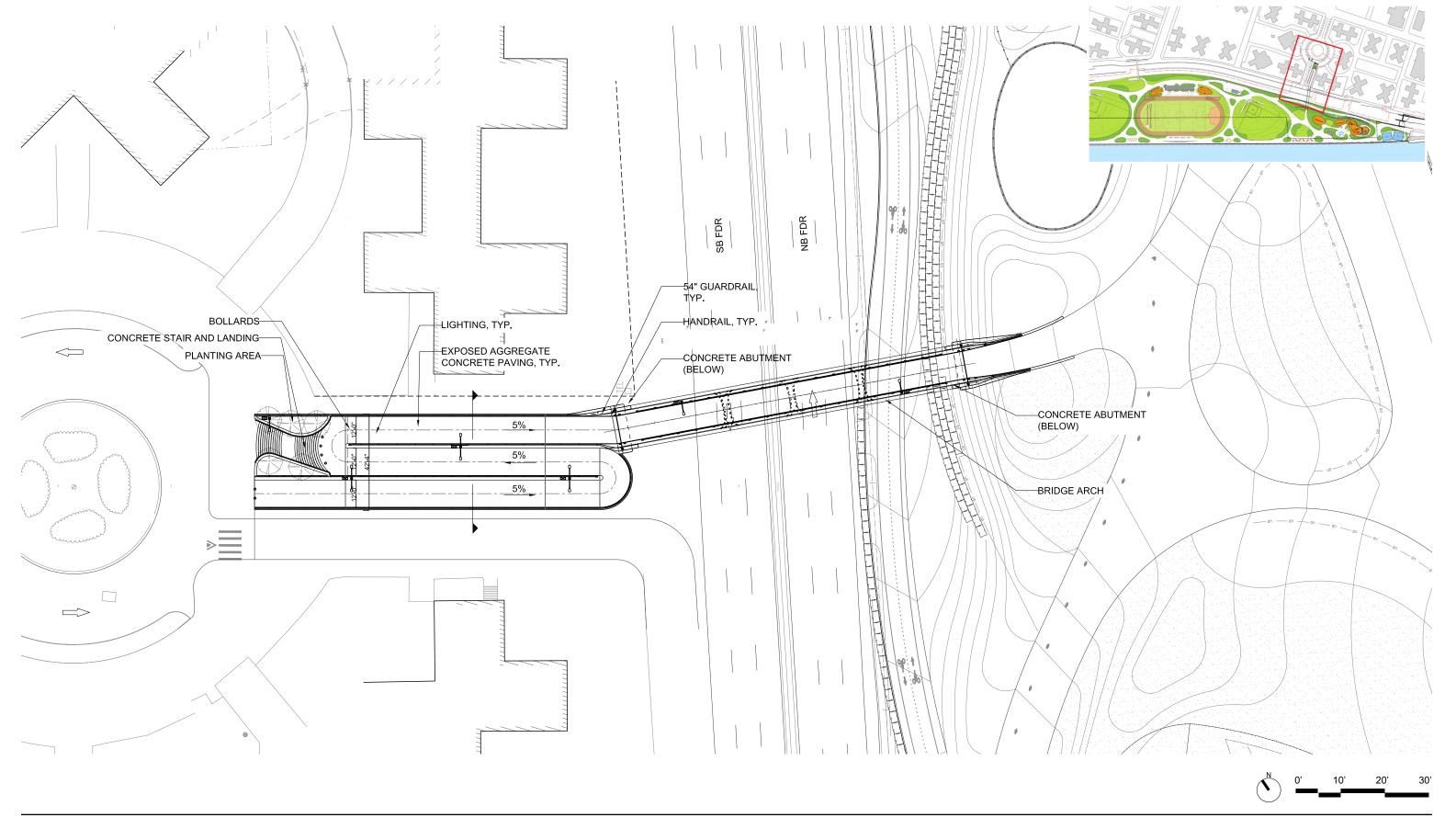
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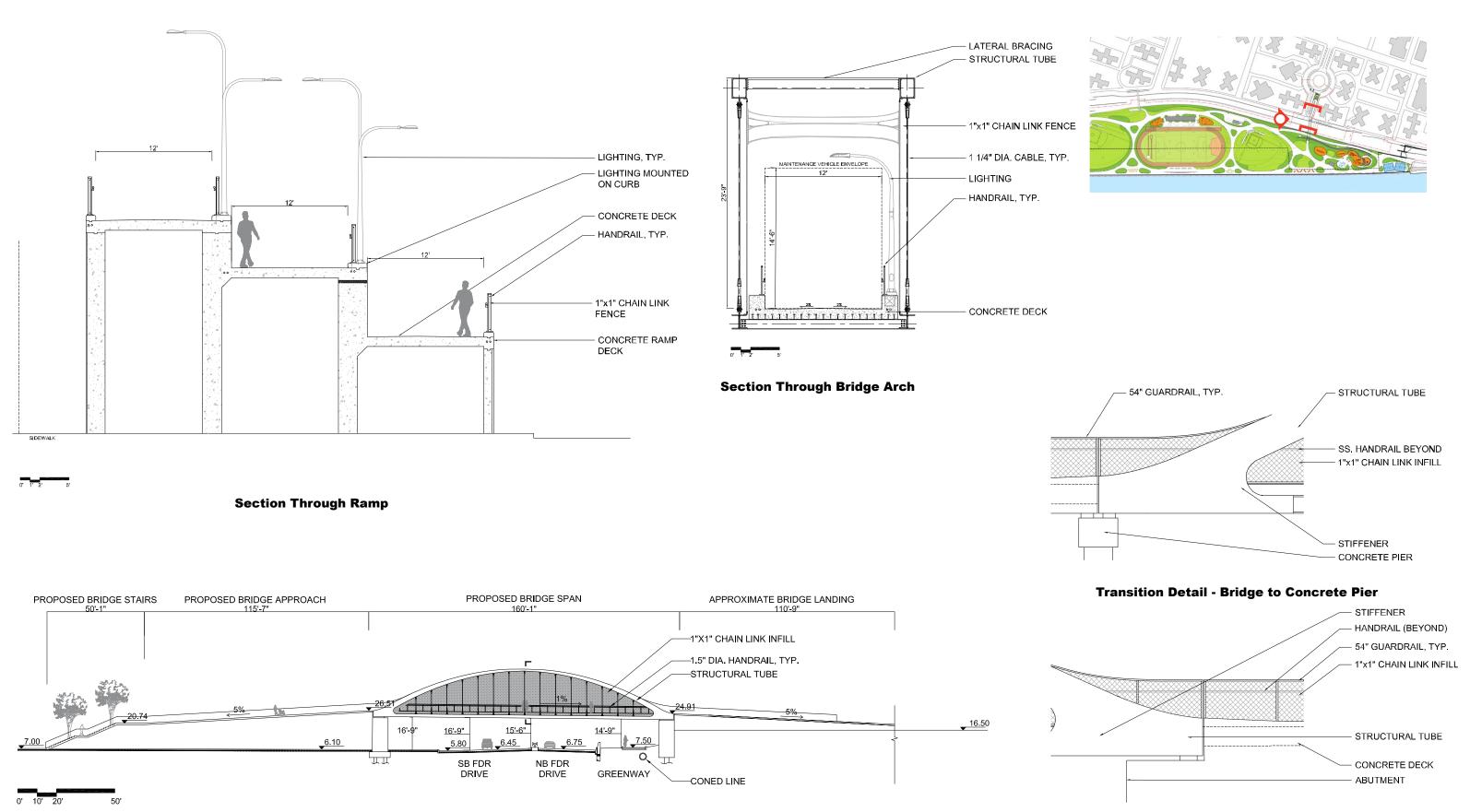
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10th Street Bridge Enlargement Plan 67



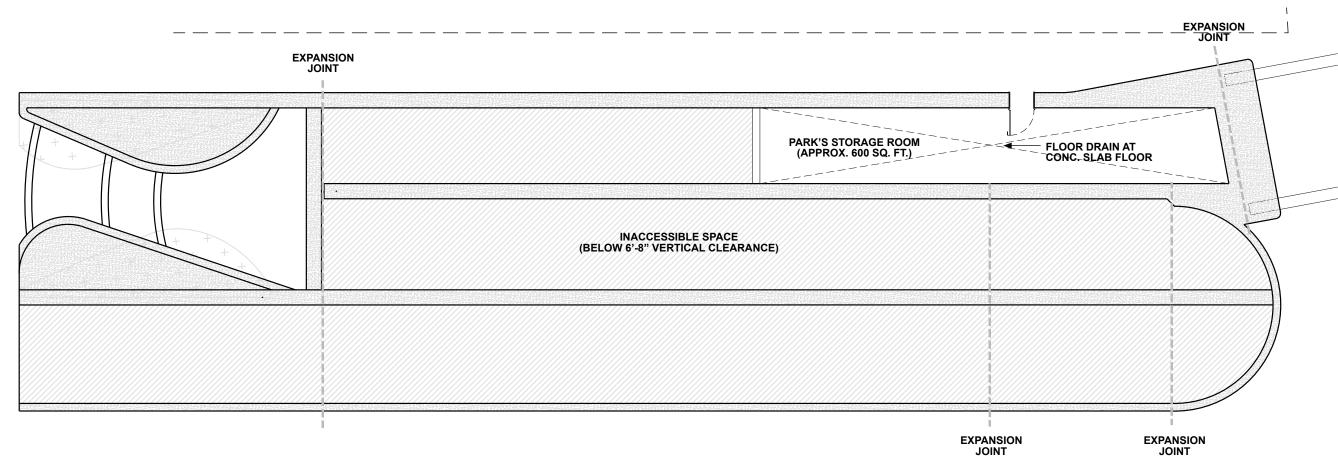
Bridge Elevation

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10th Street Bridge Section and Elevation 68





Enlarged Plan Through Ramp

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10th Street Bridge Section and Elevation 69

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10th Street Bridge **Approach View** 70

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10th Street Bridge Bridge View 71

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10th Street Bridge Park View 72

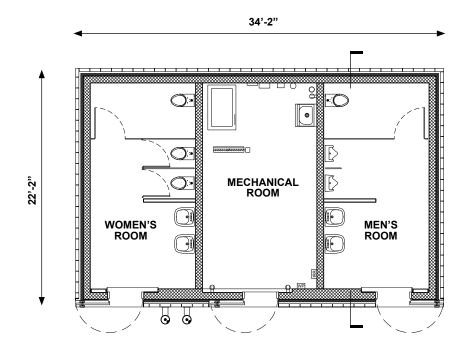
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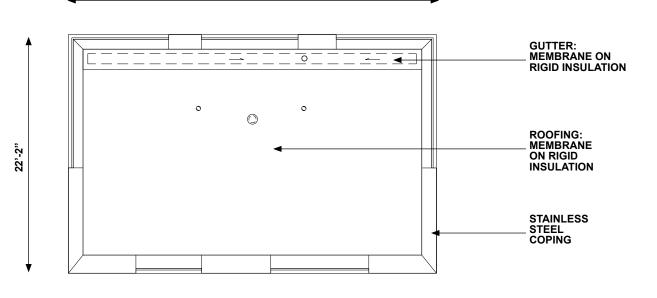




10th Street Comfort Station Final Review 73







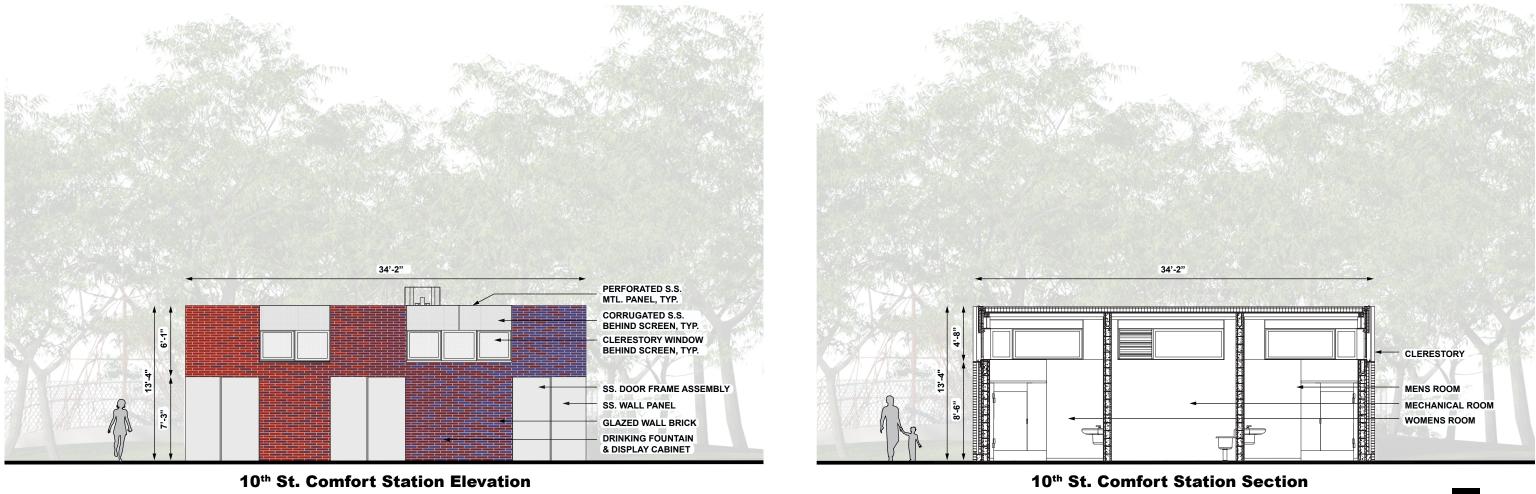
34'-2"

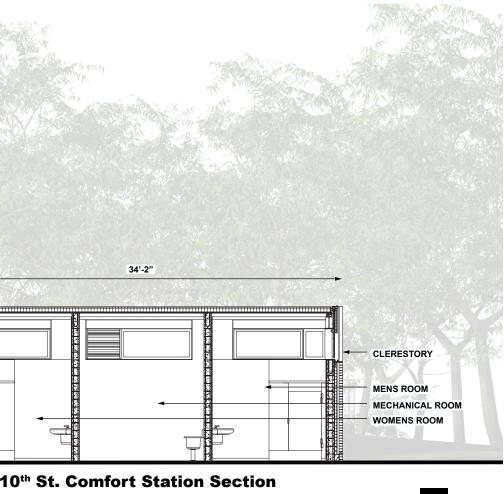
10th St. Comfort Station Roof Plan

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10th St. Comfort Station Floor Plan / Roof Plan 74





10th St. Comfort Station North Elevation 75

20'

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E. 13th St. Floodwall Aerial View 76

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REVISION 10.1 COURT COLORS BRIDGE SUPERSTRUCTURE CURRENTLY UNDER DEVELOPMENT

E. 13th St. Floodwall **Future Flyover Aerial View** 77



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1. SITE DESIGN: PROJECT AREA 1 (PA1)

2. SITE DESIGN: PROJECT AREA 2 (PA2)

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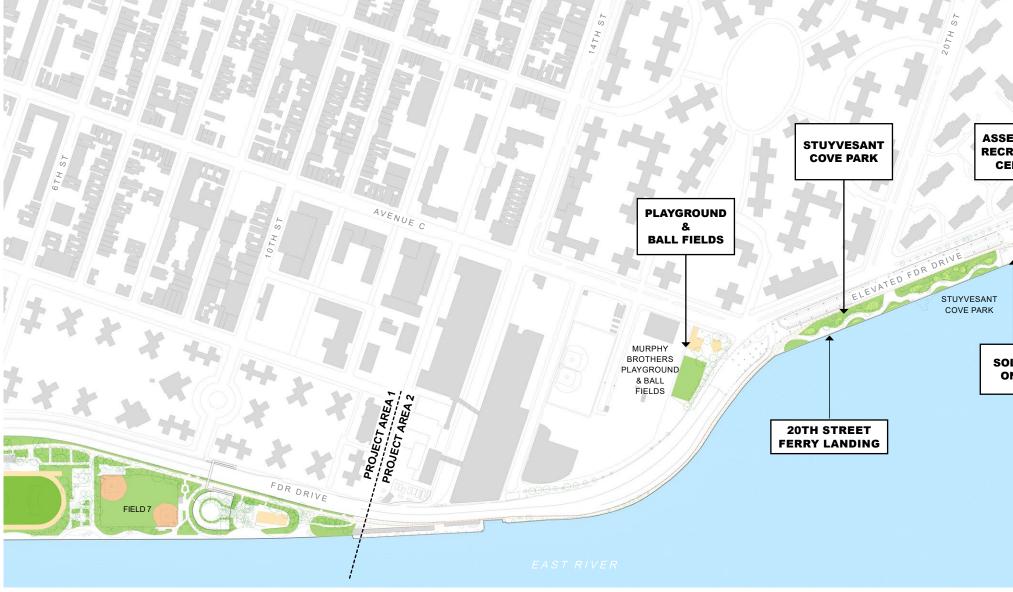
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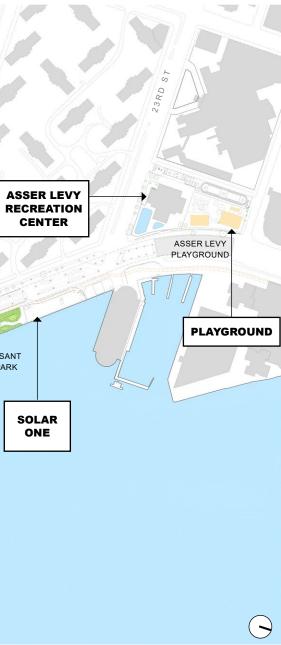
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Site Design Existing Conditions 79

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Site Design Final Review 80



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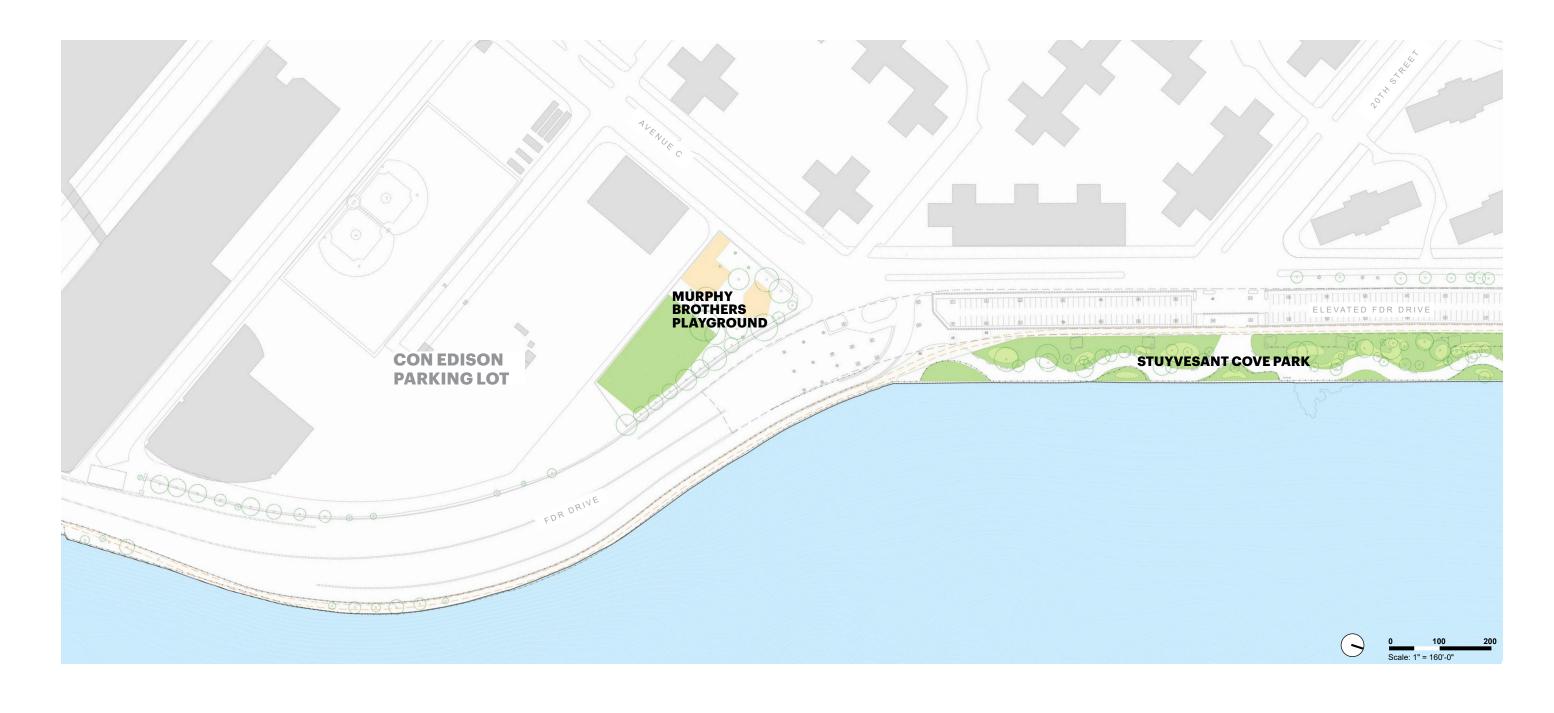
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Reaches L-N Aerial View 81





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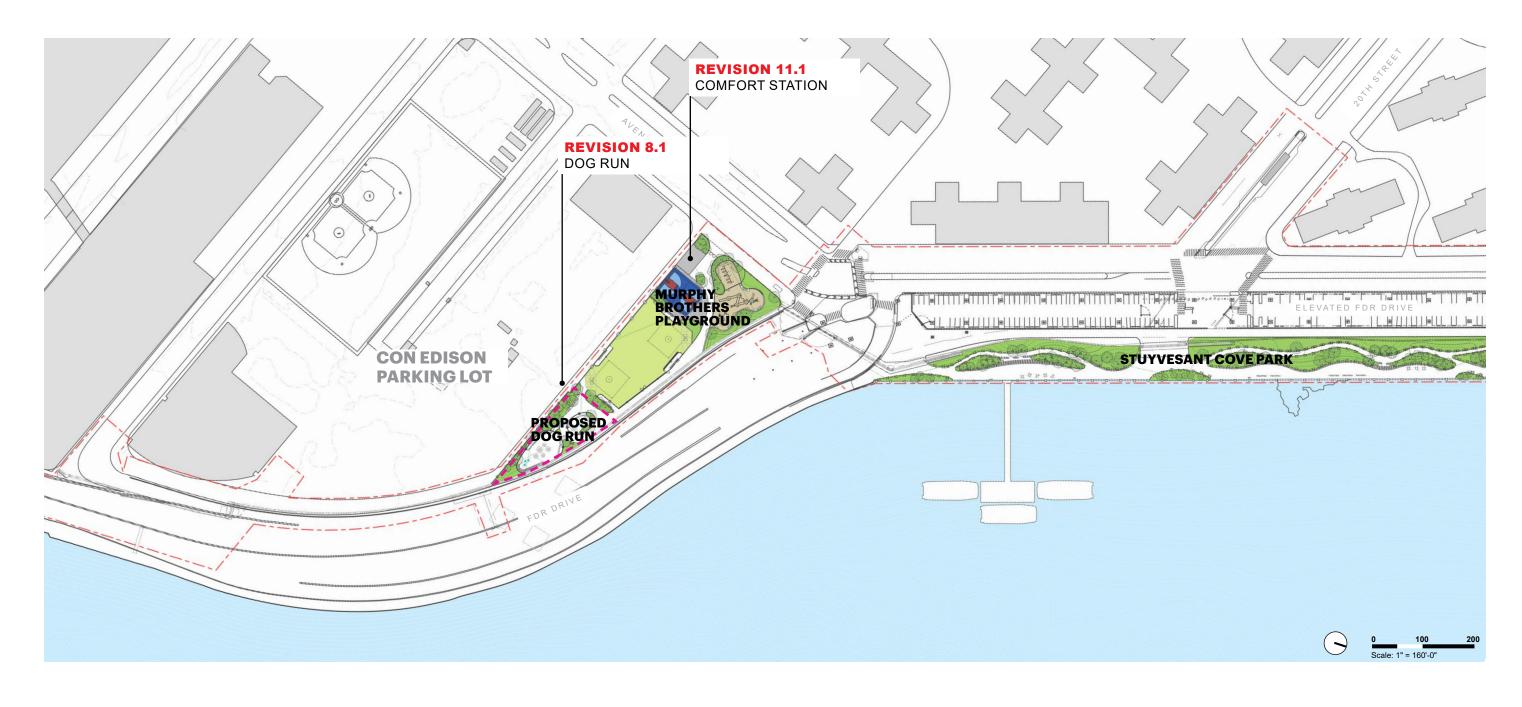
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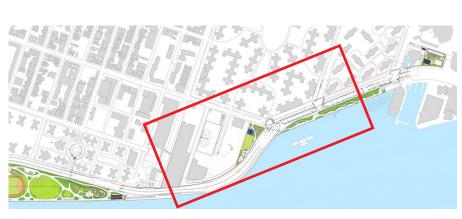
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Murphy Brothers Playground Dog Run Existing Condition 82

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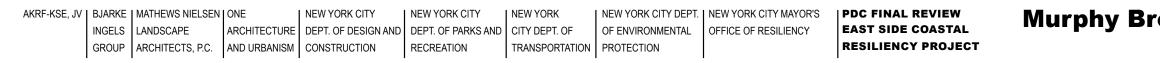
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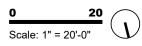
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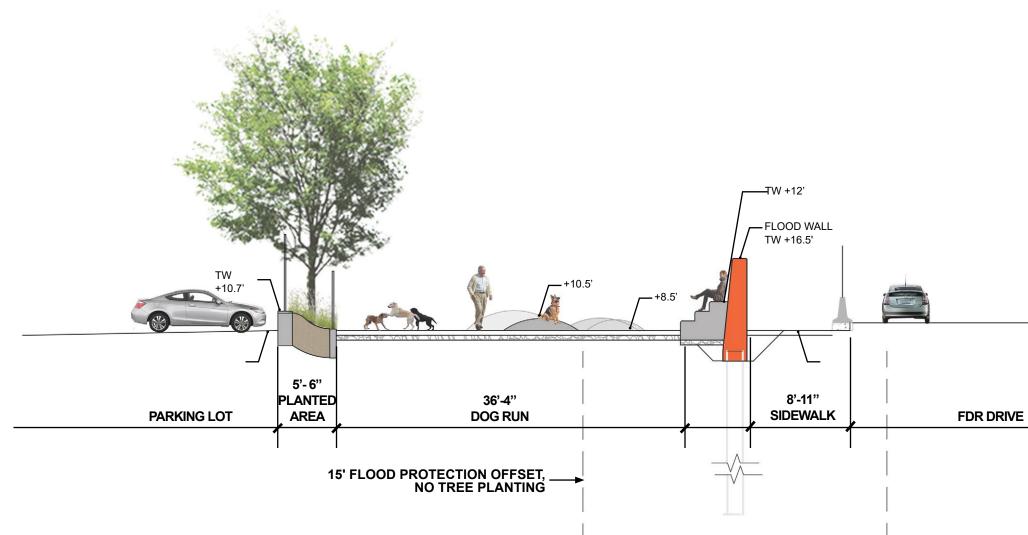
Murphy Brothers Playground Dog Run Proposed Plan 83





Murphy Brothers Playground Dog Run Plan 84

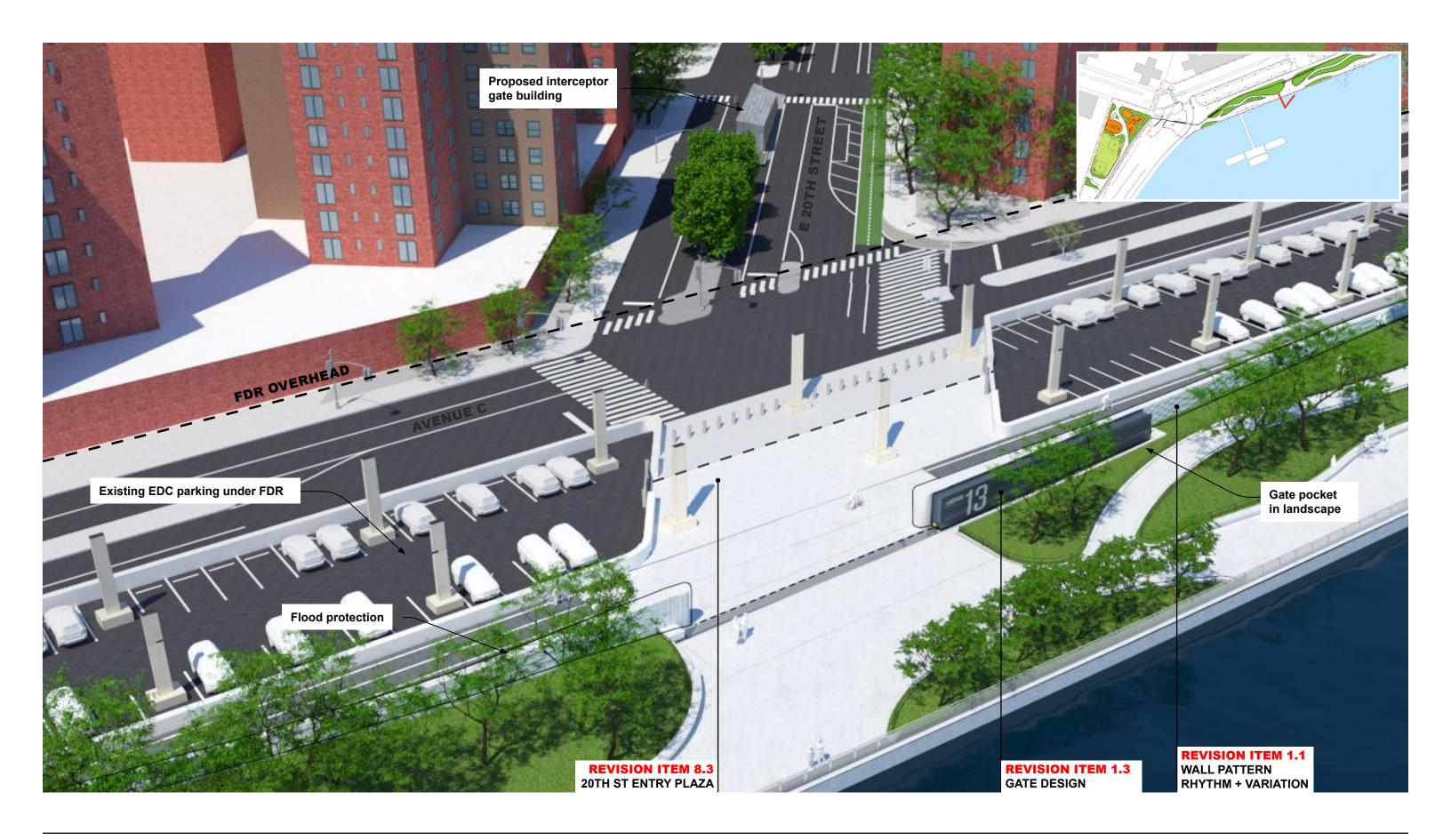




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Murphy Brothers Playground Dog Run Section 85



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Site Design: PA2 20th Street Aerial 86

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20th Street Entry Final Review 87

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Stuy. Cove Bike Lane Final Review 88

DEPERMBER 16620099

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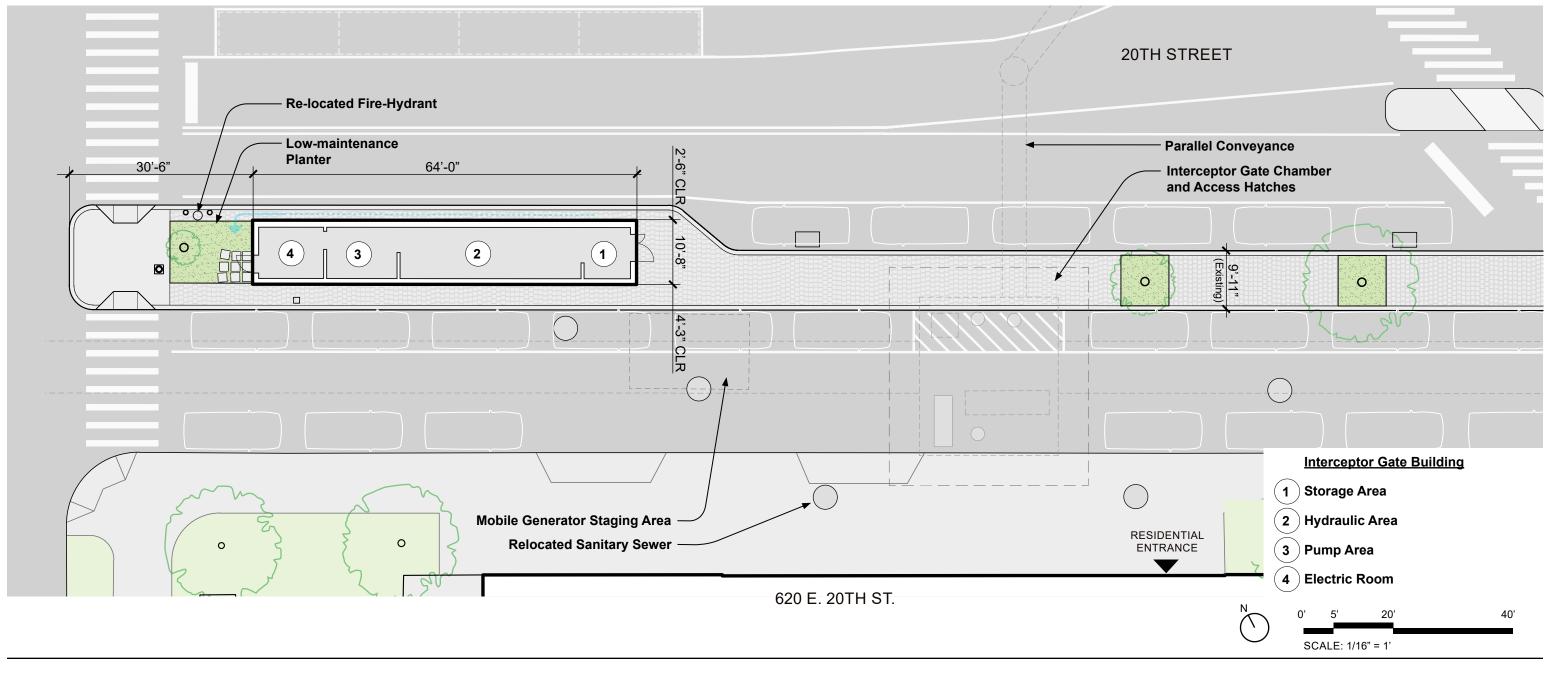
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REVISION 2.1 SECURITY MEASURES

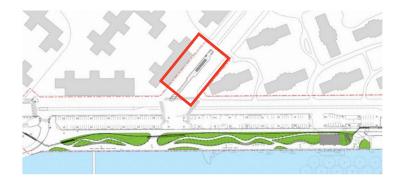


20th Street Entry Plaza Final Review 89

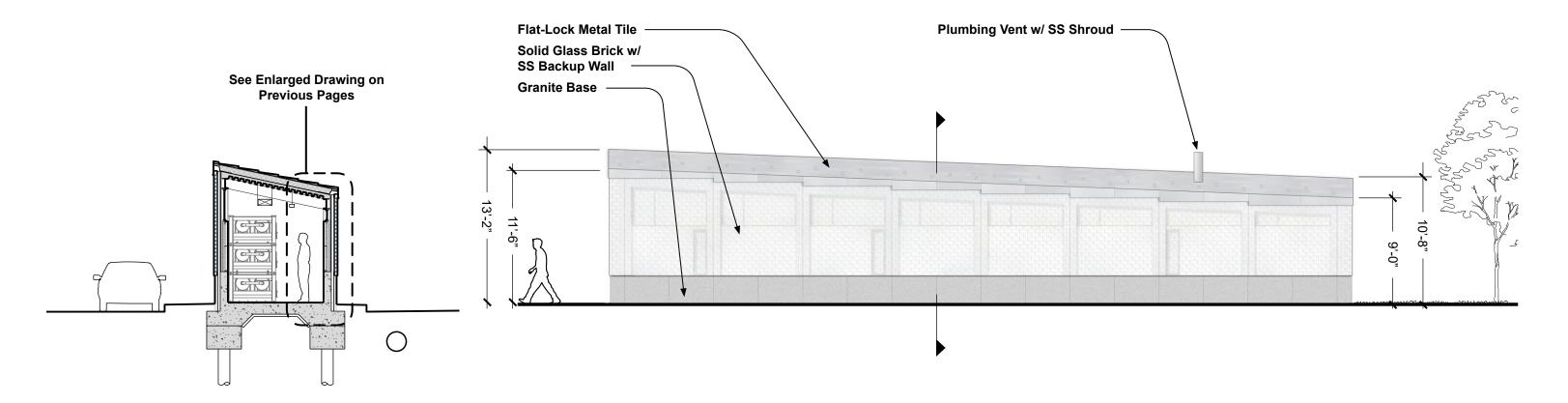


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North Gate Building Site Plan 90

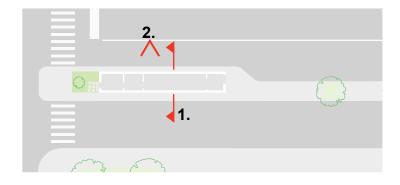


1. CROSS SECTION

2. NORTH ELEVATION

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North Gate Building View From Northwest 92

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1. SITE DESIGN: PROJECT AREA 1 (PA1)

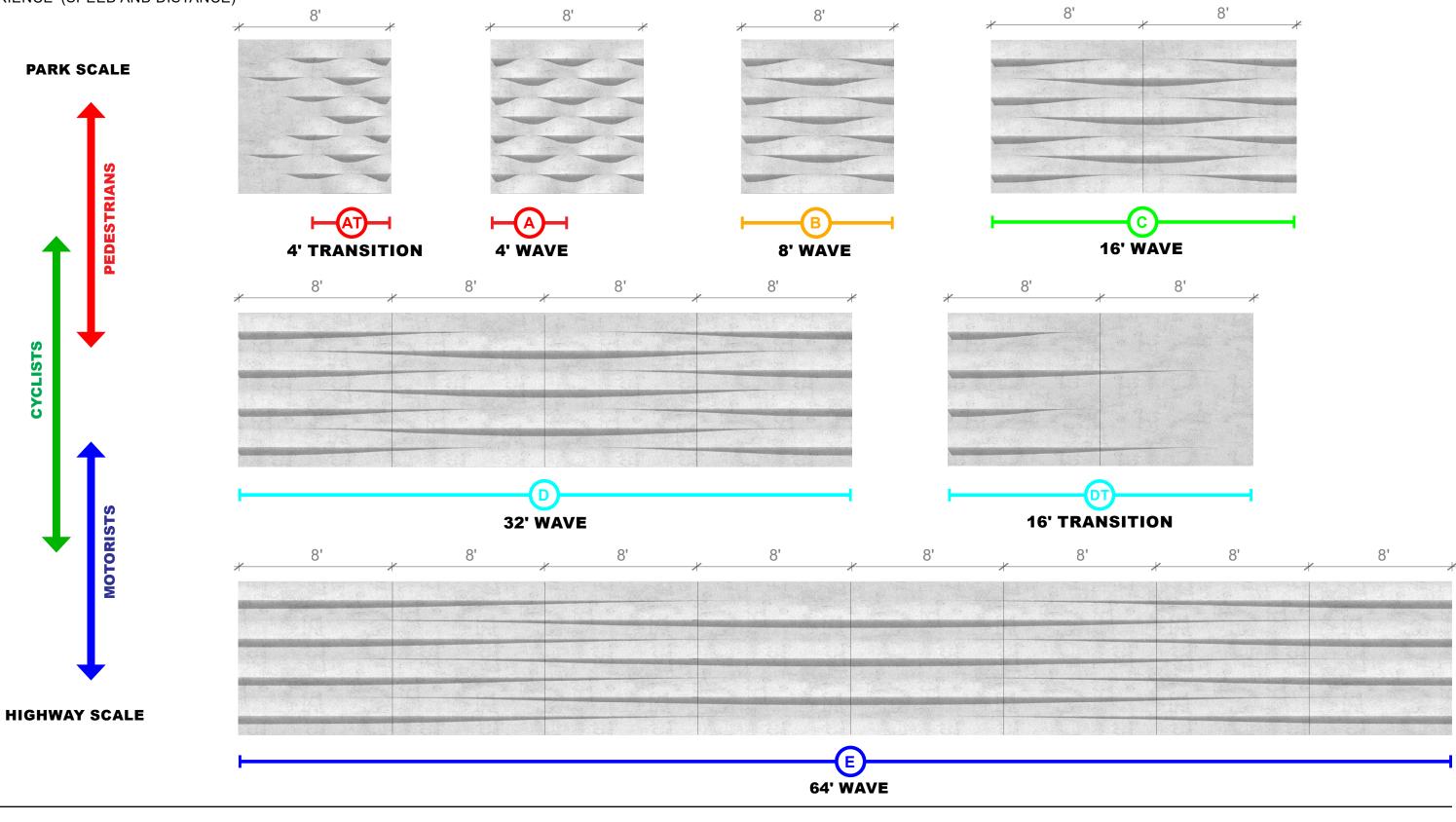
2. SITE DESIGN: PROJECT AREA 2 (PA2)

3. SITE ELEMENTS

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WALL MODULE TOOLKIT: THE WAVE PATTERN'S SCALE RESPONDS TO CONTEXT AND EXPERIENCE (SPEED AND DISTANCE)

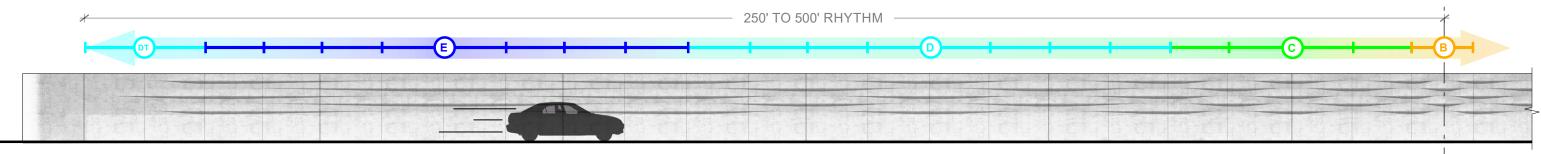
Flood and Highway Walls Scale Toolkit 94

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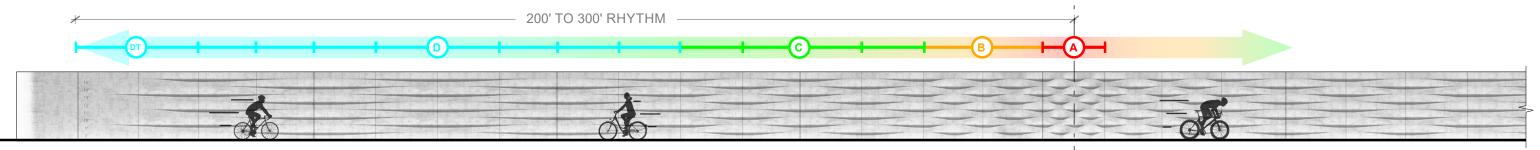
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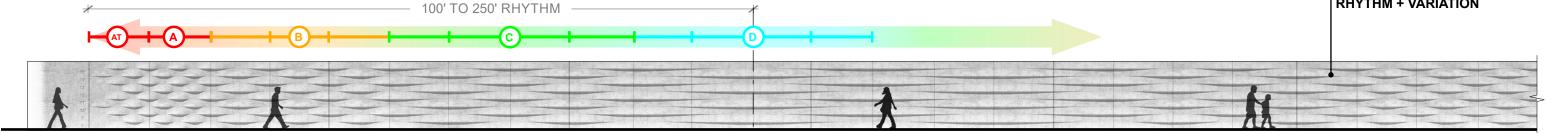
HIGHWAY RHYTHM: $(E) \leftrightarrow (B) \leftrightarrow (E)$



BIKE PATH RHYTHM: $\bigcirc \leftrightarrow \bigcirc \leftrightarrow \bigcirc$



PEDESTRIAN RHYTHM: $(A) \leftrightarrow (D) \leftrightarrow (A)$

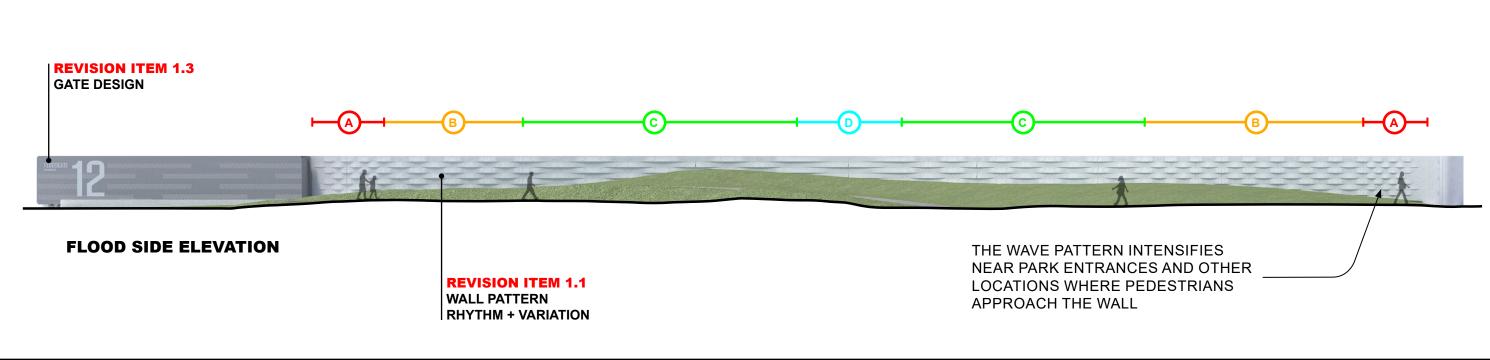


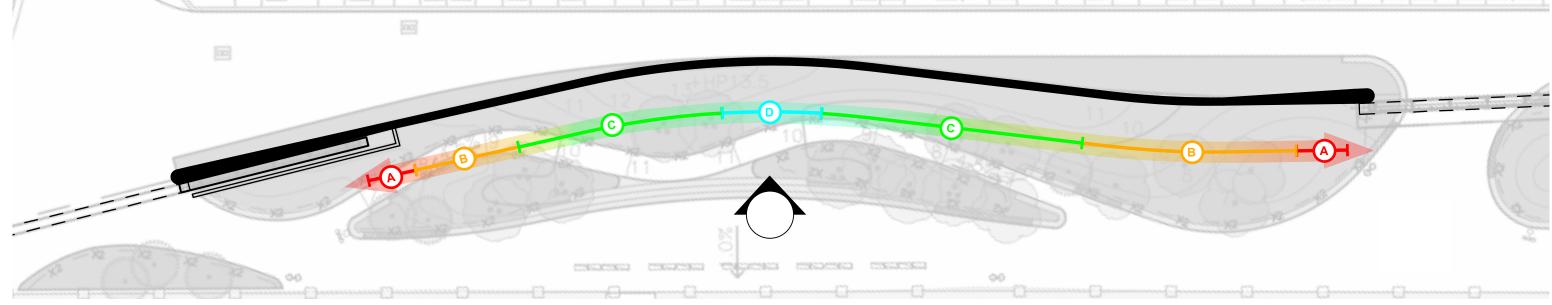
INDIVIDUAL PANELS ARE ARRAYED TO REINFORCE USER EXPERIENCE, ACCELERATING AND DECELERATING THE PATTERN

REVISION ITEM 1.1 WALL PATTERN RHYTHM + VARIATION

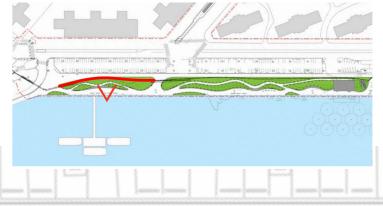
Flood and Highway Walls Rhythm Toolkit 95

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Flood and Highway Walls Pedestrian Rhythm Example 96



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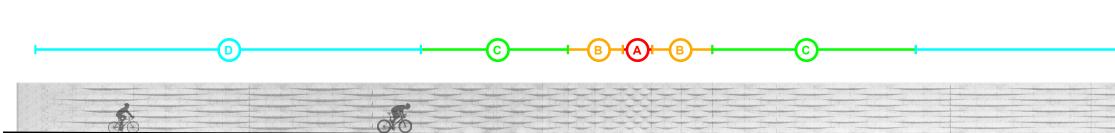
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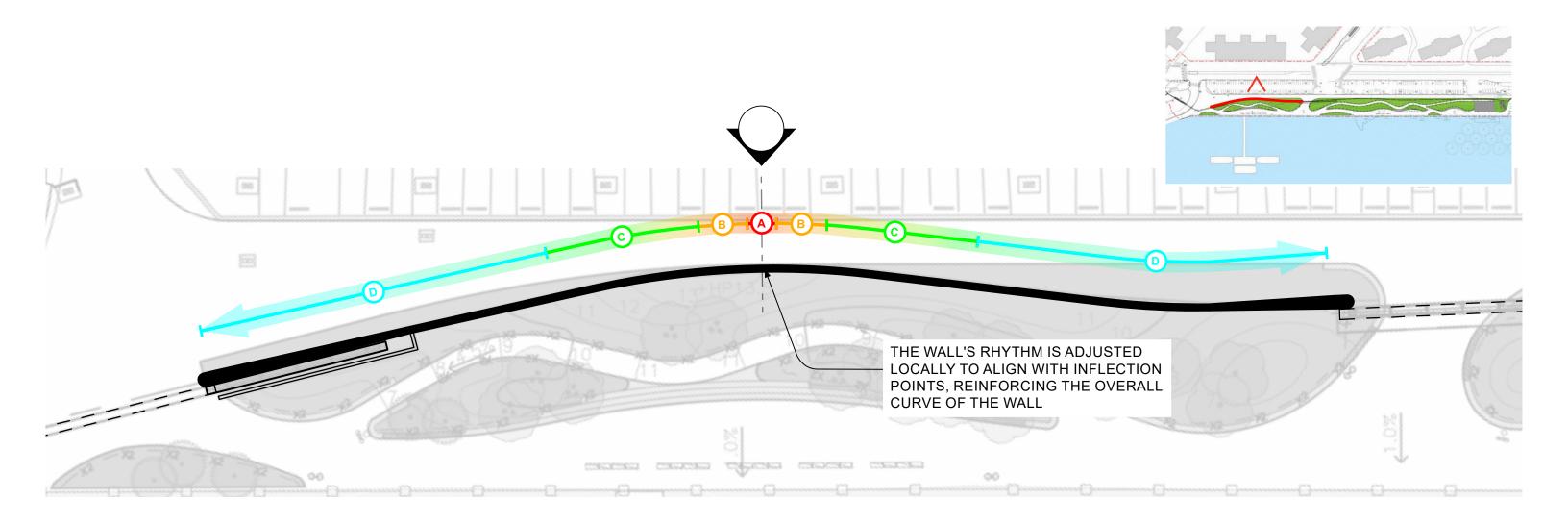
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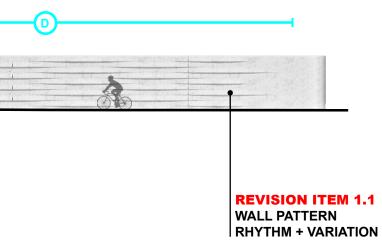
Flood and Highway Walls Pedestrian Rhythm Example 97

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PROTECTED SIDE ELEVATION







Flood and Highway Walls Bike Path Rhythm Example 98

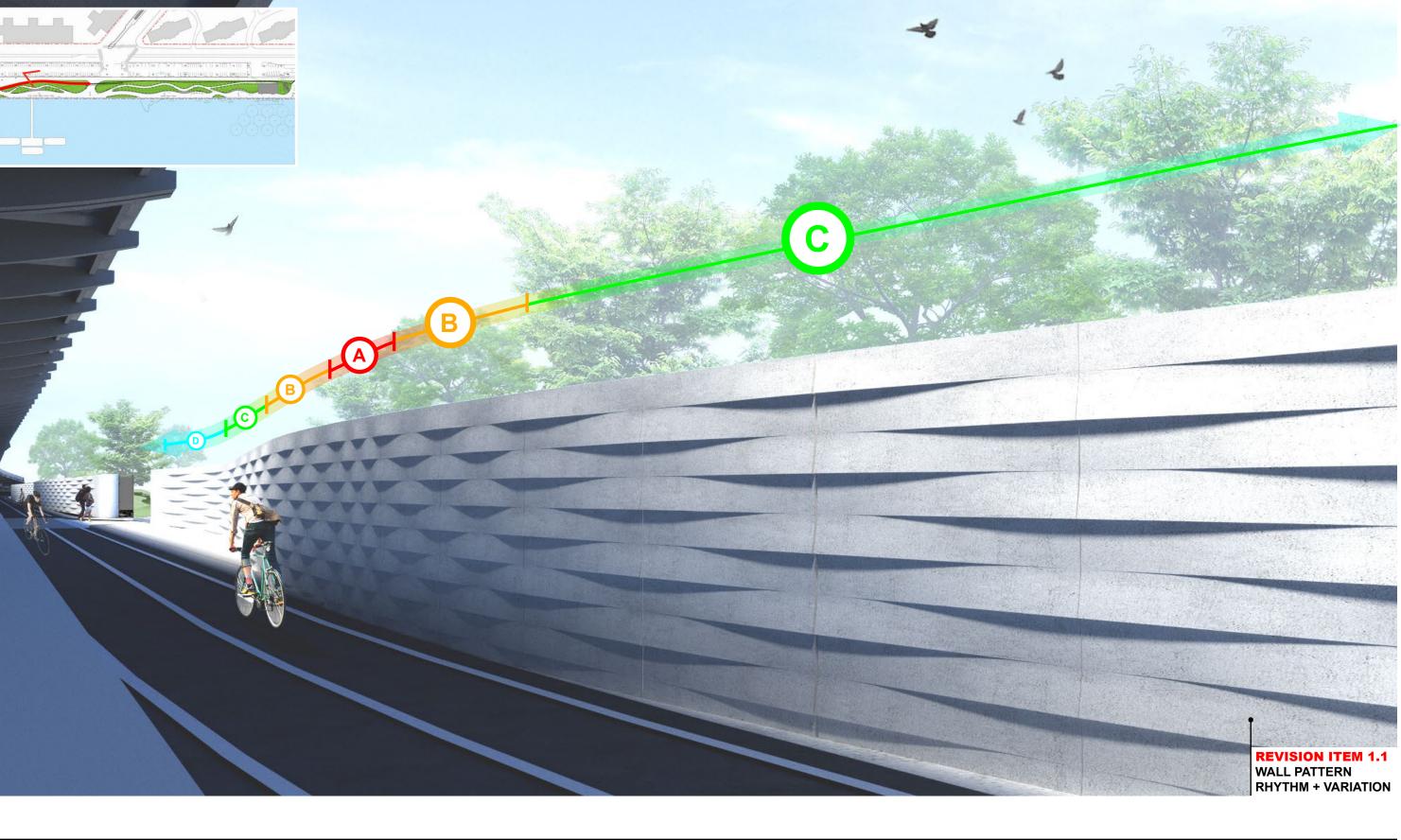
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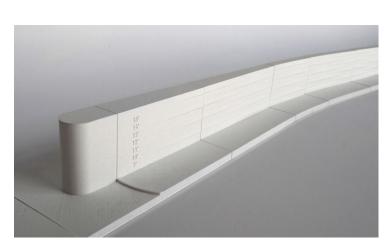


Flood and Highway Walls Bike Path Rhythm Example 99

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DETAIL 1





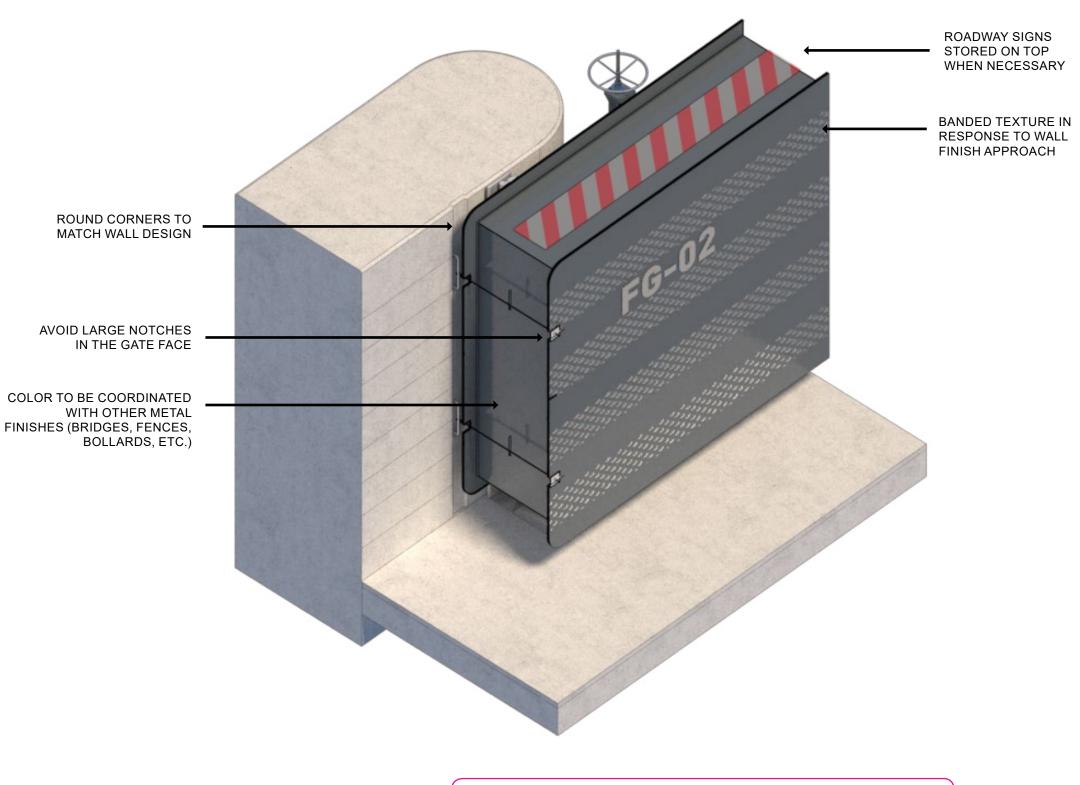
E 20TH STREET WALL SEGMENT - FLOOD SIDE







Model Photographs Final Review 100



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Flood Protection Gate Design 101

TEXT + LABELING GW GREY PAINT (ASSER LEVY)



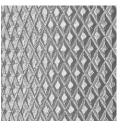
TEXT + LABELING MUNSEL GREY PAINT (TYP)



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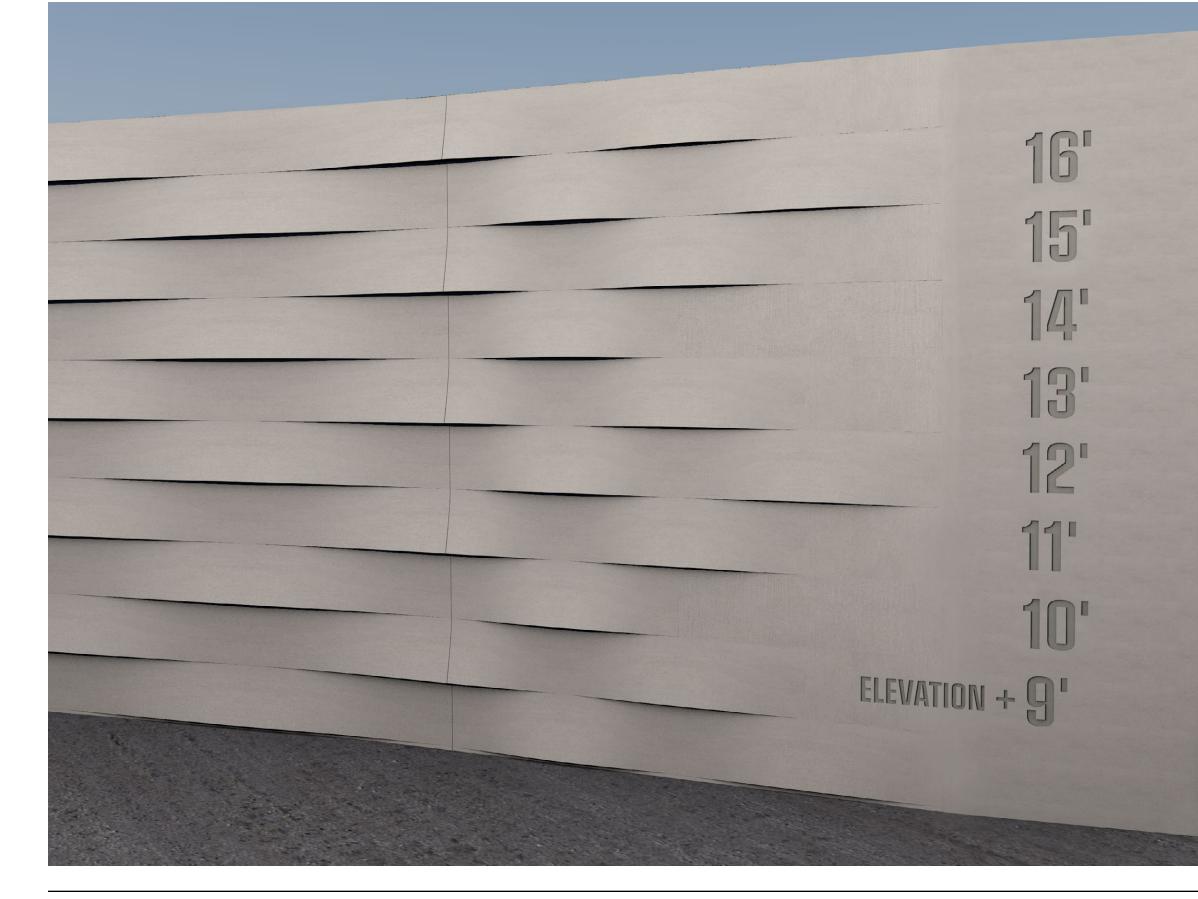
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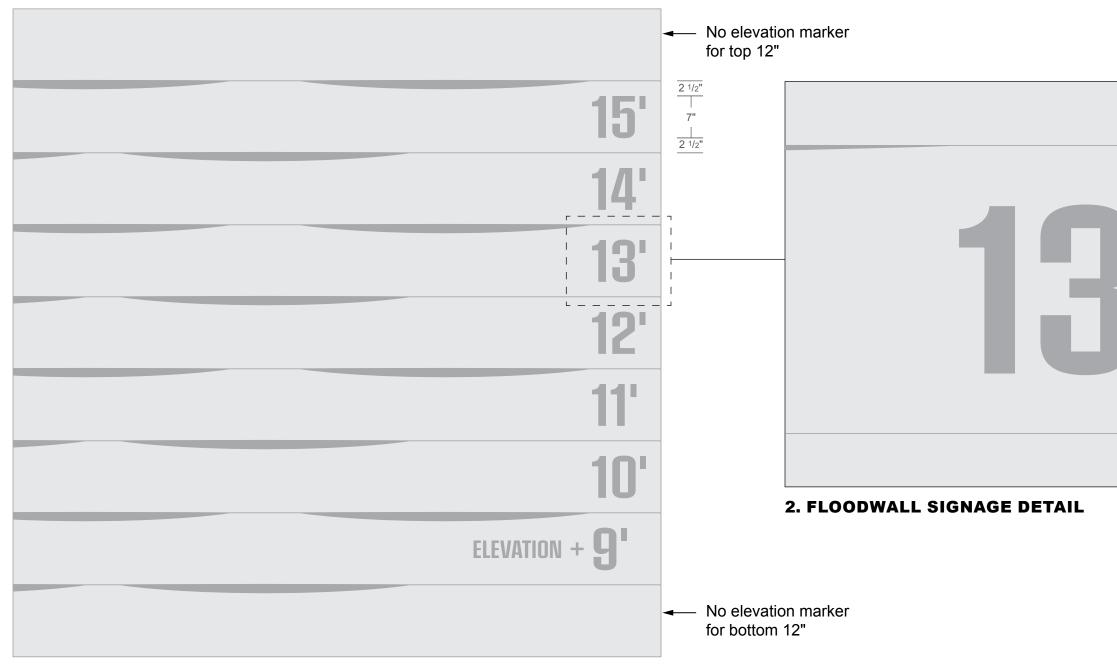
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Flood Wall Signage

110





1. FLOODWALL SIGNAGE TYP. ELEVATION

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3. FLOODWALL SIGNAGE DETAIL - SECTION

Flood Wall Signage



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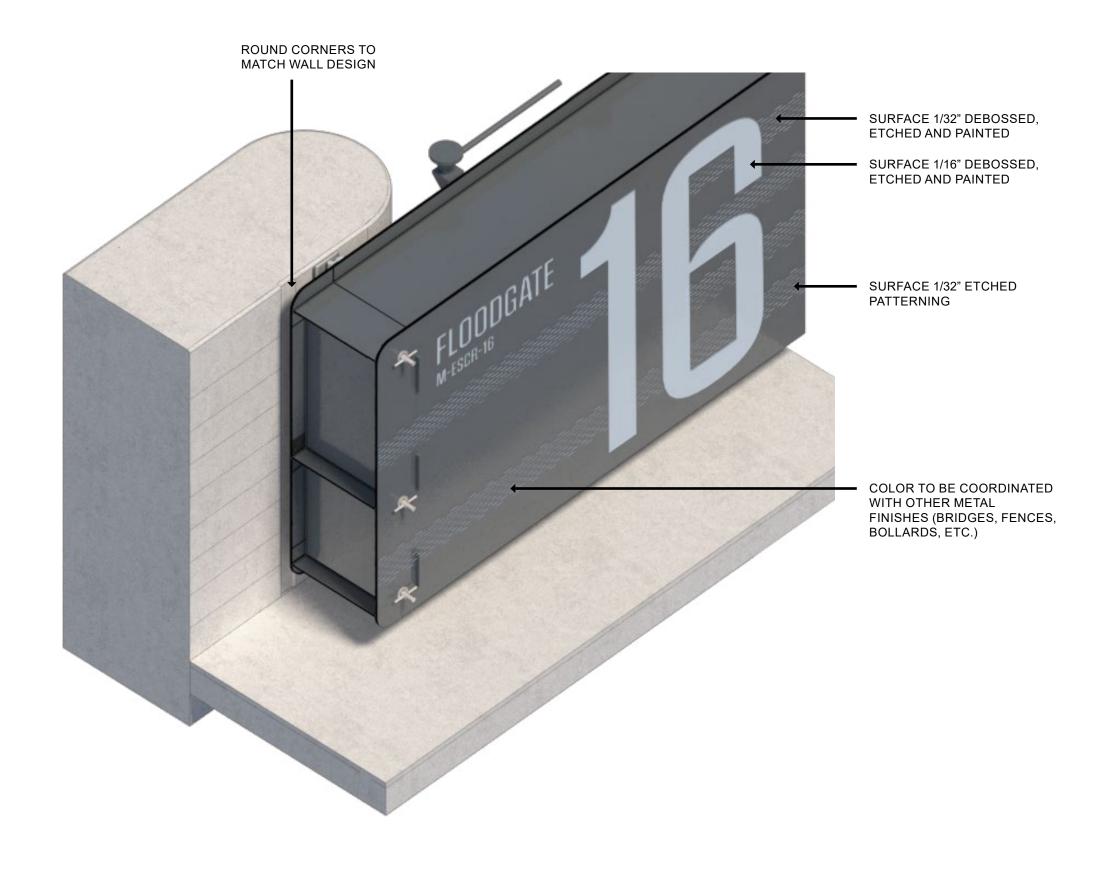
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Flood Protection Gate Signage 112



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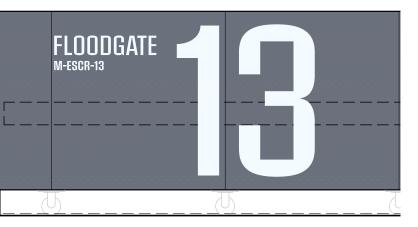
Flood Protection Gate Signage 113



TEXT + LABELING MUNSEL GREY PAINT (TYP)

FLOODGATE

M-ESCR-18

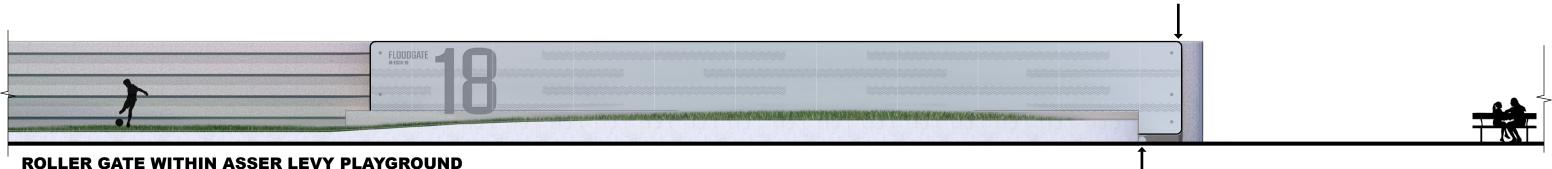


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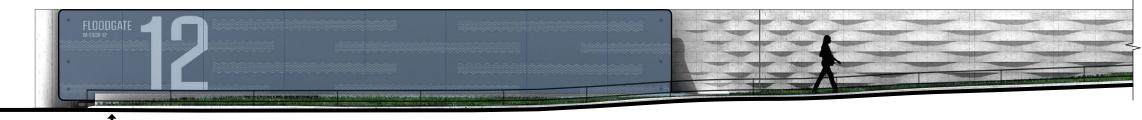


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ROLLER GATE WITHIN ASSER LEVY PLAYGROUND







TYPICAL SWING GATE (PIER 42)



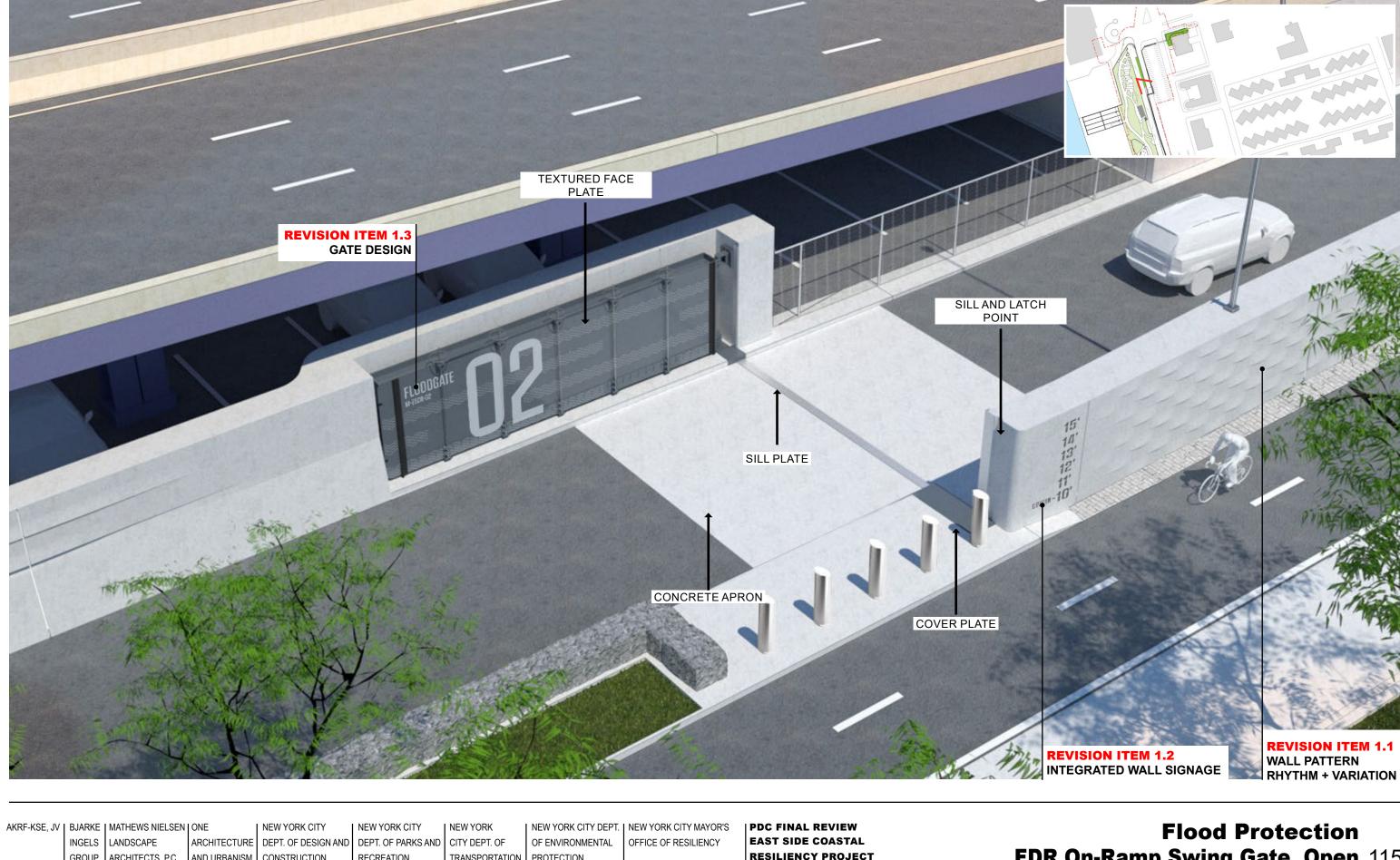
RETAINING WALL GATE POCKET

Flood Protection Typical Gate Elevations 114

EXPOSED CASTERS BENEATH ROLLER GATES

ROUNDED CORNERS

15'	
14'	
13' 12'	
11' elevation + 10'	
ELEVATION + TU	



GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

RESILIENCY PROJECT

FDR On-Ramp Swing Gate, Open 115

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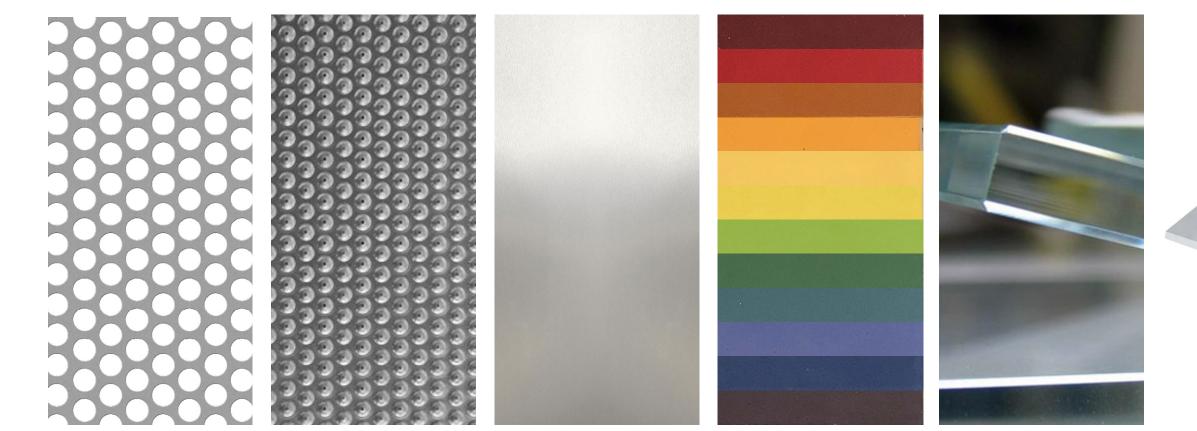
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Flood Protection FDR On-Ramp Swing Gate, Closed 116

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Stainless Steel Perforated **Clerestory Screen**

Stainless Steel Embossed Doors and Fixed Panels

Stainless Steel Facade Openings Trim Coping Roll-up Gates

Glazed Brick Various Colors **Building Facade**

Glass **Building Windows**

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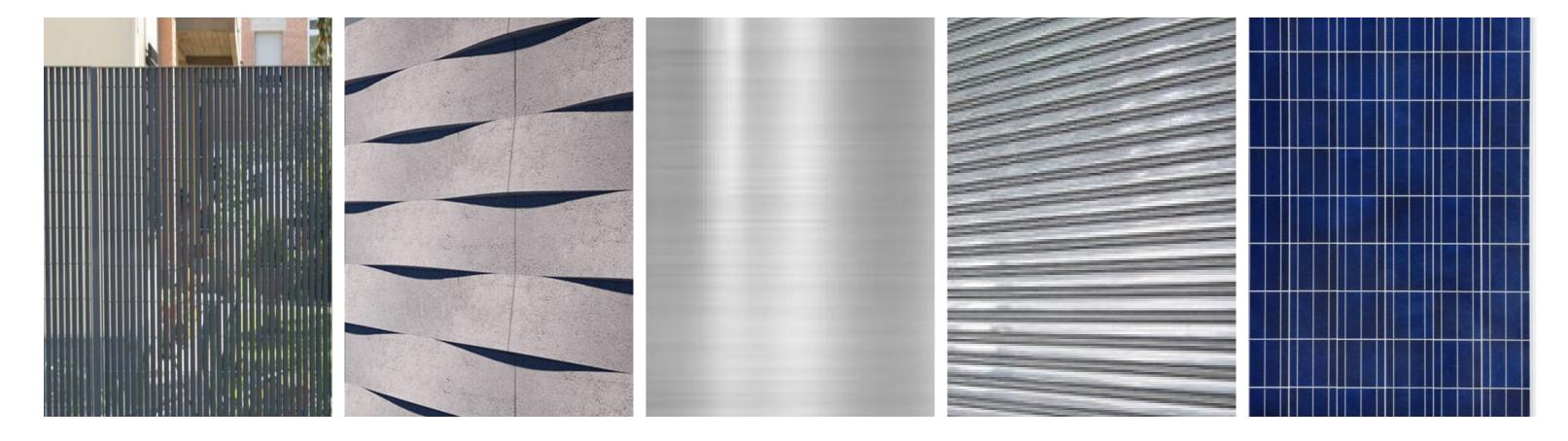




Roof Access Pre-cast Concrete Paver

Green Roof NYC Parks Sustainability Initiative

Materials Park Buildings 117



Louver Style Steel Fencing M&O Fencing Painted Black

Precast Concrete Building M&O Area Buildings

Stainless Steel Canopy M&O Area Canopy & Access Doors Stainless Steel Roll-Up Door M&O Area Access Doors

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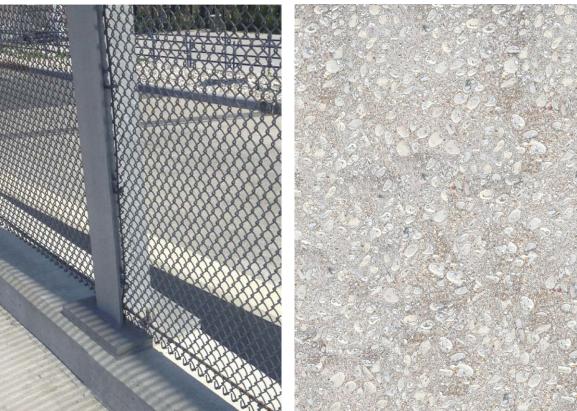
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Photovoltaic Cells M&O Area Canopy

Materials Maintenance Areas 118

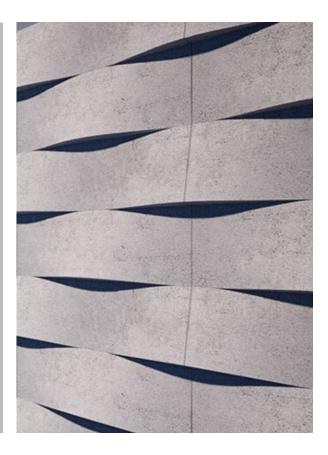




Bridge Handrail Stainless Steel Bridge Guardrail + Fence Galvanized Steel Bridge Deck Exposed Concrete **Bridge Structure** Painted Steel: Color George Washington Gray

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Bridge Ramp + Abutments Cast-In-Place Concrete

Materials Pedestrian Bridges 119







STAINLESS STEEL Back Up Wall, Doors, & Trim Elements SOLID GLASS BRICK Facade (Pictured: Office Mockup)

BARRE GREY GRANITE Stone Base

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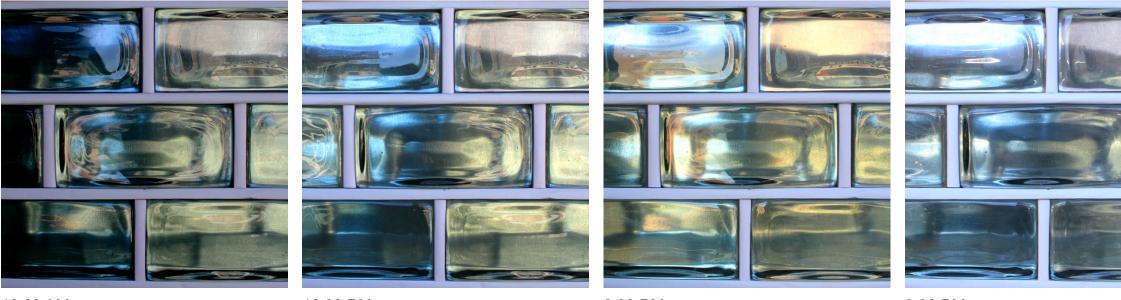
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FLAT-LOCK METAL TILE

Sloped Roof Assembly

Interceptor Gate Building Materials 120



10:00 AM

12:00 PM

2:00 PM

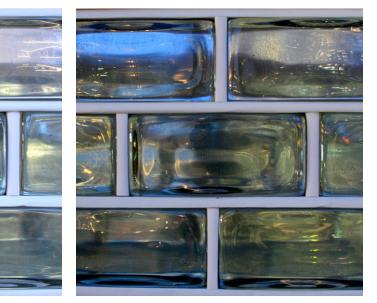
3:00 PM

OFFICE MOCKUP PHOTOGRAPHS

December 12th, 2019

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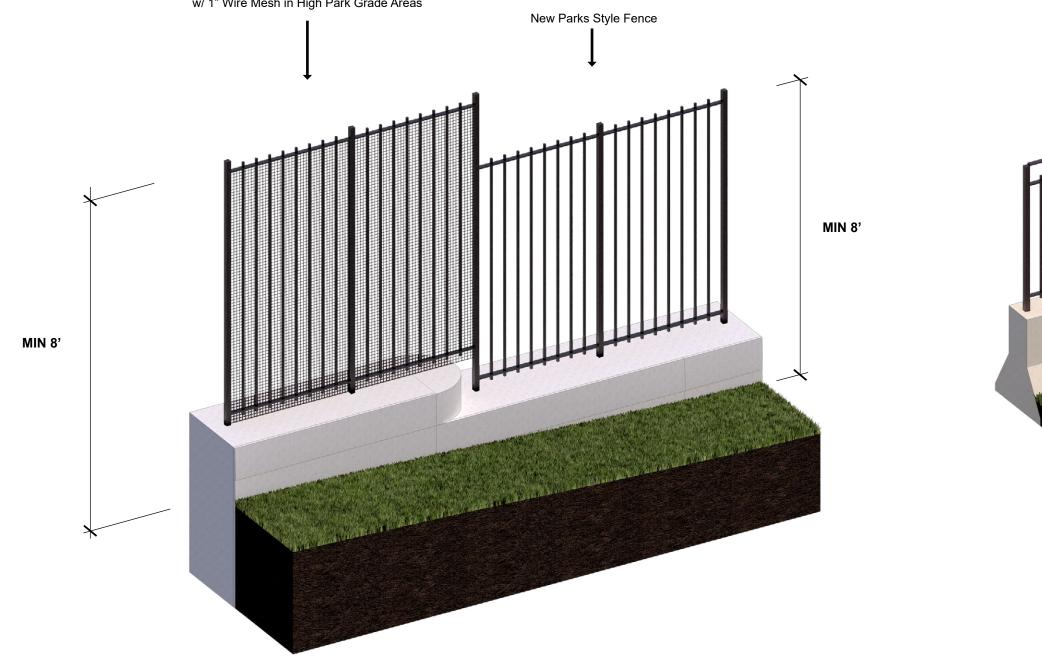


5:00 PM

Interceptor Gate Building ass Brick Natural Light StudyA120

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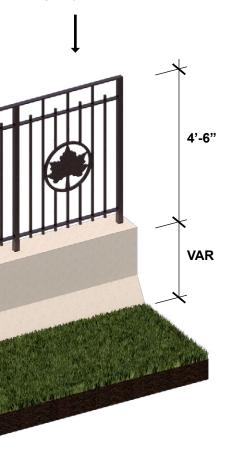
NEW WALL AND FENCE



New Parks Style Fence w/ 1" Wire Mesh in High Park Grade Areas

NO CHANGE FROM APPROVED

Existing ERP Parks Fence and Highway Barrier



EXISTING TO REMAIN

Flood and Highway Walls Highway Fence 121



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Park Materials Key Plan PA1 122



- STONE (SLOPE AND EDGES)
- **STEEL EDGE (NATURE EXPLORATION AREA)**

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PERMEABLE PAVERS (UNDER WILLIAMSBURG BRIDGE)

SYNTHETIC TURF (FIELDS 1, 2, 3, 4 & TRACK INFIELD)

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NO CHANGE FROM APPROVED

(NOT TO SCALE) (



Park Materials Key Plan PA2 123

PRIMARY PATHWAYS



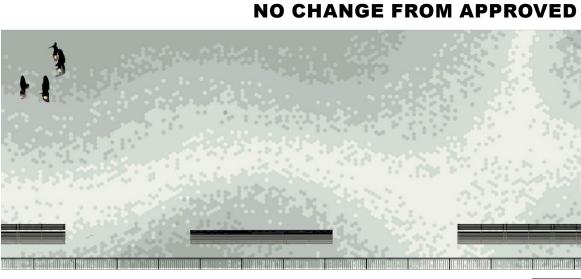
FULL DEPTH ASPHALT PAVEMENT BIKE LANE



EXPOSED AGG. CONCRETE PAVEMENT W/ SAW CUT JOINTS PARK PATHWAYS



CONCRETE UNIT PAVER ESPLANADE 8" HEX PAVER



CONCRETE UNIT PAVER PATTERN

SECONDARY PATHWAYS



CEMENT CONCRETE PAVEMENT MAINTENANCE AREAS



RECYCLED BARK MULCH UNDER EXISTING TREES & NATURAL EXPLORATION AREAS

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Park Materials Paving 124

10'



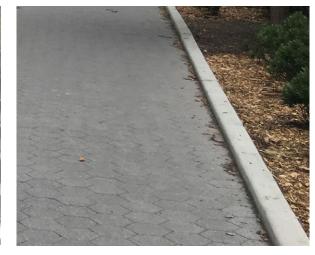
LANDSCAPE STONE SLOPE AND EDGES



CONCRETE SEATWALLS PRECAST CONCRETE



AVERAGE CONCRETE CONCRETE STEPS



STANDARD CONCRETE CURBS 6" WIDE; FLUSH OR 2" HEIGHT POURED IN PLACE AVERAGE CONCRETE



CONCRETE WALLS POURED IN PLACE CONCRETE

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Material Palettes Walls, Edges and Stairs 125

NO CHANGE FROM APPROVED



STANDARD SAFETY SURFACE MITCHELL RUBBER TILES 8' & 10' DROP HEIGHTS COLOR: SAND EAST RIVER PARK



STANDARD SAFETY SURFACE MITCHELL RUBBER TILES 8' & 10' DROP HEIGHTS COLOR:#12, #17, #2 MURPHY BROTHERS PLAYGROUND STANDARD SAFETY SURFACE MITCHELL RUBBER TILES 8' & 10' DROP HEIGHTS COLOR:#14, #16, #20 ASSER LEVY

PLAYGROUND



SKINNED INFIELD FOR BASEBALL & SOFTBALL STANDARD INFIELD MIX

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SYNTHETIC TURF W/ INFILLLFIELDS 1, 2, 3, 4

Material Palettes Sports and Play Surfaces 126



TENNIS COURTS ASPHALT WITH COLOR SEAL COLORS: ARCTIC, MIDNIGHT, TEAL EAST RIVER PARK TENNIS

BASKETBALL COURTS ASPHALT WITH COLOR SEAL COLORS: MIDNIGHT, PRO BLUE, ROYAL PURPLE, BURGUNDY, BRICK RED, ARCTIC BLUE, PUMPKIN EAST RIVER PARK DELANCEY STREET



BASKETBALL COURTS ASPHALT WITH COLOR SEAL COLORS: DARK GREEN, GRASS GREEN, KIWI, KEY LIME MURPHY BROTHERS BASKETBALL

BASKETBALL COURTS ASPHALT WITH COLOR SEAL COLORS: CORAL, SCARLET ASSER LEVY BASKETBALL

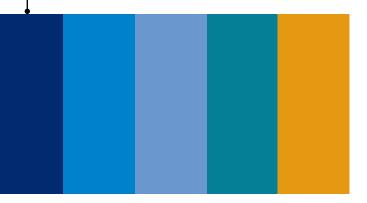
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REVISION 10.1 COURT COLORS



BASKETBALL COURTS ASPHALT WITH COLOR SEAL

COLORS: MIDNIGHT, LIGHT BLUE, ARCTIC BLUE, TEAL, PUMPKIN EAST RIVER PARK 10TH STREET

Material Palettes Sports and Play Surfaces 127

PDC FINAL REVIEW

EAST SIDE COASTAL

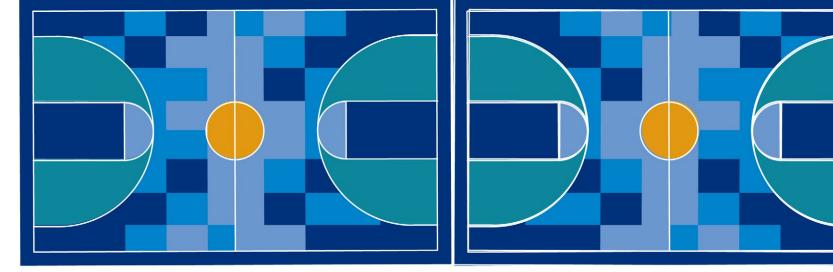
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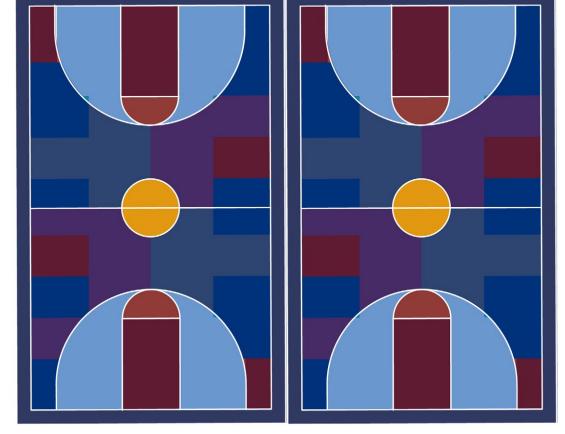
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BASKETBALL COURT PATTERN - 10TH STREET



BASKETBALL COURT PATTERN - DELANCEY STREET

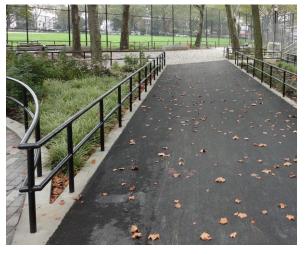


Material Palettes Court ColorsC127





PARK FENCING COATED CHAINLINK 4', 6', 8', 12' & 16' HEIGHTS SPORTS FIELDS, PLAYGROUNDS, MAINTENANCE AREAS COLOR: BLACK



PLANT RAIL FENCE PAINTED STEEL PIPE 2' 6" HEIGHT COLOR: BLACK STUYVESANT COVE PARK



HAND RAILS & GUARDRAILS PAINTED STEEL PIPE 42" HEIGHT COLOR: BLACK EAST RIVER PARK

PARKS STANDARD PROMENADE RAIL 42" HEIGHT BLACK **ESPLANADE**

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Park Fencing and Rails Material Palettes 128



STANDARD BENCH (BACK) 1964 WORLD'S FAIR

WITH ARMS 8'-0" & 4'-0" LENGTH **RPL SLATS, WEATHERED WOOD** LOCATION: ALL PROJECT AREAS



STANDARD BENCH (NO BACK) 1964 WORLD'S FAIR

WITH OR WITHOUT ARMS 8'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: EAST RIVER PARK AND STUYVESANT COVE PARK WATERFRONT ESPLANADES

STANDARD TYPE 'C' SPORTS BENCH

WITHOUT ARMS & BACKS 7'-0" LENGTH **RPL SLATS, WEATHERED WOOD** LOCATION: SPORTS FIELDS

STANDARD PICNIC TABLE & ACCESSIBLE PICNIC TABLE

7'-0" LENGTH **RPL SLATS, WEATHERED WOOD** LOCATION: BBQ AND PICNIC AREAS IN EAST RIVER PARK. MURPHY **BROTHERS PLAYGROUND & ASSER** LEVY PLAYGROUND



STANDARD BOTTLE FILLER WITH STANDARD SPORTS STEEL **HI-LO DRINKING FOUNTAINS** ELKAY MODEL LK4430BF1UNYC COLOR GRAY/SILVER

SPRAY FIXTURE AQUAJEUX MODEL 1507-MALF-08 COLOR GRAY/SILVER

2221111111 MILLINI

BBQ GRILL CLUSTER OF THREE MDF. INC. COLOR BLACK



NYC DOT CITYRACK "HOOP" COLOR GRAY/SILVER

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CAROUSEL SEATING **3 OR 4 SEATS WITH BACKS DINING HEIGHT, LANDSCAPE FORMS COLOR SILVER** LOCATION: EAST RIVER PARK ECOLOGY PLAZA





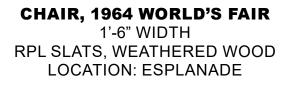
STANDARD PUB-LIC SPACE BINS TRASH RECEPTACLE MAGLIN MODEL: CMLWR9074032HST COLOR GRAY W/ **BLACK LID**



BIGBELLY RECYCLING RECEPTACLE

Furnishings and Equipment Site Furnishings 129







BAR STOOL, 1964 WORLD'S FAIR 1'-6" WIDTH 4'-9" LENGTH **RPL SLATS, WEATHERED WOOD** LOCATION: ESPLANADE



BAR TOP TABLE HIGH HEIGHT 22'-0" LENGTH **RPL SLATS. WEATHERED WOOD** LOCATION: ESPLANADE



BAR TOP TABLE LOW HEIGHT 22'-0" LENGTH **RPL SLATS, WEATHERED WOOD** LOCATION: ESPLANADE



SOLSTICE UMBRELLA - ALTAIR LANDSCAPE FORMS LOCATION: ESPLANADE COLORS: OCEAN / SEAGREEN/GREEN / FLAMBEE ORANGE / TANGERINE



STANDARD PICNIC TABLE & ACCESSIBLE PICNIC TABLE 8'-0" LENGTH PERFORATED METAL LOCATION: EAST RIVER PARK

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PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT**

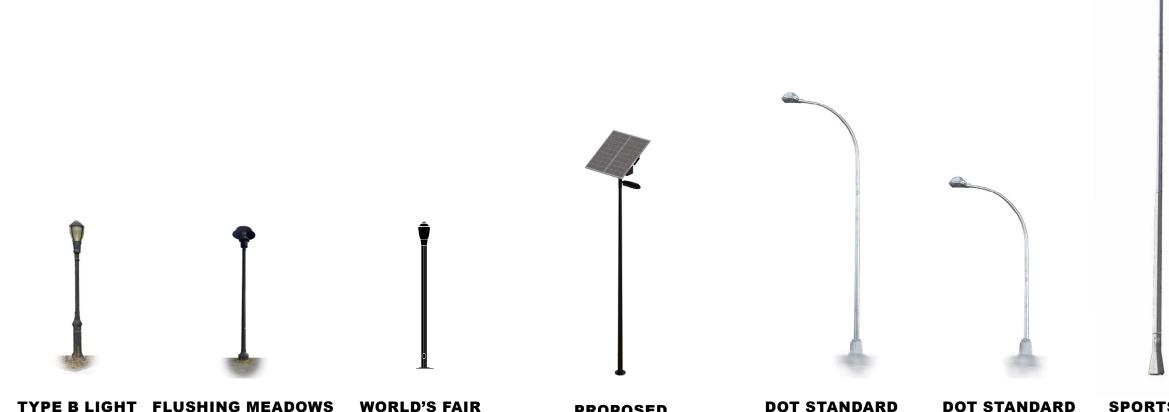
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CHAISE LOUNGE, 1964 WORLD'S FAIR 2'-1" WIDTH **RPL SLATS, WEATHERED WOOD** LOCATION: ESPLANADE



SOLSTICE UMBRELLA - ALTAIR LANDSCAPE FORMS **PRECEDENT IMAGE**





	I I FE B LIGHT	FLOSHING MEADOWS	WORLD 3 FAIR	PROPOSED	DUI STANDAND	DUI STANDAND	JF
12' POLE		12' POLE	12' POLE	EVERGEN M SERIES	DAVIT W/ COBRA	DAVIT W/ COBRA	
	LED	LED	LED	SOLAR LIGHT BY SOL, INC.	HEAD	HEAD	LE
	COLOR: BLACK	COLOR: BLACK	COLOR: BLACK	POLE HEIGHT 18	30' POLE	14' POLE	С
	ASSER LEVY	EAST RIVER PARK,	CORLEARS HOOK PARK	SOLAR LIGHT	LED LIGHT	LED LIGHT	F
	PLAYGROUND	STUYVESANT COVE		COLOR BLACK	COLOR: SILVER	COLOR: SILVER	
		PARK, MURPHY		EAST RIVER PARK	MAINTENANCE AREAS,	DELANCEY BRIDGE	
		BROTHERS		ESPLANADE	BRIDGES		
		PLAYGROUND		(UNDER REVIEW)			

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Lighting Lighting Fixtures Palette 131

SPORTS TOWER 60'-80' POLE LED FLOODLIGHT COLOR: SILVER FIELDS 1,2 & 6

OF OR

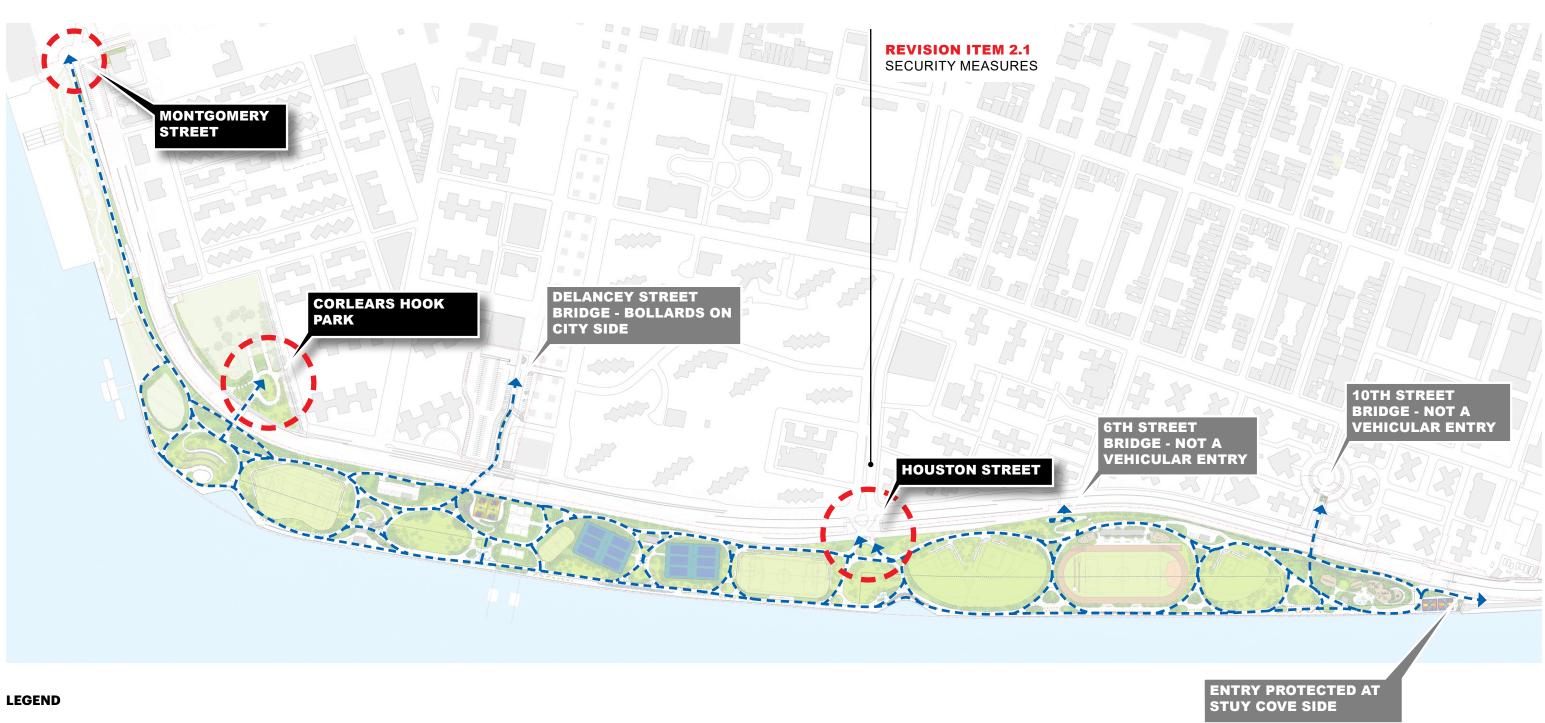
SPORTS TOWER 30' POLE LED FLOODLIGHT COLOR: SILVER AMPHITHEATER TYPE M 27'-7" POLE LED ROW



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VEHICULAR ENTRIES FOR SECURITY MEASURES

- MAJOR CIRCULATION PATHS (EAST RIVER PARK)



Security Measures PA1 132

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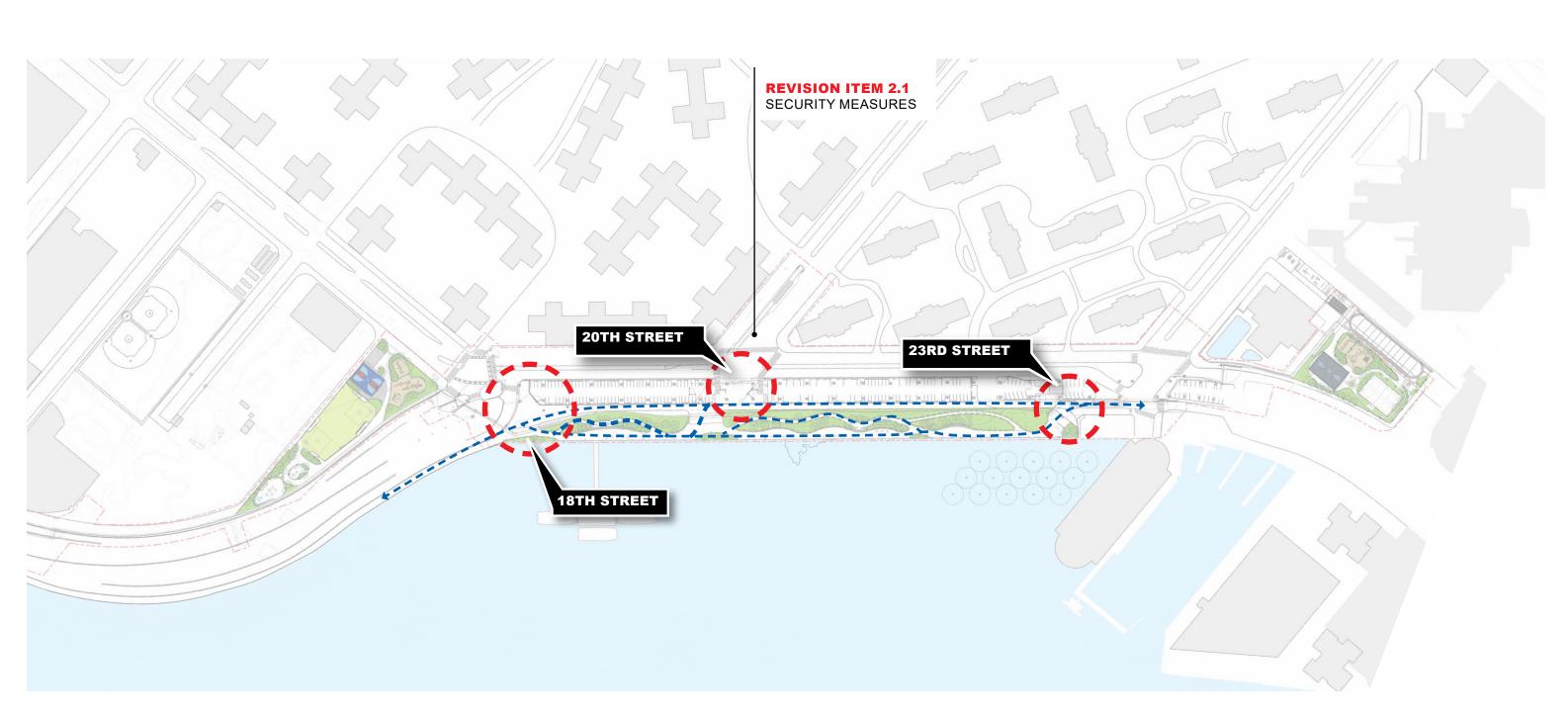
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VEHICULAR ENTRIES FOR SECURITY MEASURES

--- MAJOR CIRCULATION PATHS (EAST RIVER PARK)

LEGEND



Security Measures PA2 133



(GEORGE WASHINGTON GRAY)



SECURITY RATED BOLLARDS **FIXED OR REMOVABLE** (STAINLESS STEEL)

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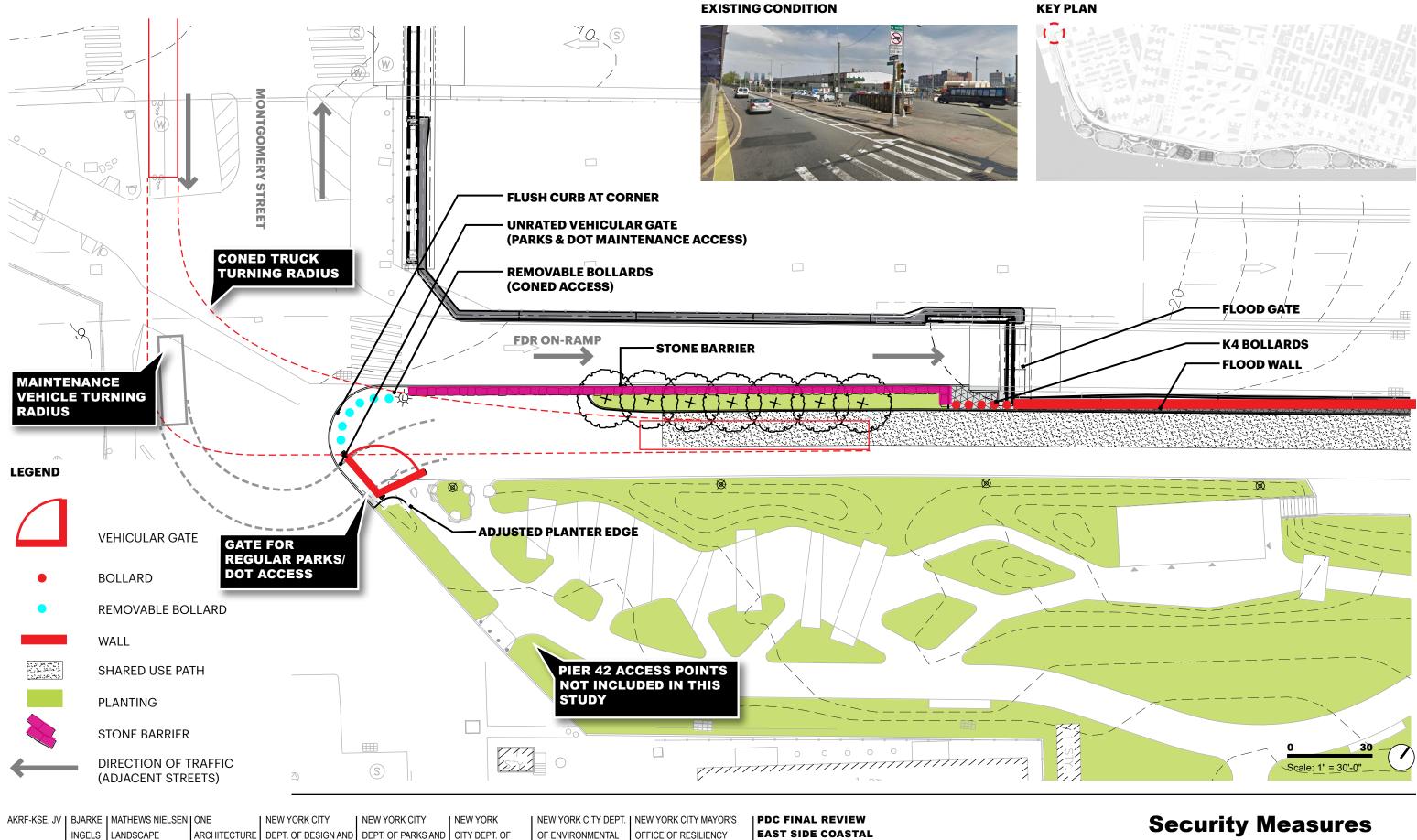
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RESILIENCY PROJECT

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Security Measures Toolkit 134

EXISTING CONDITION



GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

RECREATION

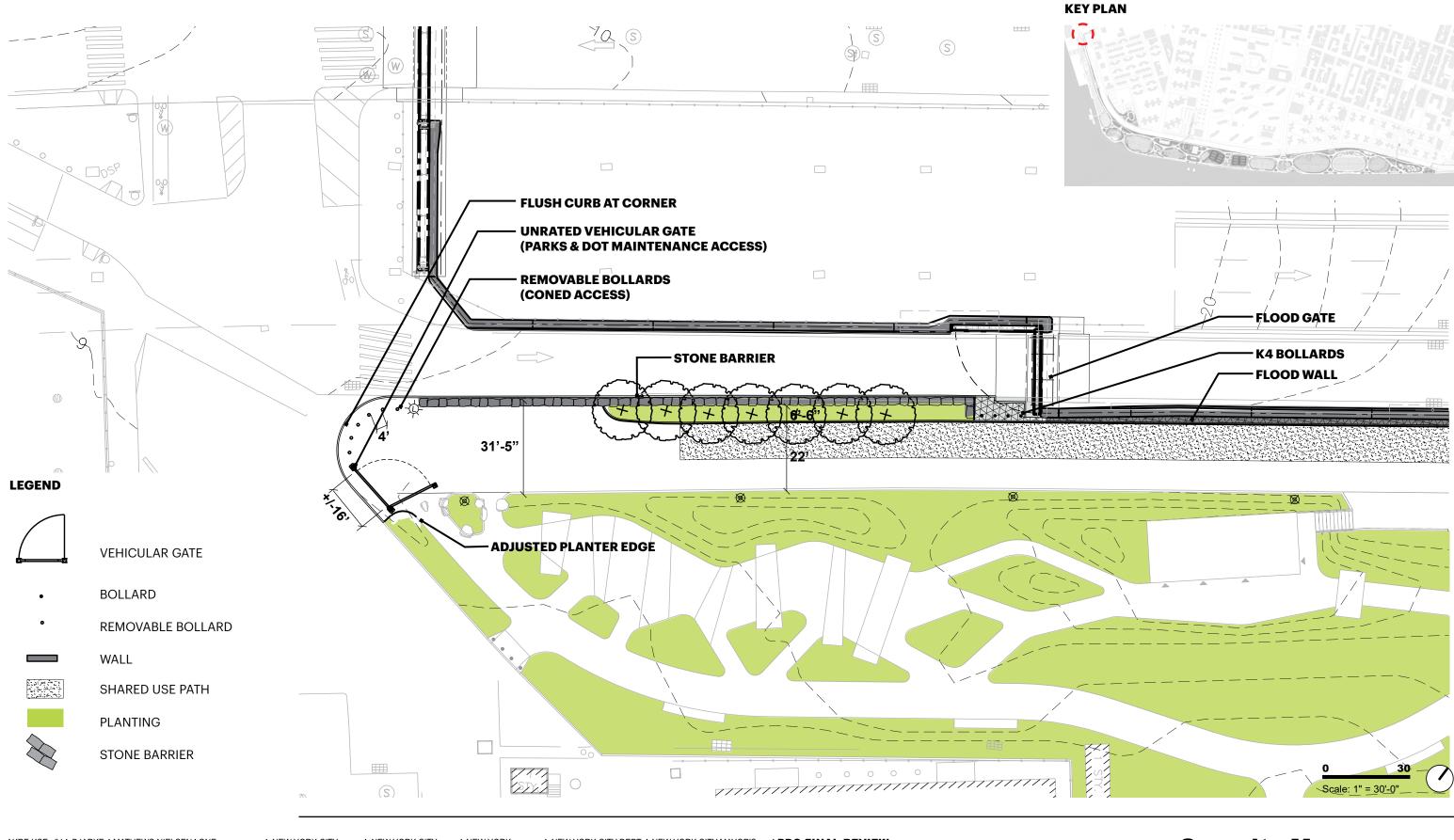
TRANSPORTATION PROTECTION

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RESILIENCY PROJECT

Montgomery Street 135

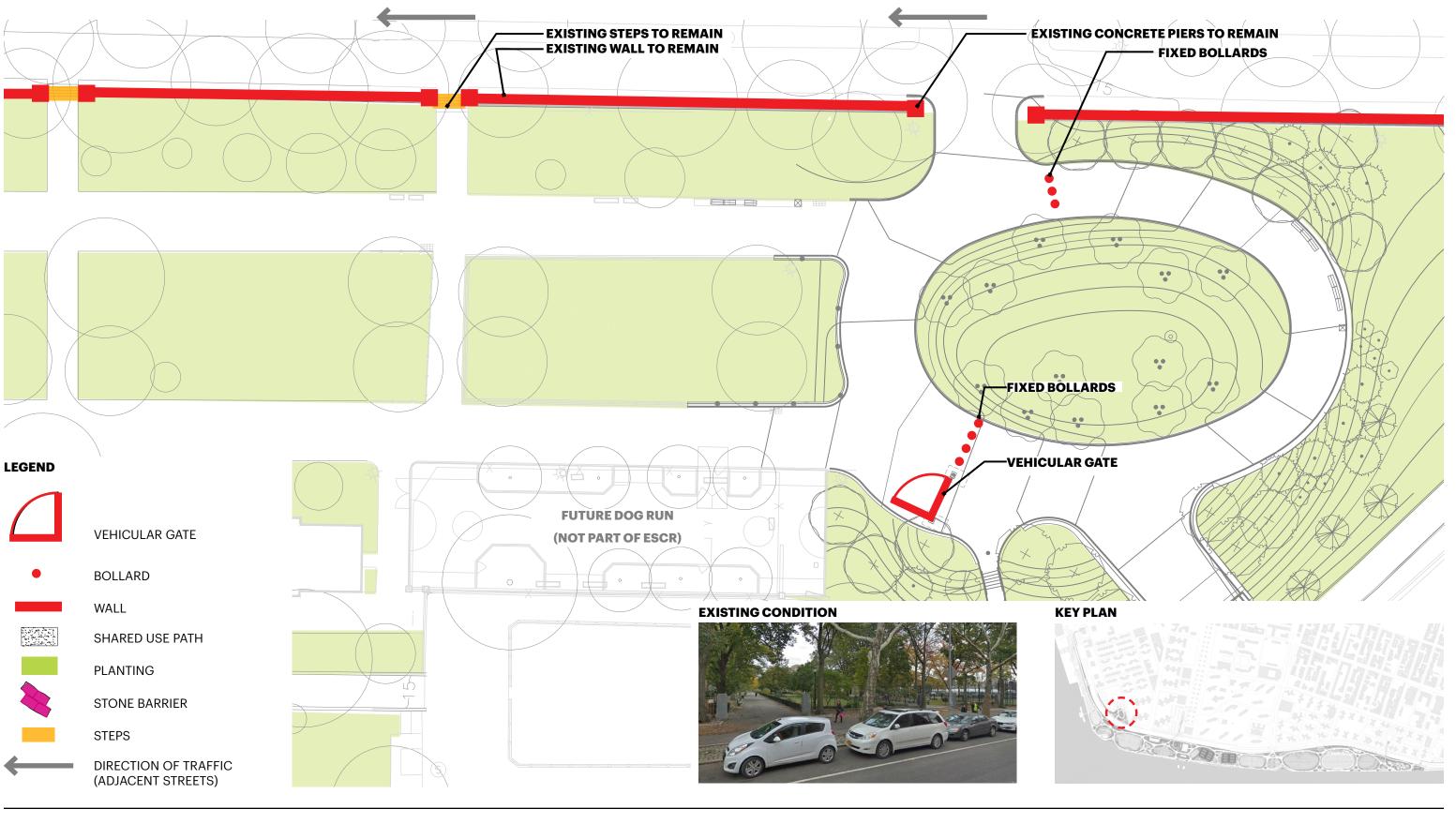
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Security Measures Montgomery Street 136

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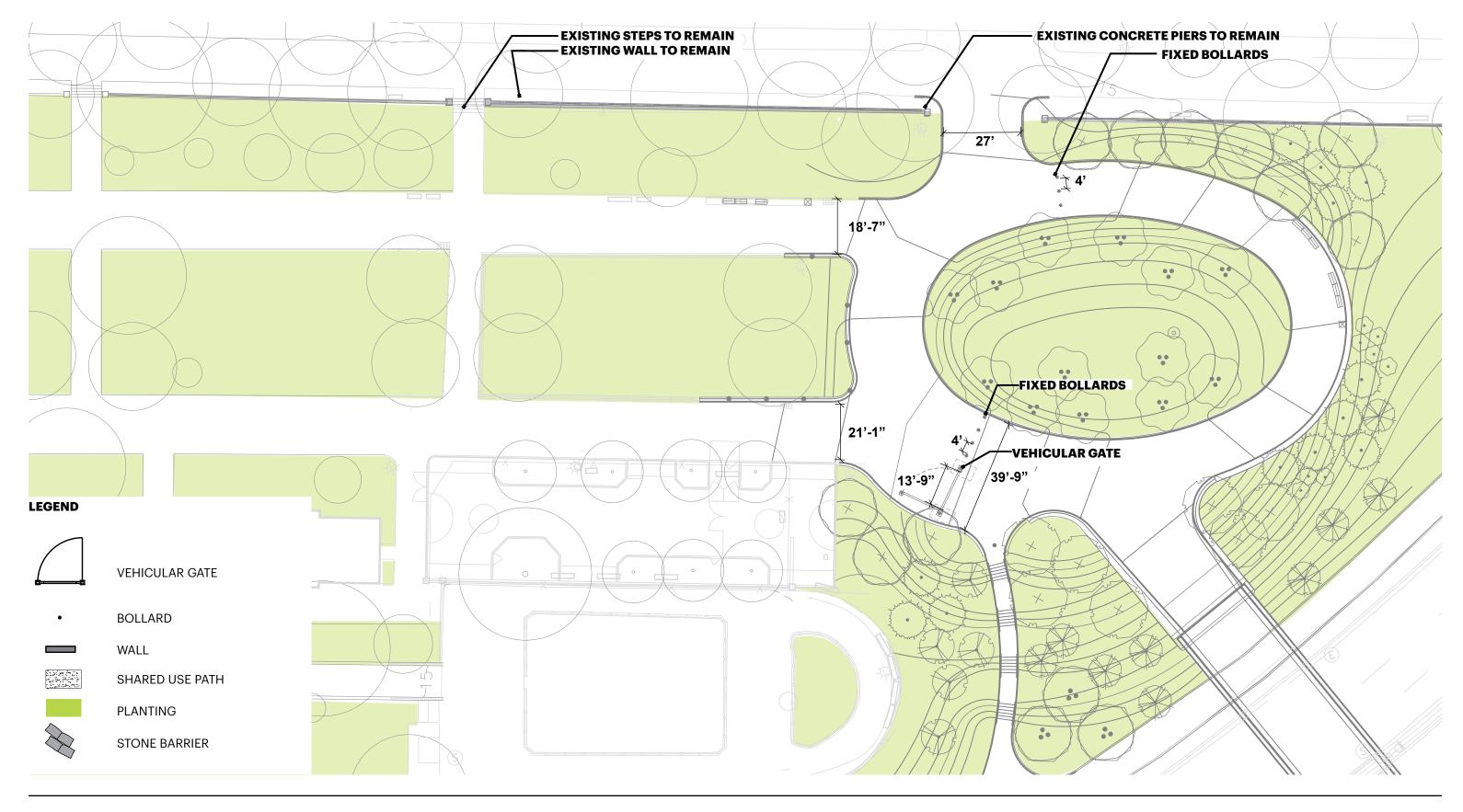
Security Measures Corlears Hook Park 137

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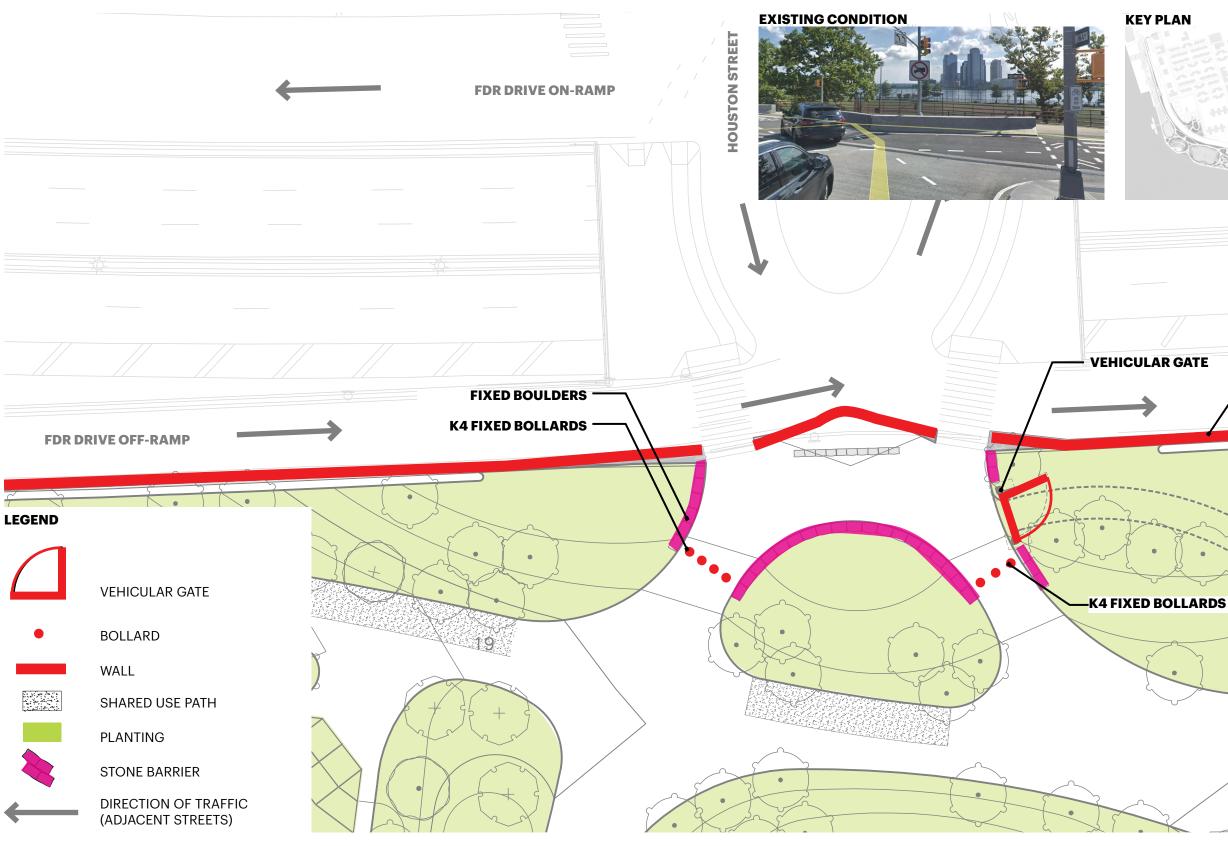
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Security Measures Corlears Hook Park 138

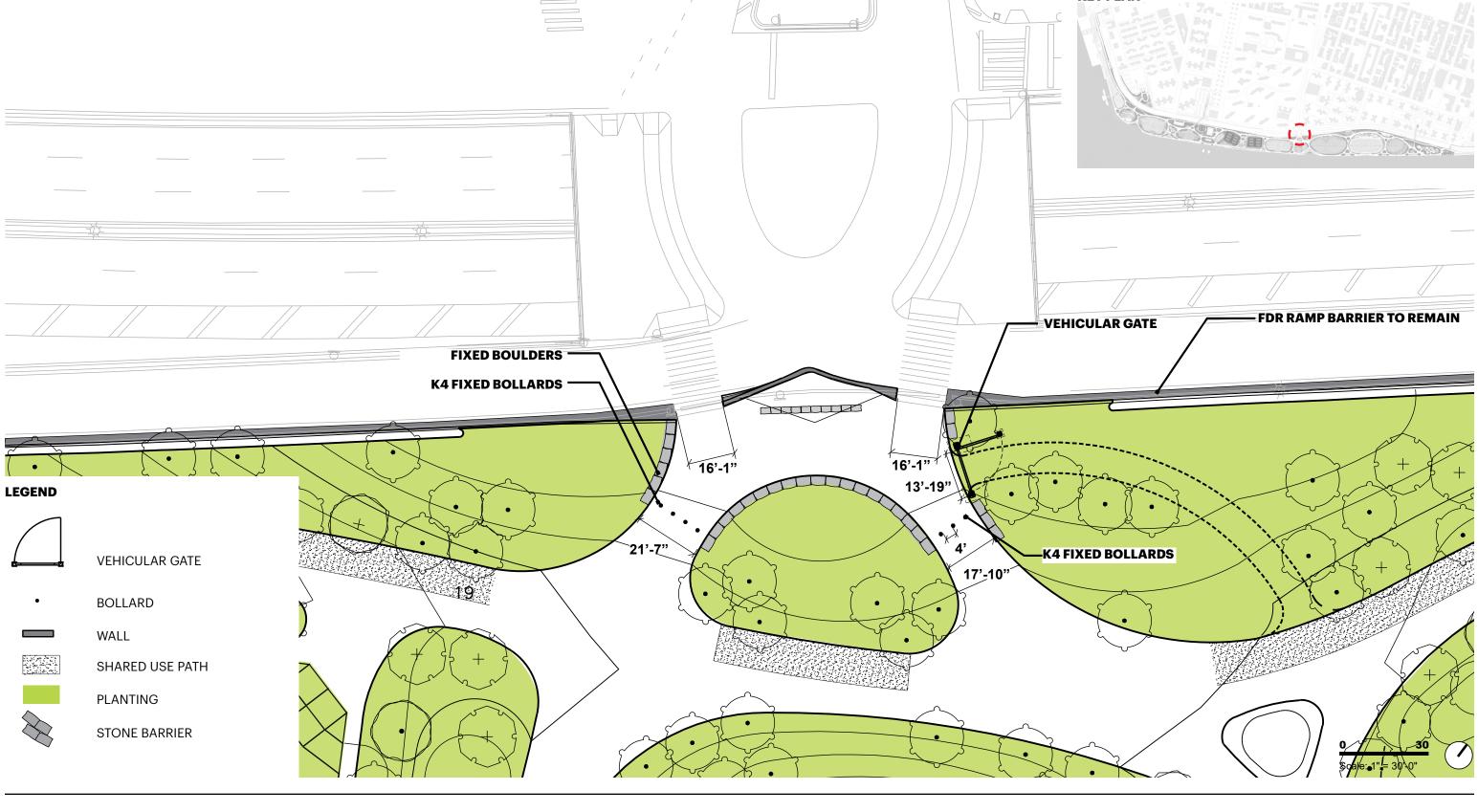
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FDR RAMP BARRIER TO REMAIN **FDR DRIVE ON-RAMP** -30 Scale: 1" = 30'-0"

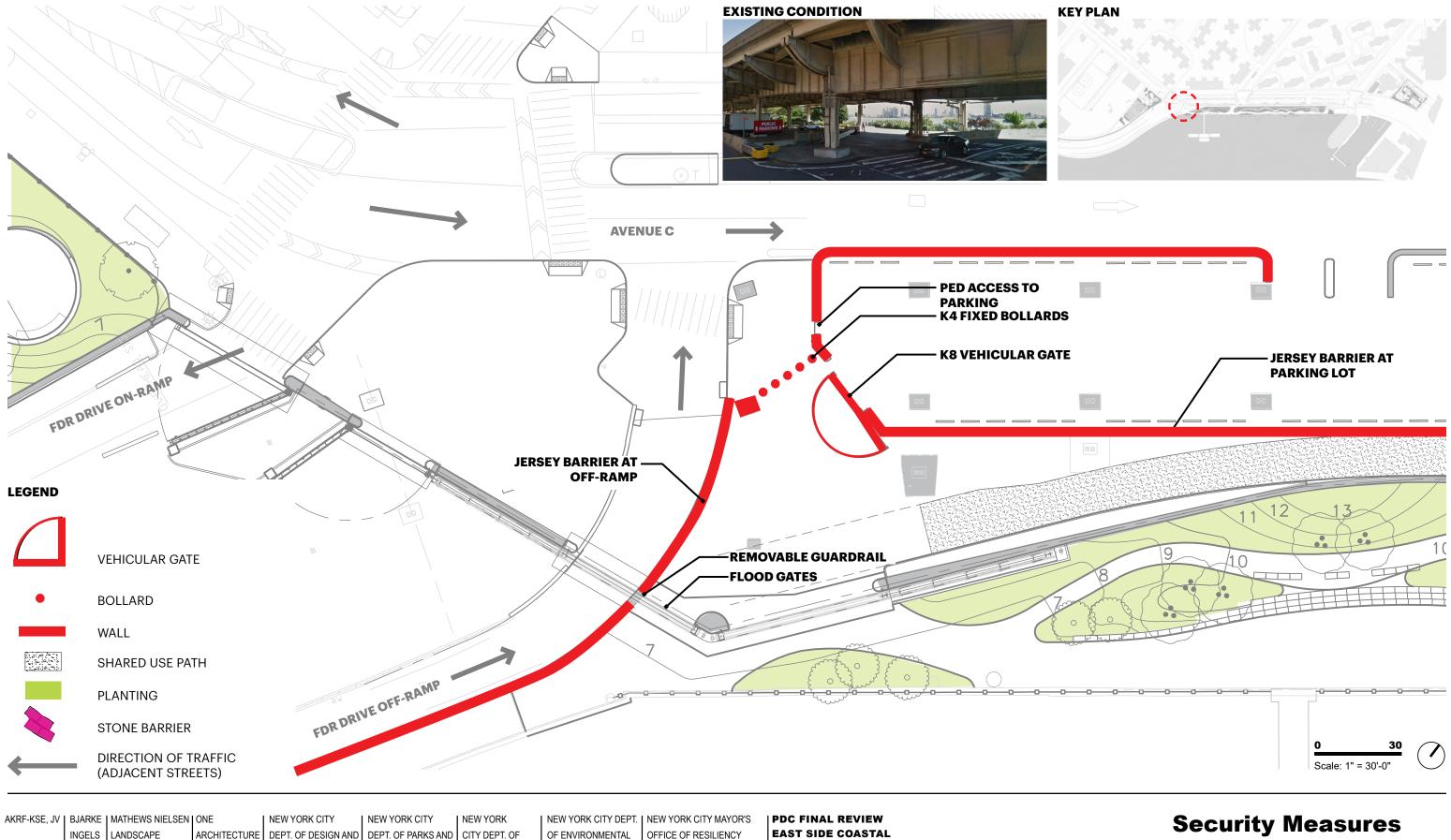
Security Measures Houston Street 139

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Security Measures Houston Street 140

KEY PLAN



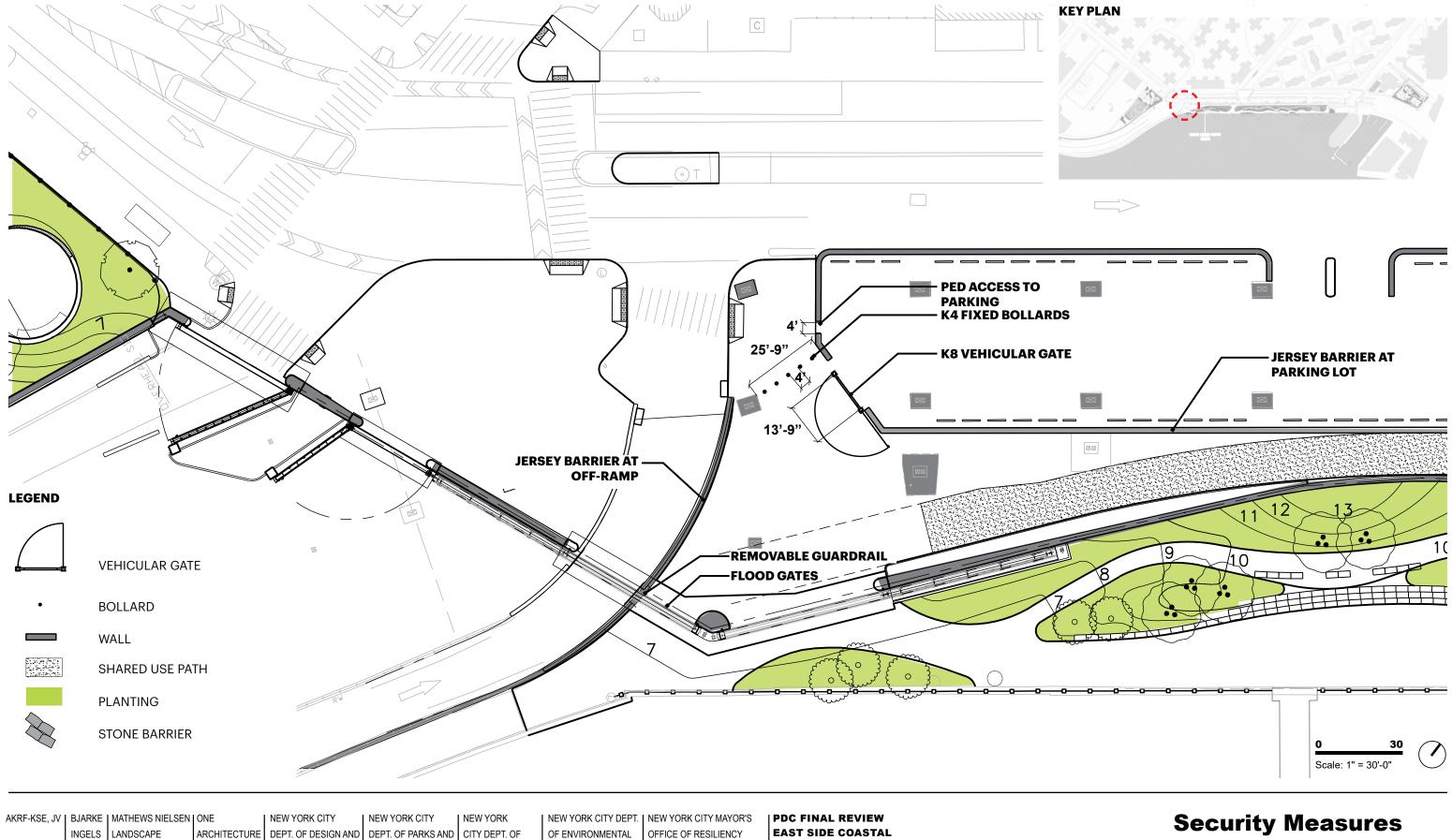
RESILIENCY PROJECT DECEMBER 16, 2019

TRANSPORTATION PROTECTION

RECREATION

GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

18th Street 141



GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

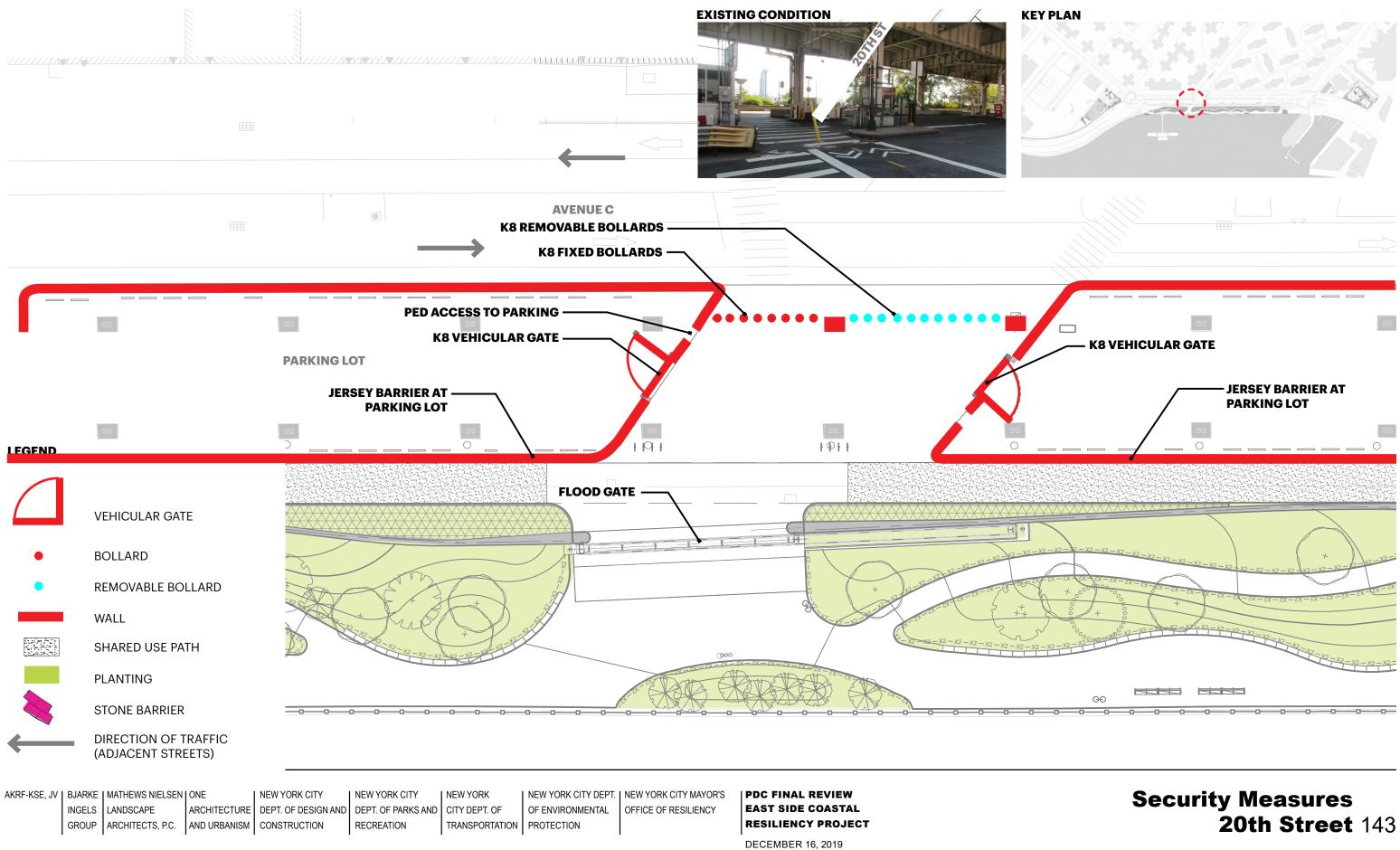
RECREATION

TRANSPORTATION PROTECTION

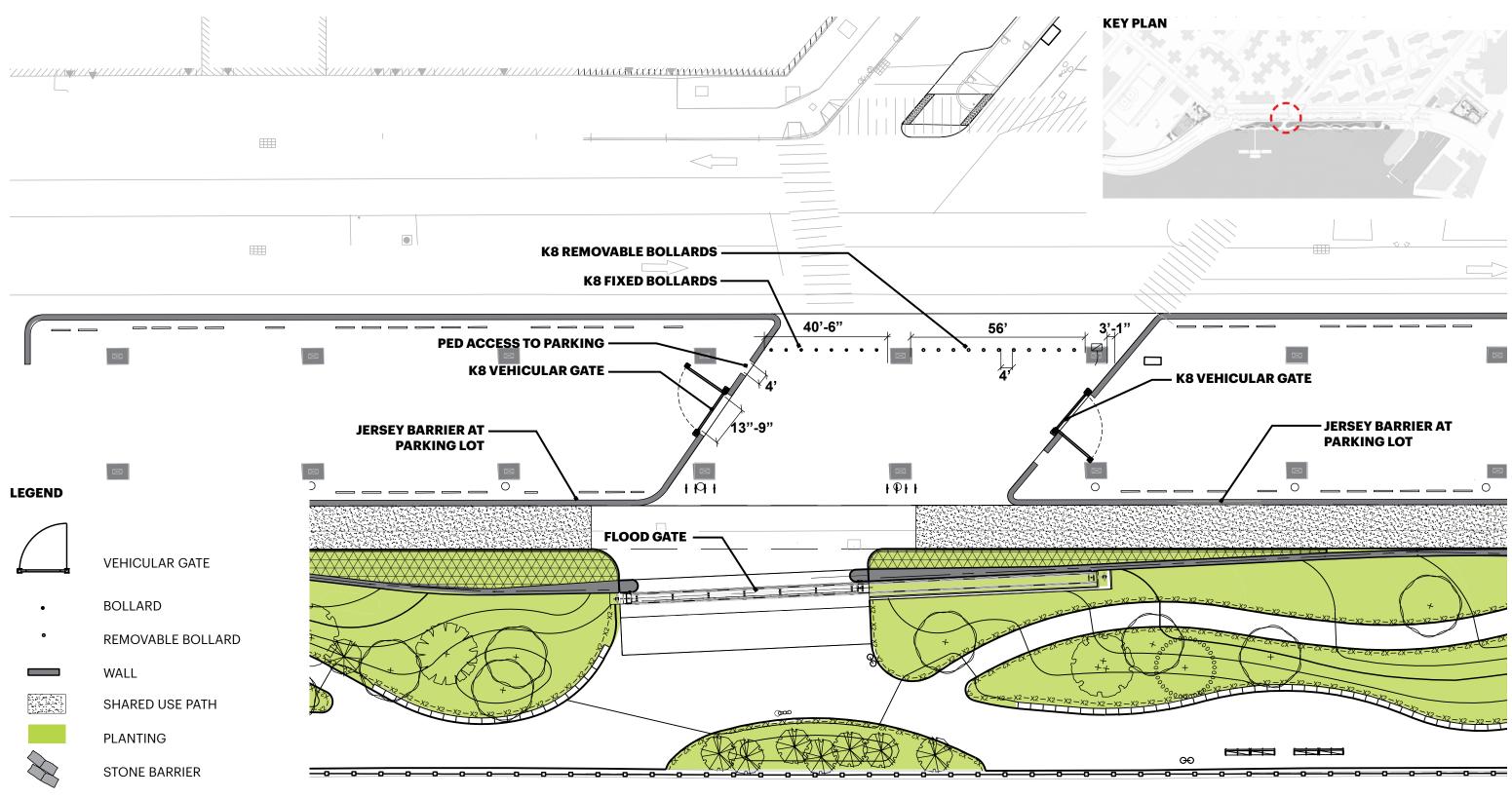
RESILIENCY PROJECT

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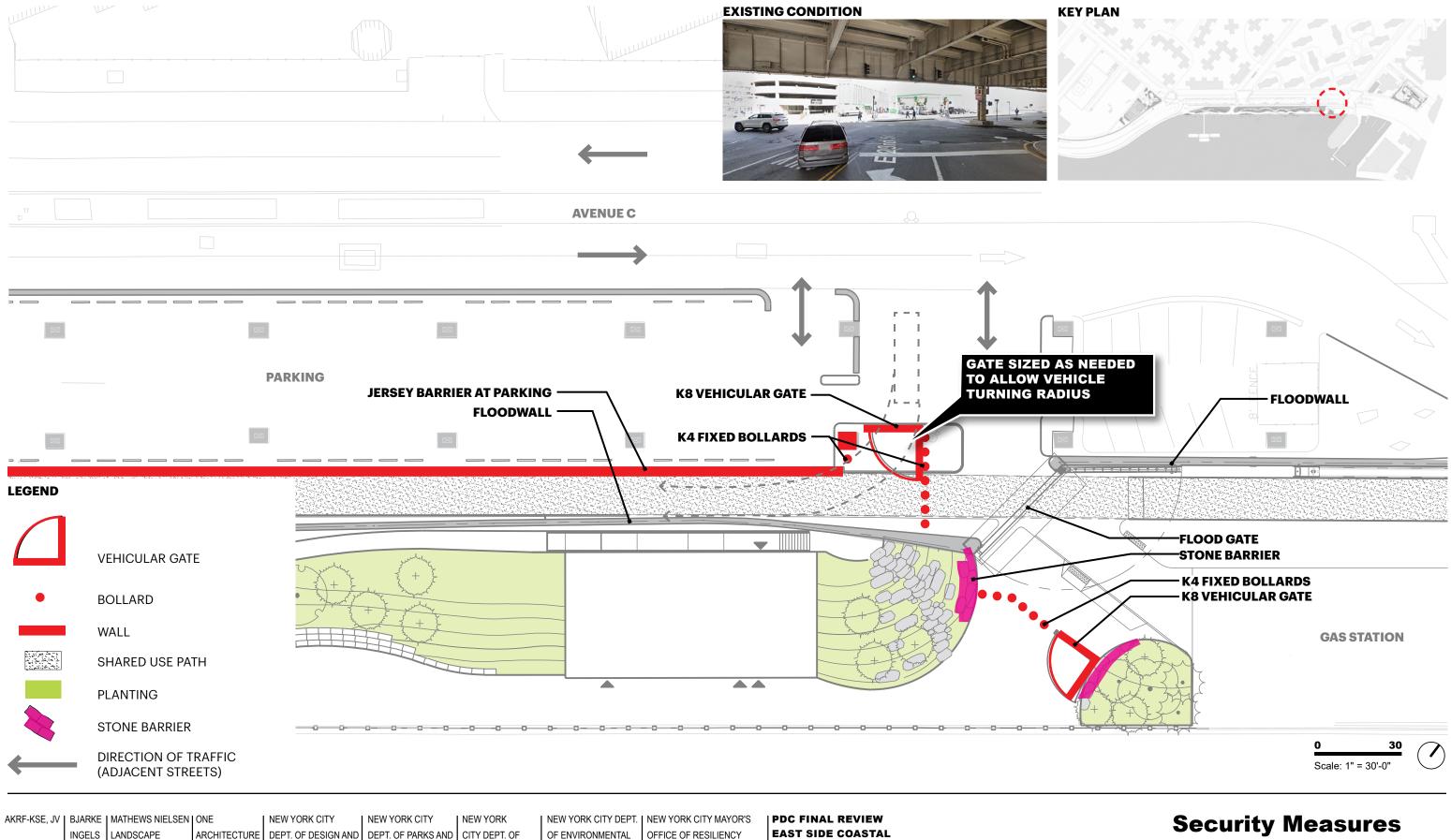
Security Measures 18th Street 142



PLANTING STONE BARRIER AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION DECEMBER 16, 2019



Security Measures 20th Street 144



DECEMBER 16, 2019

RESILIENCY PROJECT

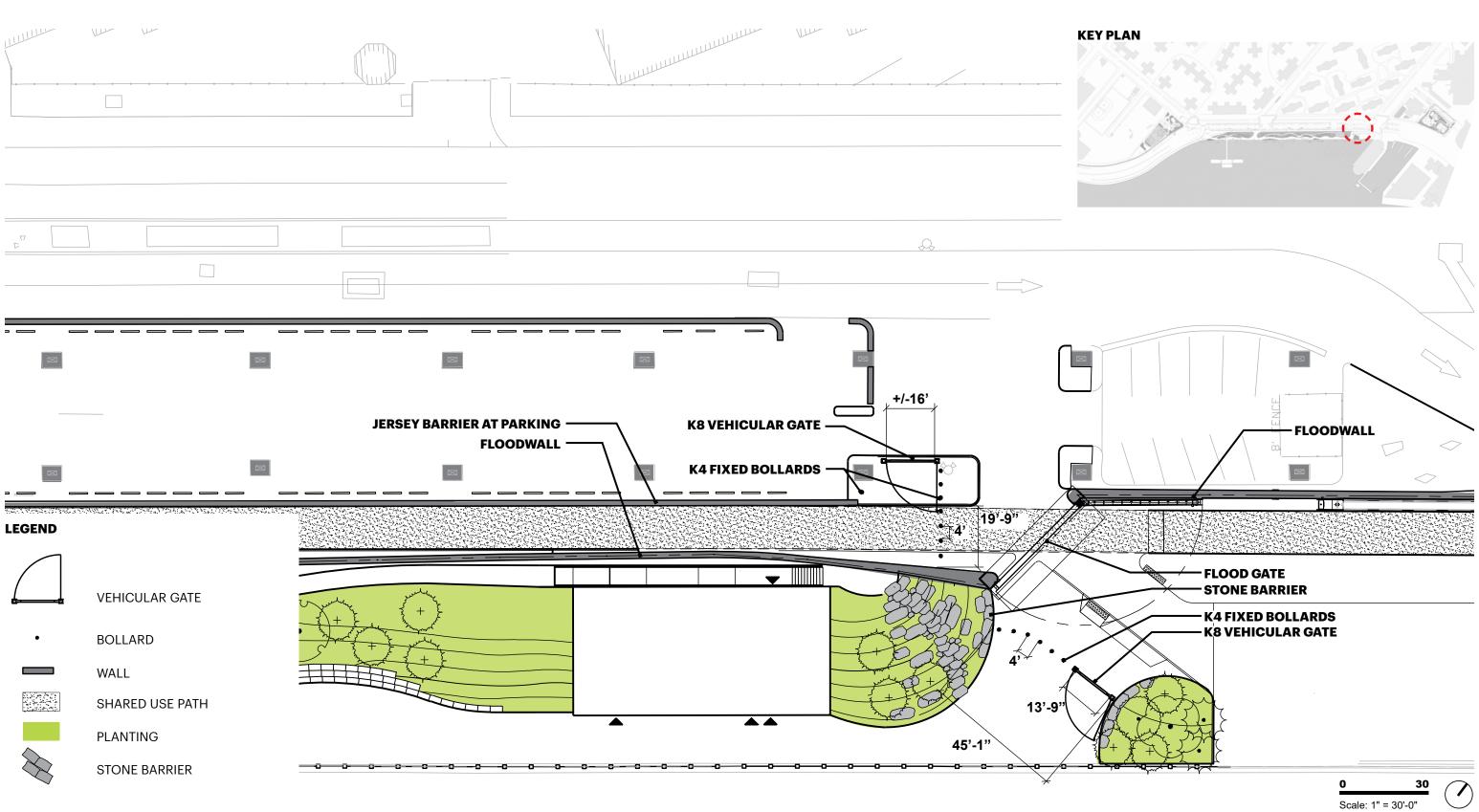
RECREATION TRANSPORTATION PROTECTION

GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

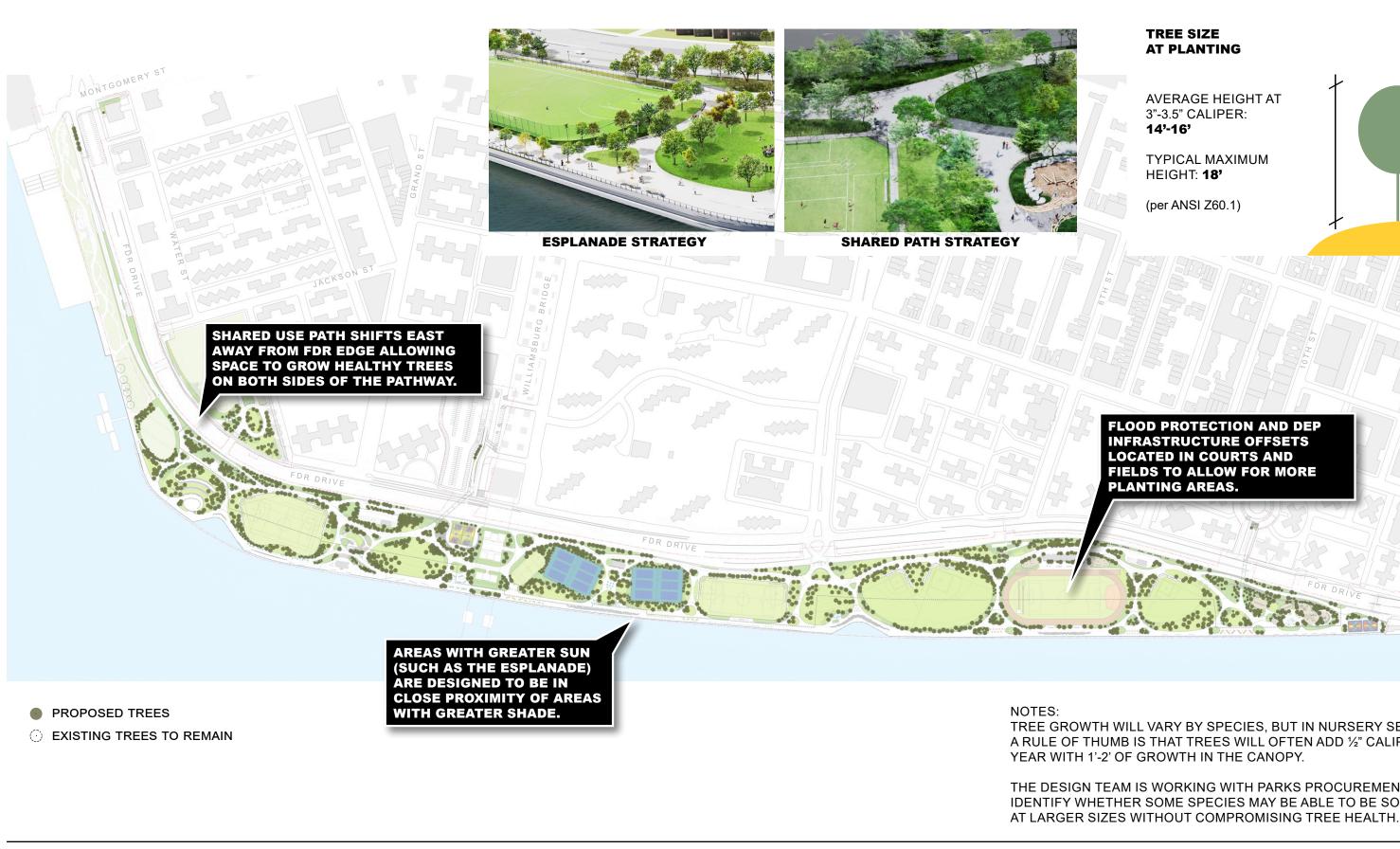
Security Measures 23rd Street 145

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Security Measures 23rd Street 146



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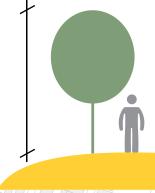
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TREE GROWTH WILL VARY BY SPECIES, BUT IN NURSERY SETTINGS A RULE OF THUMB IS THAT TREES WILL OFTEN ADD 1/2" CALIPER PER

THE DESIGN TEAM IS WORKING WITH PARKS PROCUREMENT TO IDENTIFY WHETHER SOME SPECIES MAY BE ABLE TO BE SOURCED

Shade Strategy PA1 Tree Canopy 147

EAST SIDE COASTAL

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UMBRELLA CLUSTERS

PROPOSED TREES

THE DESIGN INCLUDES A PICNIC AREA TO BENEFIT FROM WILLIAMSBURG **BRIDGE SHADOW.**

PERMANENT METAL UMBRELLAS ARE LOCATED IN AREAS WHERE PLANTING IS LIMITED DUE TO STRUCTURAL LIMITATIONS, IN THE OFFSET AREAS AND BBQ AREAS.

THE PROPOSED LIGHTER COLORED **EXPOSED AGGREGATE CONCRETE** AND CONCRETE PAVERS WILL REDUCE HEAT GAIN ON PAVED SURFACES.

ESPLANADE STRATEGY

NOTES:











TO MAXIMIZE TREE PLANTING, SOLAR LIGHTING IS IMPLEMENTED ONLY ALONG THE ESPLANADE. AREAS INTERIOR TO THE PARK UTILIZE STANDARD FLUSHING MEADOW LIGHT POLES.

Shade Strategy PA1 Furnishings 148

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- UMBRELLA CLUSTERS
- EXISTING TREES TO REMAIN
- PROPOSED TREES





Shade Strategy PA2 149



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THE PLANTING DESIGN



Shade Strategy Woodland Edge 150



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Metasequoia glypto. Dawn Redwood

GROWTH RATE: FAST



Caltalpa - multi trunk Multi-trunk catalpa

GROWTH RATE: FAST

Shade Strategy Pastoral Openings 151



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Liquidambar styraciflua Sweetgum

GROWTH RATE: FAST

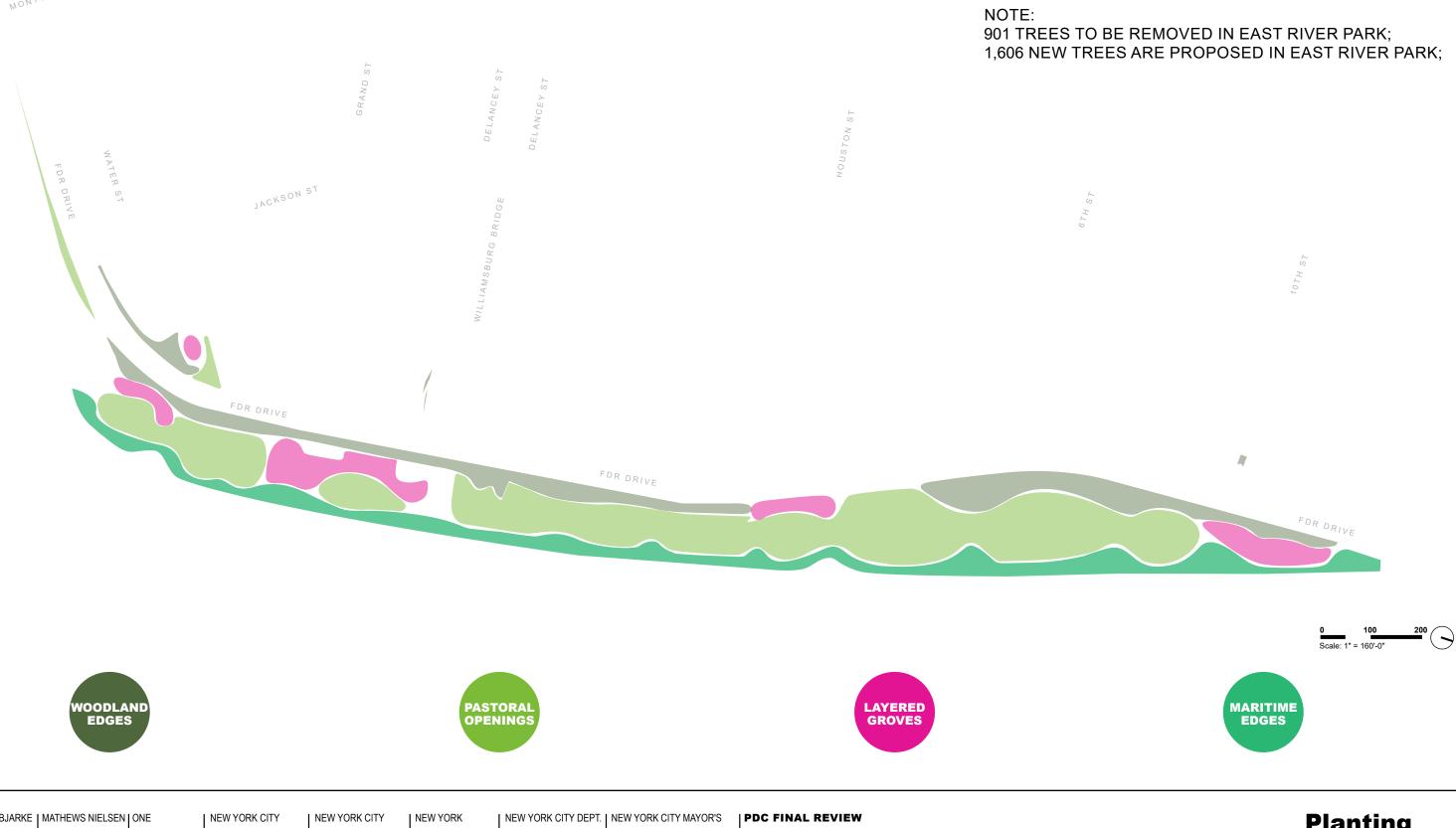
Gleditsia triacanthos Honey Locust

GROWTH RATE: MEDIUM

Shade Strategy Maritime Edge 152

DECEMBER 16, 2019

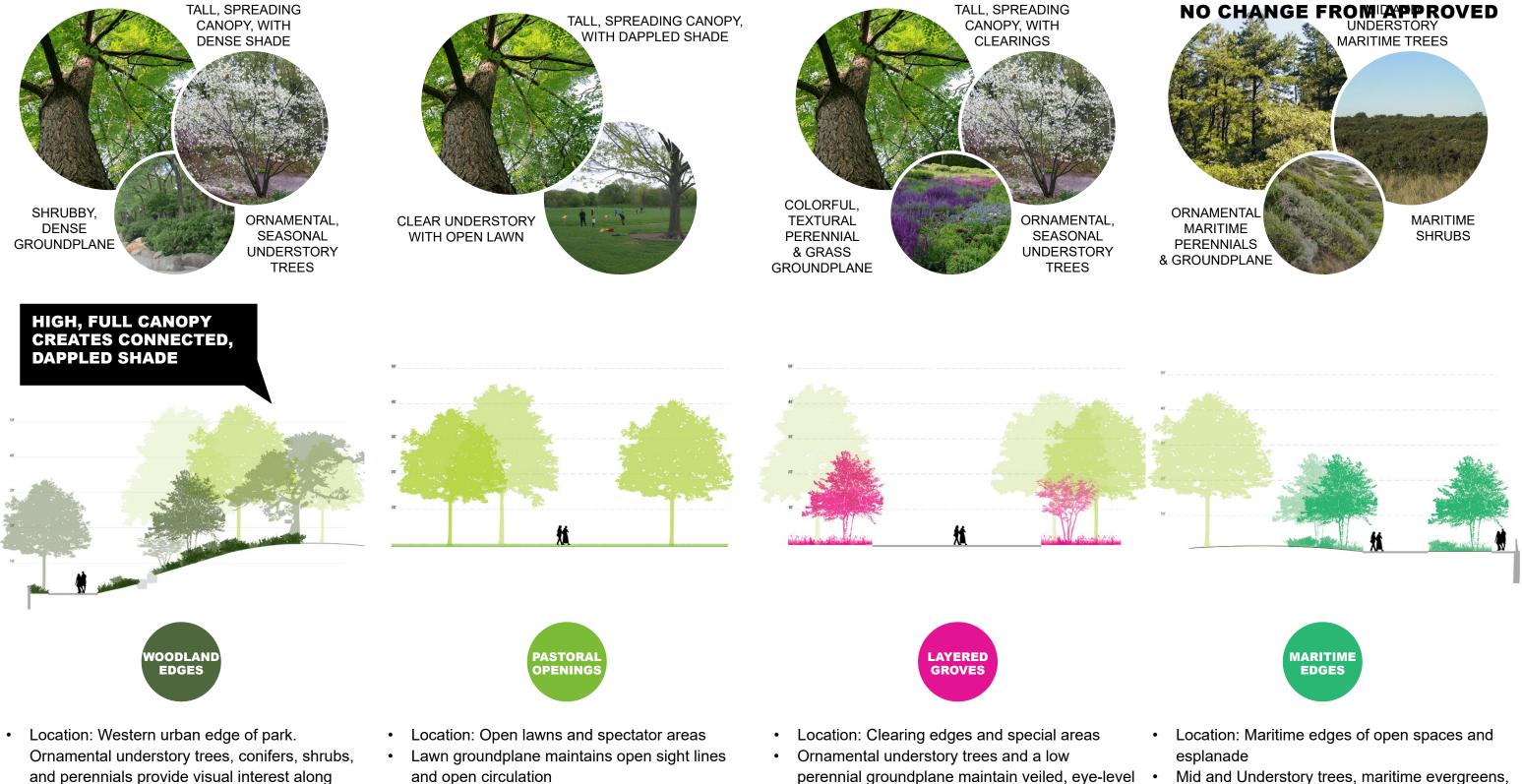
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MONTGOMERY ST

NO CHANGE FROM APPROVED

Planting Key Plan PA1 153



Maintenance: Trees, lawn

Maintenance: Trees, garden beds

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paths and slopes while buffering views

Maintenance: Trees, shrubs, groundcovers

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DECEMBER 16, 2019

sight lines



- Mid and Understory trees, maritime evergreens, shrubs, and grasses provide shade and interest along the river edge
- Maintenance: Trees, shrubs, grasses •

Planting Spatial Concept PA1 154



Catalpa speciosa Catalpa

TREES

SHRUBS



Gleditsia triacanthos Honey Locust



llex opaca American Holly



Metasequoia glyptos. Dawn Redwood



Nyssa sylvatica Blackgum



Pinus rigida Pitch Pine



Ulmus Americana 'Princeton' Princeton Elm



Aronia melanocarpa

Black chokeberry

Rosa carolina

Carolina Rose



Pinus virginiana Virginia Pine





Quercus alba White Oak



Quercus rubra Northern Red Oak



Prunus maritima **Beach Plum**





Viburnum dentatum Southern Arrowwood





Ceanothus americanus

New Jersey Tea

Rosa virginiana Virginia Rose



Clethra alnifolia

Morella penslyvanica Northern Bayberry



N. Bush Honeysuckle

Diervilla lonicera

Rhus copallinum Winged Sumac



Rhus typhina Staghorn Sumac

Eragrostis spectabilis

Purple Lovegrass



Liatris spicata Blazing Star



Sporobolus cryptandrus Sand Dropseed

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Baptisia australis





Panicum amarum, Bitter Panicgrass 'Dewey Blue'



Bouteloua curtipendula Sideoats Grama



Pycnanthemum mutic. Mountain Mint





Little Bluestem



Eutrochium dubium Coastal Joe Pye Weed



Schizachyrium scoparium Solidago sempervirens Seaside Goldenrod

Solidago juncea Early Goldenrod



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- Location: Edges of open spaces and esplanade ٠
- Mid and Understory trees, maritime evergreens, ٠ shrubs, and grasses provide shade and interest along the river edge
- Maintenance: Trees, shrubs, grasses ٠



Aesculus octandra Yellow Buckeye



Betula nigra 'Heritage' Heritage River Birch



Cercis canadensis Eastern Redbud



Crategus crus-galli iner. Cockspur Hawthorne



Gymnocladus dioica Kentucky Coffee Tree



Liquidambar styraciflua Sweetgum



Syringa vulgaris



SHRUBS

GROUNDCOVERS



Magnolia Virginiana Sweetbay Magnolia

Amorpha frutiosa

False indigo bush

Hydrangea tardiva

Panicle Hydrangea

Amsonia hubrichtii

Hubricht's Bluestar

Mertensia virginica

Virginia bluebells



Malus 'Royal Raindrops' Crabapple Royal Raindrops

Calicarpa americana

Beautyberry

Itea virginica

Virginia Sweetspire

Anemone canadensis

Canada anemone

Monarda punctata

Spotted Beebalm



Prunus serrulata 'Mt Fuji' Flowering Cherry

Comptonia peregrina

Sweetfern

llex glabra

Inkberry



Prunus x yed. 'Akebono' Flowering Cherry



Quercus phellos Willow Oak



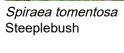


Hydrangea quercifolia Oakleaf Hydrangea











Hibiscus coccineus Scarlot Rose Mallow



Symphyotrichum noviangelli New Eng. Aster

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Panicum virgatum Ruby

Ribbons Switchgrass

Asclepias incarnata

Swamp Milkweed

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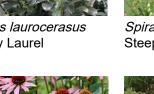




Prunus laurocerasus

Echinacea purpurea

Purple Coneflower





Asclepias tuberosa Butterfly Milkweed



Phlox paniculata Rudebeckia hirta Garden Phlox Black-Eyed Susan

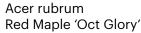
GROUP ARCHITECTS, P.C.





- Location: Clearing edges and special areas ٠
- Ornamental understory trees and a low ٠ perennial groundplane maintain veiled, eye-level sight lines
- Maintenance: Trees, garden beds ٠







Amelanchier canadensis Carya ovata Serviceberry



Shagbark Hickory



Cornus florida Dogwood



Ginko biloba Ginko



Sassafras albidum Sassafras



Liriodendron tulipifera Tulip Poplar



Bald Cypress





Ostrya virginiana Hop Hornbeam



Quercus bicolor Swamp White Oak

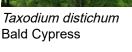


Scarlet Oak



Quercus nuttalli Nutall Oak





SHRUBS



Lindera glauca **Greybush Spicebush**



Cornus sericea

Rubus allegheniensis Blackberry



Hammelis vernalis **Ozark Witch Hazel**



Hammelis virginiana Witch Hazel

Lowbush Blueberry



Lindera benzoin Spicebush



Viburnum acerifolium Mapleleaf Virburnum



llex verticillata Inkberry



Viburnum dentatum Southern Arrowwood



Ajuga reptans Bungleweed



Galium odoratum Sweet Woodruff



Carex pensylvanica Pennsylvania Sedge



Geranium macrorrhi*zum* Bigroot Geranium Carex albicans

White-Tinged Sedge

Highbush Blueberry

Vaccinium corymbosum Vaccinium angustif.



Pynanthemum tenuif. Slender Mountain Mint

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PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT**

NEW YORK CITY MAYOR'S

DECEMBER 16, 2019





- Location: Western urban edge of park. ٠ Ornamental understory trees, conifers, shrubs, and perennials provide visual interest along paths and slopes while buffering views
- Maintenance: Trees, shrubs, groundcovers ٠

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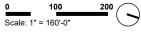
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Planting Key Plan PA2 158





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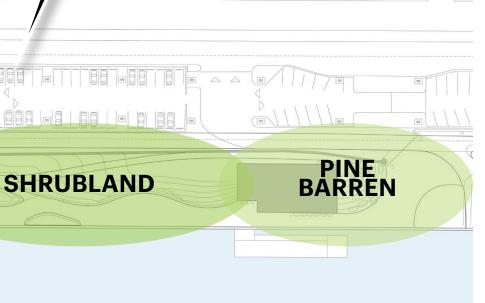
80 WET MEADOW GRASSLAND WOODLAND

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Stuyvesant Cove Planting Spatial Concept 159



Acer rubrum



Amalanchier laevis



Celtis ocidentalis



Gleditsia triacanthos



Juniperus virginiana



Nyssa sylvatica

Pinus rigida





Pinus virginiana



Quercus bicolor



Quercus coccinea



Quercus nuttallii



Quercus palustris



Rhus typhina

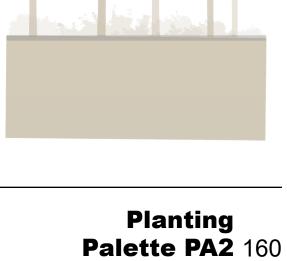
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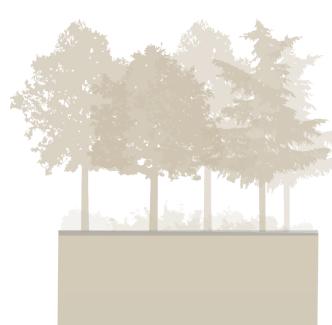
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Hydrangea quericifolia Vibernum acerfolium Pee Wee

Ageratina altissima

Dicentra cucullaria



PERENNIALS





Anemone virginana

Geranium maculatum



Carex pensylvatica

Penstemon calycosus

Heuchera Americana



Deschampsia flexuosa

Aster prenanthoides

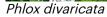


Panicum virgatum 'Ruby Ribbons'











Tradescantia virginiana







Amsonia hubrichtii

Eurybia divaricata



Tradescantia ohiensis



Viola labradorica



Viola sororia

Pynanthemum



Pynanthemum tenuifolium

Tiarella cordifolia



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Asclepias incarnata



Juncus effusus





Equisetum hyemale



Panicum virgatum 'Ruby Ribbons'



Eutrochium dubium



Anemone canadensis

Aquilegia canadensis





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Echinacea purpurea

Iris versicolor



Verbena hastata



Vernonia noveboracensis



Lobelia cardinalis^



Zizia aurea*

*Solar1 Plant List (2016) ^Short-Lived

PERENNIALS

GRASSES

Monarda didyma

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Monarda punctata

Onoclea sensibilis

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Planting Palette PA2 162





WET MEADOW



GRASS



Panicum virgatum



 (\mathbf{x})

Carex albicans



Carex pensylvanica

Sporabolis

cryptanandrus



Chasmanthium latifolium



Sporabolis heterolepis



Deschampsia cespitosa



Sorghastrum nutans



Deschampsia flexuosa

Amsonia hubrichtii



Eryngium yuccifolium

Monarda fistulosa

Symphyotrichum

novi-belgii

Eutrochium purpureum*



Phlox paniculata



Symphyotrichum oblongifolium*





Geum triflorum*





Rudbeckia fulgida*

Zizia aptera* / aurea*



Solidago juncea



Baptisia australis



Helianthus decapetalus Liatris aspera



Solidago rigida*



Echinacea purpurea*



Liatris scariosa novae angliae*



Symphyotrichum novi-angelli*

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Panicum virgatum Ruby Ribbons





Phlox divaricata



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Solidago sempervirens*

INGELS

Schizachyrium

Amsonia hubrichtii

scoparium



Asclepias verticillata*

Sporabolis heterolepis

Physostegia virginiana* Pynanthemum



tenuifolium*





Rudbeckia fulgida* /

Aster prenanthoides





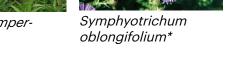
Solidago odora



Monarda punctata*



Solidago graminfolia*



Zizia aptera* / aurea*

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Acer rubrum

6

SMA



Quercus rubra



Quercus phellos

Celtis ocidentalis



Gleditsia triacanthos



Ilex opaca `Jersey Queen`



Liquidambar rotundiloba



Quercus bicolor



Quercus coccinea

Amelanchier canadensis `Autumn Brilliance`



Chionanthus retusus



Magnolia Virginiana



Prunus serrulata 'Mt. Fuji'

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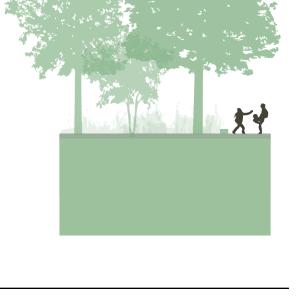
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CANOPY TREES FOR PLAYGROUND SHADE













Hydrangea quericifolia llex glabra Pee Wee

HRUBS



`Otto Luyken`







gro-low`





Chasmanthium latifolium

Echinacea purpurea

OFFICE OF RESILIENCY





Geranium maculatum



Asclepias tuberosa*



Carex pensylvatica

Monarda punctata



Schizachyrium scoparium

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