# **East Side Coastal Resiliency SANDRESM1**

## **Final Review Public Design Commission**

December 16, 2019









## **PRESENTATION CONTENTS**

## **1. SITE DESIGN: PROJECT AREA 1 (PA1)**

## 2. SITE DESIGN: PROJECT AREA 2 (PA2)

**3. SITE ELEMENTS** 

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

2

## **PRESENTATION CONTENTS**

## **1. SITE DESIGN: PROJECT AREA 1 (PA1)**

## 2. SITE DESIGN: PROJECT AREA 2 (PA2)

**3. SITE ELEMENTS** 

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK
 NEW YORK
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

3

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



#### PA1 Site Design Existing Conditions 4

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

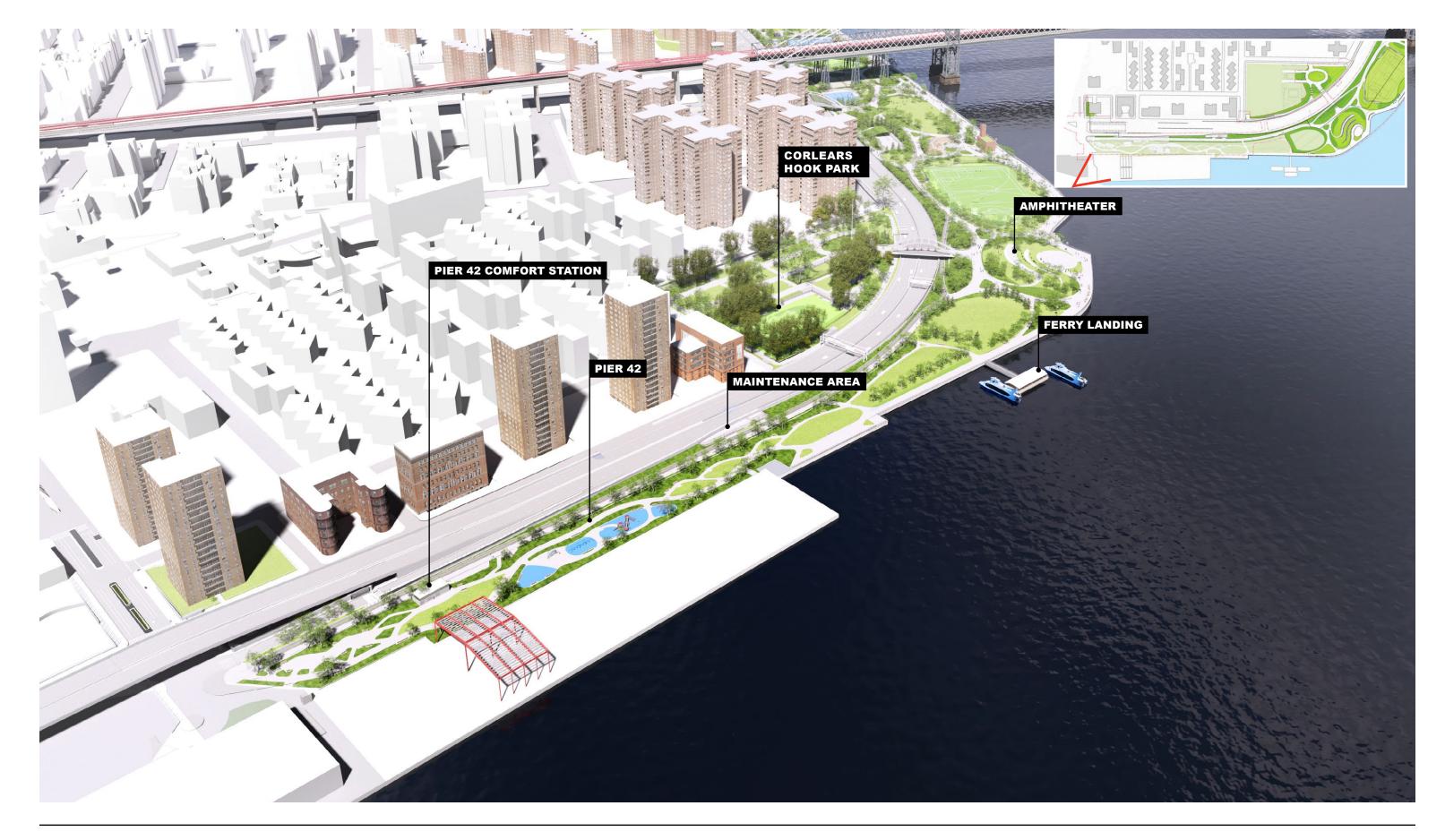
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



## PA1 Site Design Final Review



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

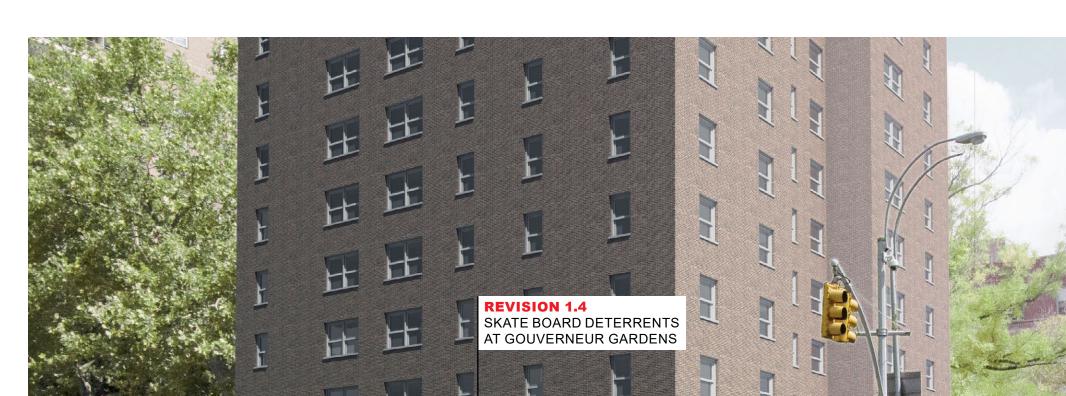
DECEMBER 16, 2019

## **Reaches A-C 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 INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

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

**REVISION 1.4** SKATE BOARD DETERRENTS AT GOUVERNEUR GARDENS Ĩ T



DECEMBER 16, 2019



#### **Montgomery Street Tie-Back Gate Open Final Review**

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

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

#### **Montgomery Street Tie-Back Gate Closed Final Review**

FT **REVISION 1.4** SKATE BOARD DETERRENTS AT GOUVERNEUR GARDENS T

DECEMBER 16, 2019





AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

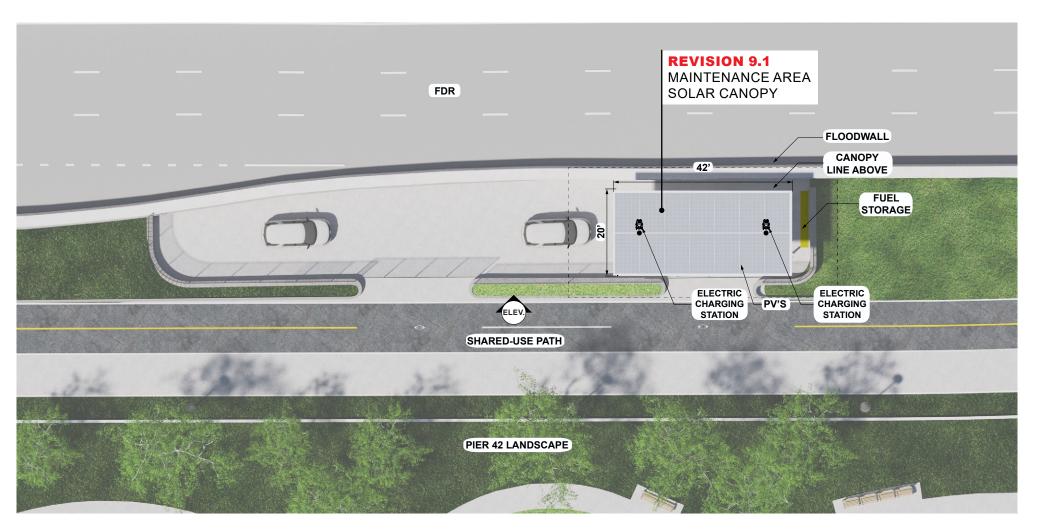
NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY MAYOR'S NEW YORK CITY DEPT. OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

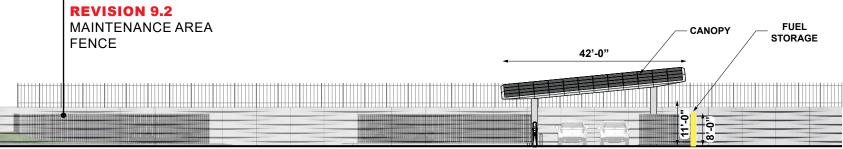
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

DECEMBER 16, 2019

#### Manhattan Greenway Final Review







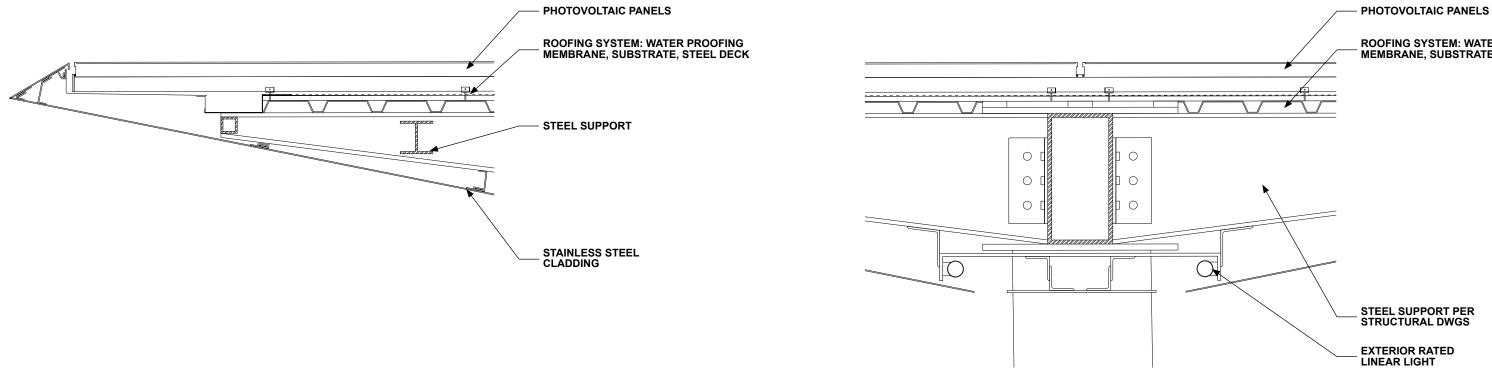
#### **Pier 42 Maintenance Area Elevation**

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND OFFICE OF RESILIENCY INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

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

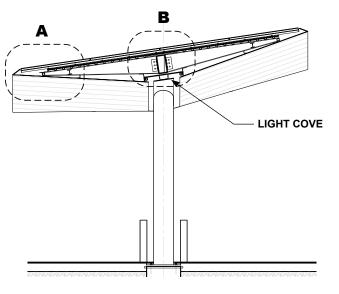
DECEMBER 16, 2019

#### **Pier 42 Maintenance Area** Final Review 10

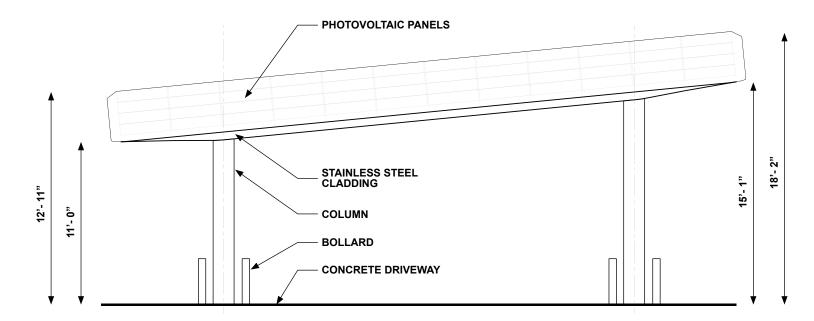


Detail A **Section at Canopy Edge** 

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



**East Section** 



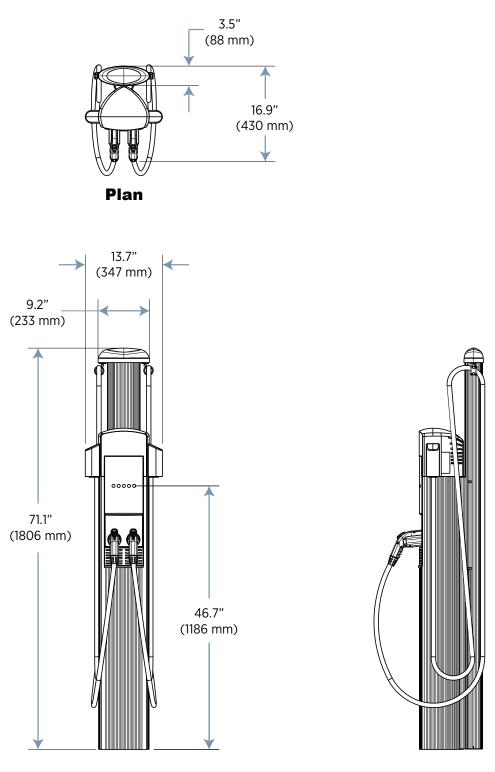
#### **South Elevation**

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

DECEMBER 16, 2019

## **Pier 42 Maintenance Area** Final Review 11

### ROOFING SYSTEM: WATER PROOFING MEMBRANE, SUBSTRATE, STEEL DECK



**Front Elevation** 

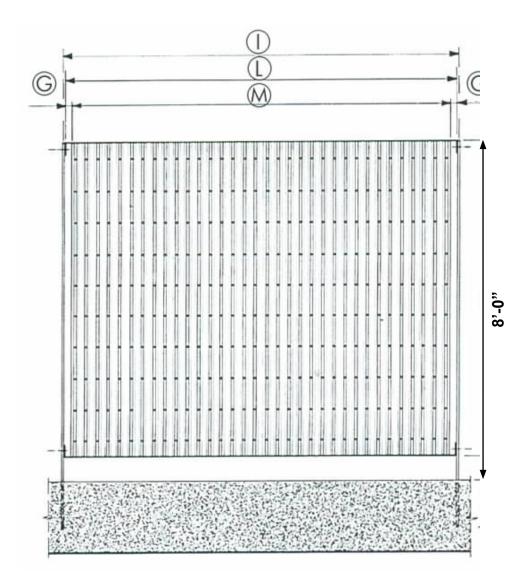
Side Elevation

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

DECEMBER 16, 2019

#### **Maintenance Area 3 EV Charging Station Pedestal Detail** 12





**Fence Appearance** 

**Fence Detail** 

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK CITY RECREATION

NEW YORK DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

#### **Pier 42 Maintenance Area** Talia Louver Style Fence13



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND

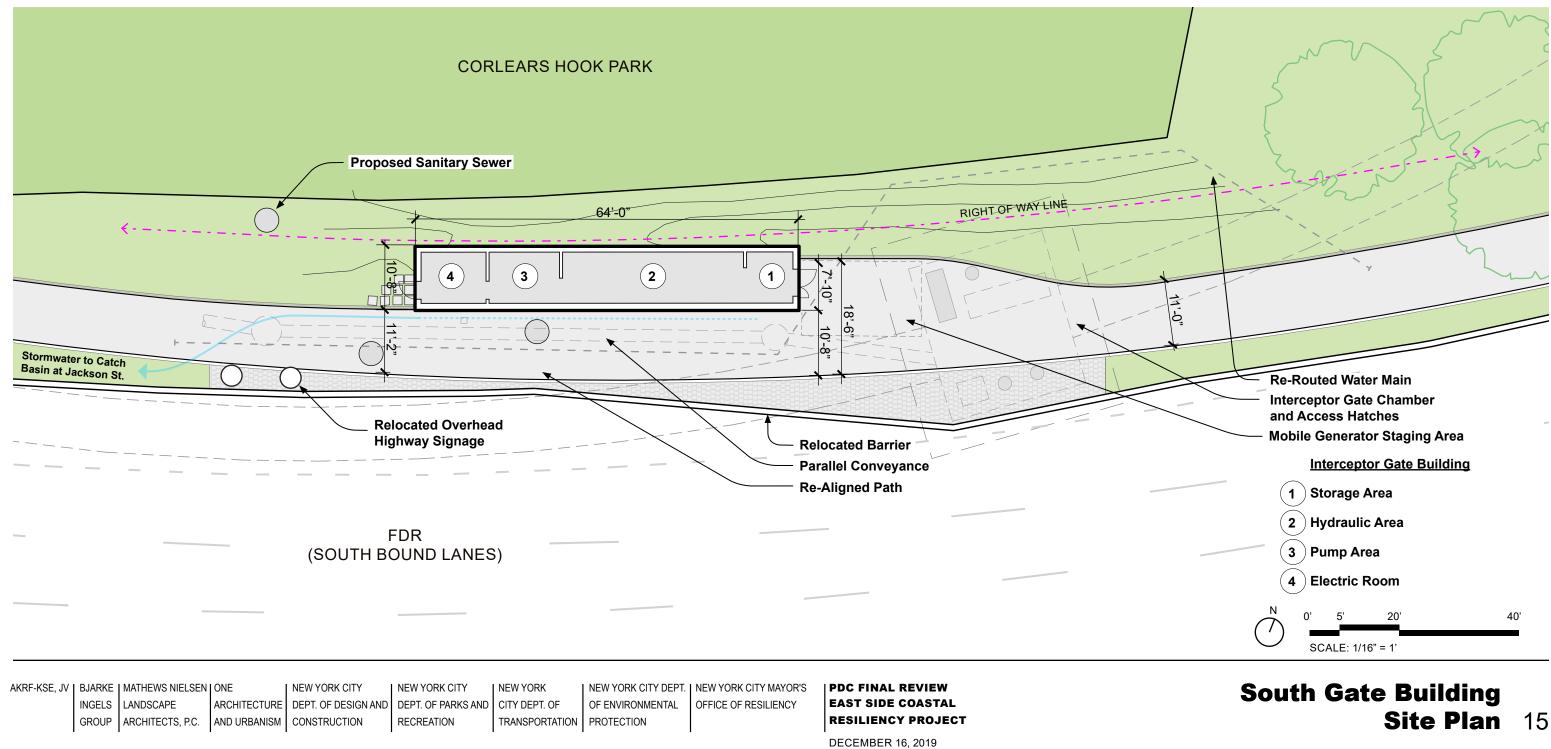
NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

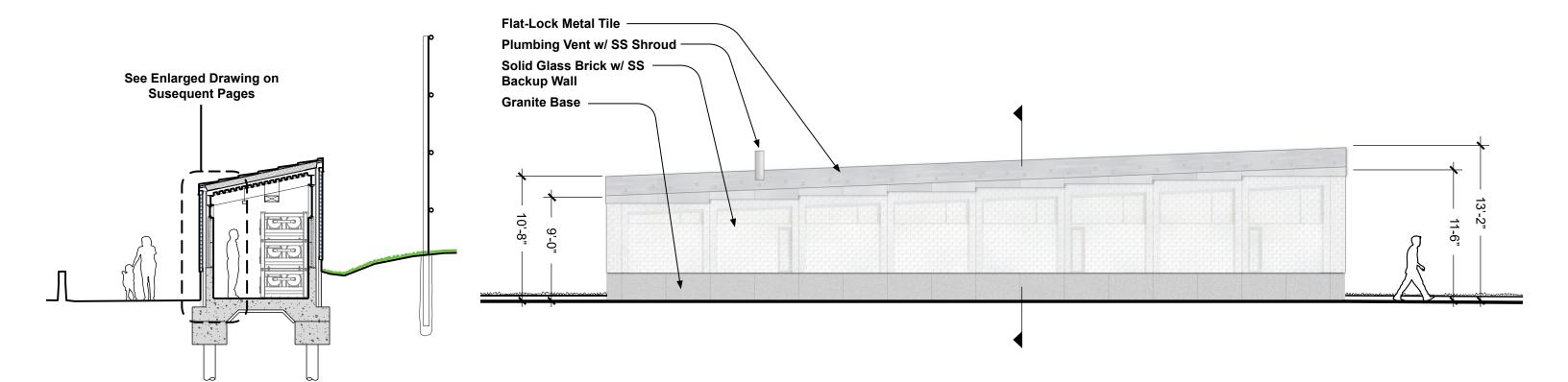
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

### **Pier 42 Maintenance Area Details** 14





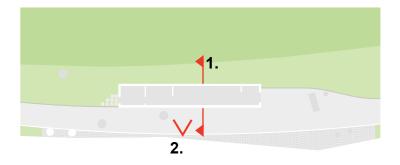


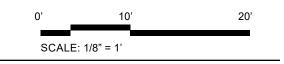
#### **1. CROSS SECTION**

#### 2. SOUTH ELEVATION

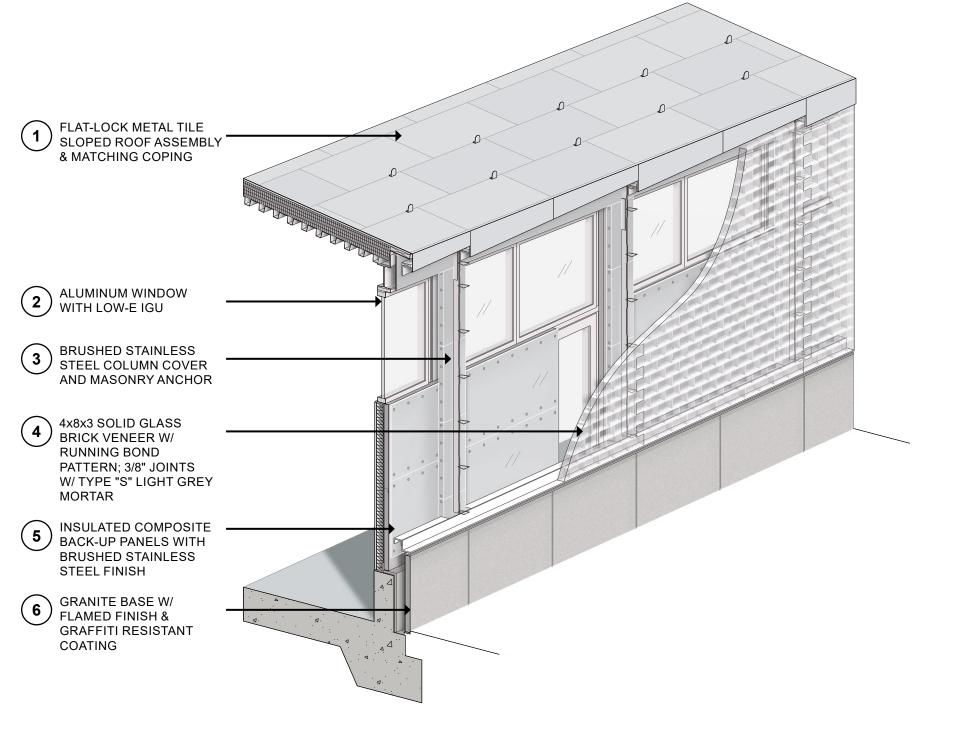
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL **RESILIENCY PROJECT**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

DECEMBER 16, 2019





#### South Gate Building Section & Elevation 16



#### **CUTAWAY AXONOMETRIC**

#### DETAILED RENDERED ELEVATION

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY DEPT.
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINA

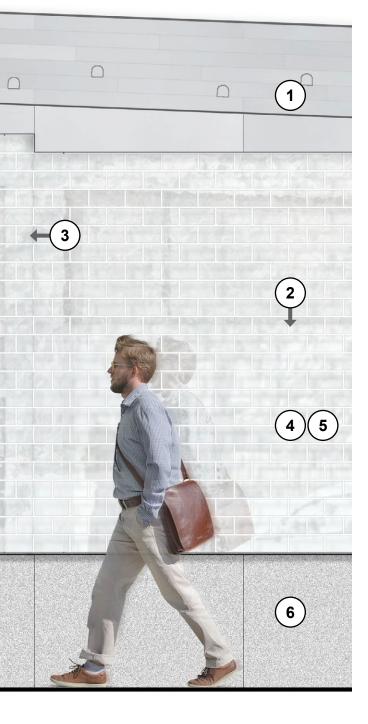
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SID

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

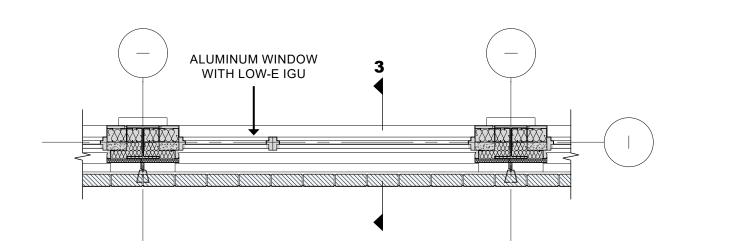
### South Gate Building Facade Detail 17



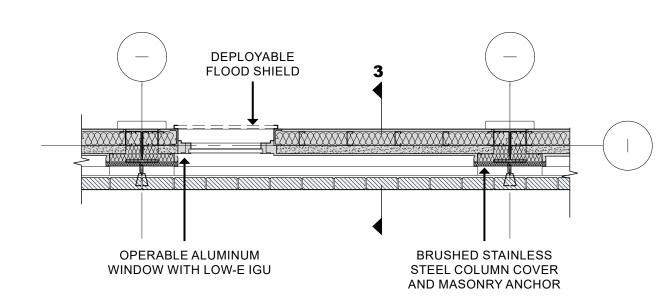
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY **RESILIENCY PROJECT**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

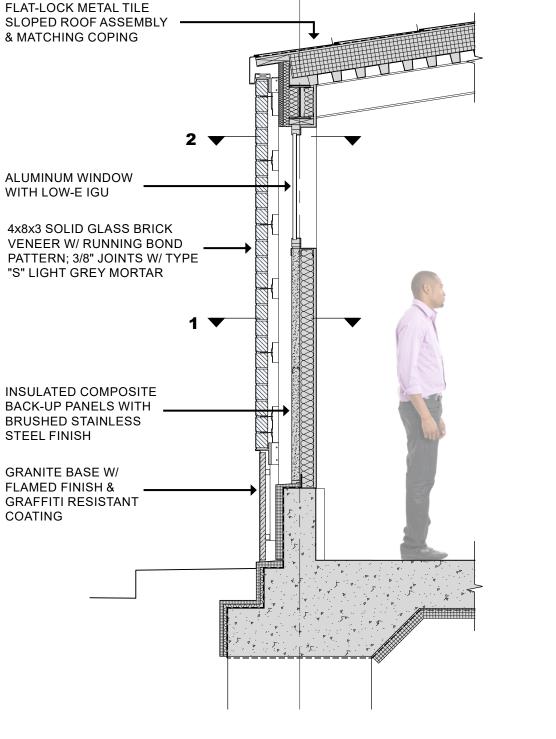
#### 2. TYPICAL WALL ASSEMBLY AT CLERESTORY WINDOW





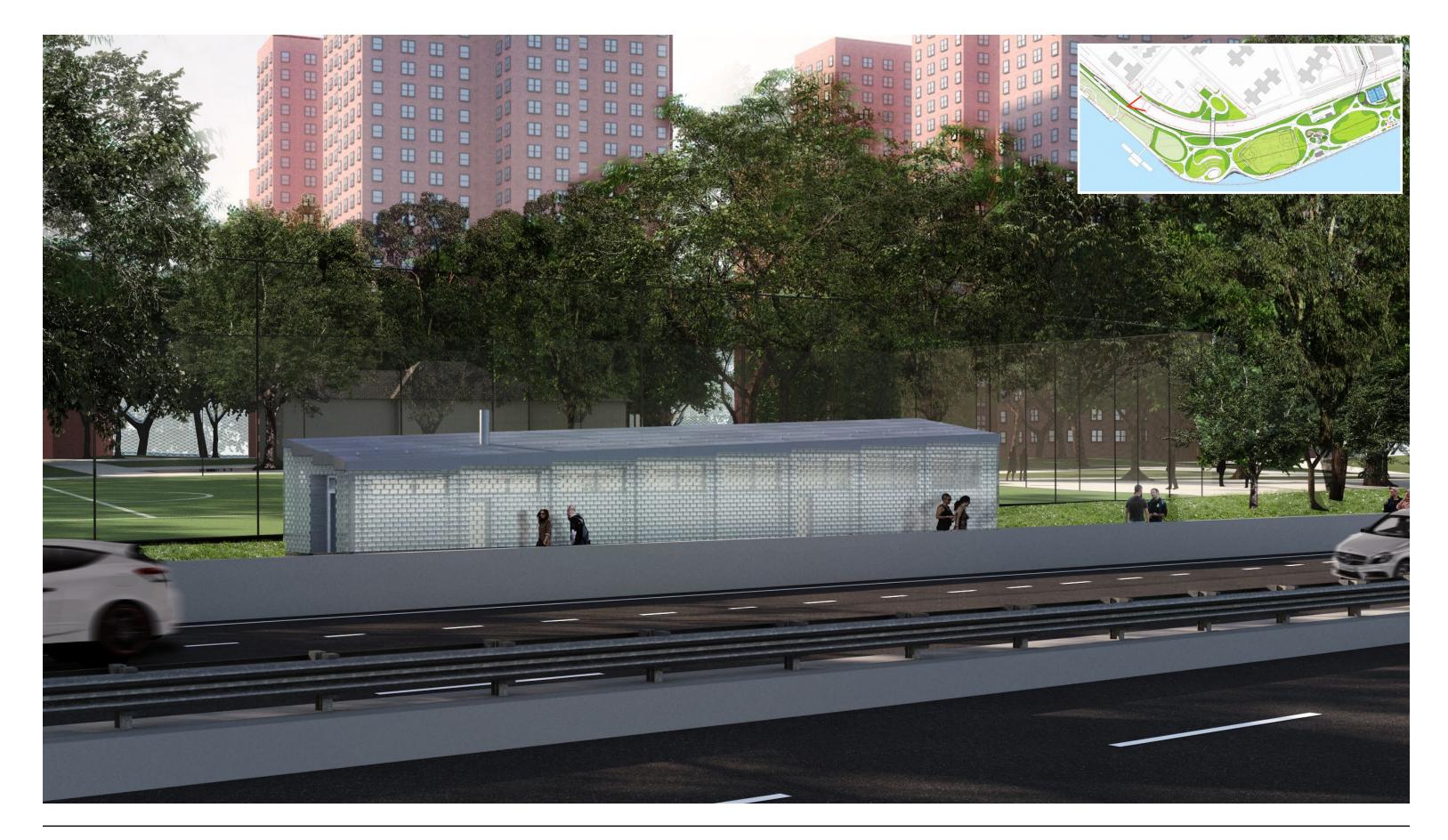
#### **1. TYPICAL WALL ASSEMBLY**





#### **South Gate Building** Plan and Section Details 18

**3. TYPICAL WALL SECTION** 



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

DECEMBER 16, 2019

#### **South Gate Building** View From Southwest 19

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 ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION



DECEMBER 16, 2019

#### Reaches C-E Final Review 20

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# Corlears Hook Bridge FDR View 21



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY DEPT. OF PARKS AND CITY DEPT. OF RECREATION

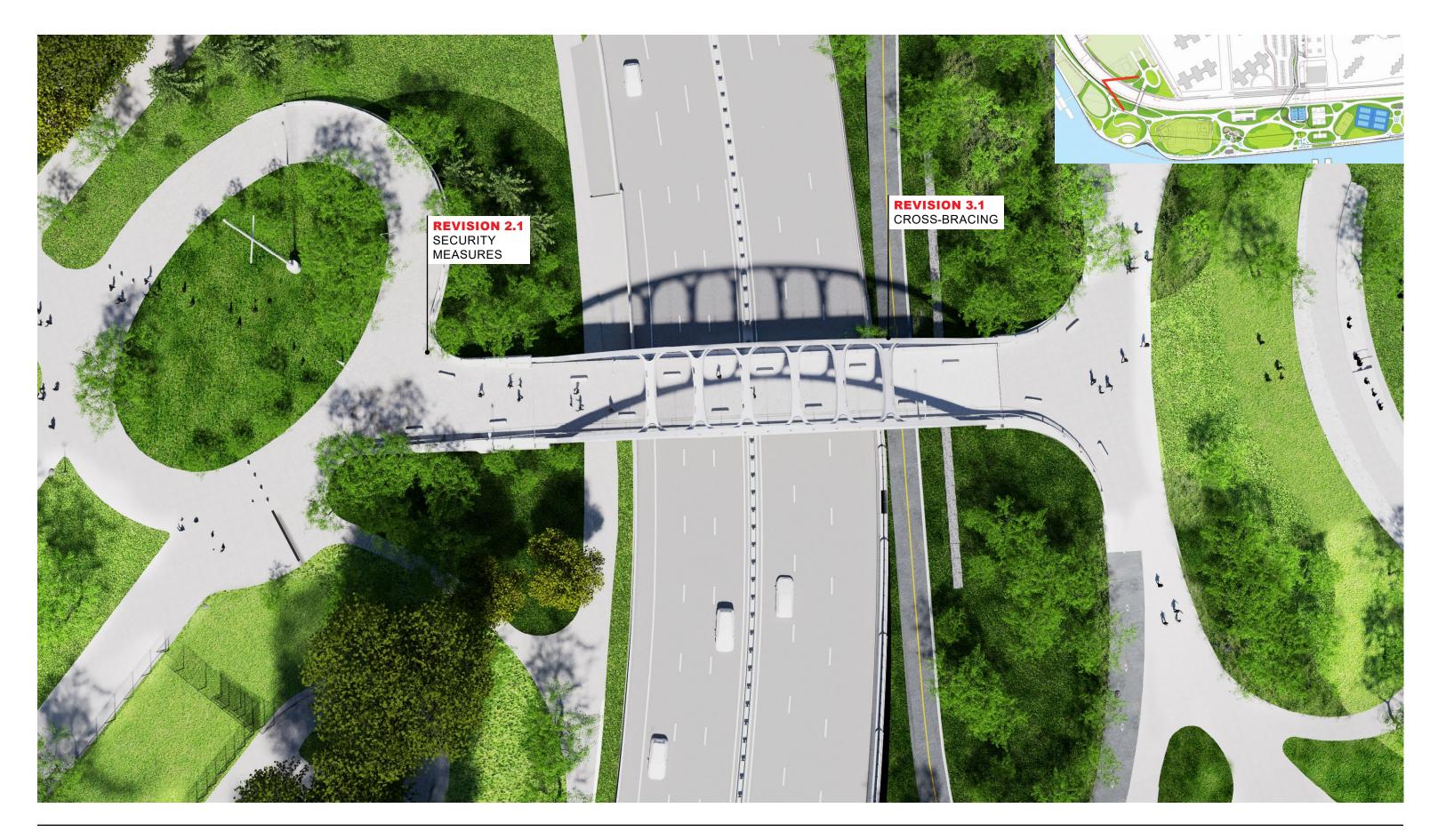
NEW YORK

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

# Corlears Hook Bridge On-Bridge View 22



AKRF-KSE, JVBJARKEMATHEWS NIELSENONENEW YORK CITYNEW YORK CITYNEW YORK CITYNEW YORK CITY DEPT.NEW YORK CITY MAYOR'SINGELSLANDSCAPEARCHITECTUREDEPT. OF DESIGN ANDDEPT. OF PARKS ANDCITY DEPT. OFOF ENVIRONMENTALOFFICE OF RESILIENCYGROUPARCHITECTS, P.C.AND URBANISMCONSTRUCTIONRECREATIONTRANSPORTATIONPROTECTIONOF ENVIRONMENTAL

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

## Corlears Hook Bridge Final Review 23

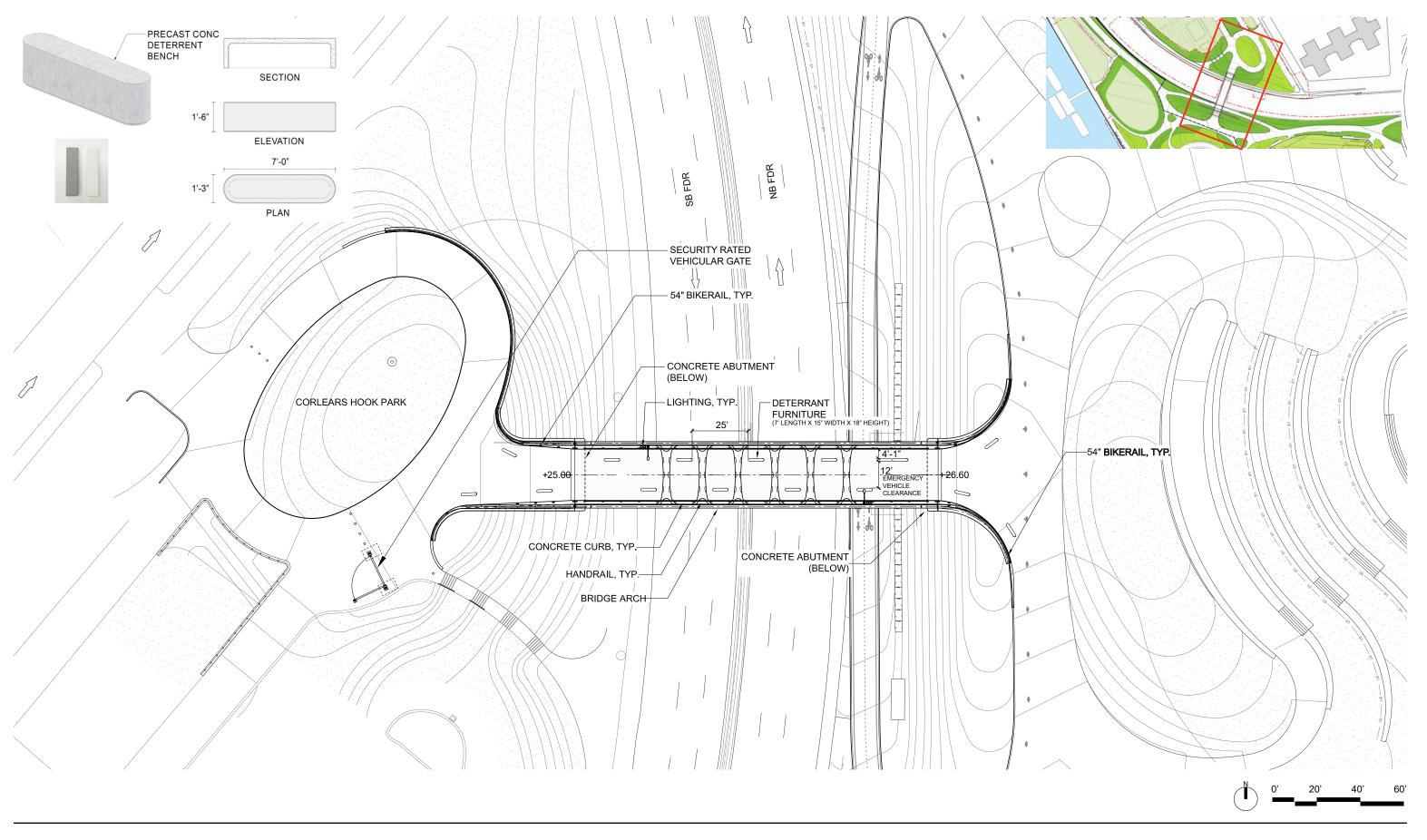
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

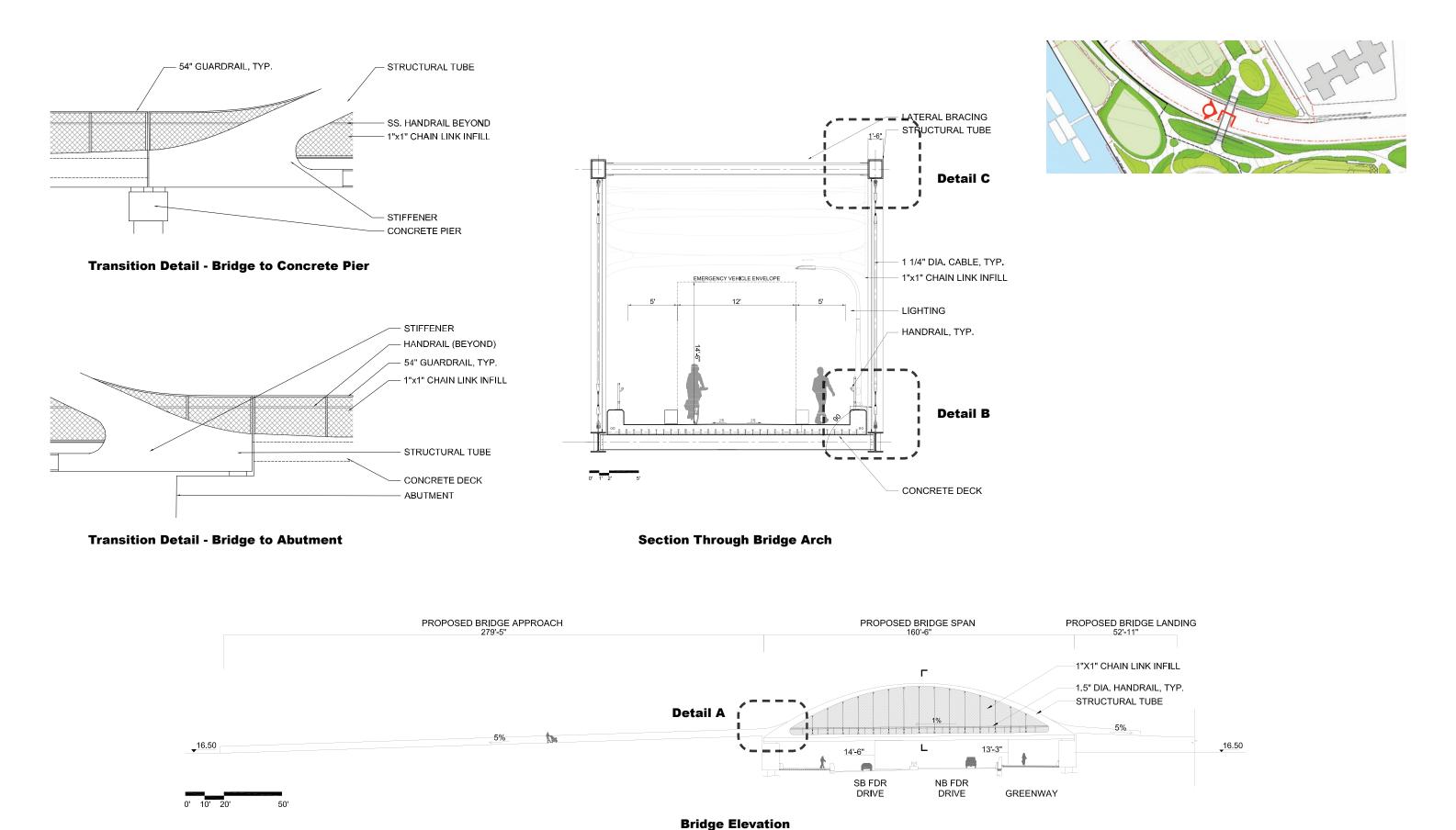
NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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



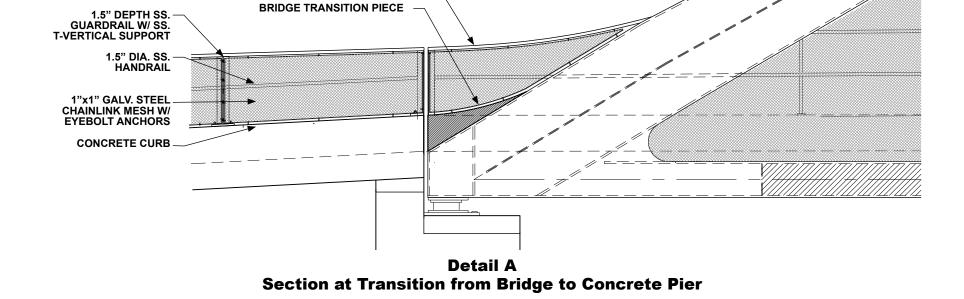
#### **Corlears Hook Bridge Enlargement Plan** 24



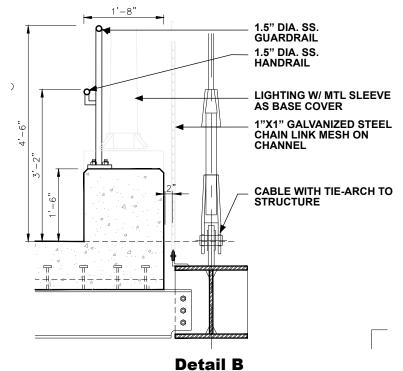
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S PDC FINAL REVIEW EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY **RESILIENCY PROJECT**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

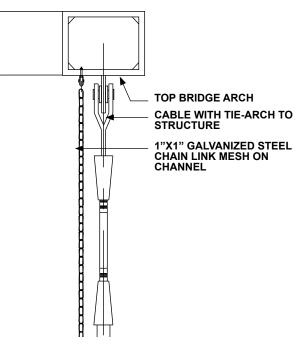
DECEMBER 16, 2019

#### **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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION



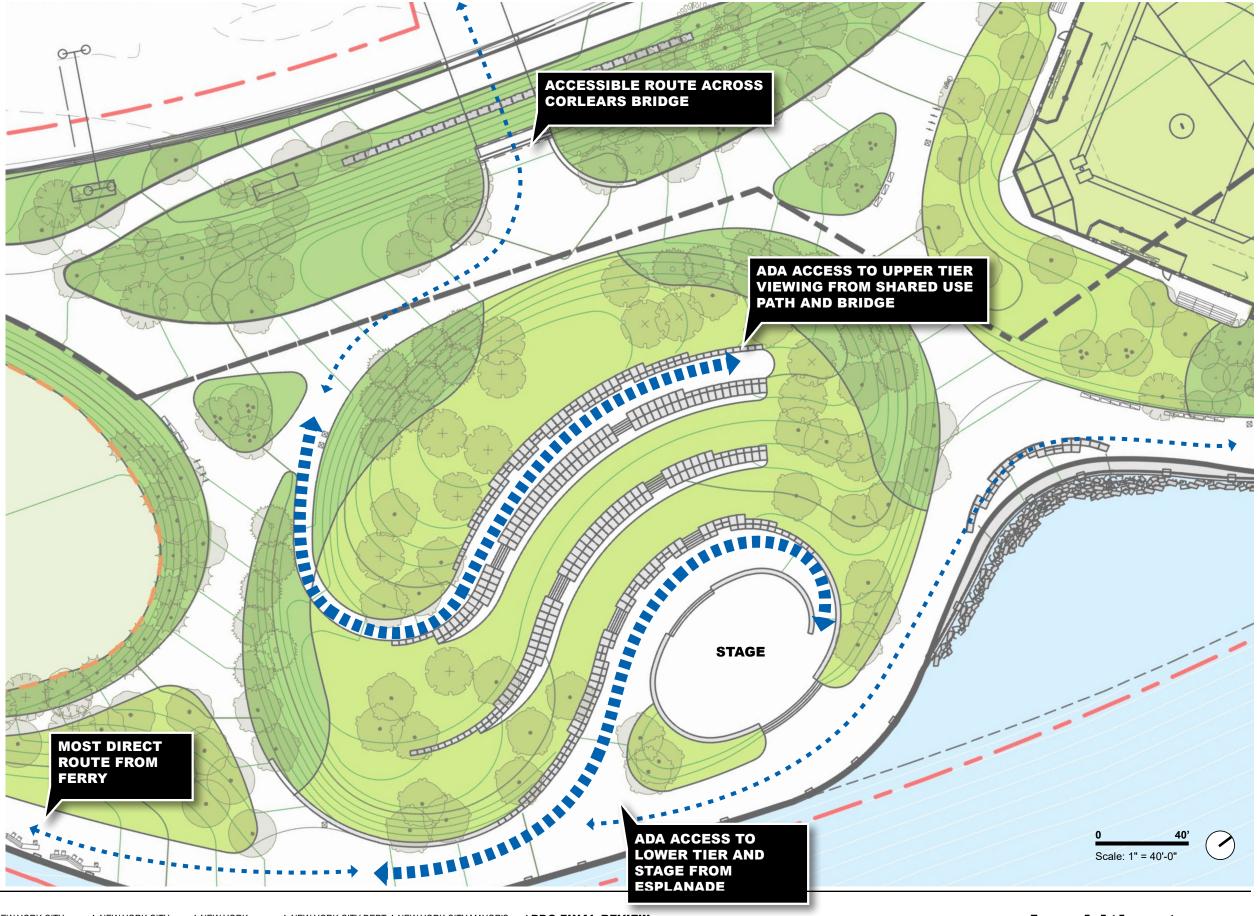
DECEMBER 16, 2019

to to to to



### Amphitheater **Final Review** 27





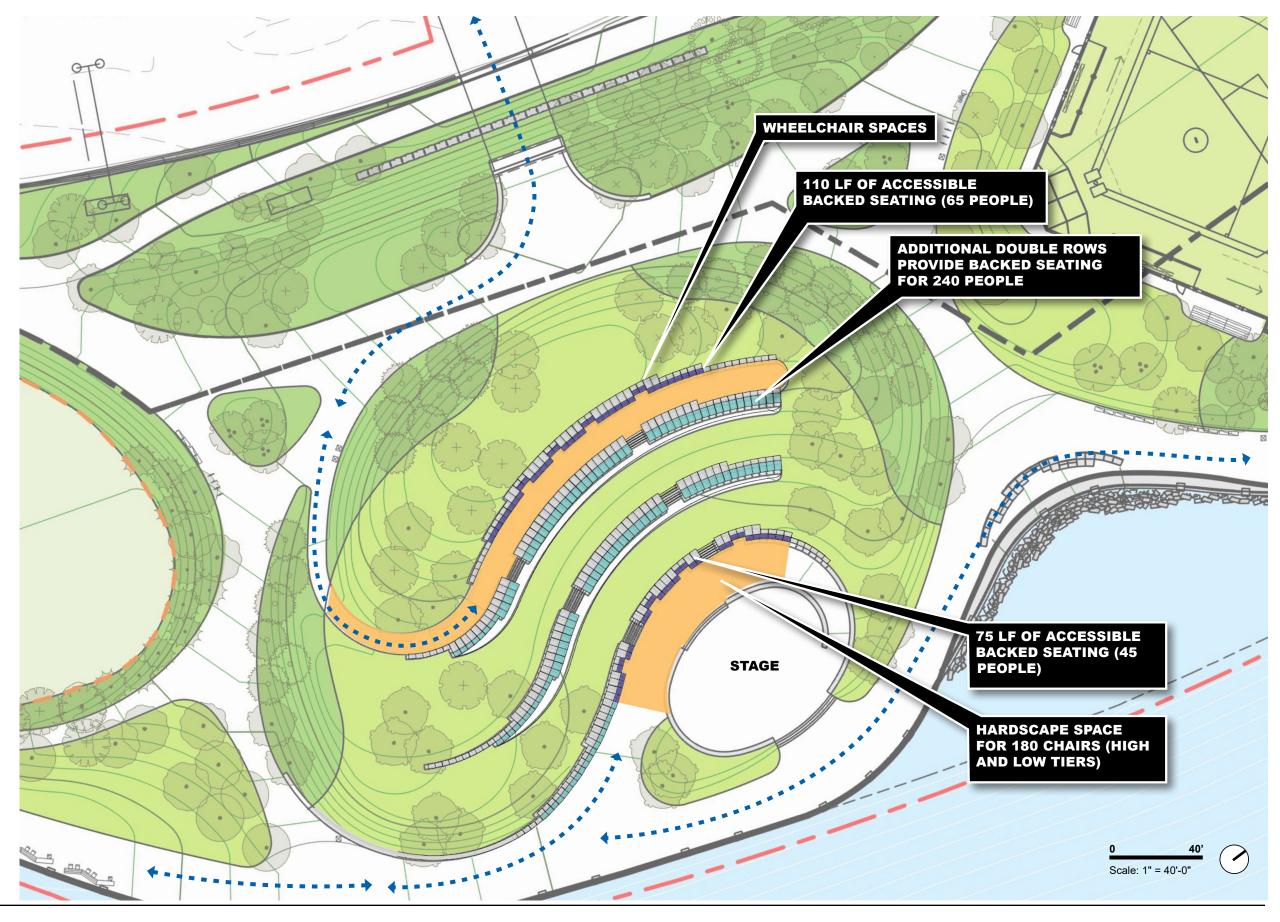
#### Amphitheater Accessibility 28

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW

NEW YORK CITY DEPT.NEW YORK CITY MAYOR'SOF ENVIRONMENTALOFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT





#### Amphitheater Seating 29

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND RECREATION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF

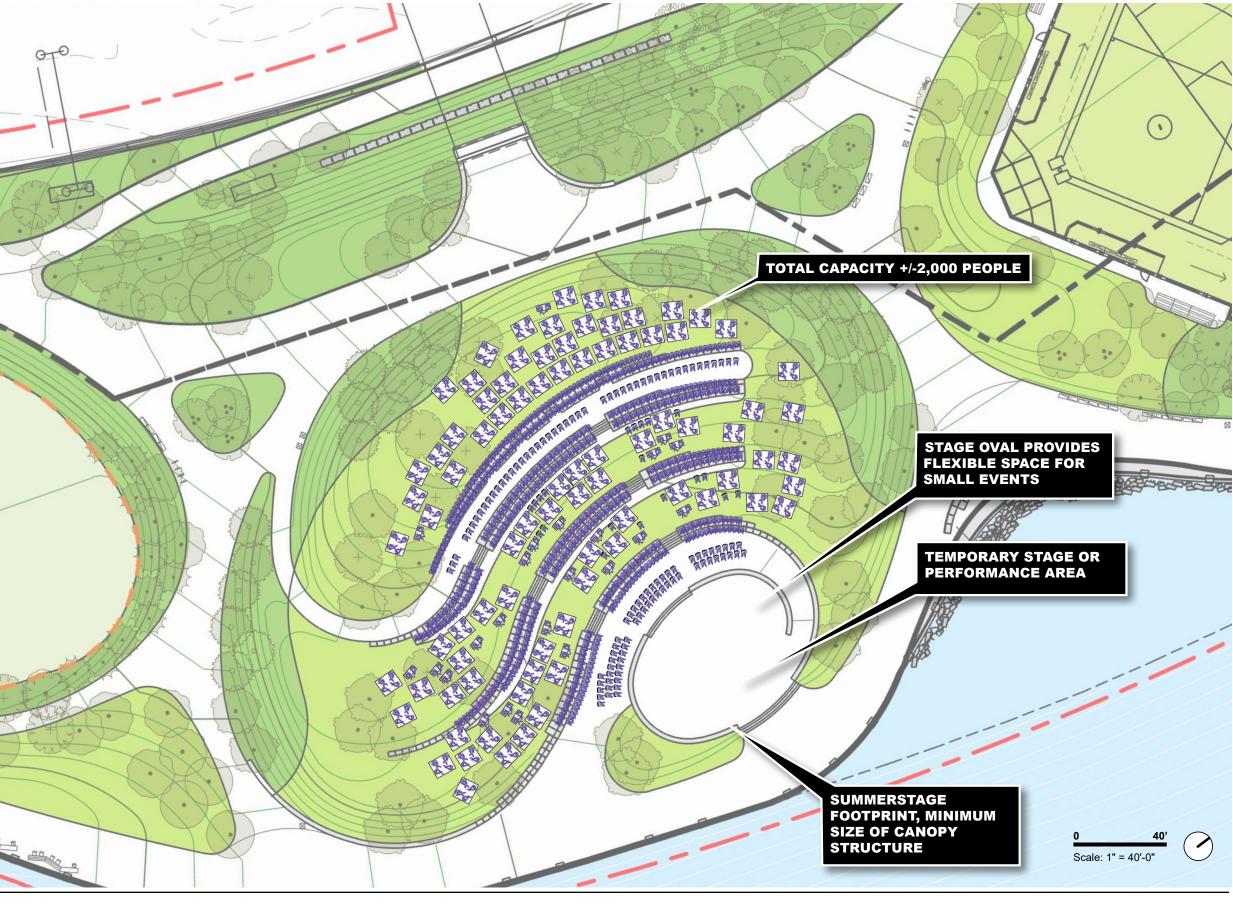
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

#### **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

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 ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION **RESILIENCY PROJECT** RECREATION





#### 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

DECEMBER 16, 2019

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

50' LAWN

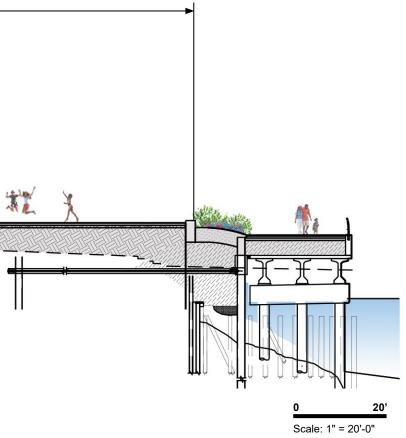
**85' AMPHITHEATER SEATING** 

**RESILIENCY PROJECT** 

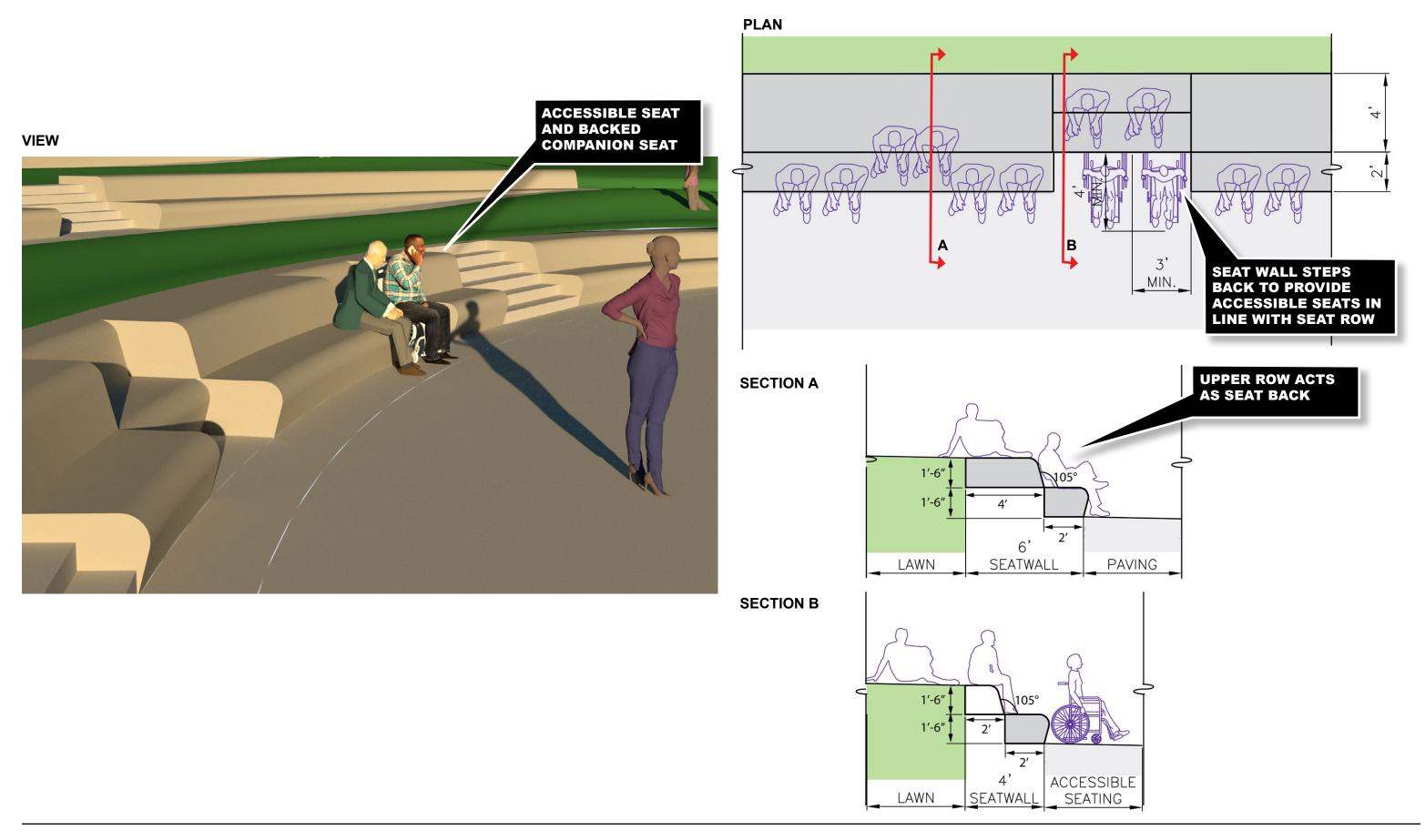


#### 55' STAGE

16' PATH



#### Amphitheater Section 32



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONM

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

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PROTECTION PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

#### Amphitheater Seating 33

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT





### **Corlears Hook Bridge Landing Final Review** 34

NEW YORK ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S

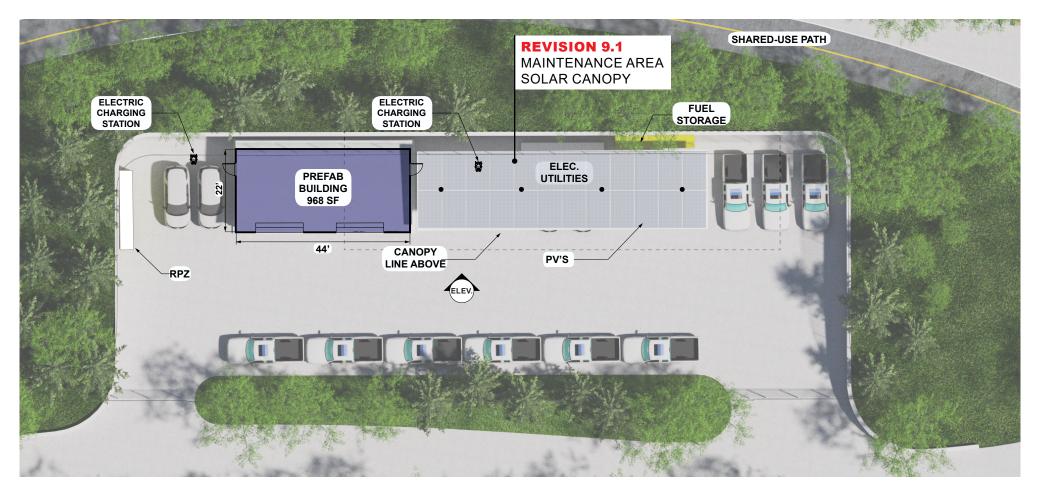
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

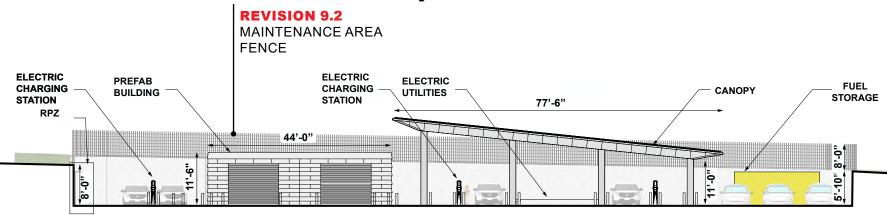


DECEMBER 16, 2019

# Nature Exploration Final Review 35



#### **Delancey Maintenance Area Plan**



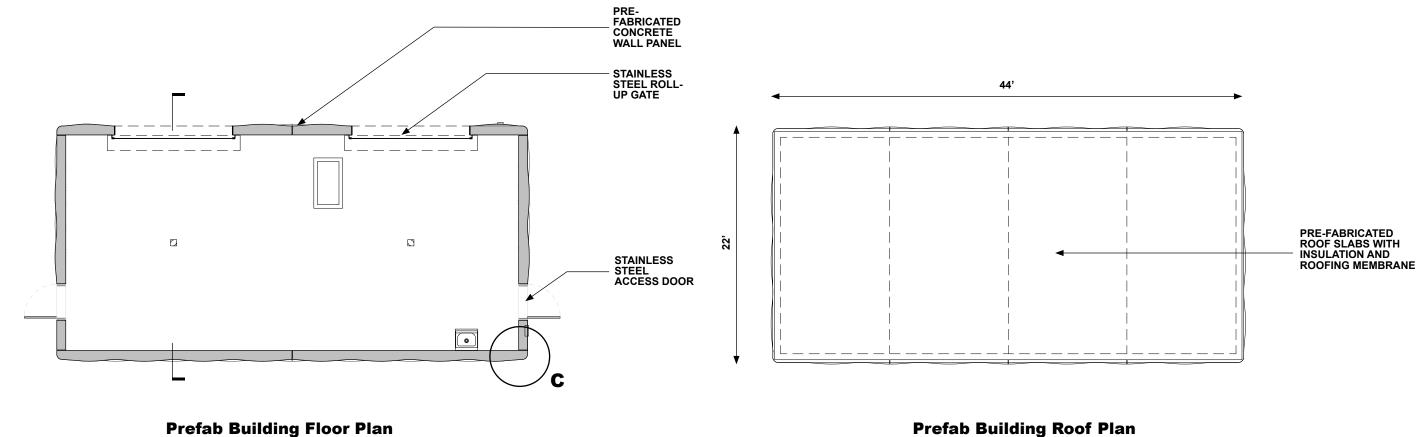
#### **Delancey Maintenance Area Elevation**

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND OFFICE OF RESILIENCY INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

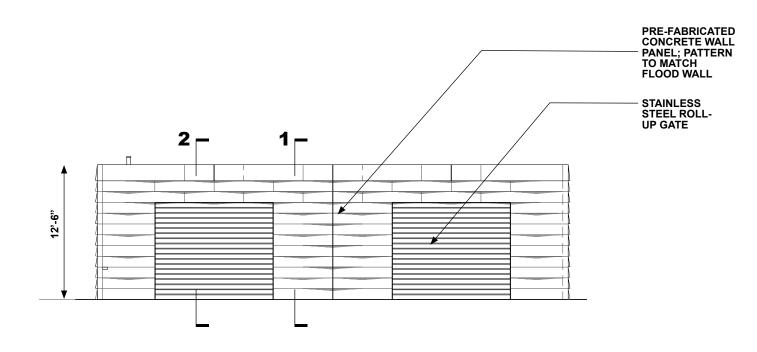
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

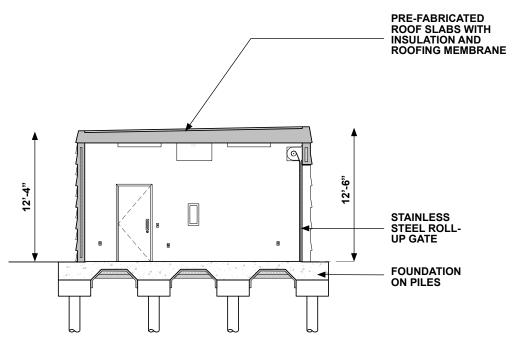
DECEMBER 16, 2019

### Maintenance Area 2 Final Review 36



### **Maintenance Area 2** Floor Plan / Roof Plan 37





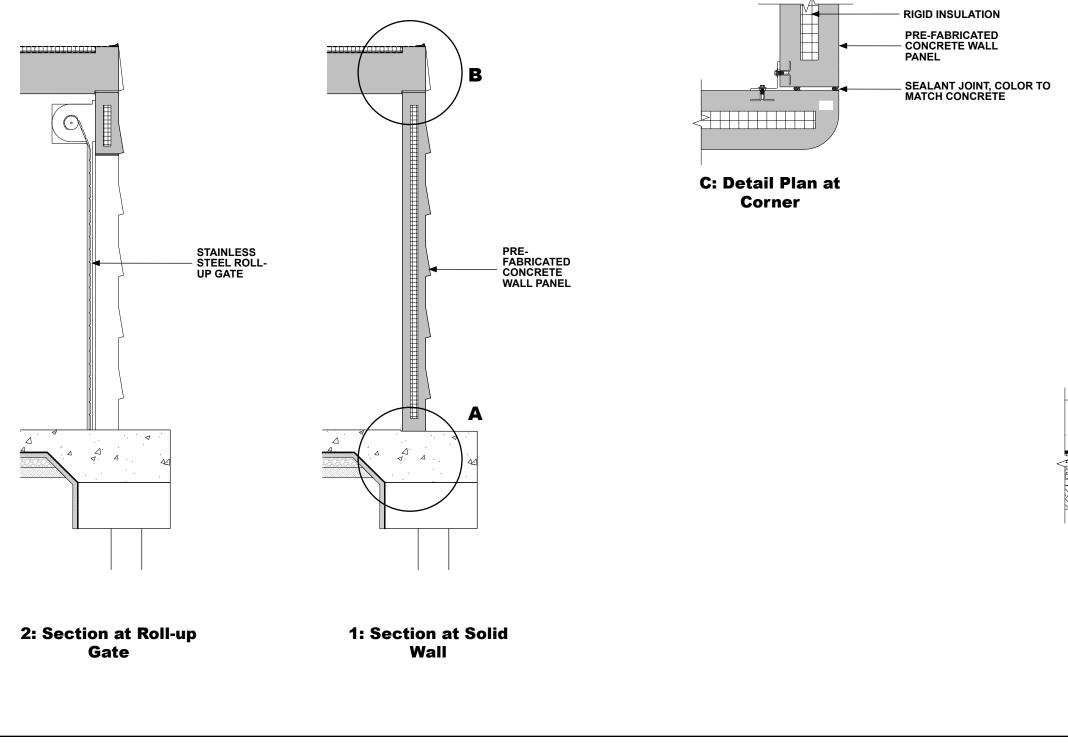
**Prefab Building Elevation** 

**Prefab Building Section** 

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 INGELS ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION **RESILIENCY PROJECT** RECREATION

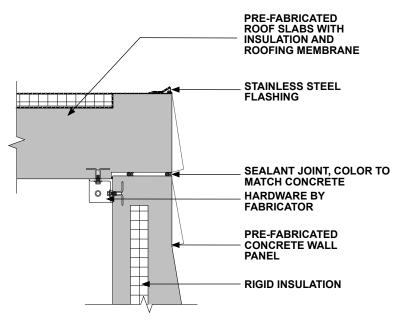
DECEMBER 16, 2019

### Maintenance Area 2 Elevation / Section 38

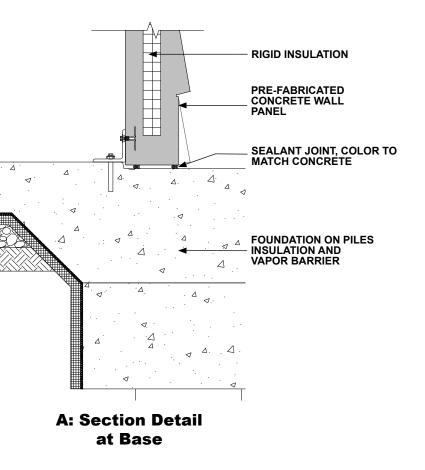


AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S PDC FINAL REVIEW OFFICE OF RESILIENCY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

EAST SIDE COASTAL **RESILIENCY PROJECT** 







## **Maintenance Area 2** Wall Details 39

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY

NEW YORK CITY NEW YORK ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# **Delancey Bridge Existing Condition** 40



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY

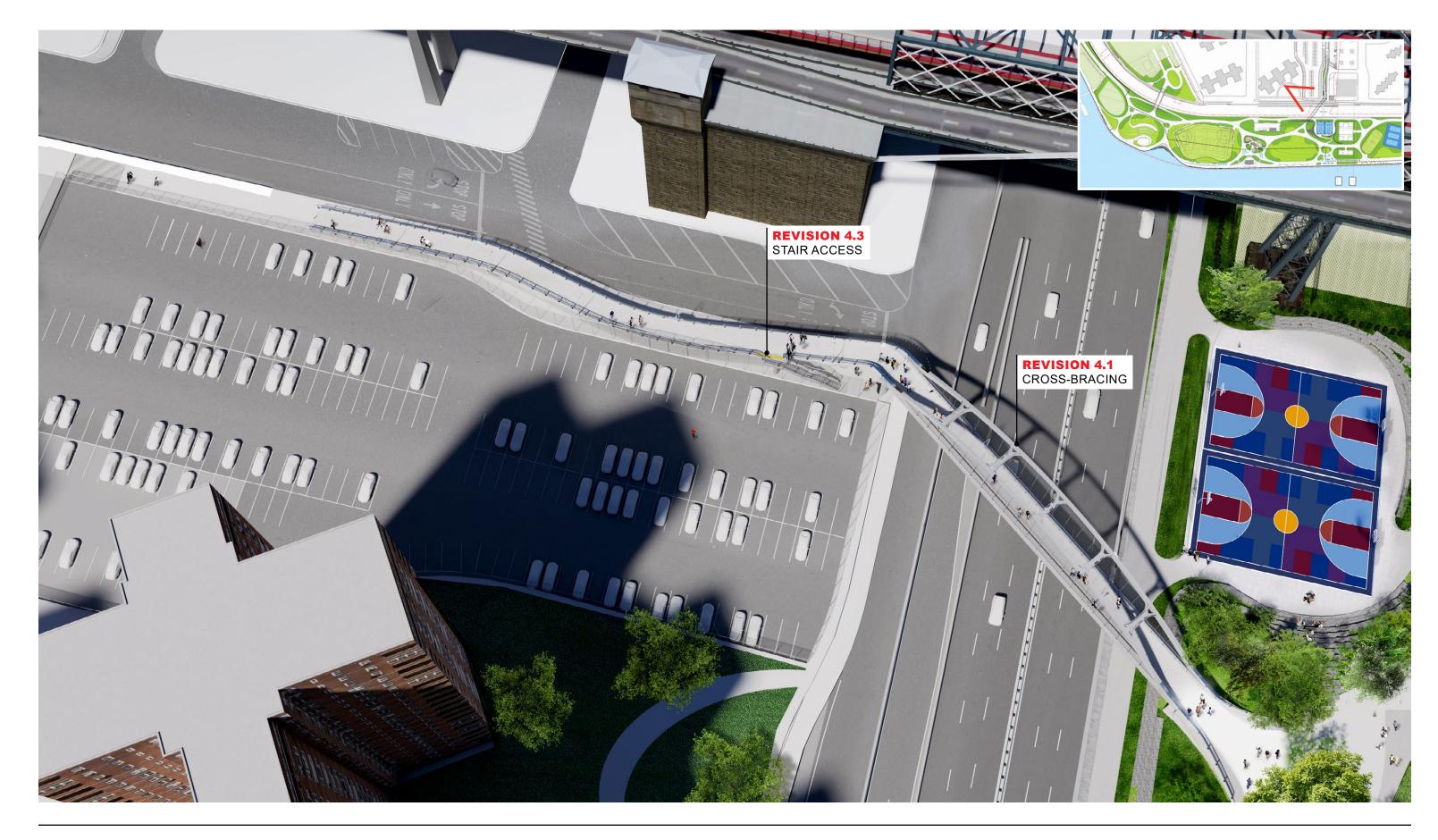
NEW YORK CITY NEW YORK ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

# Delancey Bridge Final Review 41



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND

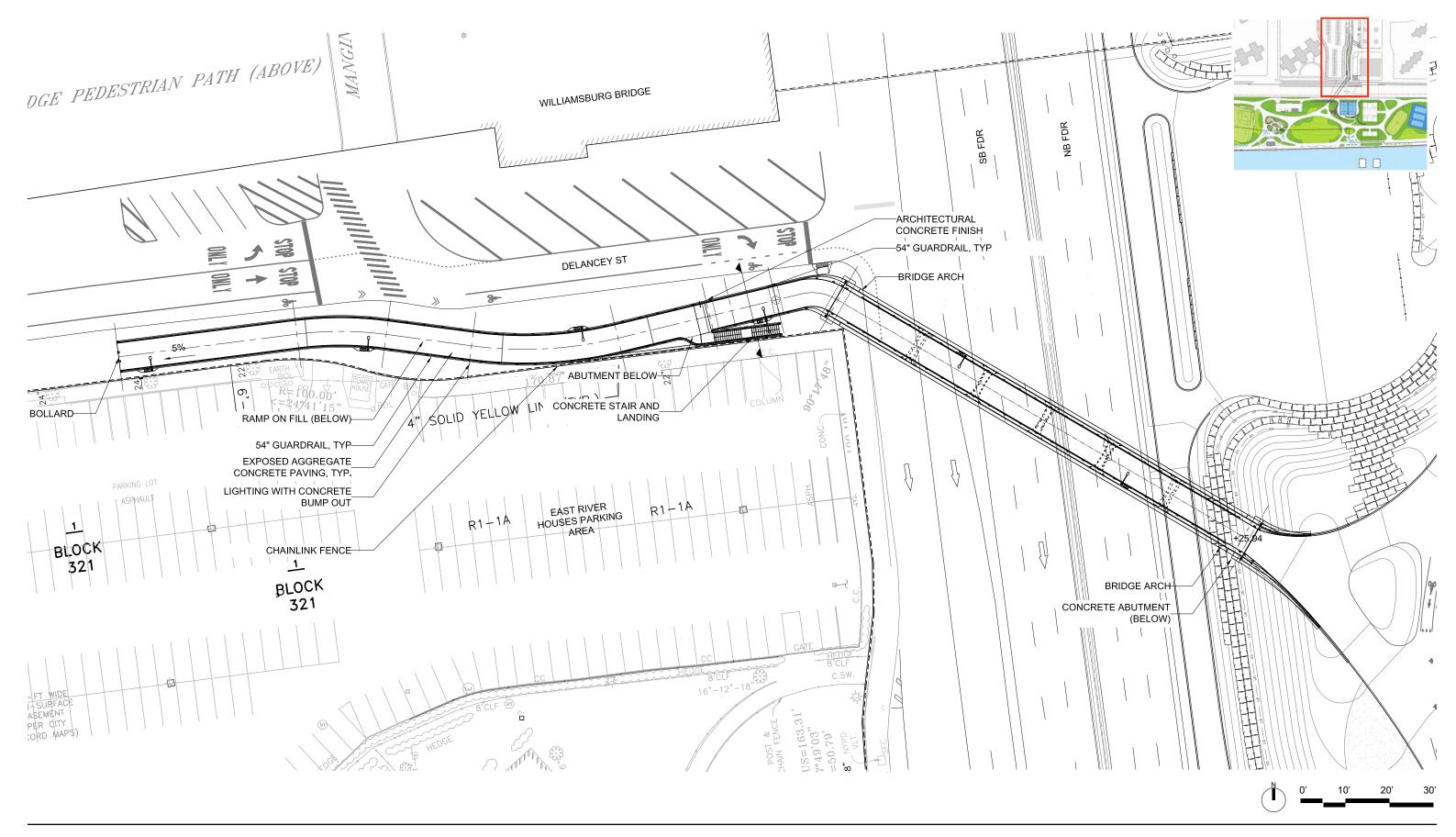
NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

## **Delancey Street Bridge Final Review** 42



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

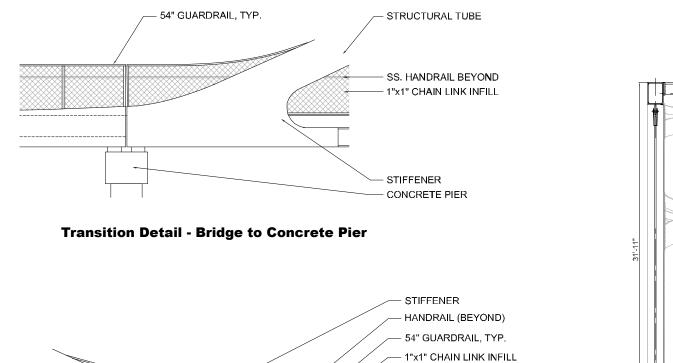
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

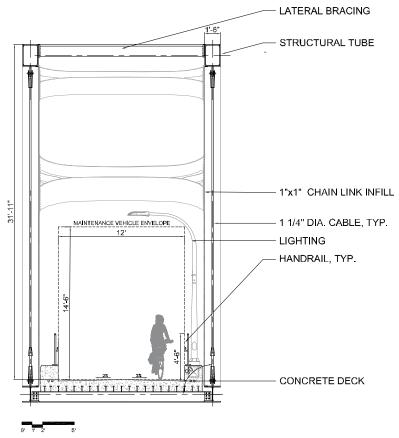
## Delancey Street Bridge Enlargement Plan 43



STRUCTURAL TUBE

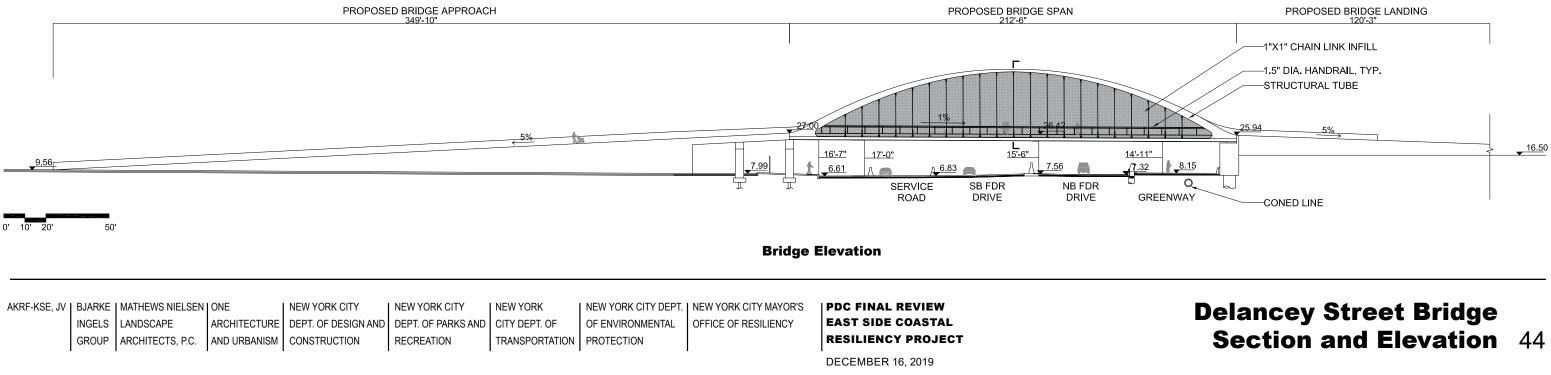
CONCRETE DECK

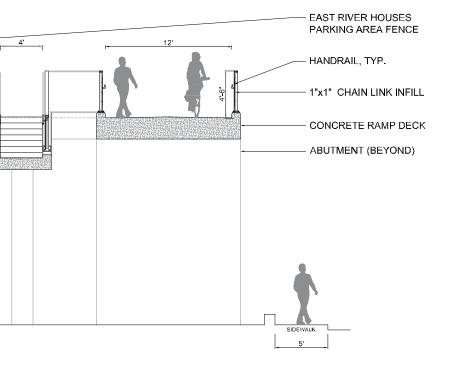
ABUTMENT



**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



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION

NEW YORK

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

# Delancey Street Bridge Bridge View 46

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONM

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

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# Delancey Street Bridge On Bridge View 47

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT





# **Reaches E-G Final Review** 48

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

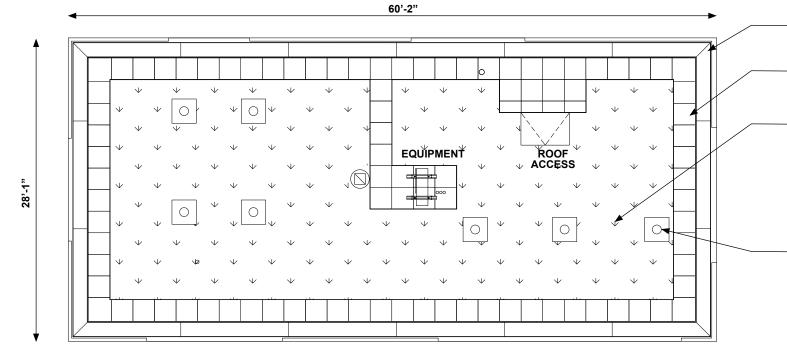
NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

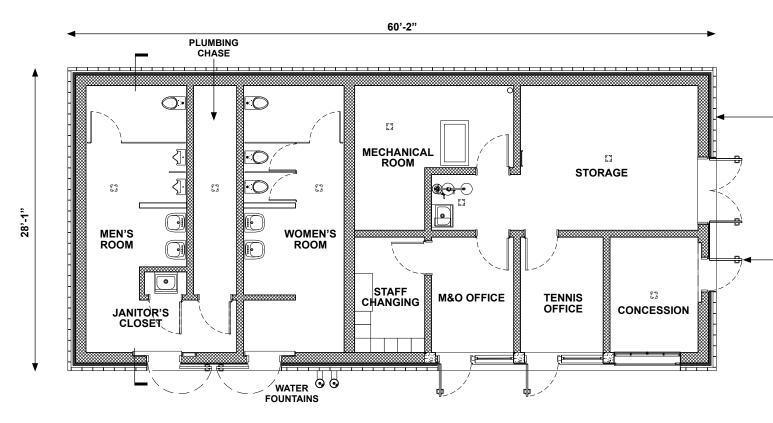
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# **Tennis House** Park View 49



**Tennis House Roof Plan** 



**Tennis House Floor Plan** 

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION **RESILIENCY PROJECT** RECREATION TRANSPORTATION PROTECTION

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



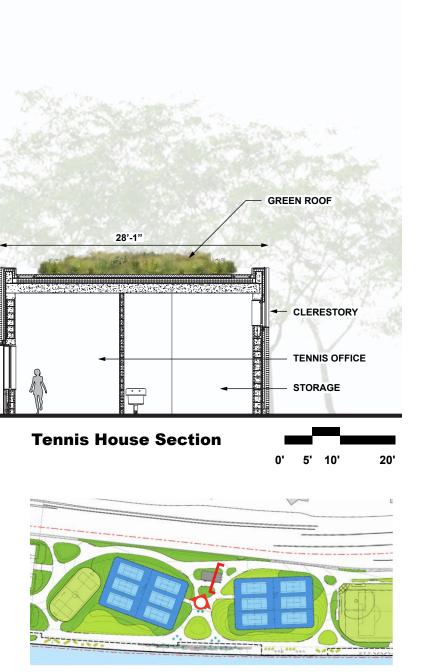
**Tennis House Elevation** 

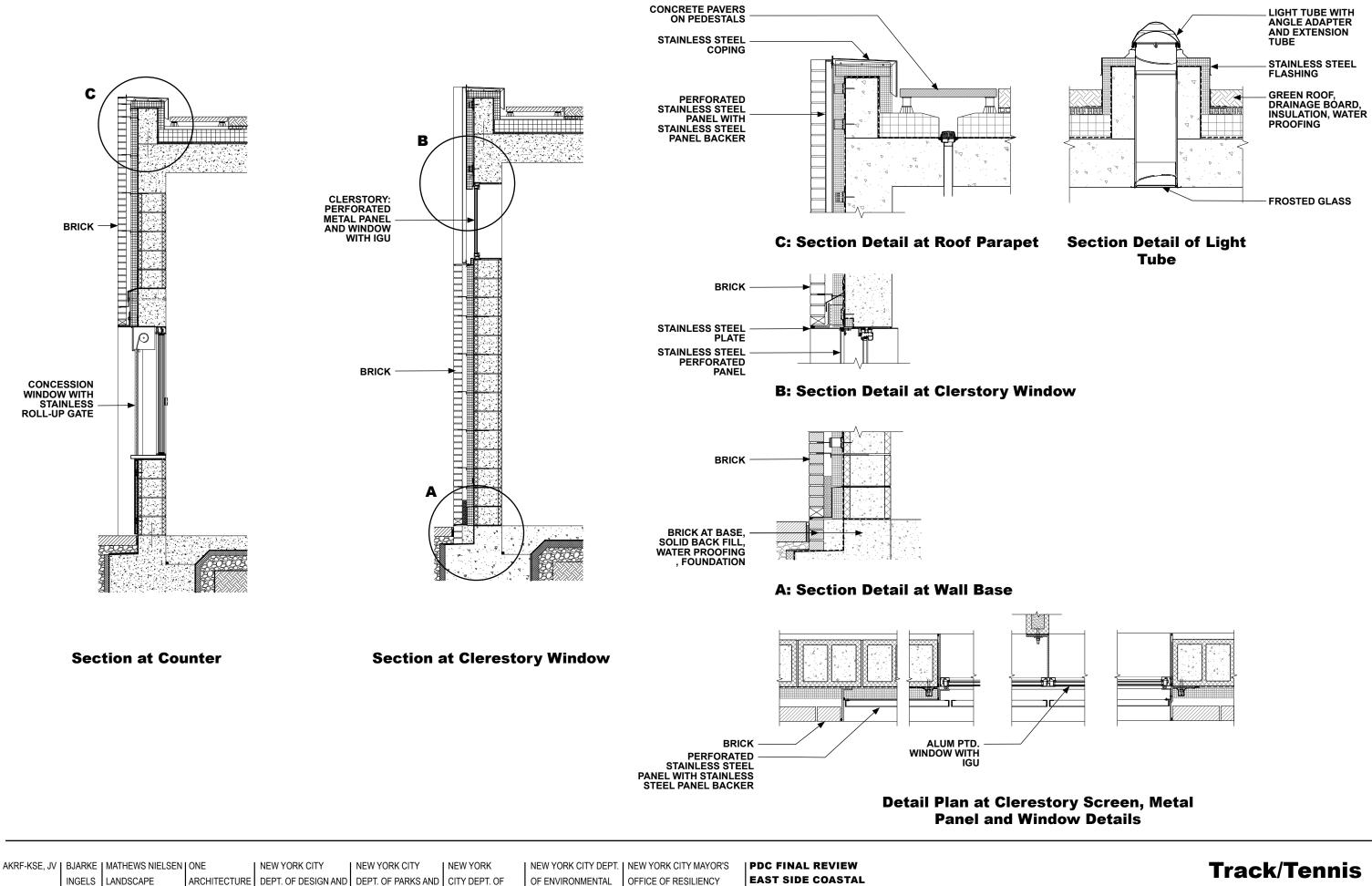
NEW YORK CITY MAYOR'S PDC FINAL REVIEW AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. INGELS ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL OFFICE OF RESILIENCY LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION

EAST SIDE COASTAL **RESILIENCY PROJECT** 

DECEMBER 16, 2019

## **Tennis House** East Elevation & Section 51





AND URBANISM CONSTRUCTION

RECREATION

GROUP

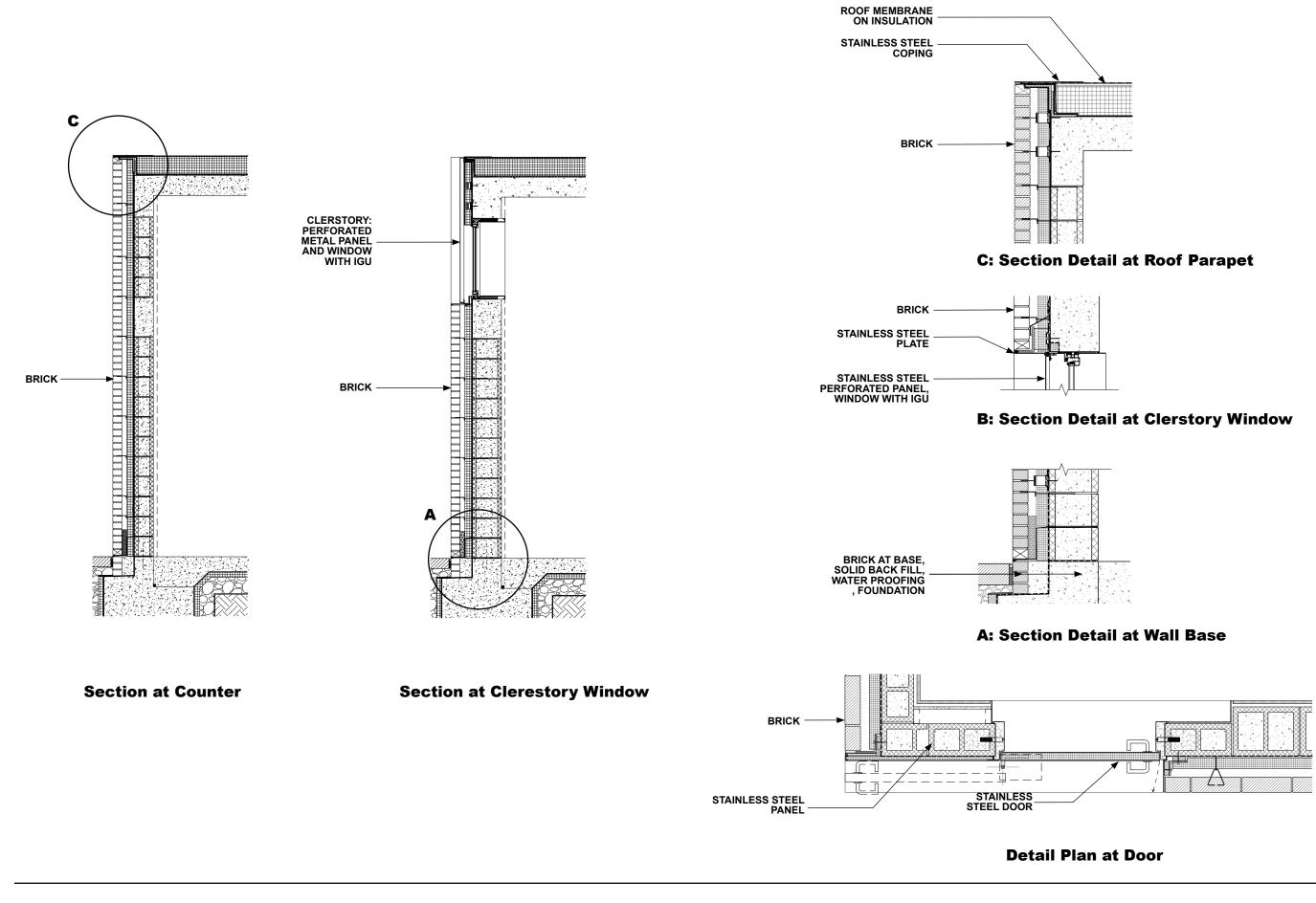
ARCHITECTS, P.C.

TRANSPORTATION PROTECTION

**RESILIENCY PROJECT** 

DECEMBER 16, 2019

# Wall Sections & Details 52



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 INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

EAST SIDE COASTAL **RESILIENCY PROJECT** 

# **Comfort Station** Wall Sections & Details 53



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

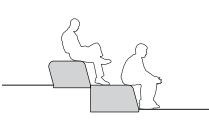
DECEMBER 16, 2019

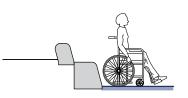
# **Esplanade Embayment Final Review** 54

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** 

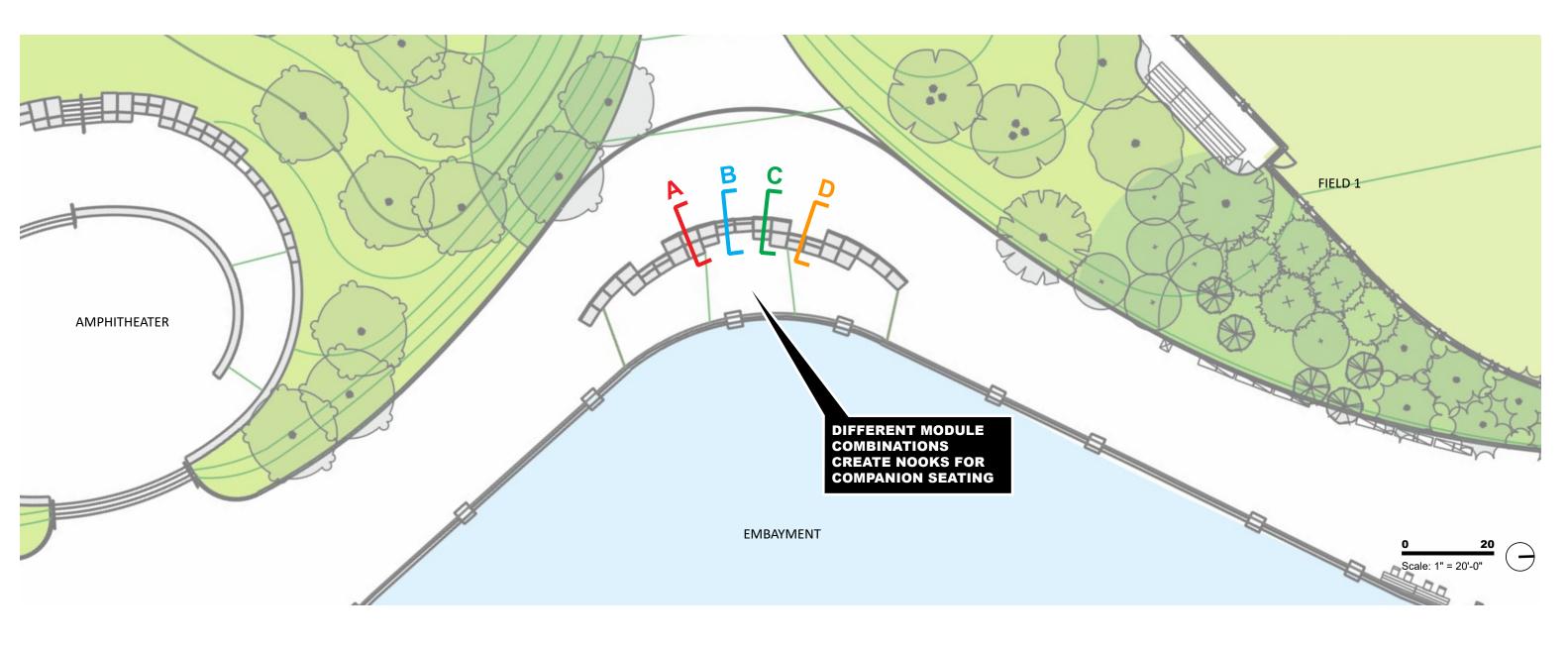








**SECTION C** 



# **Amphitheater Embayment** Seating 55

### **SECTION D**

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

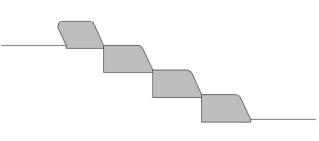
**SECTION B** 

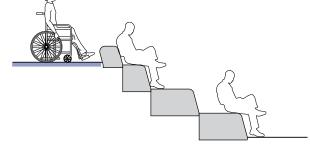
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

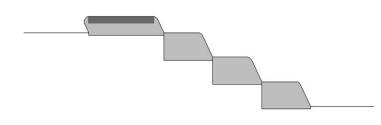
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

**SECTION C** 

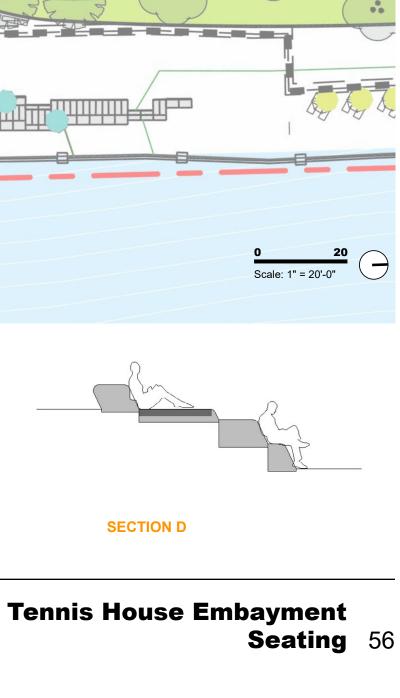
#### **SECTION A**











....

TENNIS

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

**SECTION B** 

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

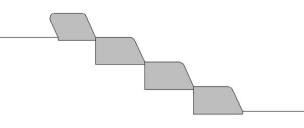
PDC FINAL REVIEW

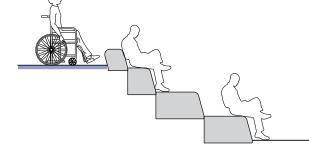
DECEMBER 16, 2019

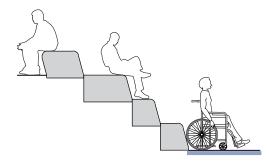
EAST SIDE COASTAL **RESILIENCY PROJECT** 

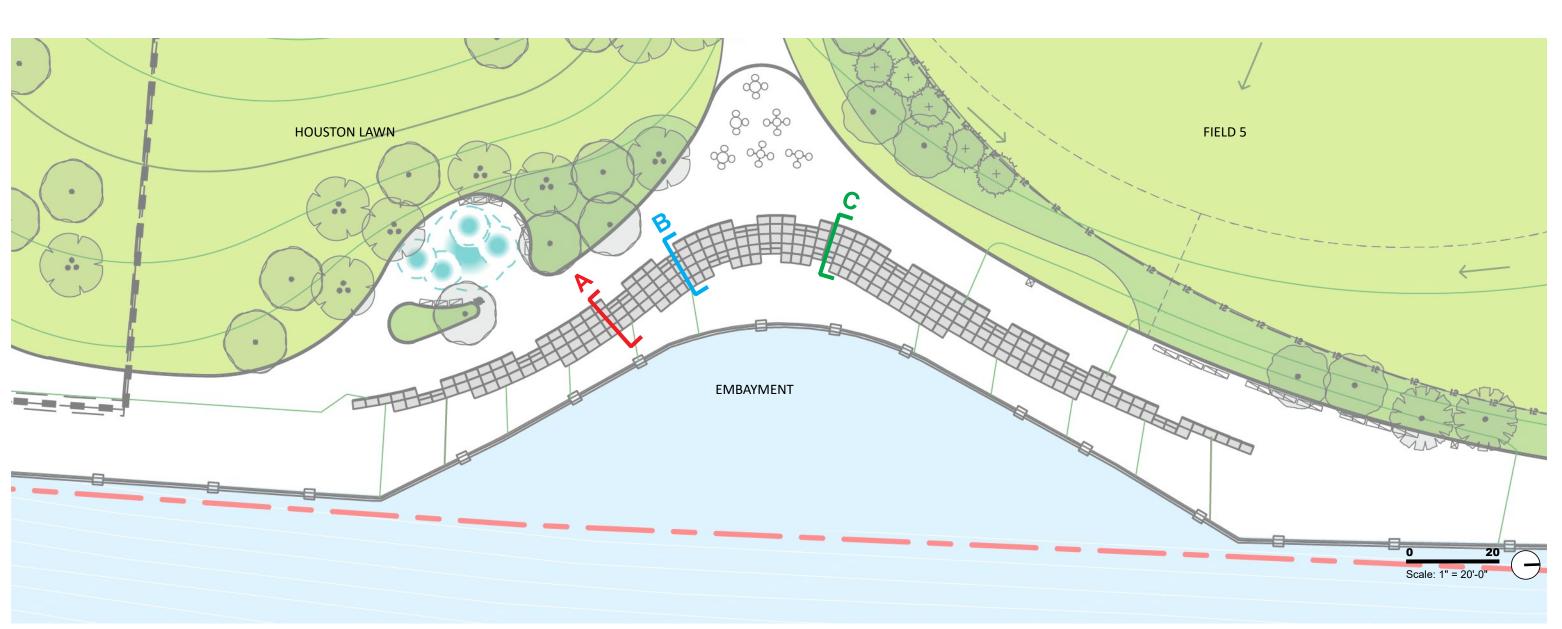
**SECTION C** 

### **SECTION A**









# Houston Street Embayment Seating 57

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY NEW YORK TRANSPORTATION PROTECTION

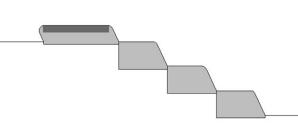
**SECTION C** 

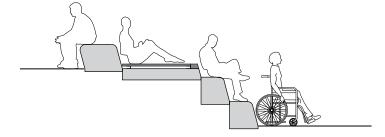
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

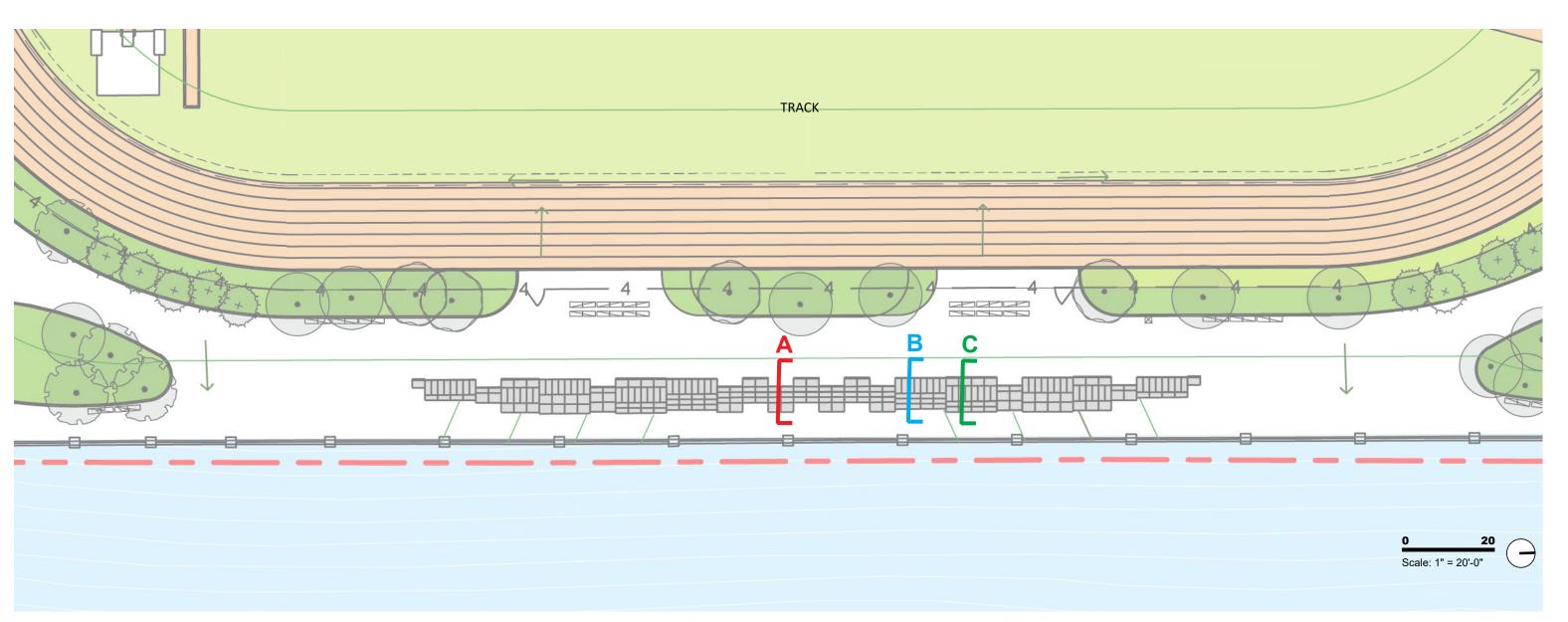
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

**SECTION D** 

#### **SECTION B**







### **ESPLANADE SEATWALLS**

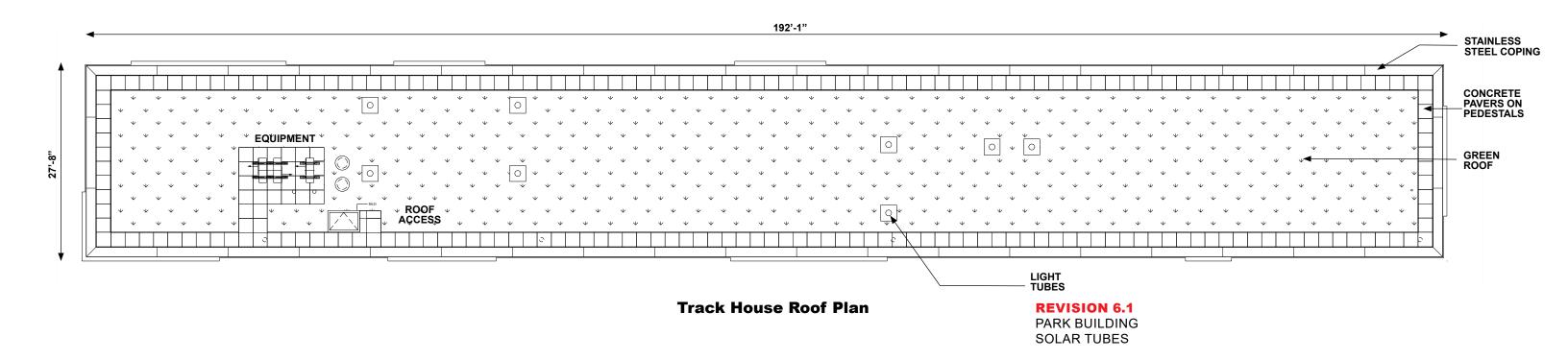
# **Track Step Down Seating** 58

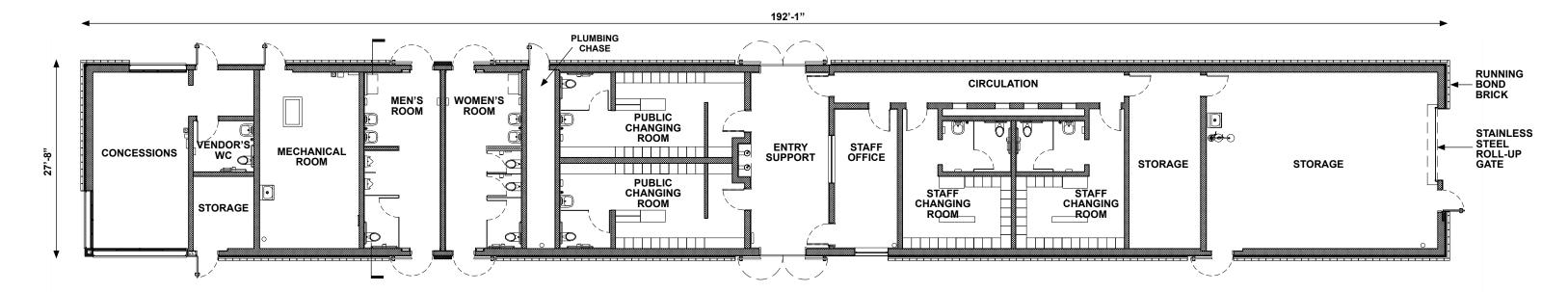
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION

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



## **Reaches H-J Final Review** 59





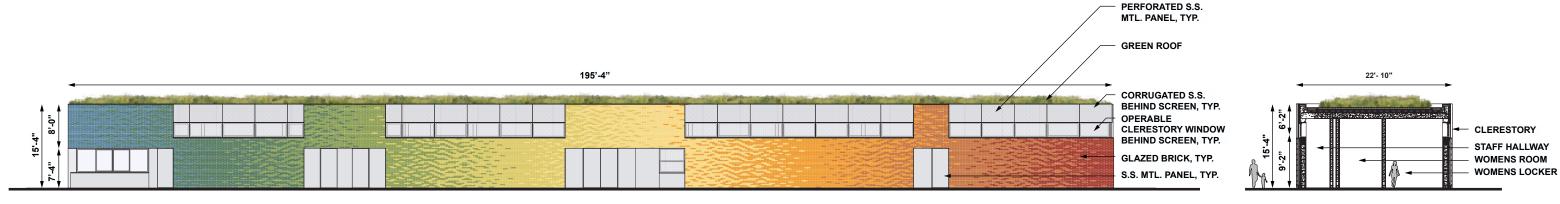
**Track House Floor Plan** 

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

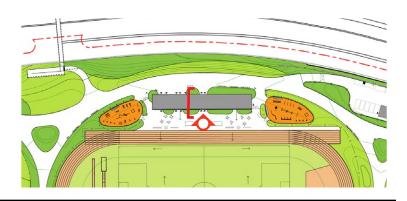
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK PDC FINAL REVIEW INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL LANDSCAPE GROUP ARCHITECTS,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





DECEMBER 16, 2019

# **Track House** East Elevation & Section 61







AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

RECREATION

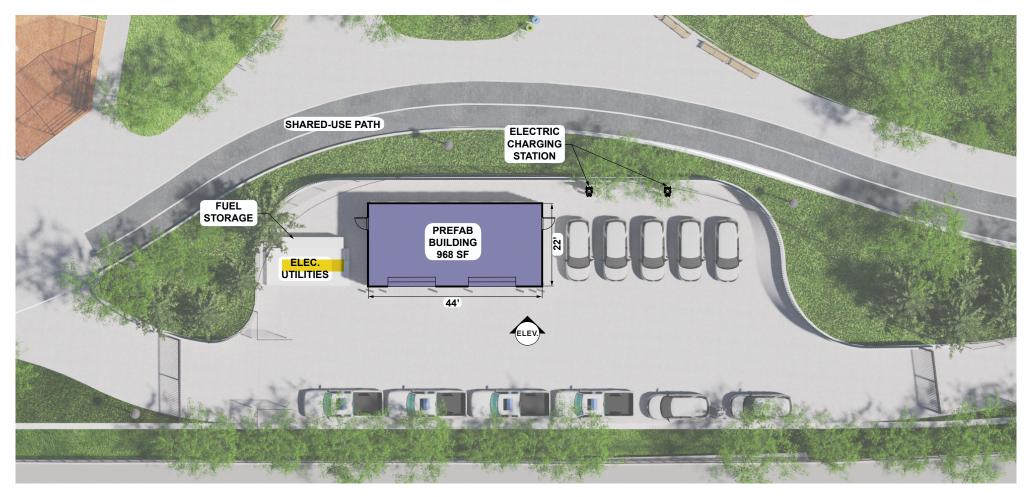
NEW YORK CITY NEW YORK TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

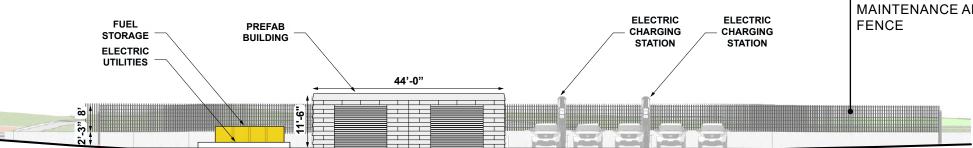
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# **Track House** Park View 62



**Track Maintenance Area Plan** 



**Track Maintenance Area Elevation** 

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 OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION **RESILIENCY PROJECT** RECREATION TRANSPORTATION PROTECTION

DECEMBER 16, 2019

### **REVISION 9.2** MAINTENANCE AREA

# **Maintenance Area 3 Final Review** 63



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

# 10th Street BridgeExisting Condition64

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT





# **10<sup>th</sup> Street Bridge FDR View** 65

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# 10<sup>th</sup> Street Bridge **Aerial View** 66

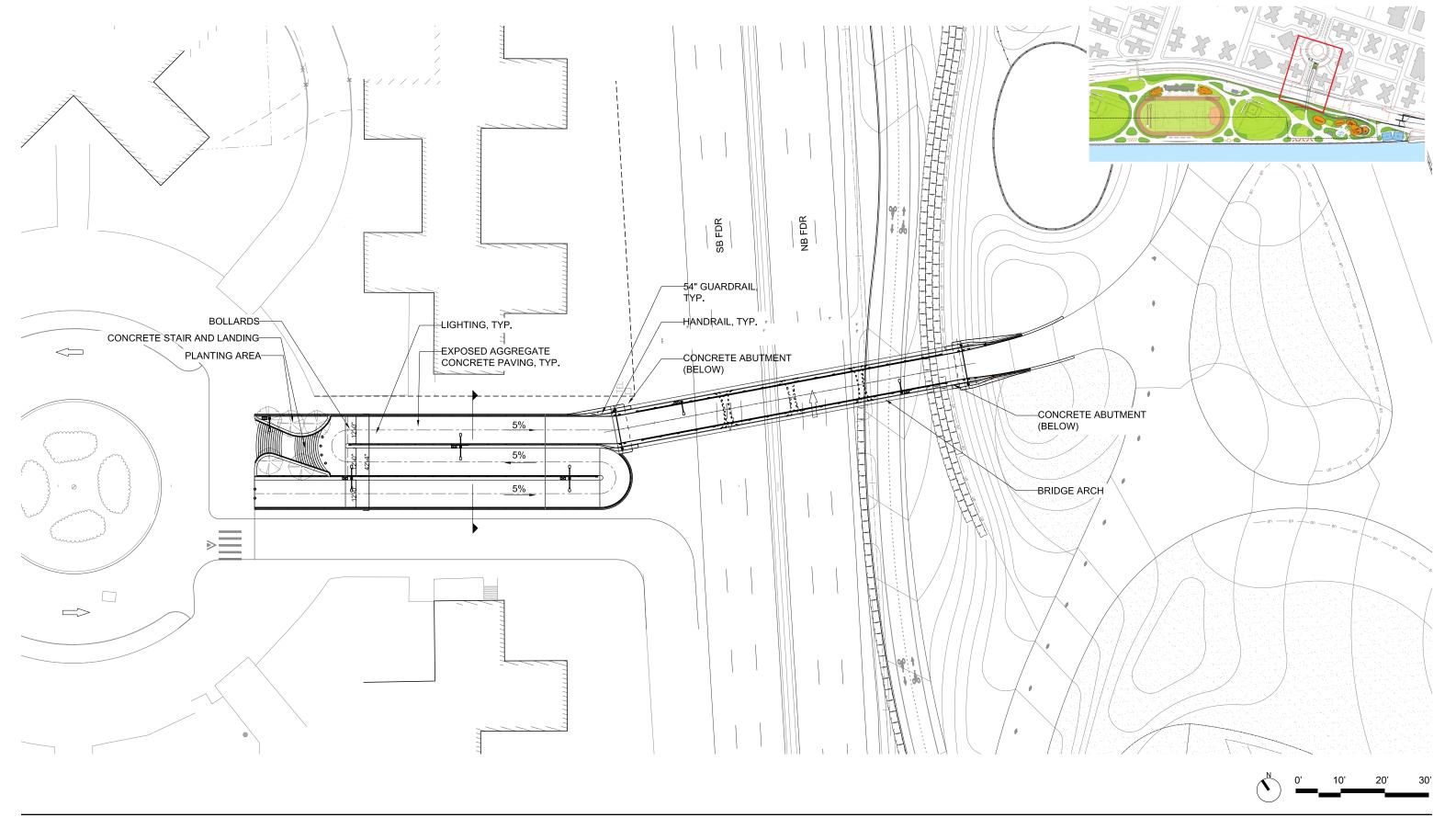
 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF

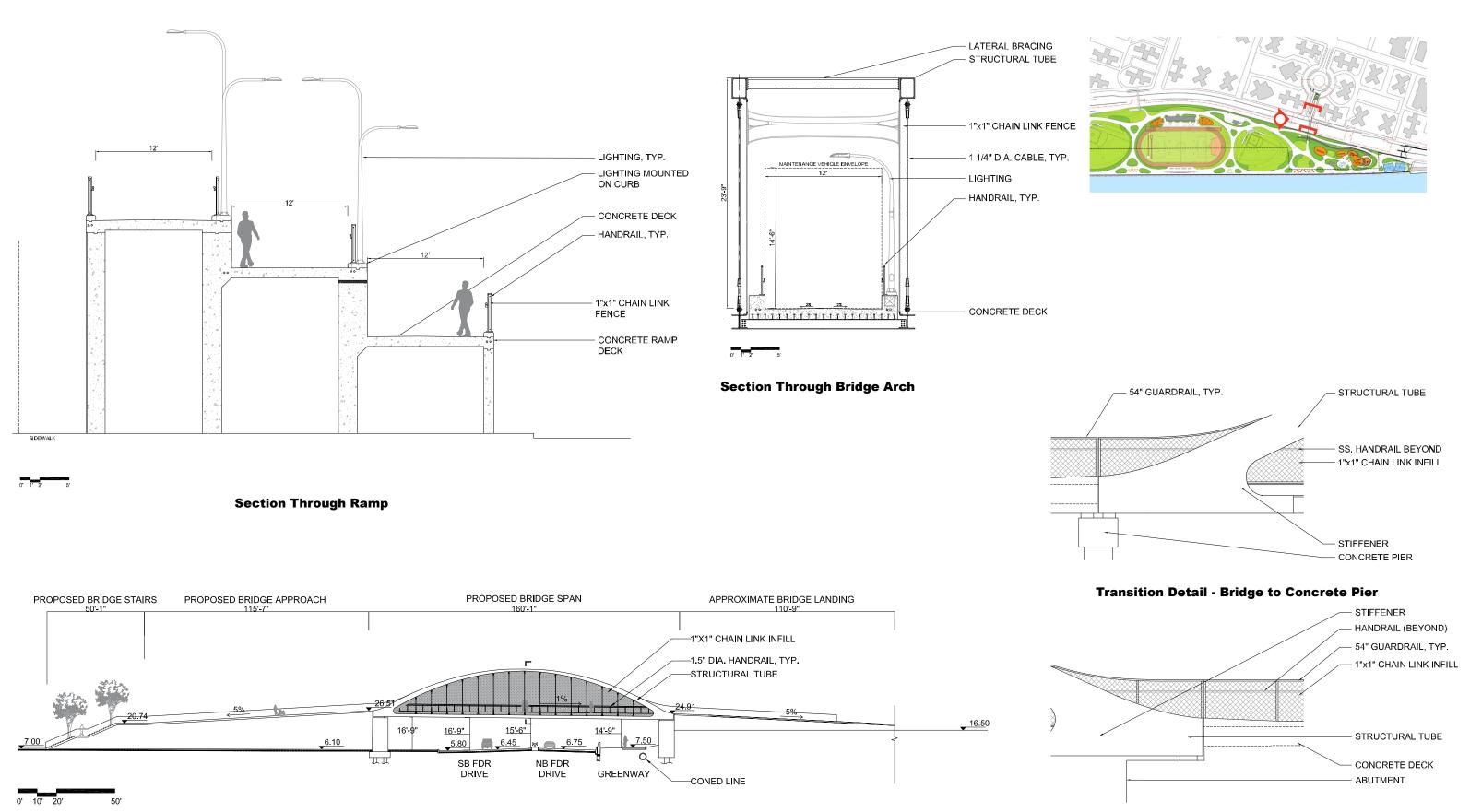
 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION

NEW YORKNEW YORK CITY DEPTCITY DEPT. OFOF ENVIRONMENTALTRANSPORTATIONPROTECTION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# **10<sup>th</sup> Street Bridge Enlargement Plan** 67



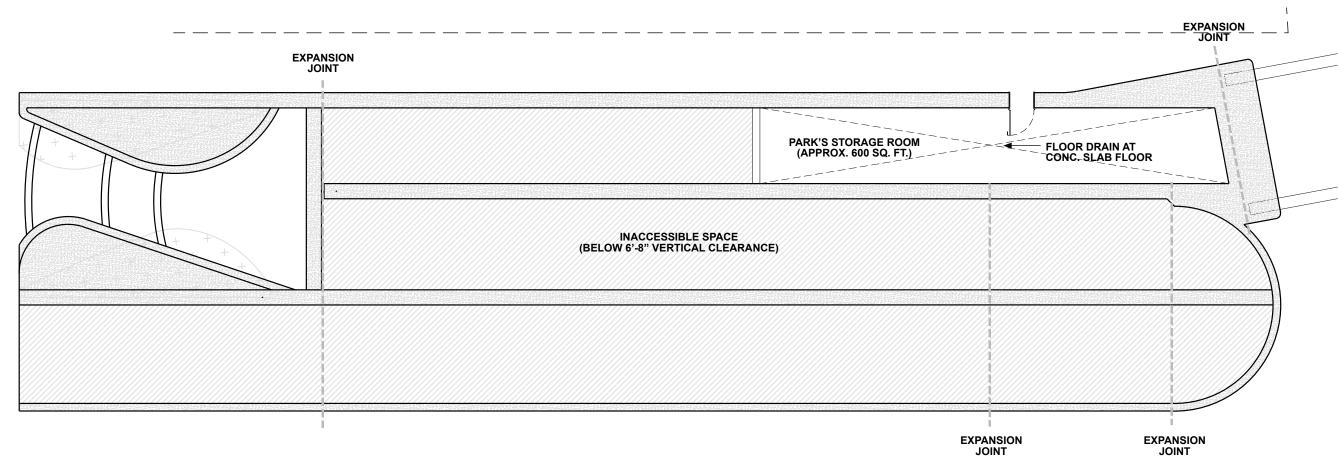
### **Bridge Elevation**

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 EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND 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

# **10<sup>th</sup> Street Bridge Section and Elevation** 68





### **Enlarged Plan Through Ramp**

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 DEPT. OF PARKS AND CITY DEPT. OF OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE OF ENVIRONMENTAL RESILIENCY PROJECT GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION



## 10<sup>th</sup> Street Bridge Section and Elevation 69

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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



# 10<sup>th</sup> Street Bridge **Approach View** 70

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT REVISION 5.1 CROSS-BRACING





# 10<sup>th</sup> Street Bridge Bridge View 71

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# **10<sup>th</sup> Street Bridge Park View** 72

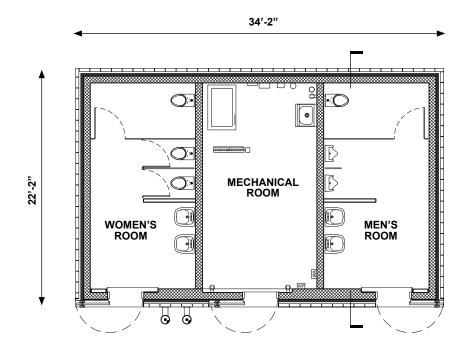
AKRF-KSE, JVBJARKEMATHEWS NIELSENONENEW YORK CITYNEW YORK CITYNEW YORK CITY DEPT.NEW YORK CITY DAYOR'SINGELSLANDSCAPEARCHITECTUREDEPT. OF DESIGN ANDDEPT. OF PARKS ANDCITY DEPT. OFOF ENVIRONMENTALOFFICE OF RESILIENCYGROUPARCHITECTS, P.C.AND URBANISMCONSTRUCTIONRECREATIONTRANSPORTATIONPROTECTIONOFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT 10

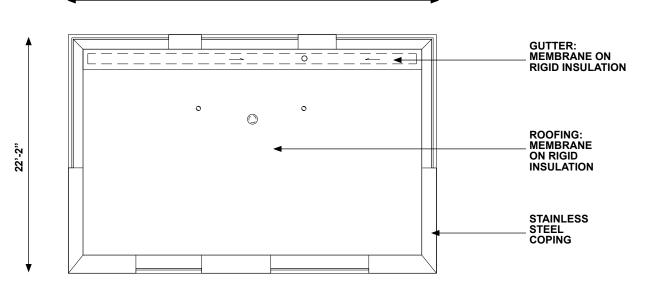




#### **10<sup>th</sup> Street Comfort Station Final Review** 73







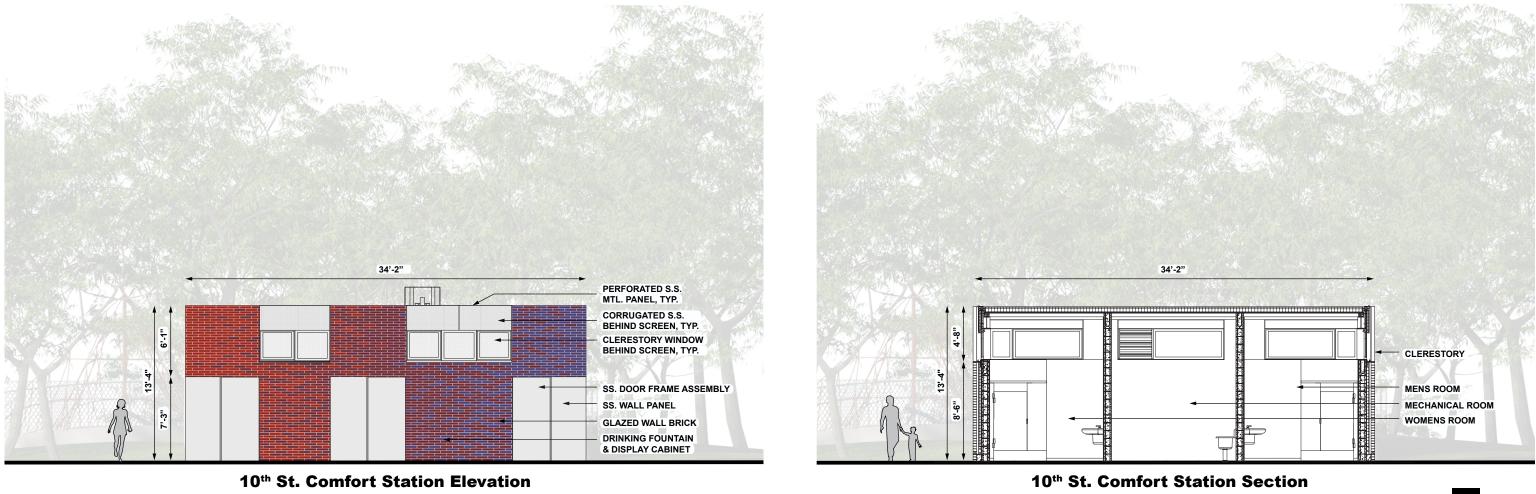
34'-2"

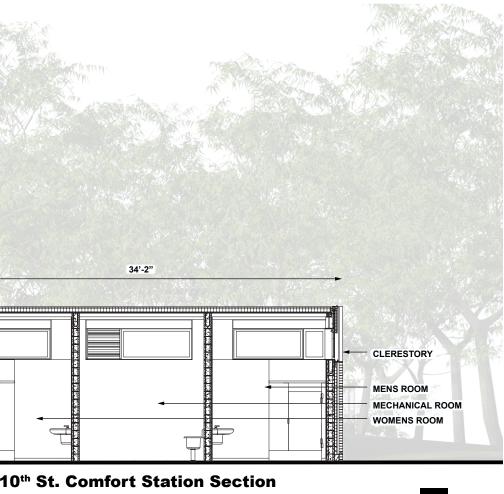
10<sup>th</sup> St. Comfort Station Roof Plan

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

DECEMBER 16, 2019

#### **10<sup>th</sup> St. Comfort Station** Floor Plan / Roof Plan 74





#### **10<sup>th</sup> St. Comfort Station** North Elevation 75

20'

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



#### E. 13<sup>th</sup> St. Floodwall Aerial View 76

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION



DECEMBER 16, 2019

**REVISION 10.1** COURT COLORS BRIDGE SUPERSTRUCTURE CURRENTLY UNDER DEVELOPMENT

#### E. 13<sup>th</sup> St. Floodwall **Future Flyover Aerial View** 77



## **PRESENTATION CONTENTS**

### **1. SITE DESIGN: PROJECT AREA 1 (PA1)**

## 2. SITE DESIGN: PROJECT AREA 2 (PA2)

**3. SITE ELEMENTS** 

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

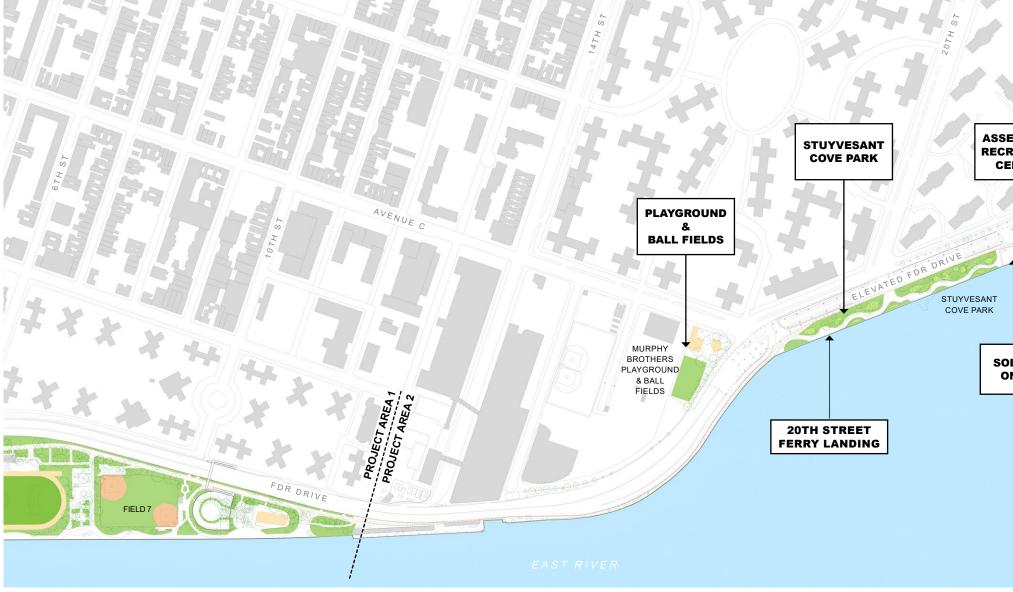
PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

78

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION

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





# Site Design Existing Conditions 79

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT





#### Site Design Final Review 80



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

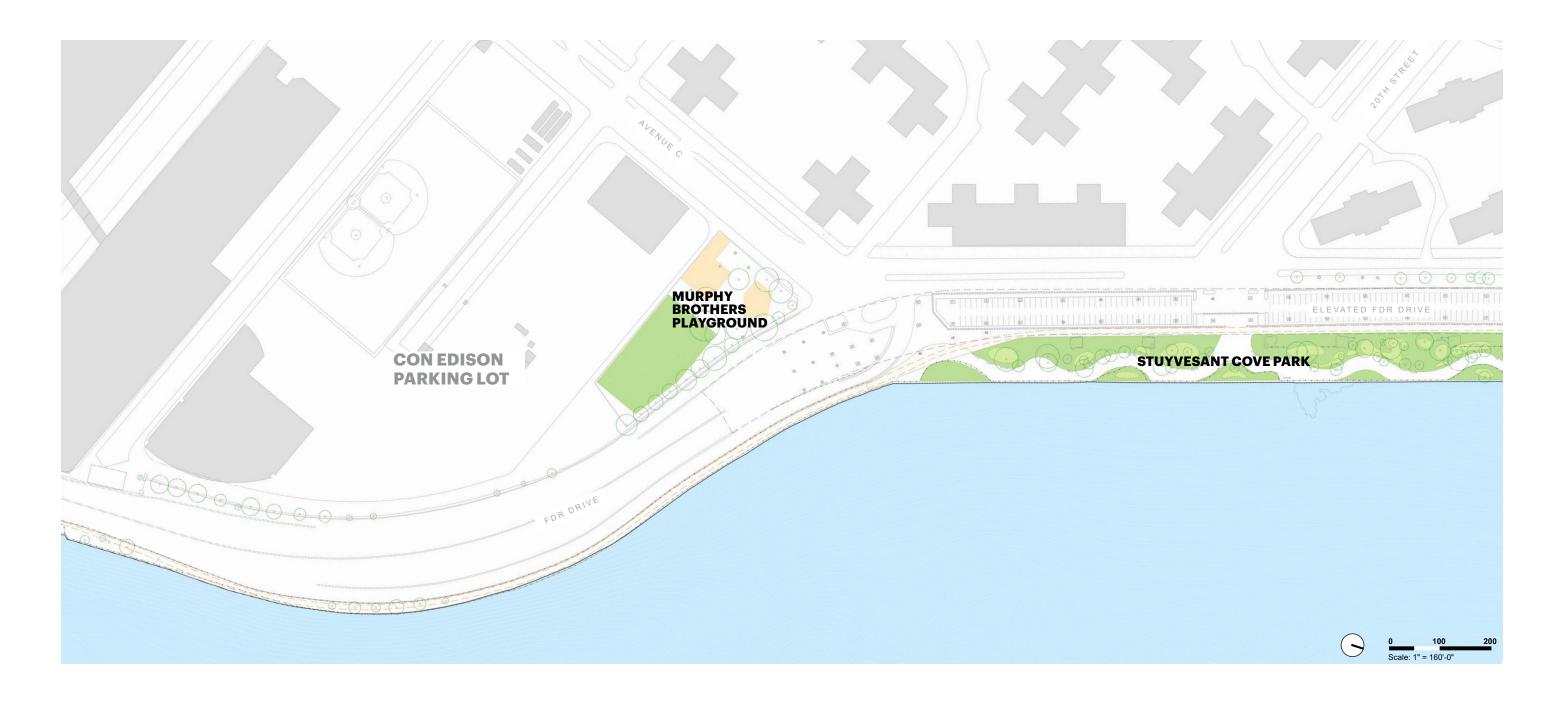
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

#### Reaches L-N Aerial View 81





AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

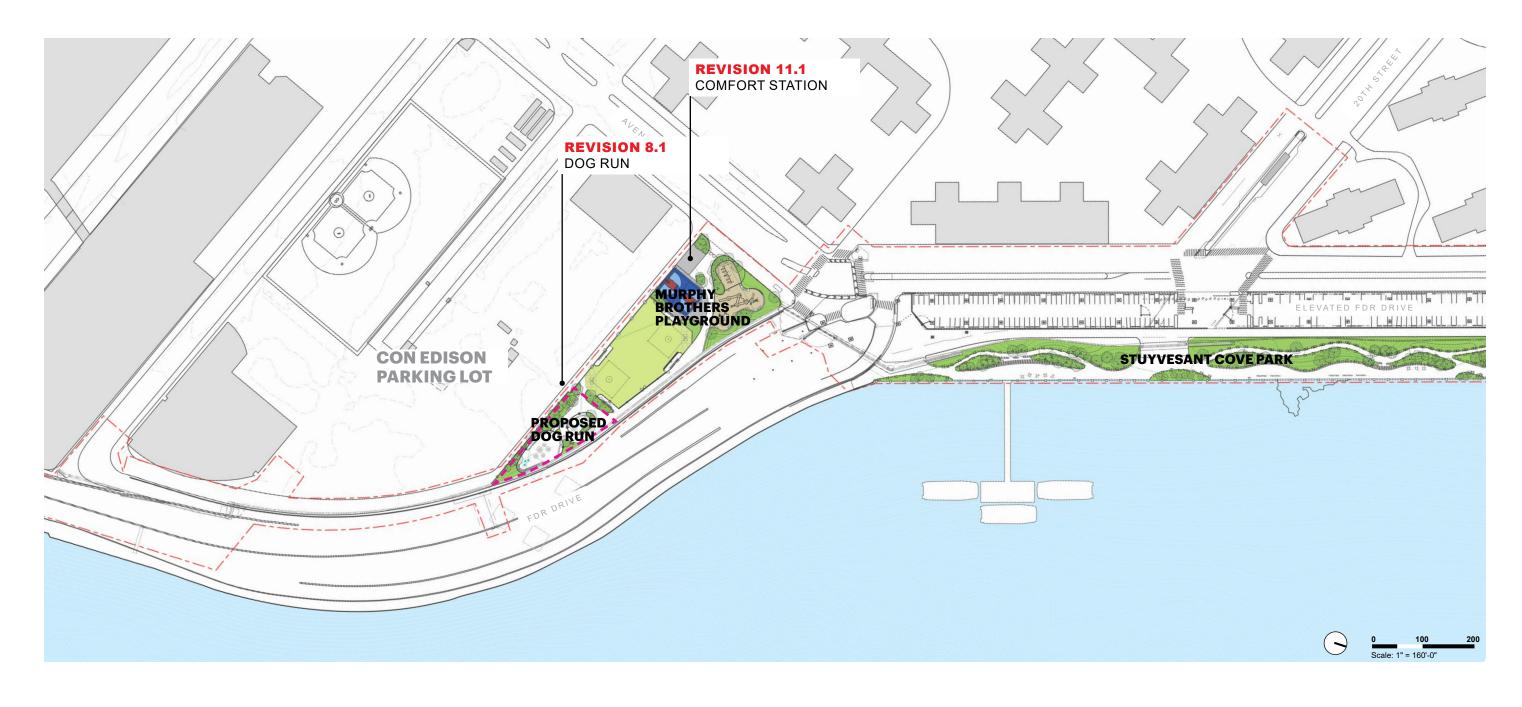
NEW YORK CITY NEW YORK

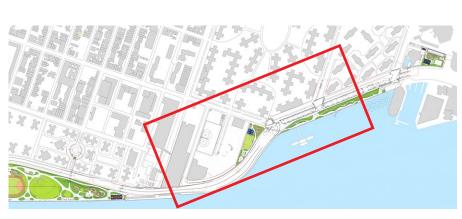
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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

# Murphy Brothers Playground Dog Run Existing Condition 82

DECEMBER 16, 2019





AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

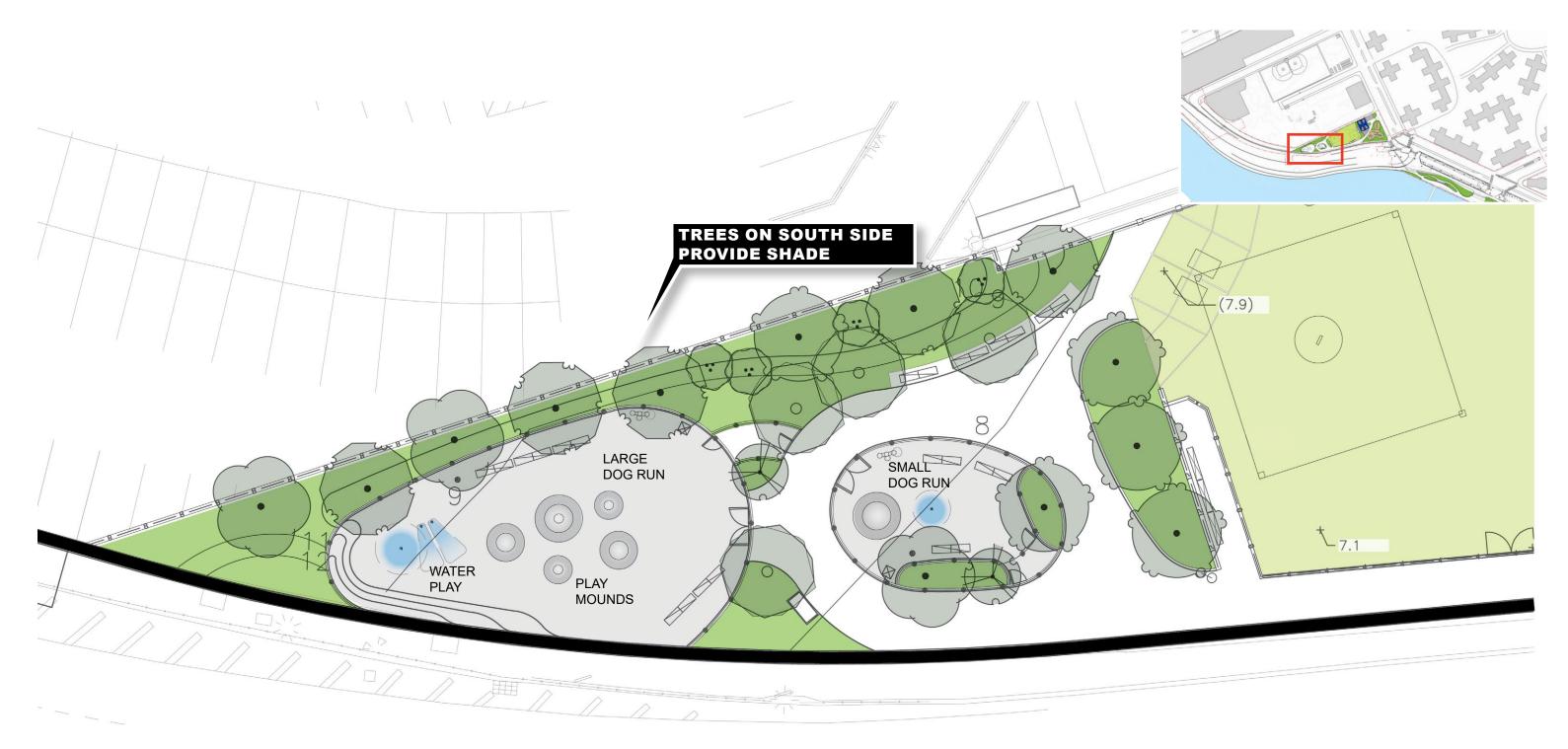
NEW YORK

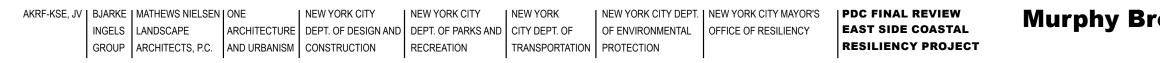
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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

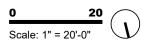
DECEMBER 16, 2019

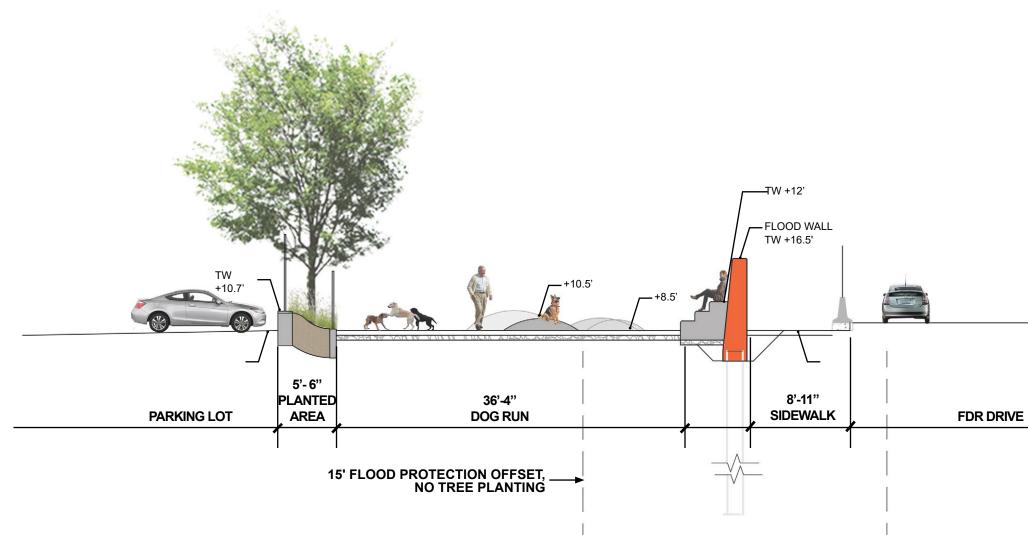
#### **Murphy Brothers Playground Dog Run** Proposed Plan 83





#### Murphy Brothers Playground Dog Run Plan 84

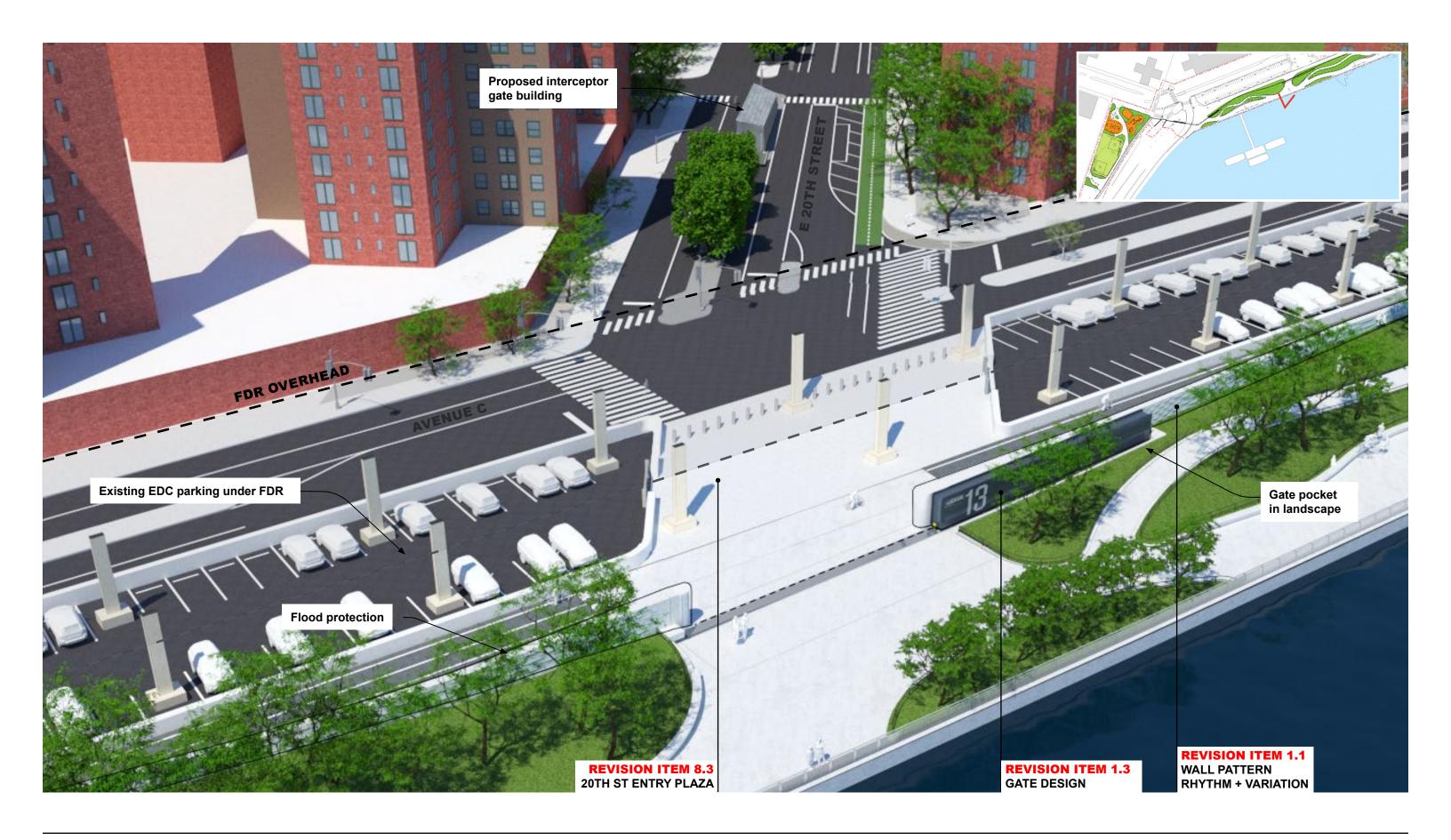




AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE OF ENVIRONMENTAL GROUP ARCHITECTS,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

DECEMBER 16, 2019

#### **Murphy Brothers Playground Dog Run** Section 85



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION

AND NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATI

NEW YORKNEW YORK CITY DEPT.NEW YORK CITY MAYOR'SCITY DEPT. OFOF ENVIRONMENTALOFFICE OF RESILIENCYTRANSPORTATIONPROTECTION

PDC FINAL REVIEW EAST SIDE COASAST SIDE COASTAL RESILIENCY PROSECTENCY PROJECT DECEMBER 16, 2019

#### Site Design: PA2 20th Street Aerial 86

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



# 20th Street Entry Final Review 87

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE PDC FINAL REVIEW NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESIDIENCYAND RESILIENCY PROJECT GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION RESILIENCY DEPERMBER 16620099



Stuy. Cove Bike Lane Final Review 88

DEPERMBER 16620099

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

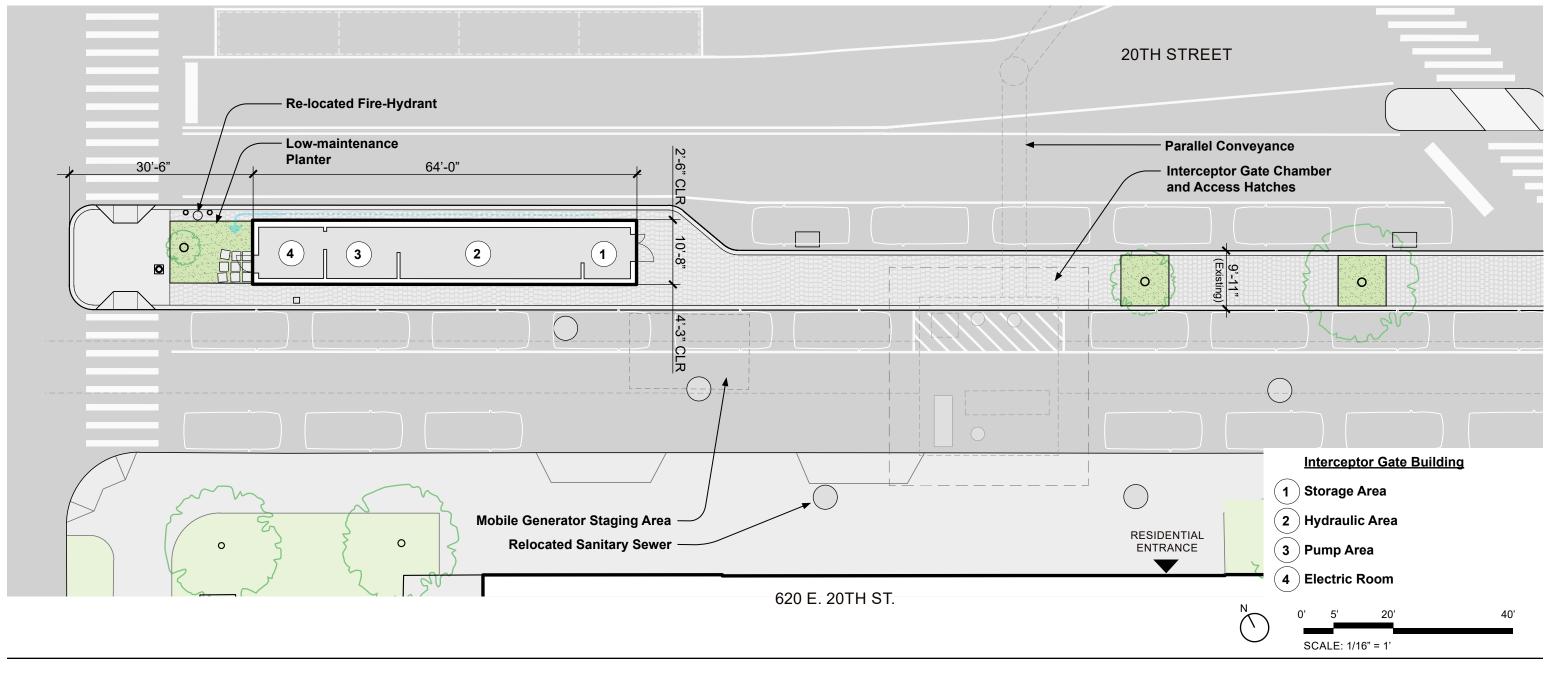
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESIDIENCY/AND TRANSPORTATION PROTECTION RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

REVISION 2.1 SECURITY MEASURES 

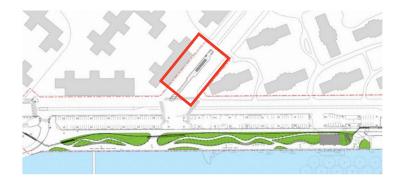


# **20th Street Entry Plaza Final Review** 89

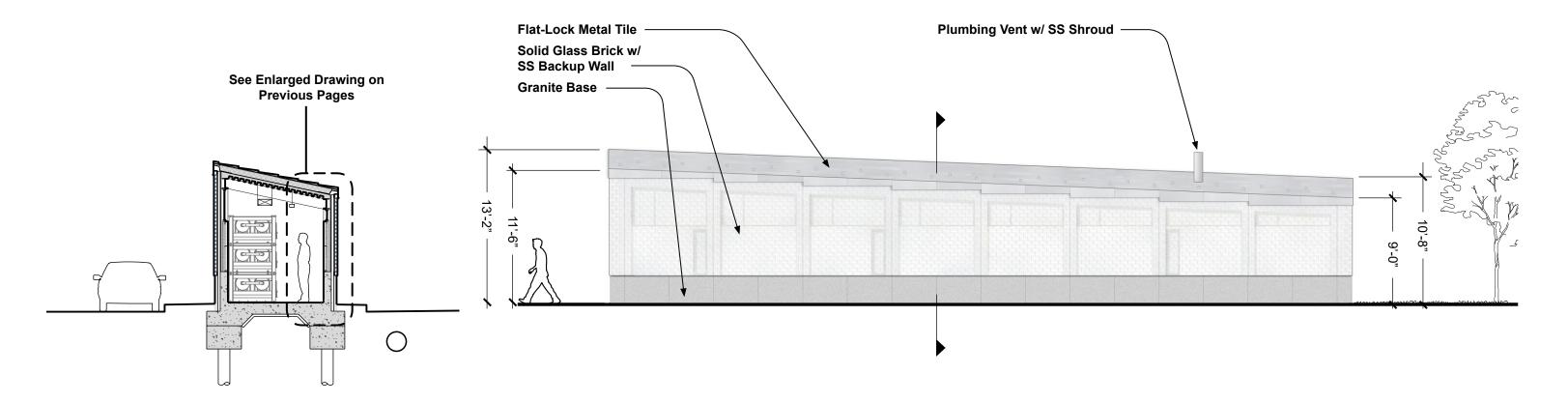


AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS,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

DECEMBER 16, 2019



#### North Gate Building Site Plan 90

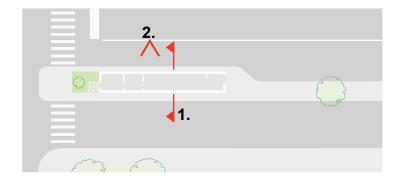


#### **1. CROSS SECTION**

#### 2. NORTH ELEVATION

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 INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND 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





**RESILIENCY PROJECT** 

DECEMBER 16, 2019

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL



#### **North Gate Building View From Northwest** 92

## **PRESENTATION CONTENTS**

**1. SITE DESIGN: PROJECT AREA 1 (PA1)** 

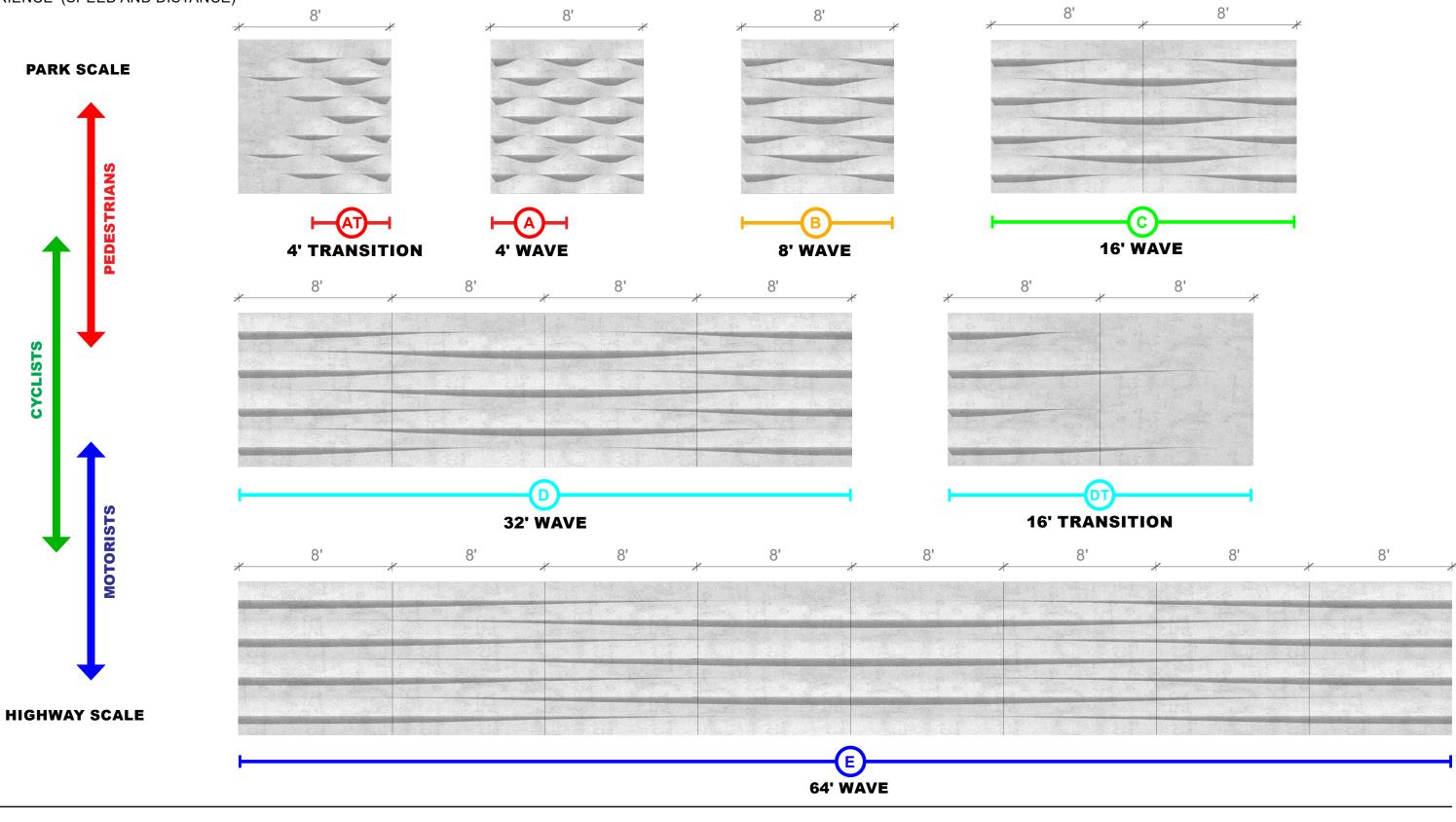
2. SITE DESIGN: PROJECT AREA 2 (PA2)

**3. SITE ELEMENTS** 

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINAL REVIEW

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

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



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

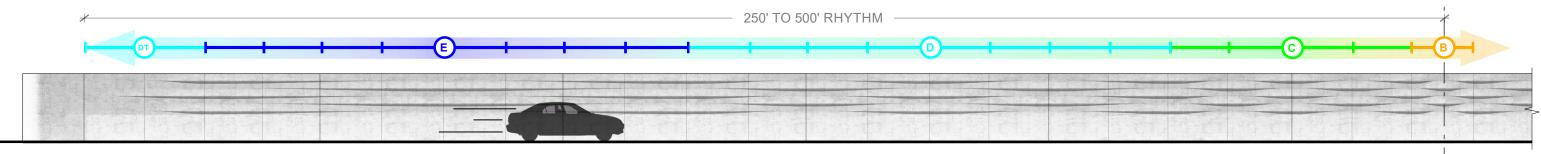
#### Flood and Highway Walls Scale Toolkit 94

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINAL REVIEW

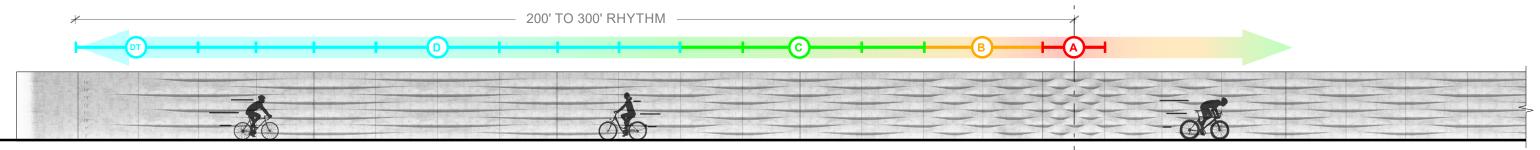
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

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

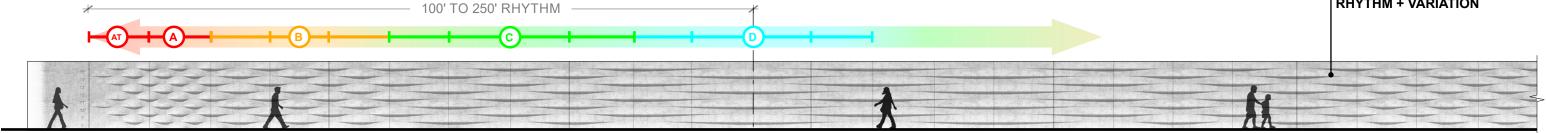
#### HIGHWAY RHYTHM: $(E) \leftrightarrow (B) \leftrightarrow (E)$



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



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

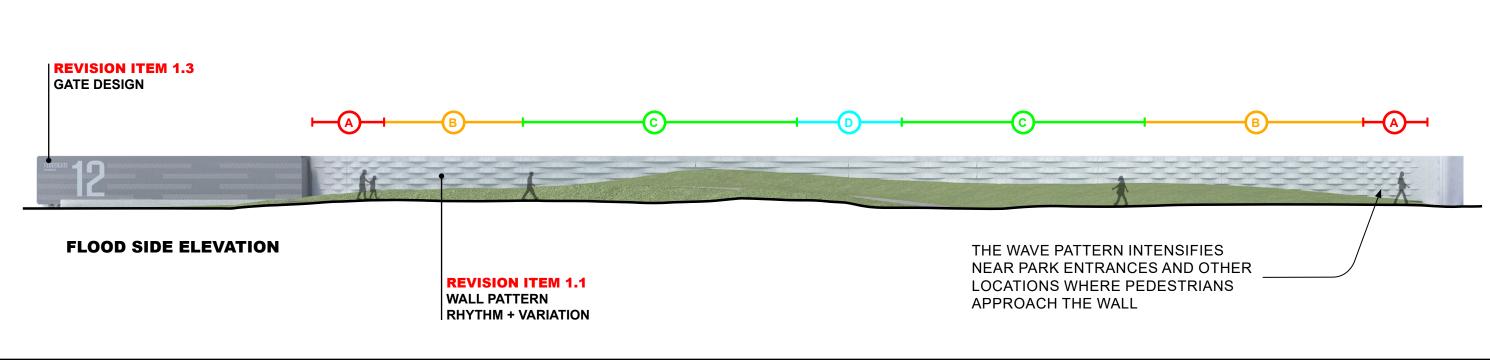


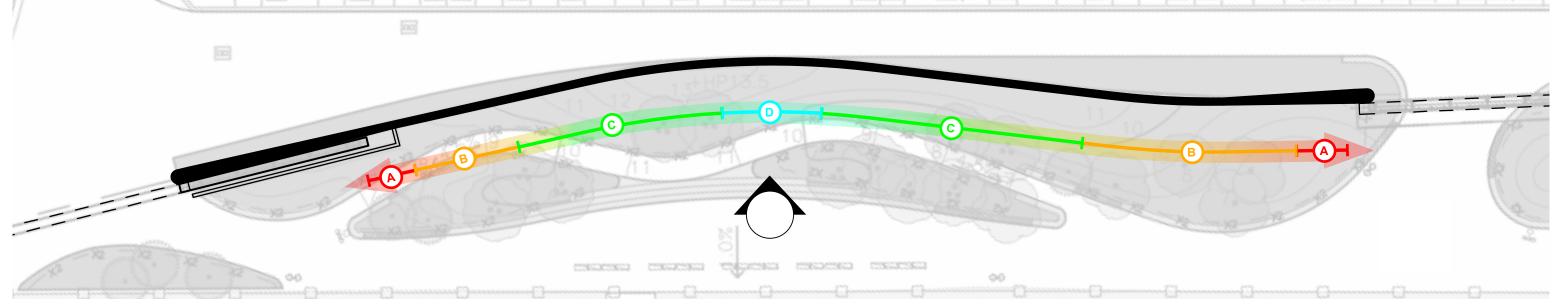
INDIVIDUAL PANELS ARE ARRAYED TO REINFORCE USER EXPERIENCE, ACCELERATING AND DECELERATING THE PATTERN

#### **REVISION ITEM 1.1** WALL PATTERN RHYTHM + VARIATION

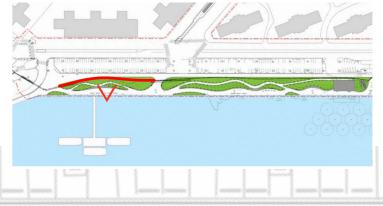
Flood and Highway Walls Rhythm Toolkit 95

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





DECEMBER 16, 2019



#### Flood and Highway Walls Pedestrian Rhythm Example 96



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

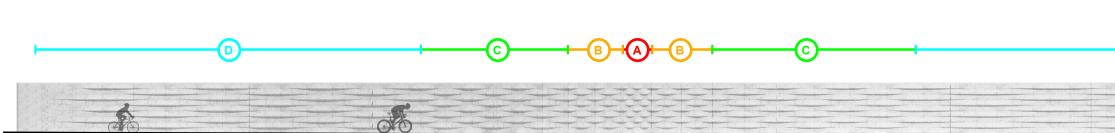
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

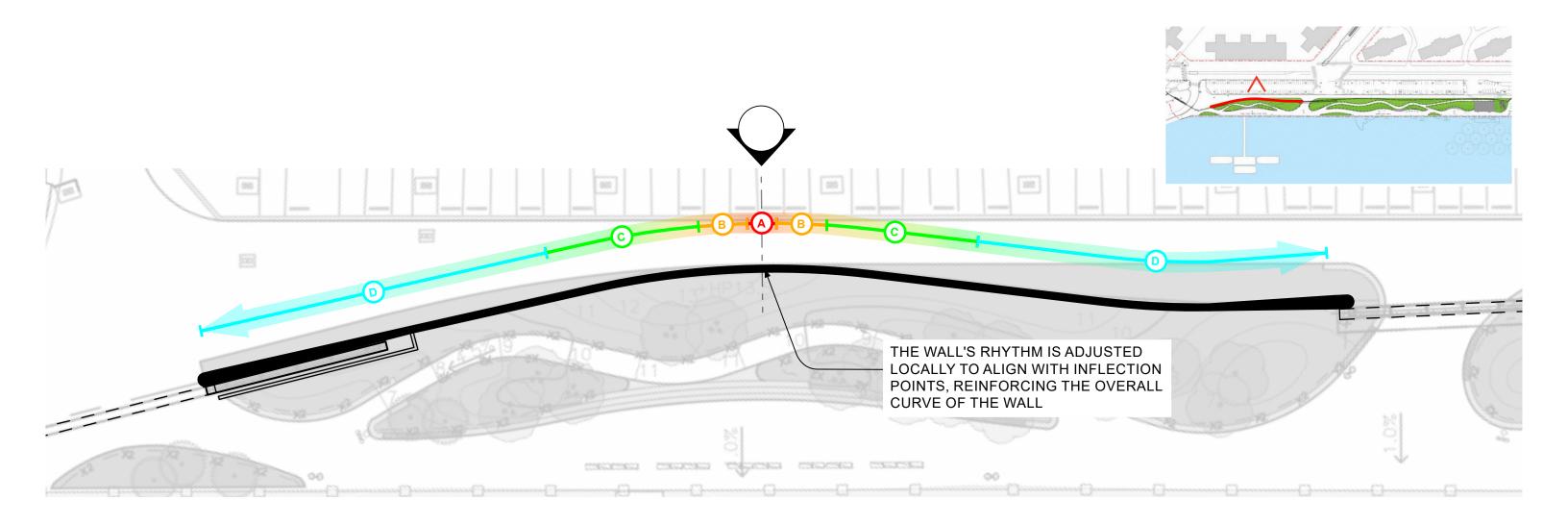
DECEMBER 16, 2019

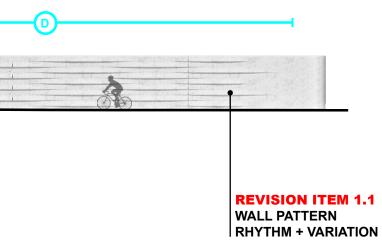
# Flood and Highway Walls Pedestrian Rhythm Example 97

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 INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION **RESILIENCY PROJECT** RECREATION

#### PROTECTED SIDE ELEVATION







#### Flood and Highway Walls Bike Path Rhythm Example 98

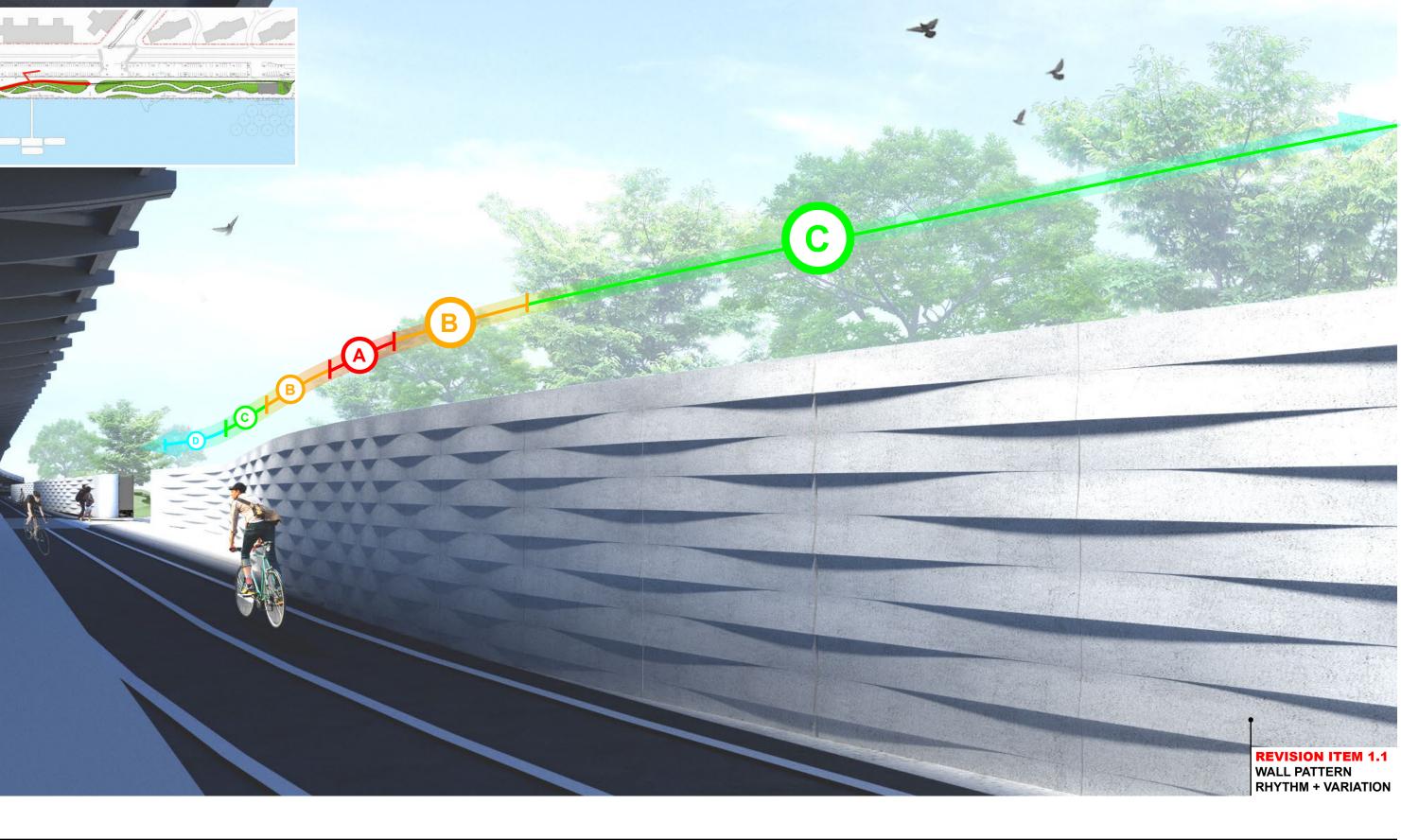
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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



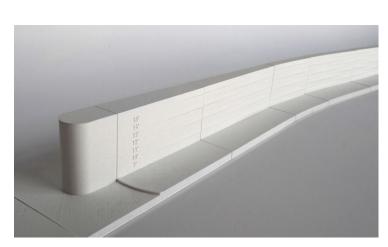


# Flood and Highway Walls Bike Path Rhythm Example 99

AKRF-KSE, JVBJARKEMATHEWS NIELSENONENEW YORK CITYNEW YORK CITYNEW YORK CITY DEPT.NEW YORK CITY DEPT.NEW YORK CITY MAYOR'SPDCINGELSLANDSCAPEARCHITECTUREDEPT. OF DESIGN ANDDEPT. OF PARKS ANDCITY DEPT. OFOF ENVIRONMENTALOFFICE OF RESILIENCYEASTGROUPARCHITECTS, P.C.AND URBANISMCONSTRUCTIONRECREATIONTRANSPORTATIONPROTECTIONRECREATIONRECREATION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

**DETAIL 1** 





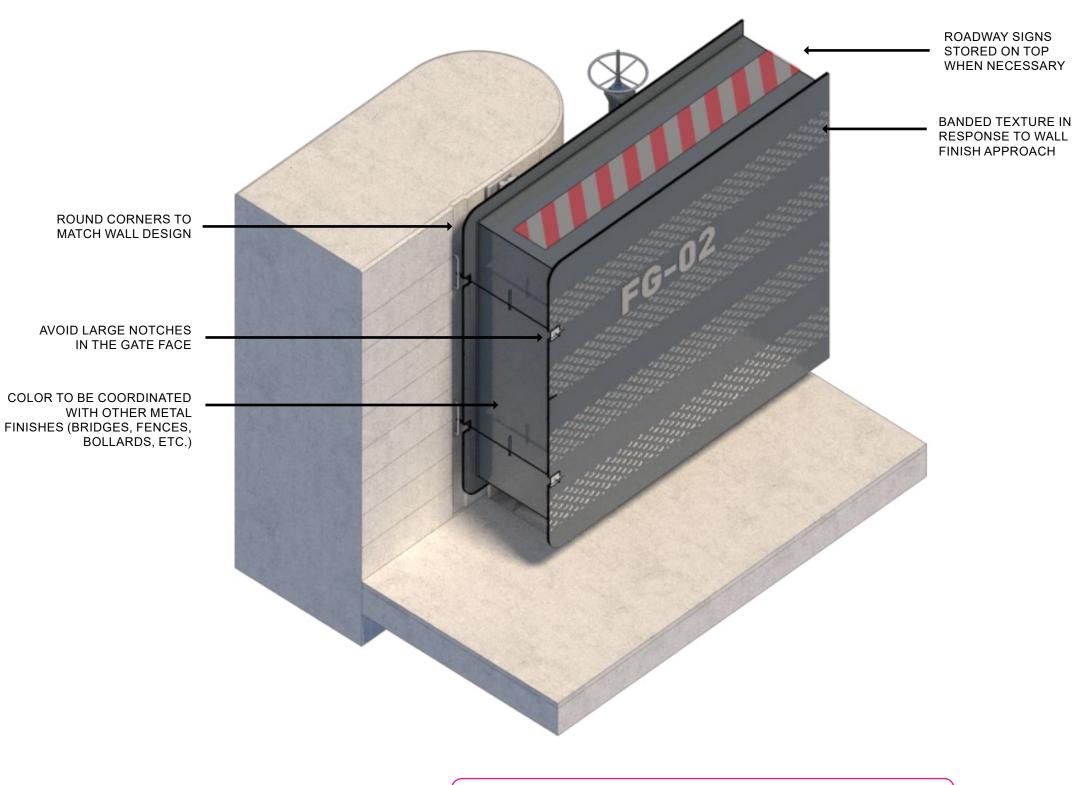
E 20TH STREET WALL SEGMENT - FLOOD SIDE







#### Model Photographs Final Review 100



PREVIOUSLY REVIEWED

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL AND URBANISM CONSTRUCTION **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. RECREATION TRANSPORTATION PROTECTION

DECEMBER 16, 2019

#### Flood Protection Gate Design 101

TEXT + LABELING GW GREY PAINT (ASSER LEVY)



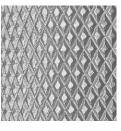
#### TEXT + LABELING MUNSEL GREY PAINT (TYP)



EMBOSSED

KNURLED





AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



## **Graphic Identity**

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



## **Graphic Identity**

103

# ABCDEFGHIJKLM NOPQRSTUV/WXYZ 0123456789

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

**DECEMBER 16, 2019** 



#### **Graphic Identity**

104

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FIN

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SI

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 RESILIE

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

BLANK PAGE

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FIN

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SI

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 RESILIE

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

BLANK PAGE

#### 106

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FIN

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SI

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 RESILIE

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

BLANK PAGE

#### 107

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FIN

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SI

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 RESILIE

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

BLANK PAGE

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FIN

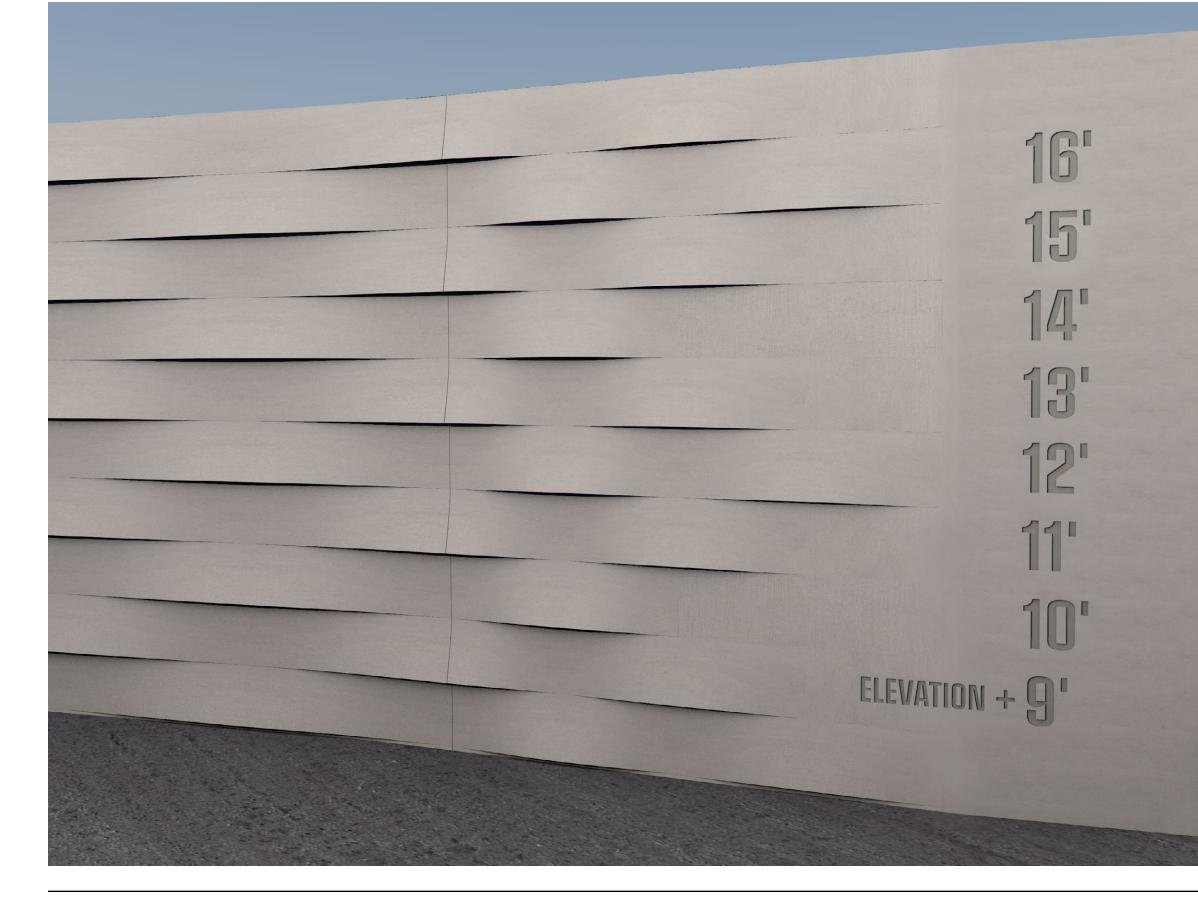
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SI

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 RESILIE

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

BLANK PAGE

#### 109



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY NEW YORK RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

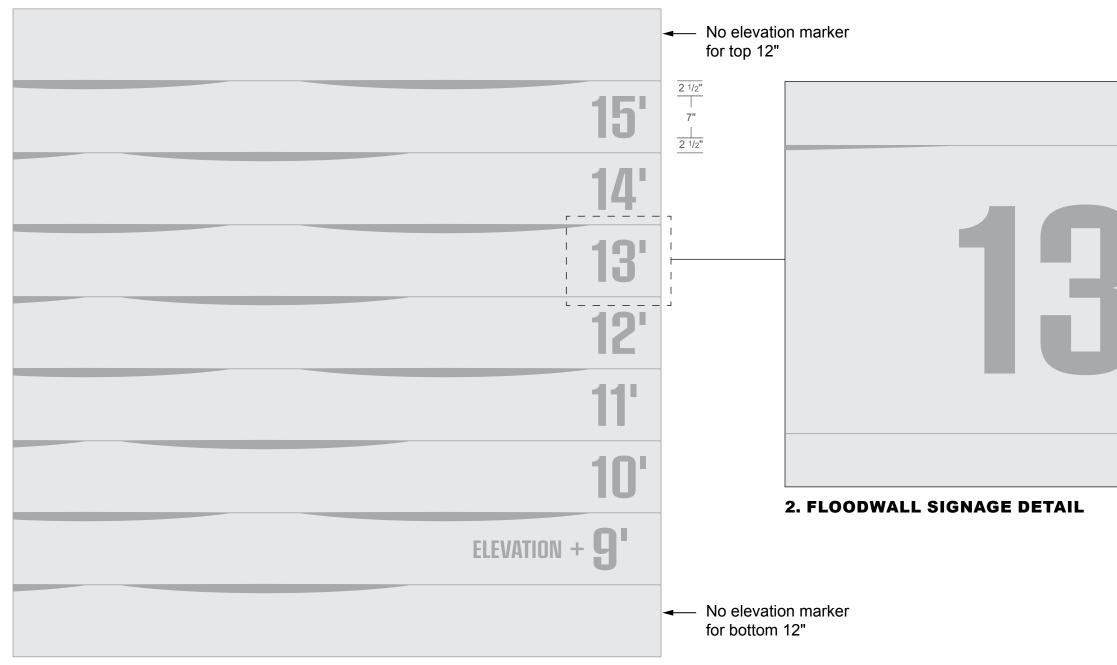
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

DECEMBER 16, 2019

## Flood Wall Signage

110





**1. FLOODWALL SIGNAGE TYP. ELEVATION** 

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINAL REVIEW

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

DECEMBER 16, 2019





## 3. FLOODWALL SIGNAGE DETAIL - SECTION

#### **Flood Wall Signage**



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY

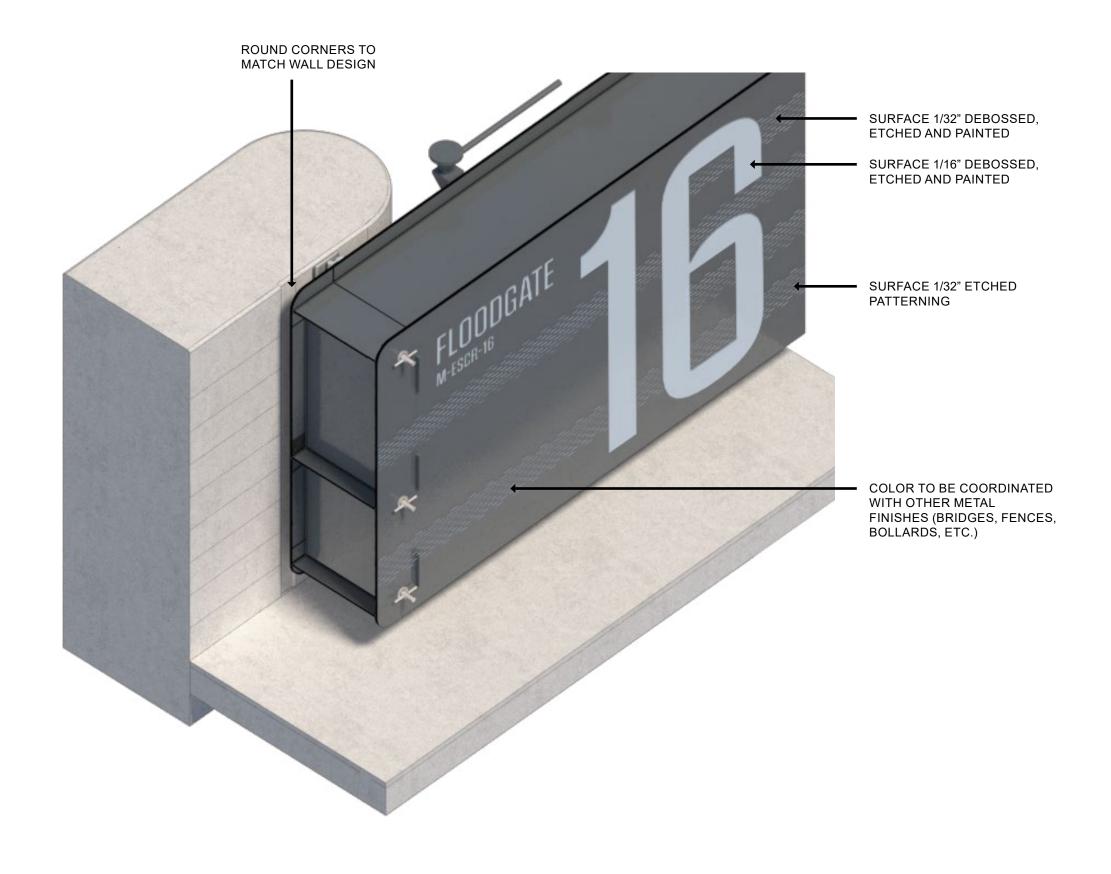
NEW YORK CITY NEW YORK ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

#### **Flood Protection** Gate Signage 112



AKRF-KSE, JVBJARKEMATHEWS NIELSENONENEW YORK CITYNEW YORK CITYNEW YORK CITY DEPT.NEW YORK C

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

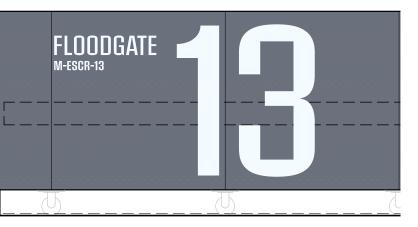
#### Flood Protection Gate Signage 113



#### TEXT + LABELING MUNSEL GREY PAINT (TYP)

FLOODGATE

M-ESCR-18

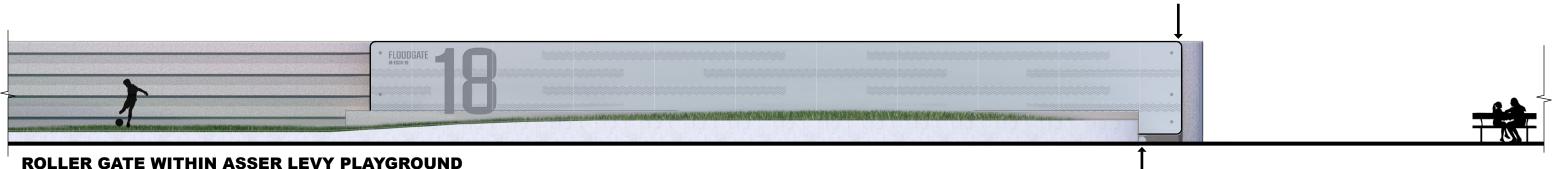


AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

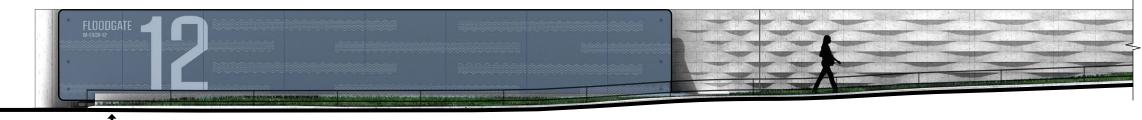


DECEMBER 16, 2019

**ROLLER GATE WITHIN ASSER LEVY PLAYGROUND** 







**TYPICAL SWING GATE (PIER 42)** 



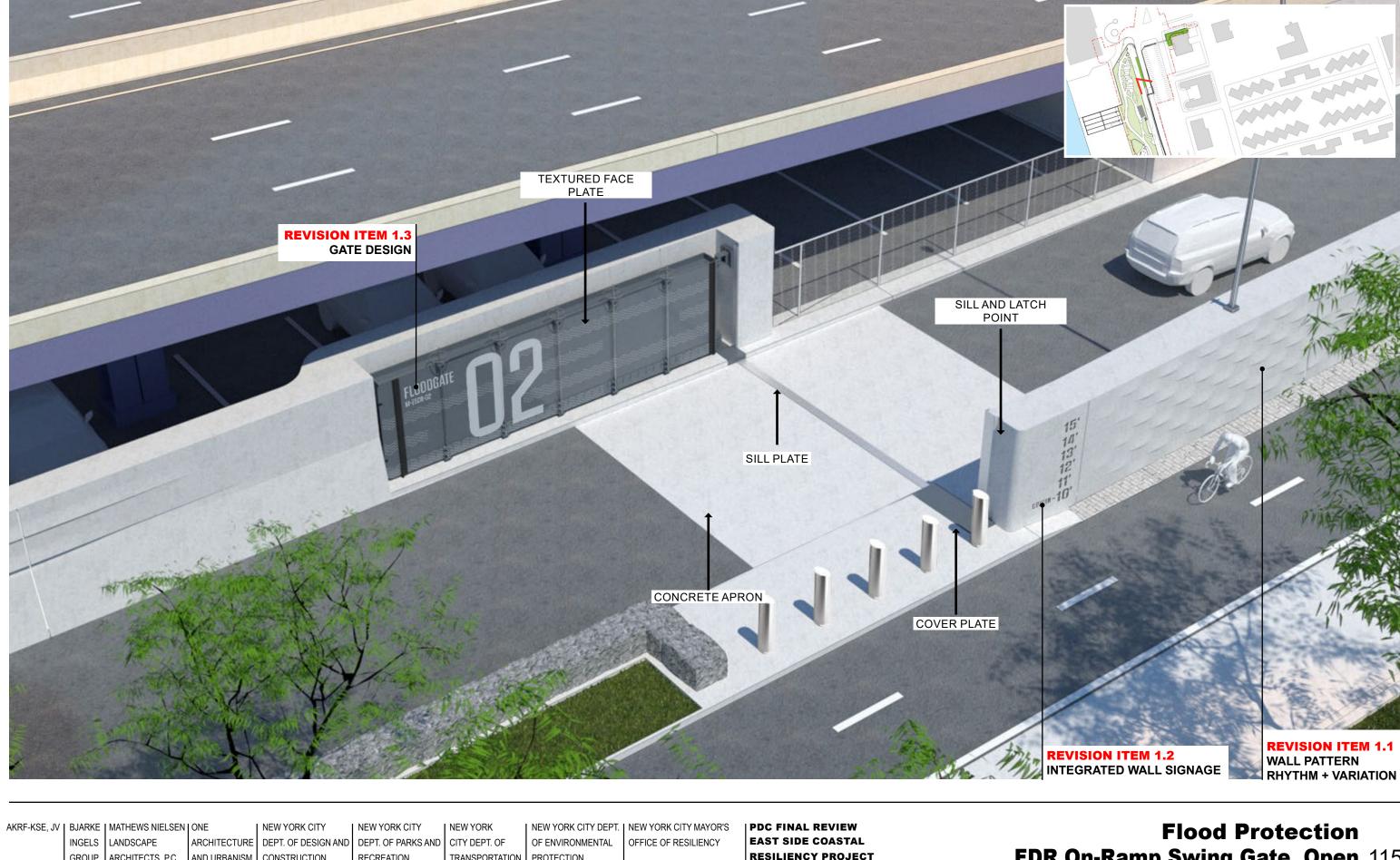
RETAINING WALL GATE POCKET

#### **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

DECEMBER 16, 2019



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY RECREATION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF TRANSPORTATION PROTECTION

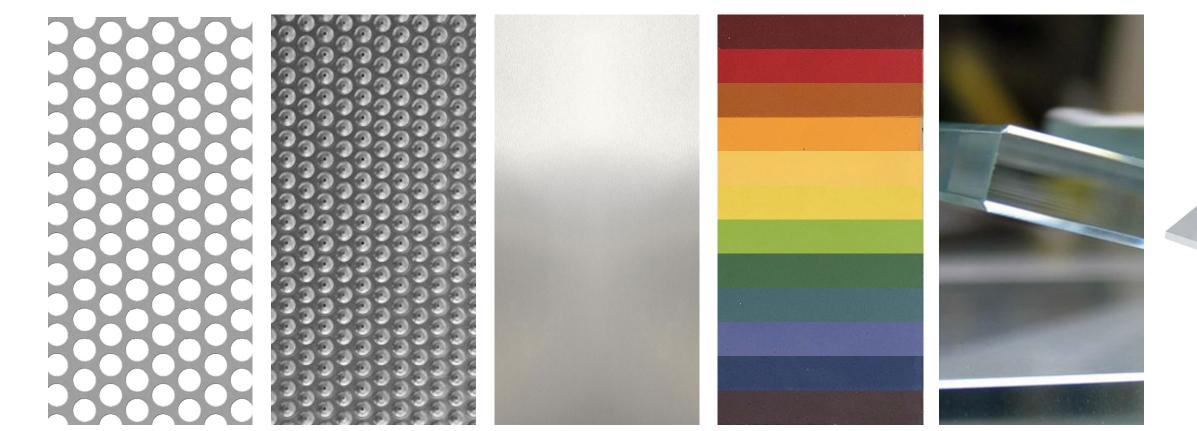
NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

#### **Flood Protection** FDR On-Ramp Swing Gate, Closed 116

DECEMBER 16, 2019





**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** 

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

ARCHITECTURE DEPT. OF DESIGN AND

NEW YORK CITY RECREATION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

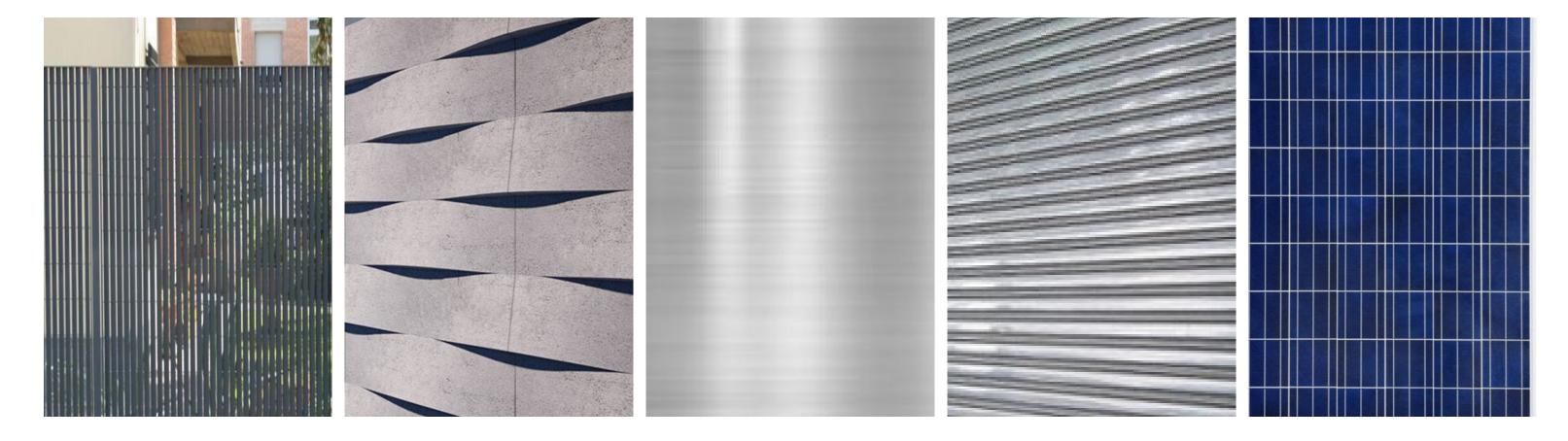




**Roof Access** Pre-cast Concrete Paver

**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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

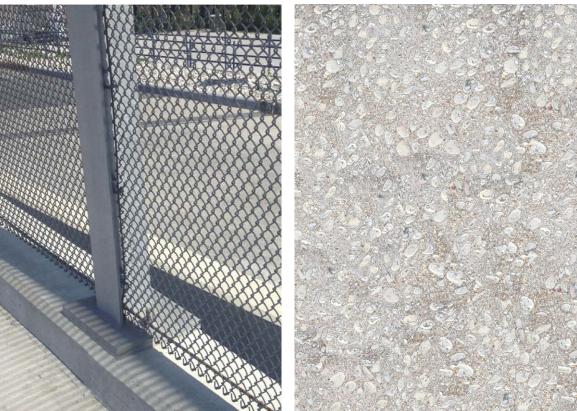
PDC FINAL REVIEW EAST SIDE COASTAL **RESILIENCY PROJECT** 

DECEMBER 16, 2019

**Photovoltaic Cells** M&O Area Canopy

#### **Materials** Maintenance Areas 118

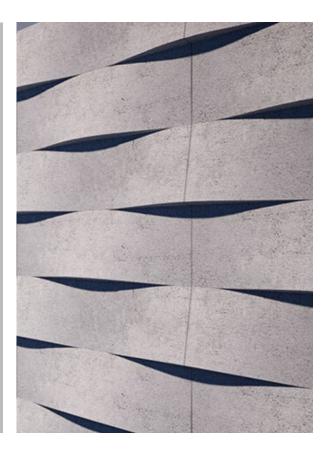




Bridge Handrail Stainless Steel Bridge Guardrail + Fence Galvanized Steel Bridge Deck Exposed Concrete **Bridge Structure** Painted Steel: Color George Washington Gray

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019



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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK RECREATION

OF ENVIRONMENTAL TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY

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

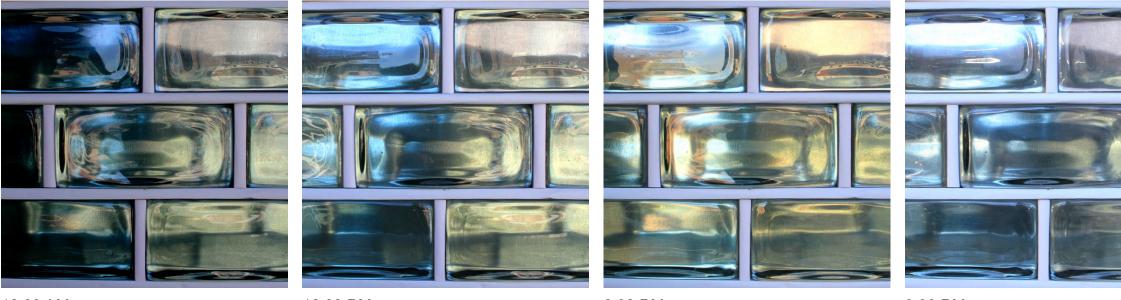
DECEMBER 16, 2019



#### FLAT-LOCK METAL TILE

Sloped Roof Assembly

#### **Interceptor Gate Building** Materials 120



10:00 AM

12:00 PM

2:00 PM

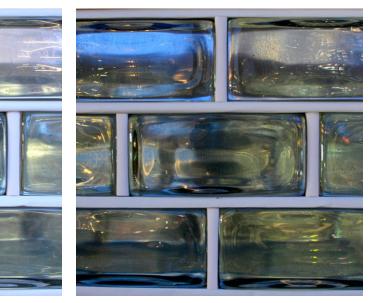
3:00 PM

#### **OFFICE MOCKUP PHOTOGRAPHS**

December 12th, 2019

1	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	
		INGELS	LANDSCAPE	ARCHITECTURE	DEPT. OF DESIGN AND	DEPT. OF PARKS AND	CITY DEPT. OF	OF ENVIRONMENTAL	OFFICE OF RESILIENCY	EAST SIDE COASTAL	
		GROUP	ARCHITECTS, P.C.	AND URBANISM	CONSTRUCTION	RECREATION	TRANSPORTATION	PROTECTION		RESILIENCY PROJECT	Gla

DECEMBER 16, 2019

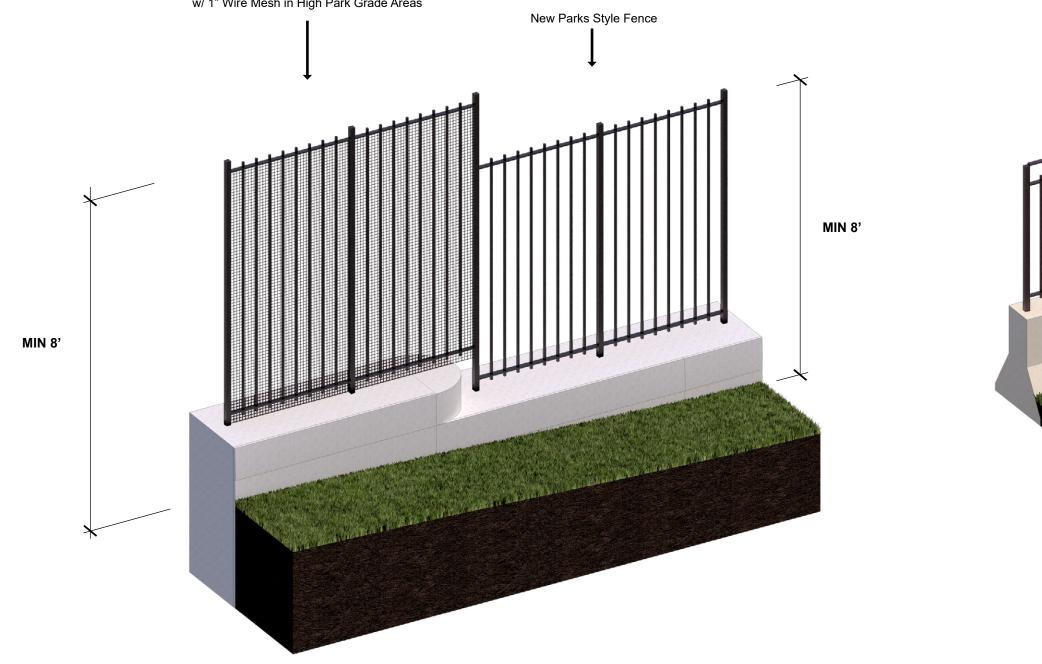


5:00 PM

#### Interceptor Gate Building ass Brick Natural Light StudyA120

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 DEPT. OF PARKS AND CITY DEPT. OF OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION **RESILIENCY PROJECT** RECREATION

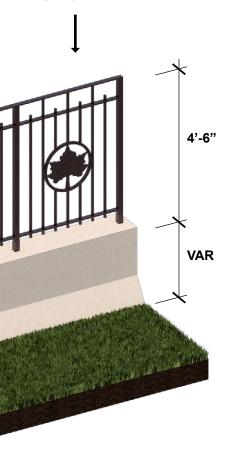
NEW WALL AND FENCE



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

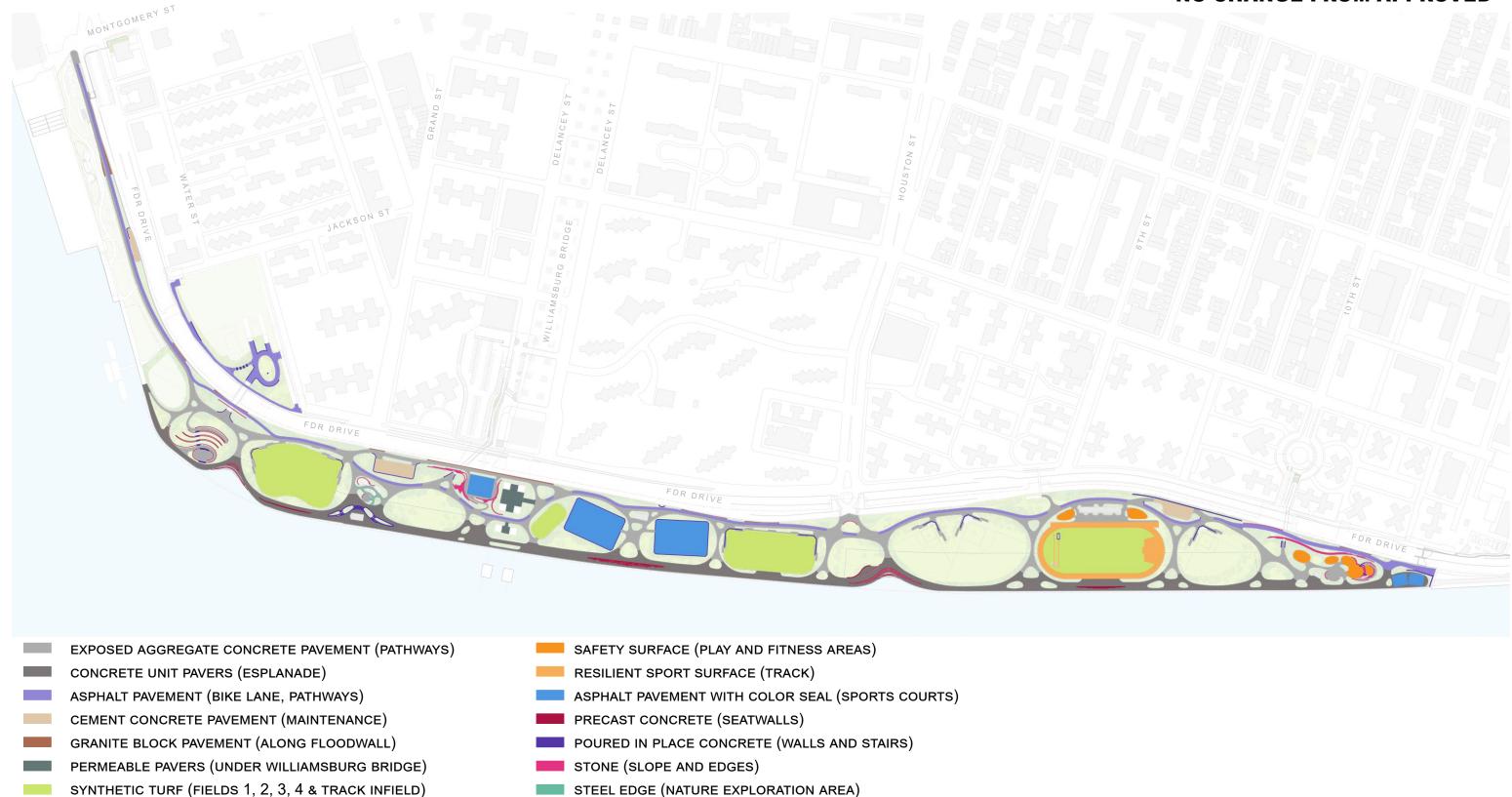
#### **NO CHANGE FROM APPROVED**

Existing ERP Parks Fence and Highway Barrier



**EXISTING TO REMAIN** 

#### **Flood and Highway Walls** Highway Fence 121



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY
 NEW YORK
 <

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PROTECTION

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

#### **NO CHANGE FROM APPROVED**

#### Park Materials Key Plan PA1 122



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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

PERMEABLE PAVERS (UNDER WILLIAMSBURG BRIDGE)

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

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

#### **NO CHANGE FROM APPROVED**

(NOT TO SCALE) (



#### **Park Materials** Key Plan PA2 123

#### **PRIMARY PATHWAYS**



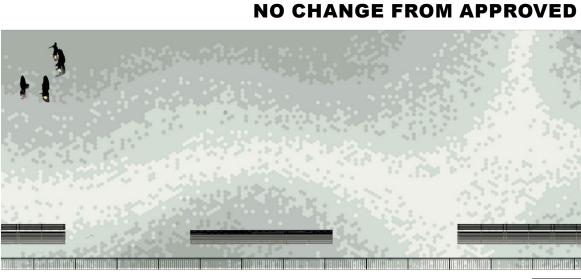
FULL DEPTH ASPHALT PAVEMENT BIKE LANE



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

AKRF-KSE, JVBJARKEMATHEWS NIELSENONENEW YORK CITYNEW YORK CITYNEW YORK CITYNEW YORK CITY DEPT.NEW YORK CITY DAYOR'SINGELSLANDSCAPEARCHITECTUREDEPT. OF DESIGN AND<br/>CONSTRUCTIONDEPT. OF PARKS AND<br/>RECREATIONCITY DEPT. OF<br/>TRANSPORTATIONOF ENVIRONMENTAL<br/>PROTECTIONOFFICE OF RESILIENCY

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

#### Park Materials Paving 124

10'



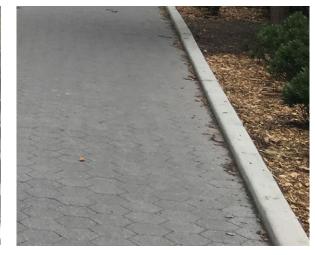
LANDSCAPE STONE SLOPE AND EDGES



**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

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

DECEMBER 16, 2019

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

INGELS

LANDSCAPE

RECREATION

NEW YORK

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

#### **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

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019





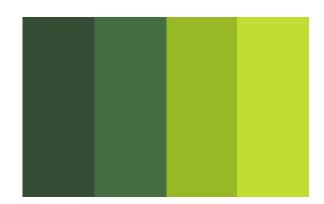
SYNTHETIC TURF W/ INFILLLFIELDS 1, 2, 3, 4

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

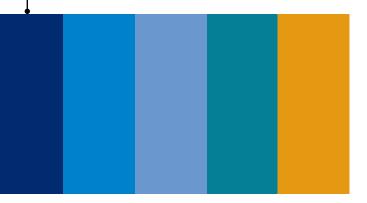
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

DECEMBER 16, 2019

#### **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

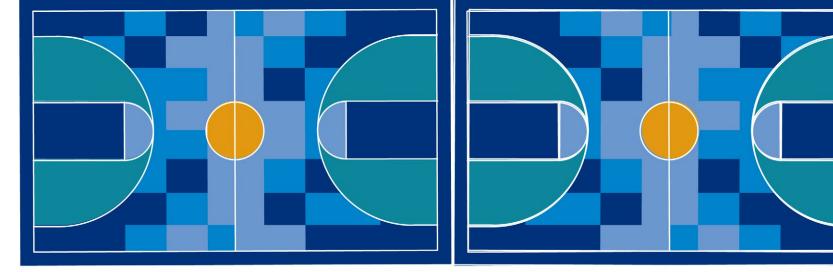
RESILIENCY PROJECT

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

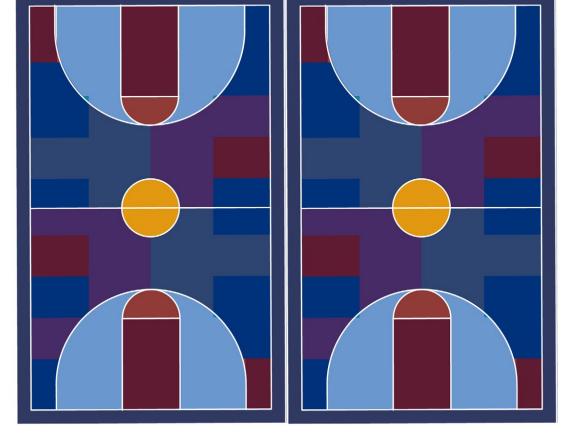
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

**BASKETBALL COURT PATTERN - 10TH STREET** 



**BASKETBALL COURT PATTERN - DELANCEY STREET** 

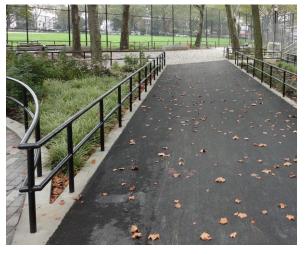


#### Material Palettes Court ColorsC127





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** 

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE ARCHITECTURE DEPT. OF DESIGN AND INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK CITY

NEW YORK DEPT. OF PARKS AND CITY DEPT. OF TRANSPORTATION PROTECTION RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL

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

DECEMBER 16, 2019

#### **NO CHANGE FROM APPROVED**



#### **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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C.

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019

#### **NO CHANGE FROM APPROVED**





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





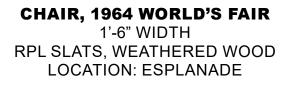
**STANDARD PUB-**LIC SPACE BINS TRASH RECEPTACLE MAGLIN MODEL: CMLWR9074032HST COLOR GRAY W/ **BLACK LID** 



**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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK CITY NEW YORK DEPT. OF PARKS AND

RECREATION

CITY DEPT. OF

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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

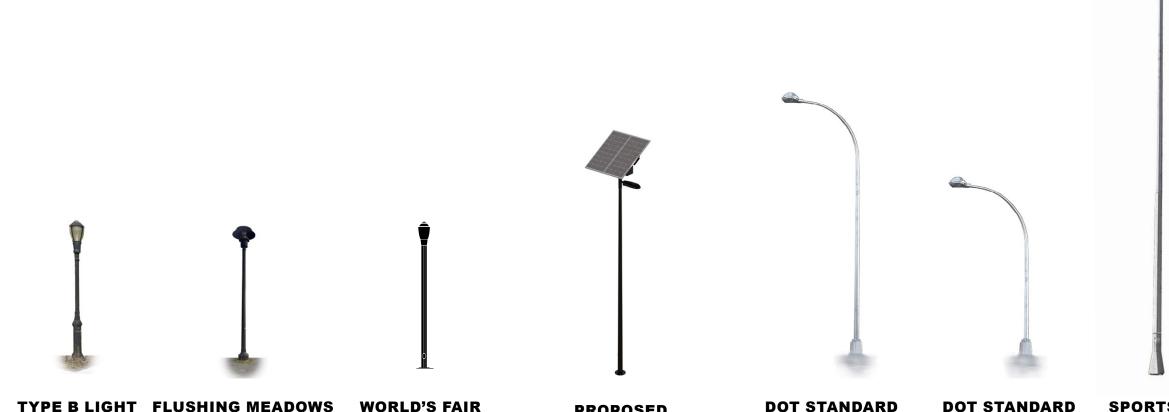
DECEMBER 16, 2019

**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	<b>EVERGEN M SERIES</b>	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)			

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019

#### Lighting Lighting Fixtures Palette 131

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

OF OR

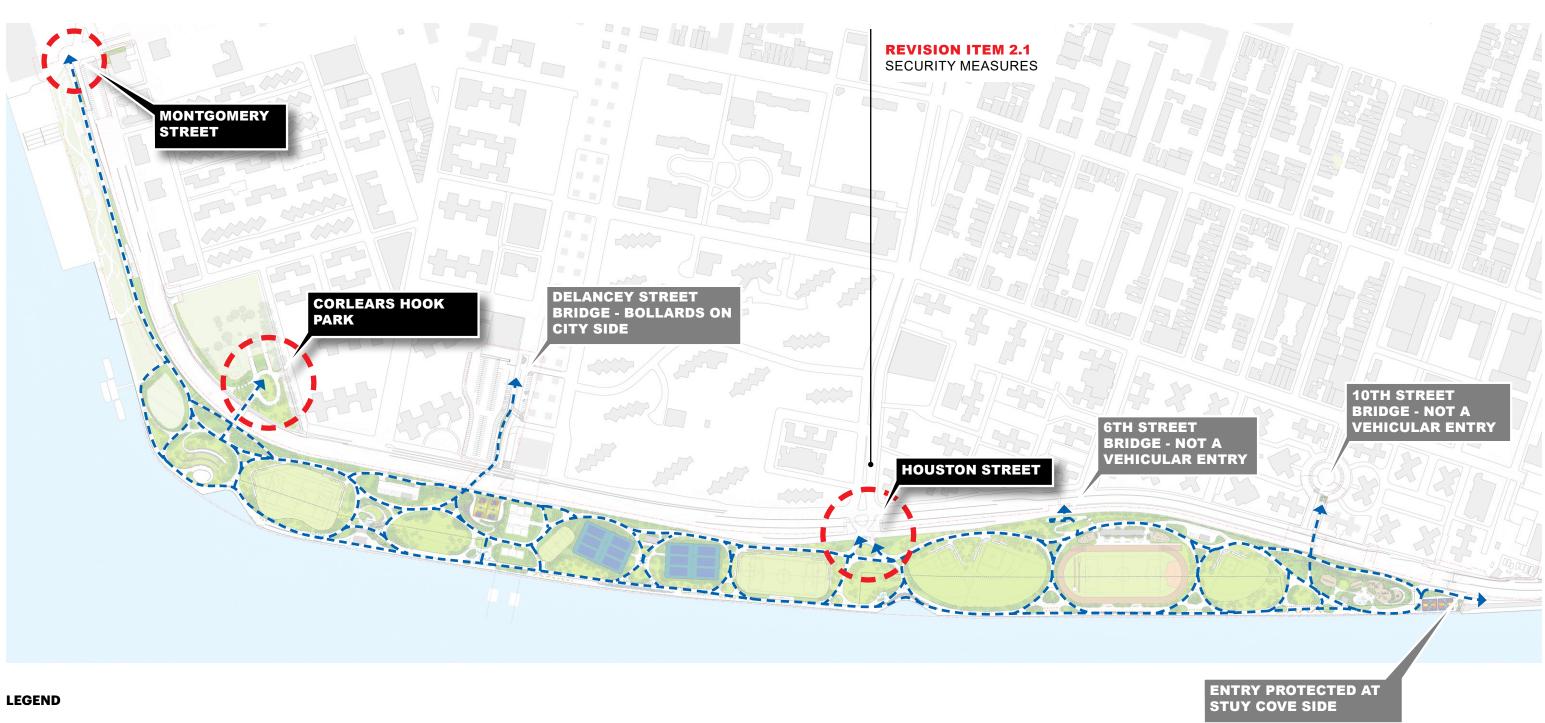
SPORTS TOWER 30' POLE LED FLOODLIGHT COLOR: SILVER AMPHITHEATER TYPE M 27'-7" POLE LED ROW



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 EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

VEHICULAR ENTRIES FOR SECURITY MEASURES

- MAJOR CIRCULATION PATHS (EAST RIVER PARK) 



#### **Security Measures PA1** 132

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINAL REVIEW

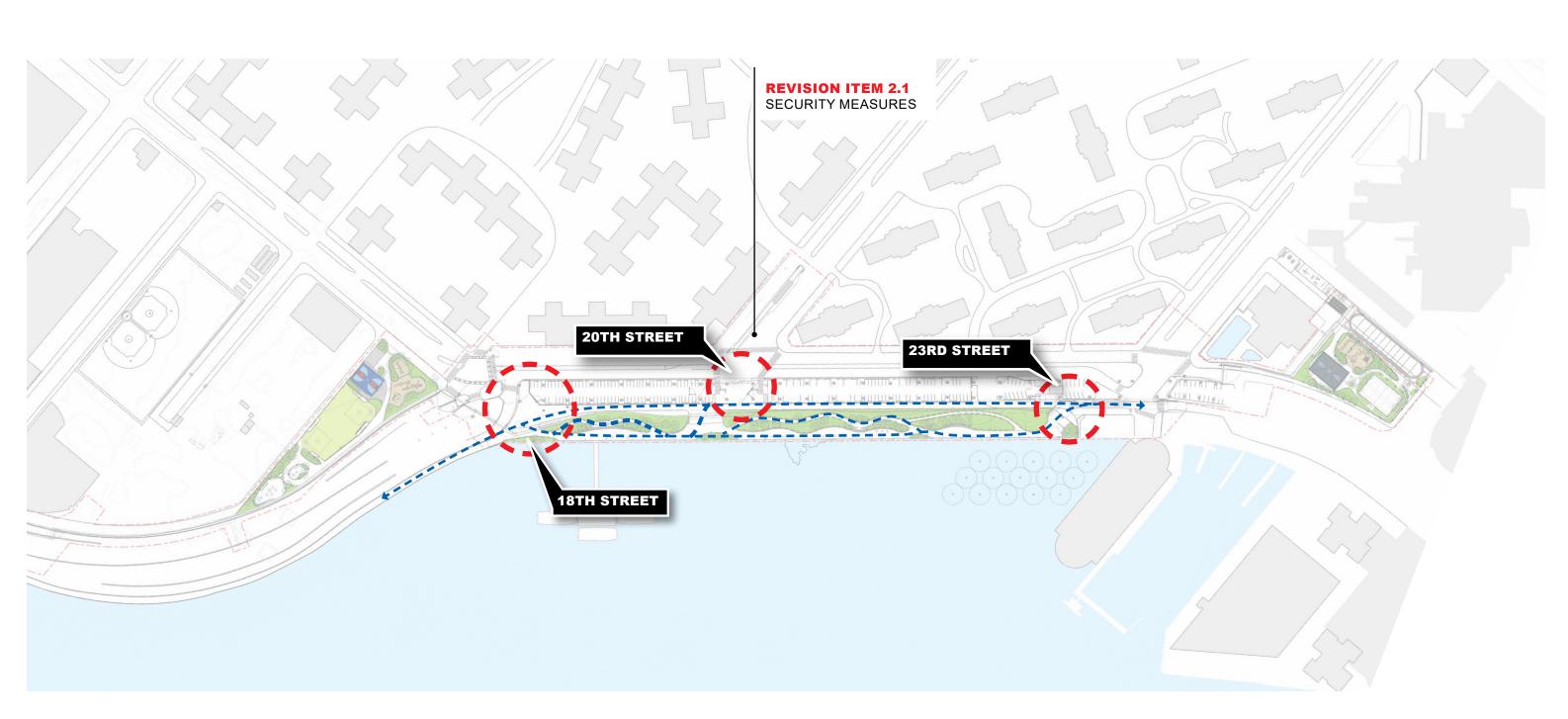
 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

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

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)

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S INGELS ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

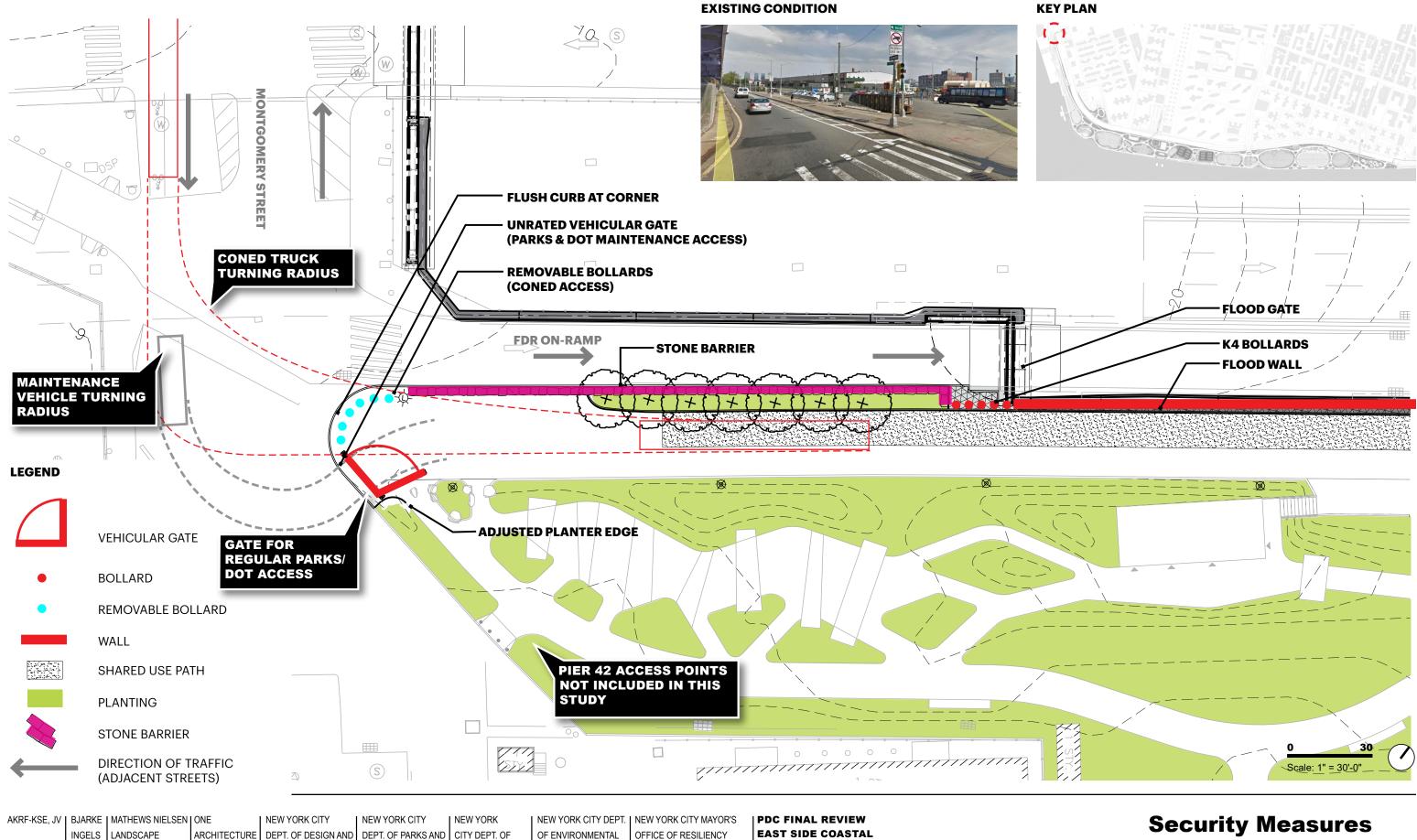
PDC FINAL REVIEW EAST SIDE COASTAL OFFICE OF RESILIENCY

RESILIENCY PROJECT

DECEMBER 16, 2019

# Security Measures Toolkit 134

**EXISTING CONDITION** 



GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

RECREATION

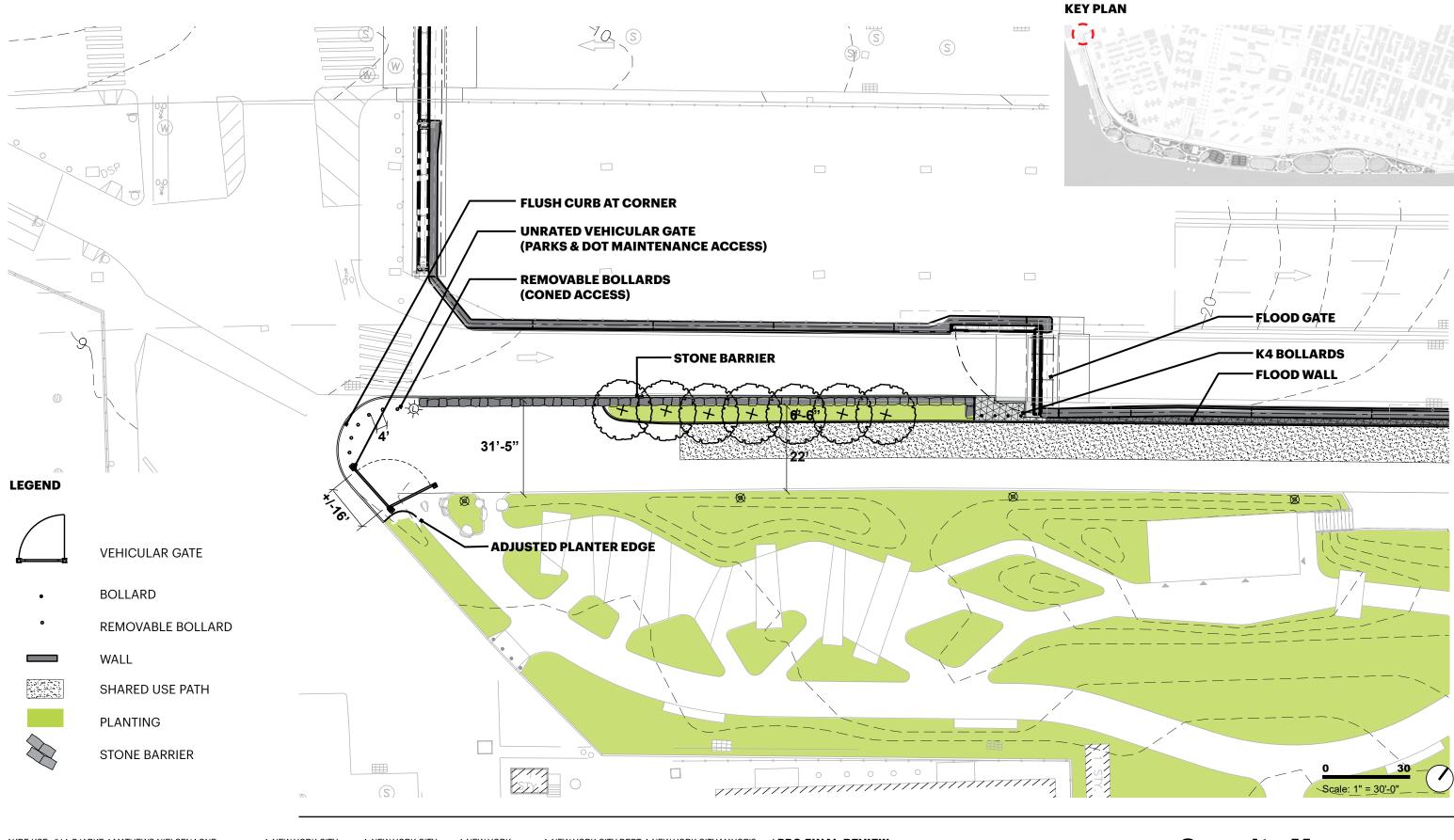
TRANSPORTATION PROTECTION

DECEMBER 16, 2019

**RESILIENCY PROJECT** 

## Montgomery Street 135

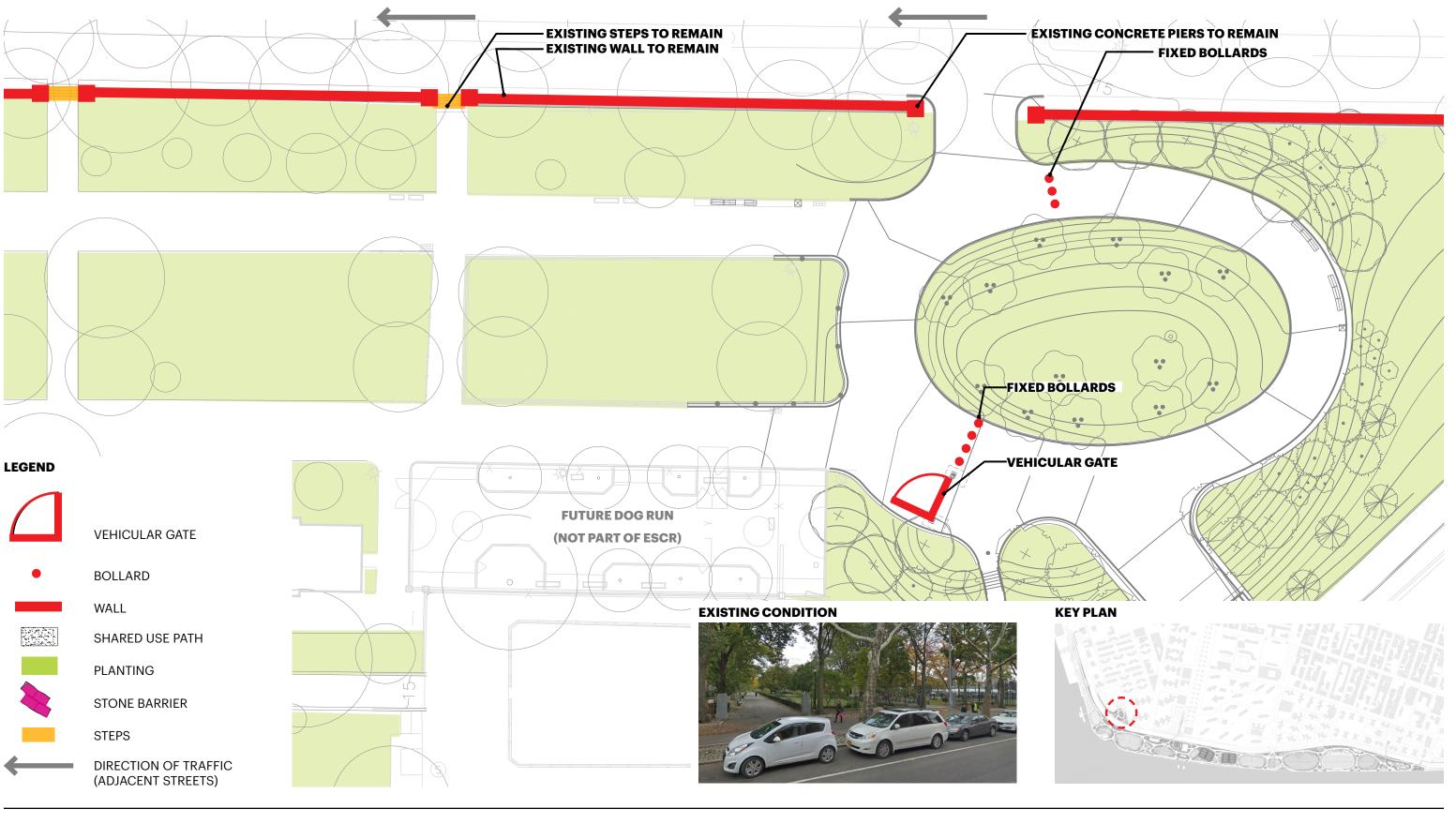
NEW YORK CITY MAYOR'S AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. PDC FINAL REVIEW OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL **RESILIENCY PROJECT**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



#### **Security Measures** Montgomery Street 136

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK
 NEW YORK
 NEW YORK CITY
 NEW YORK
 NEW YOR

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



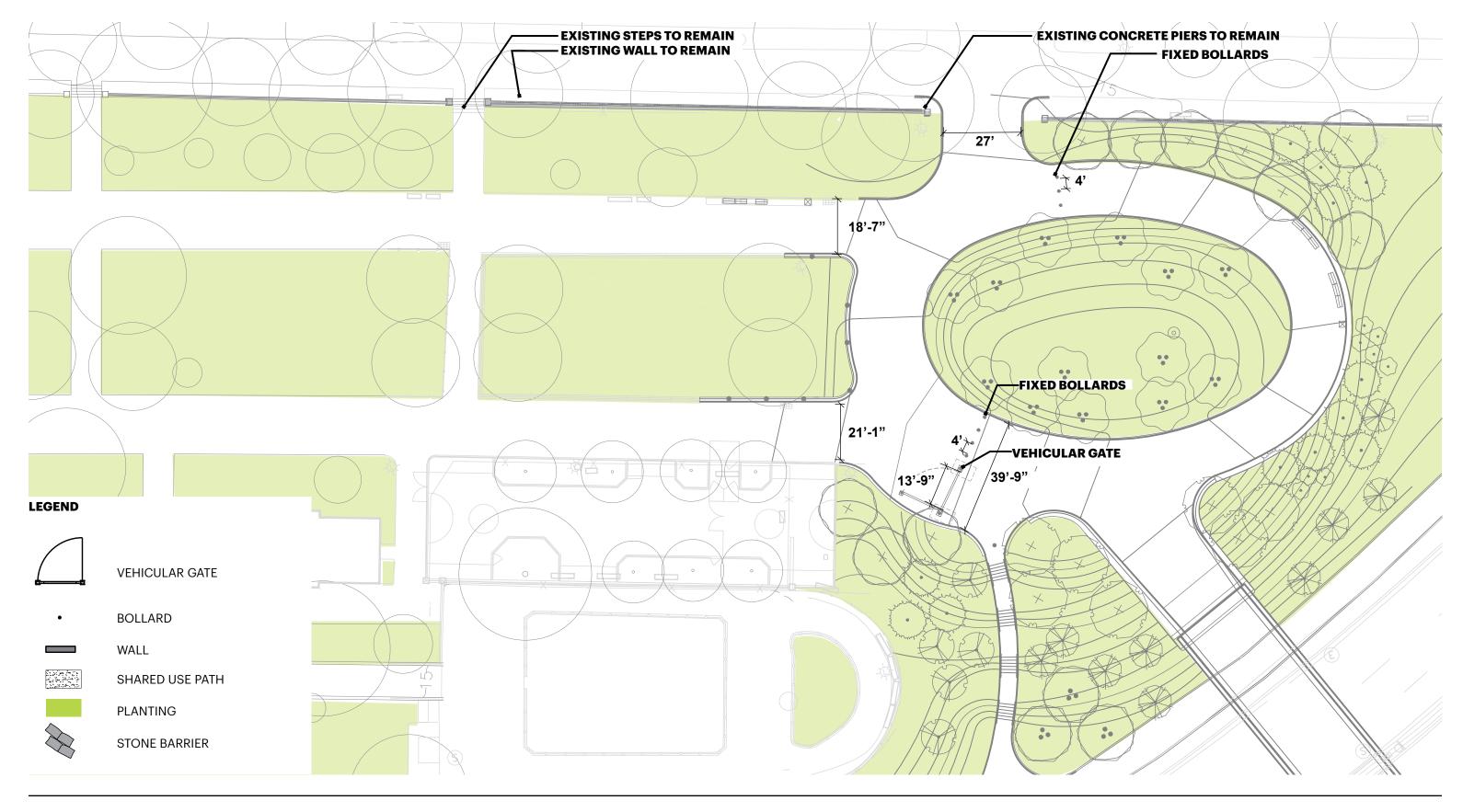
#### Security Measures Corlears Hook Park 137

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK
 NEW YORK CITY

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONM

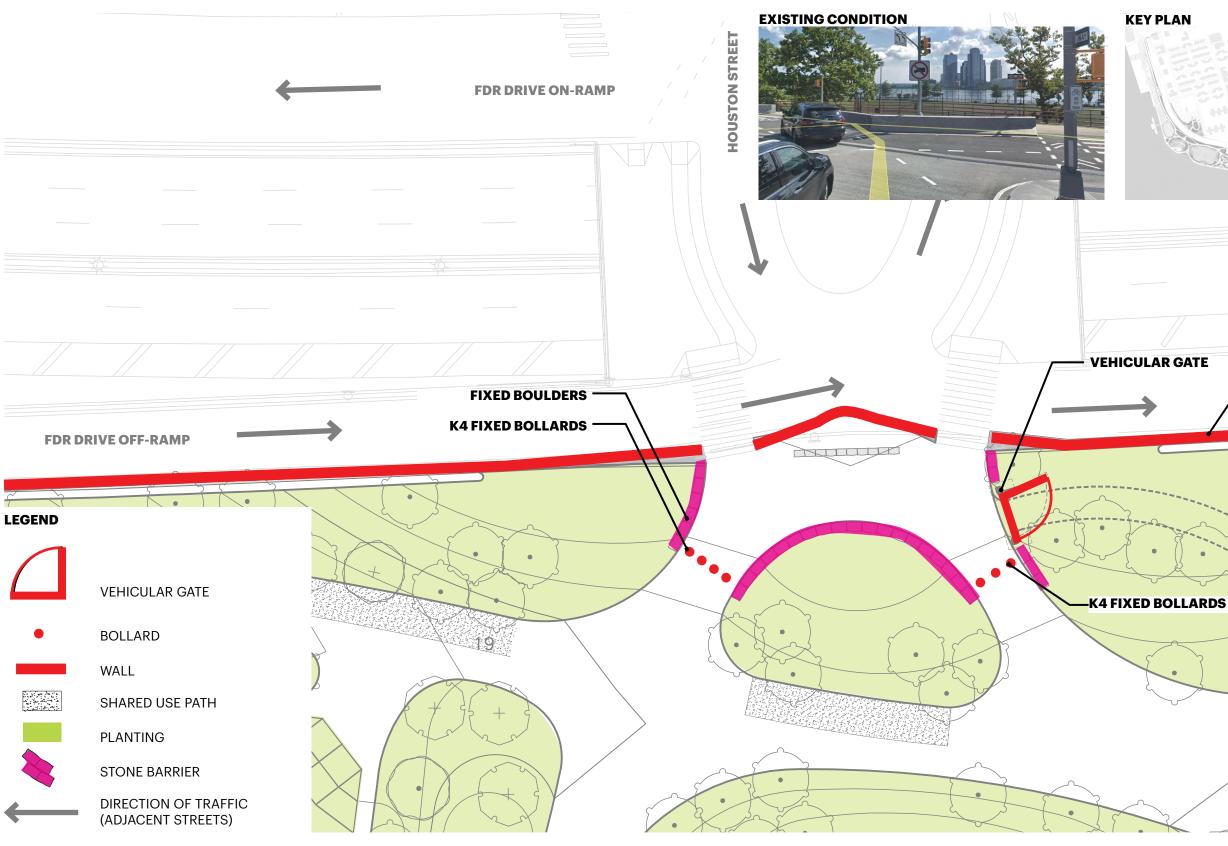
 GROUP
 ARCHITECTS, P.C.
 AND URBANISM
 CONSTRUCTION
 RECREATION
 TRANSPORTATION
 PROTECTION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT



#### Security Measures Corlears Hook Park 138

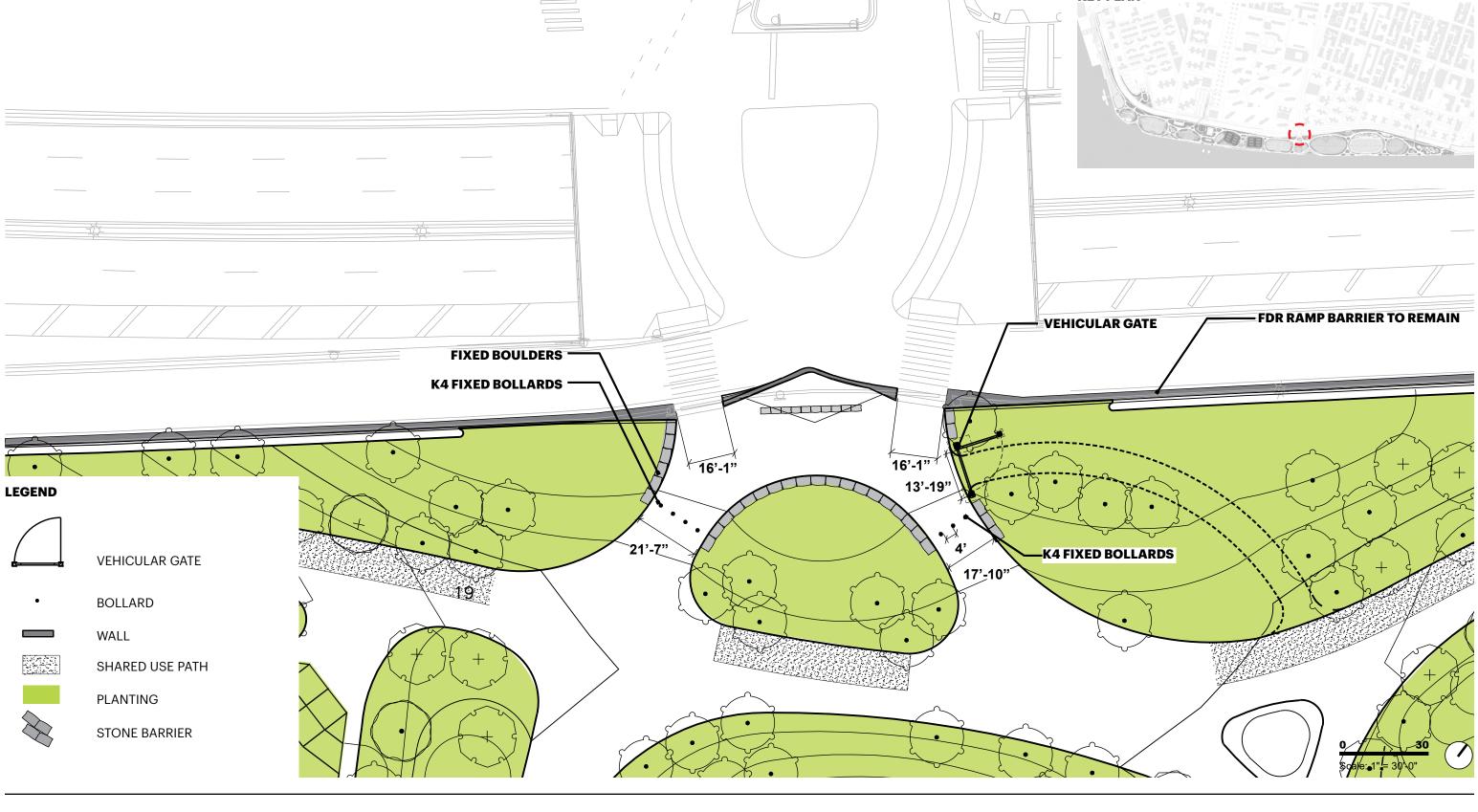
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S **PDC FINAL REVIEW** DEPT. OF PARKS AND CITY DEPT. OF EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL OFFICE OF RESILIENCY **RESILIENCY PROJECT**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



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

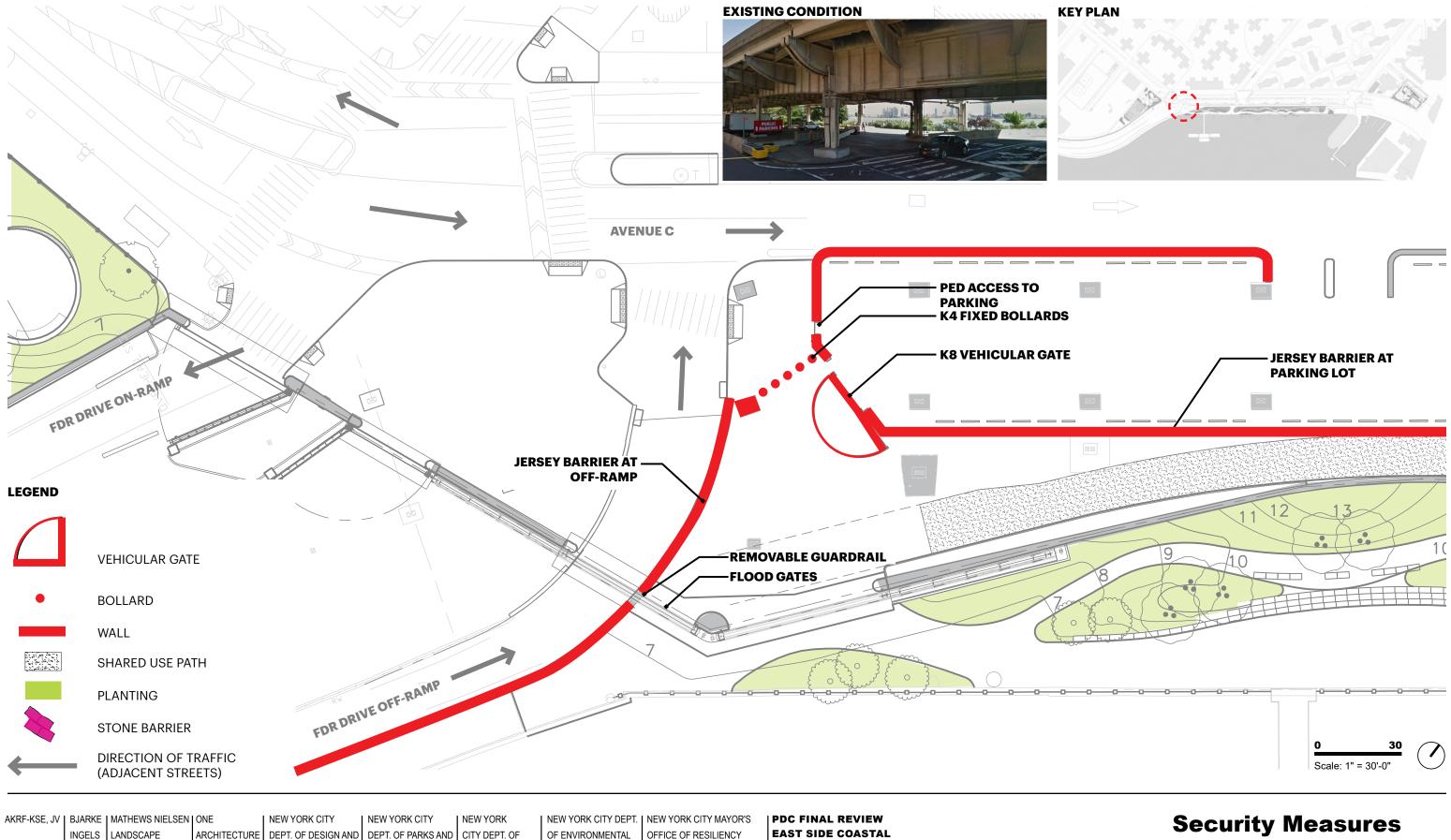
#### Security Measures Houston Street 139

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION **RESILIENCY PROJECT** RECREATION TRANSPORTATION PROTECTION



### **Security Measures** Houston Street 140

**KEY PLAN** 



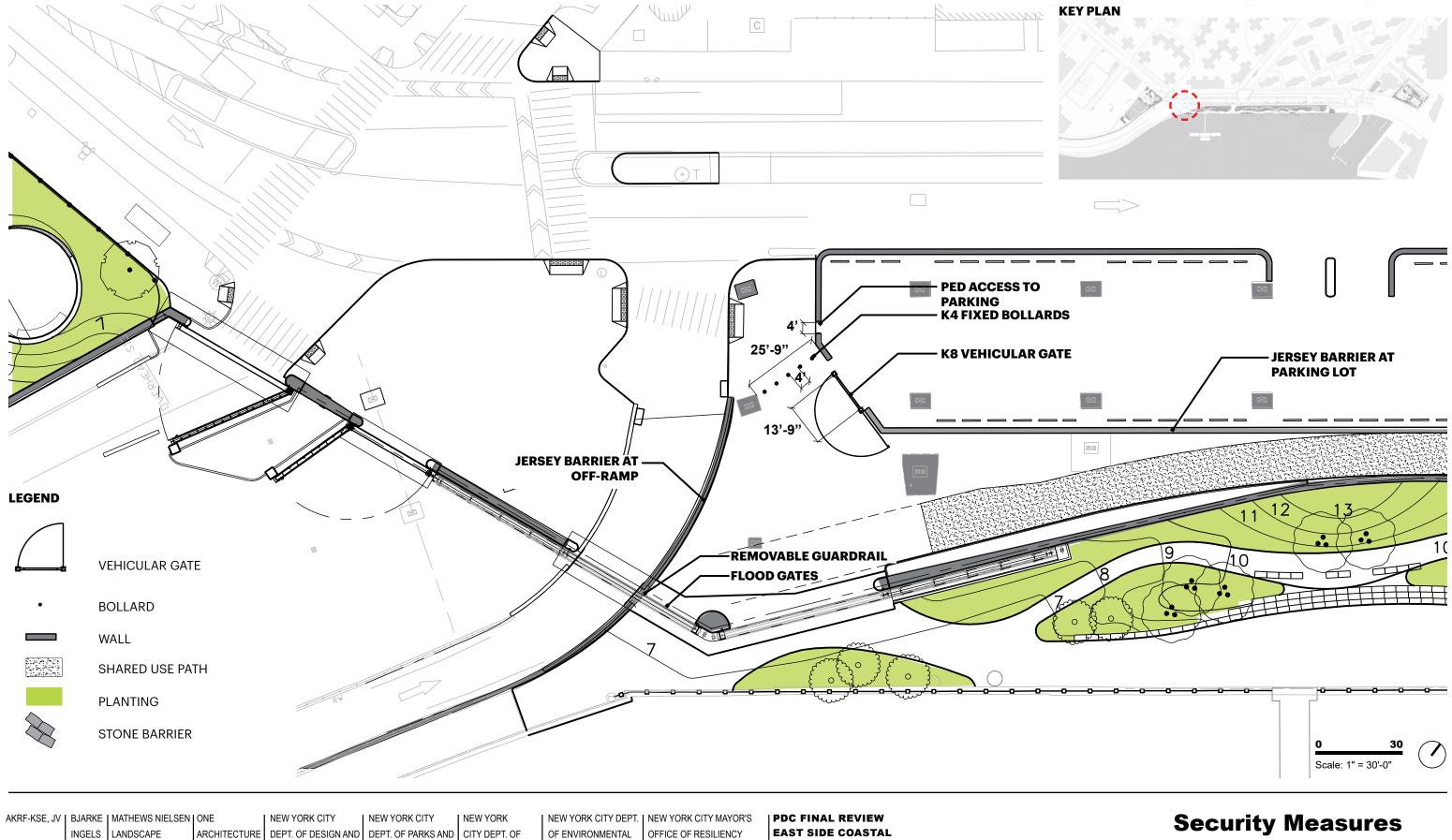
**RESILIENCY PROJECT** DECEMBER 16, 2019

TRANSPORTATION PROTECTION

RECREATION

GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

## 18th Street 141



GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

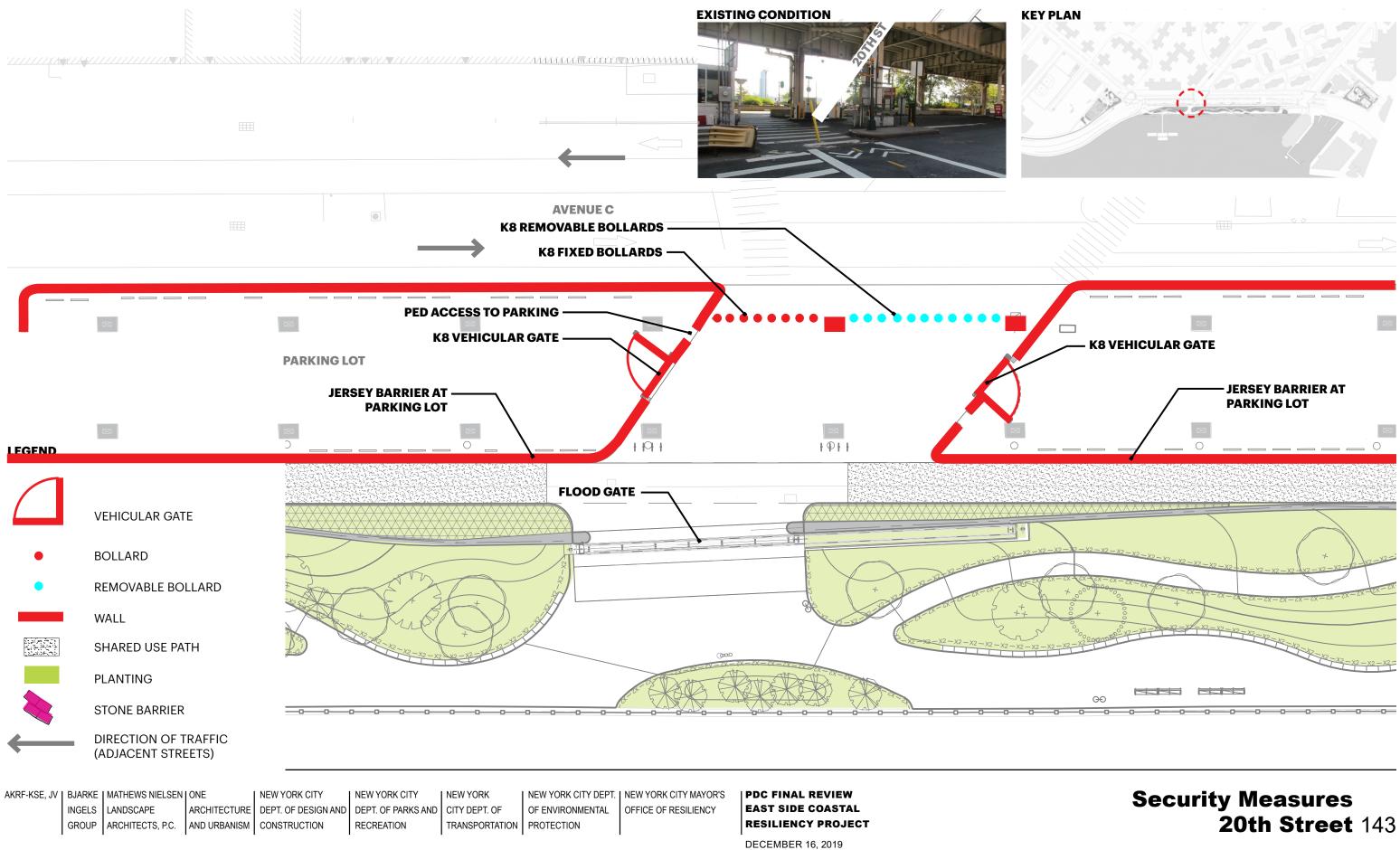
RECREATION

TRANSPORTATION PROTECTION

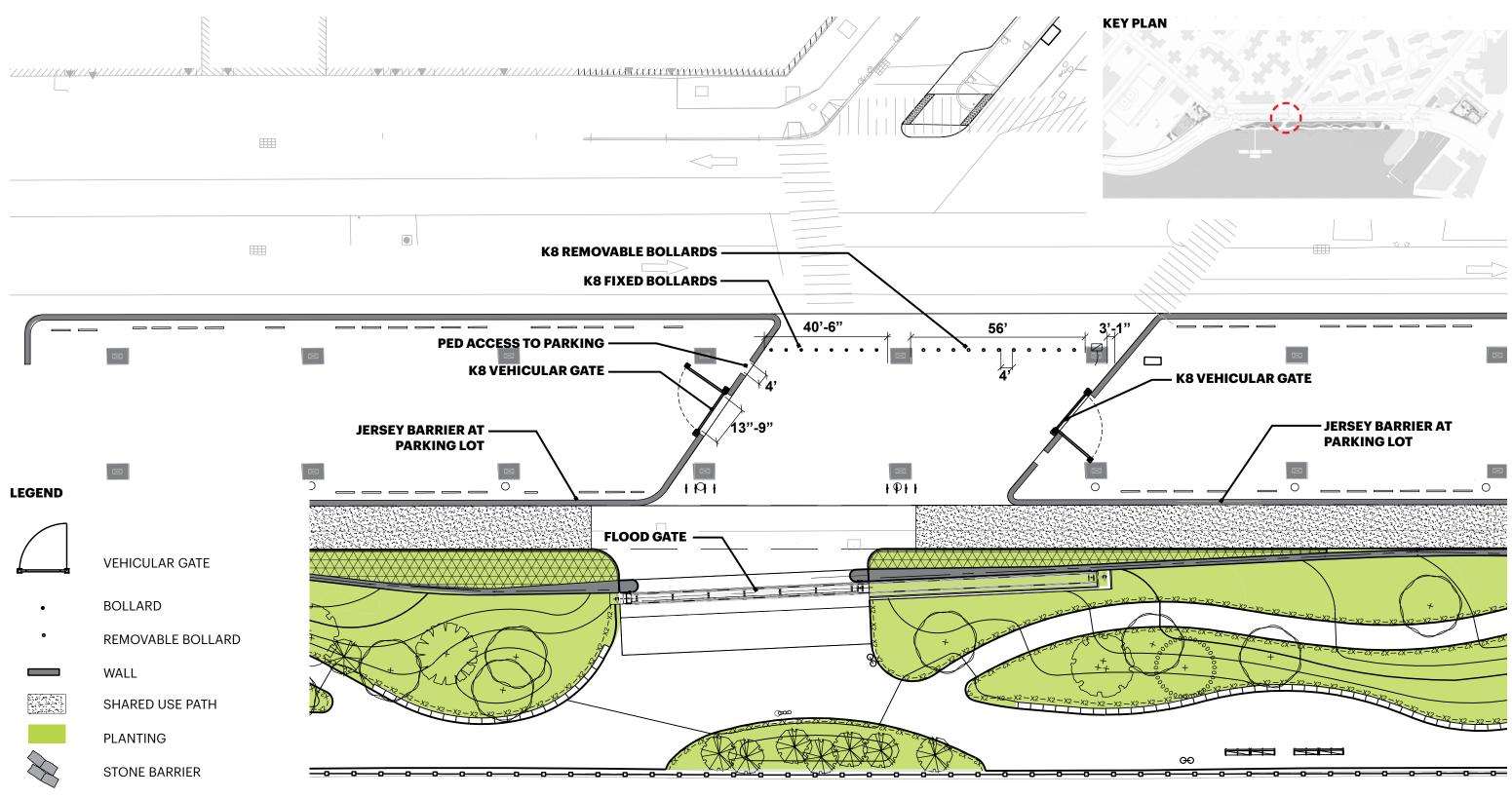
**RESILIENCY PROJECT** 

DECEMBER 16, 2019

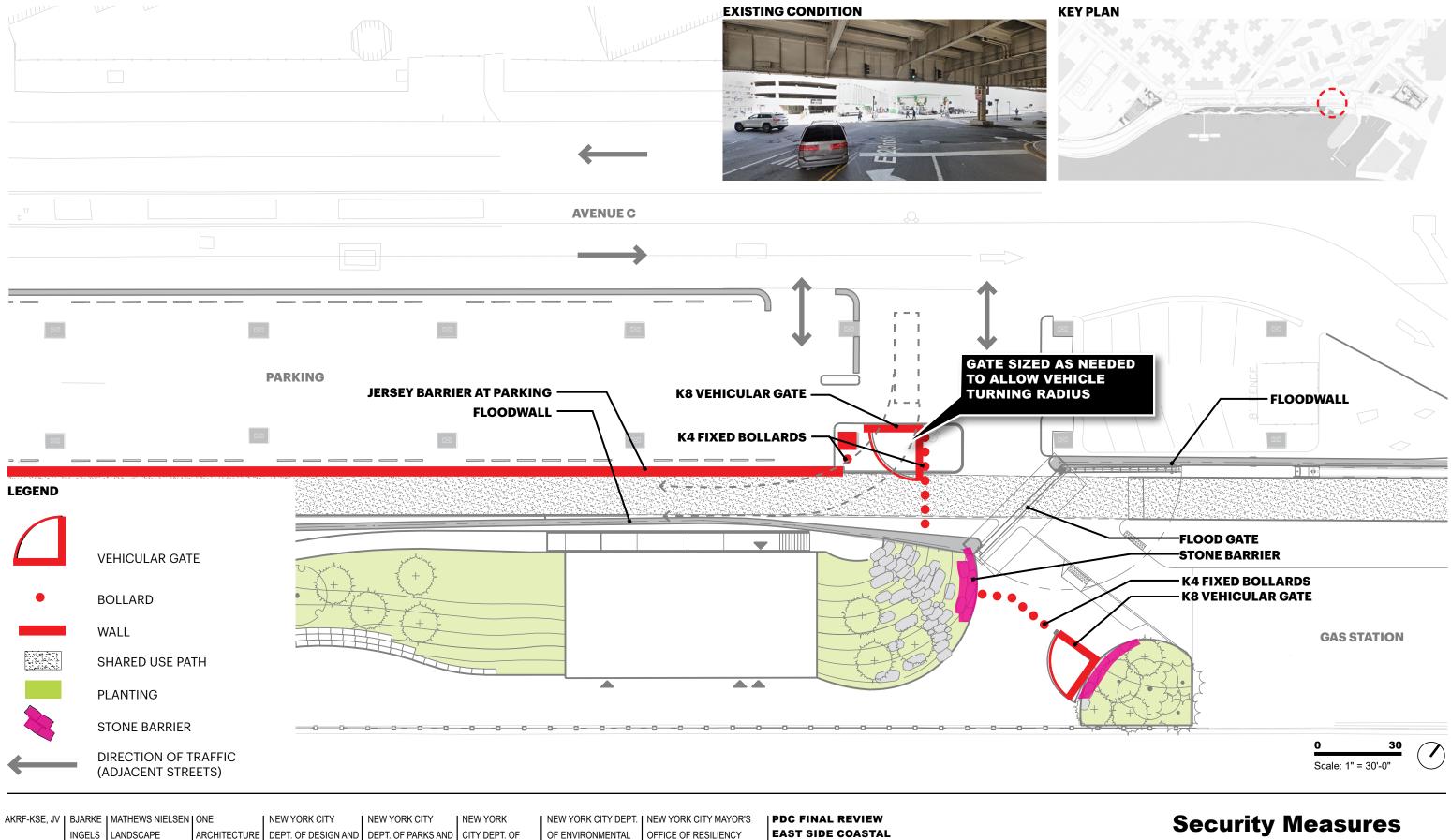
#### **Security Measures 18th Street** 142



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** 

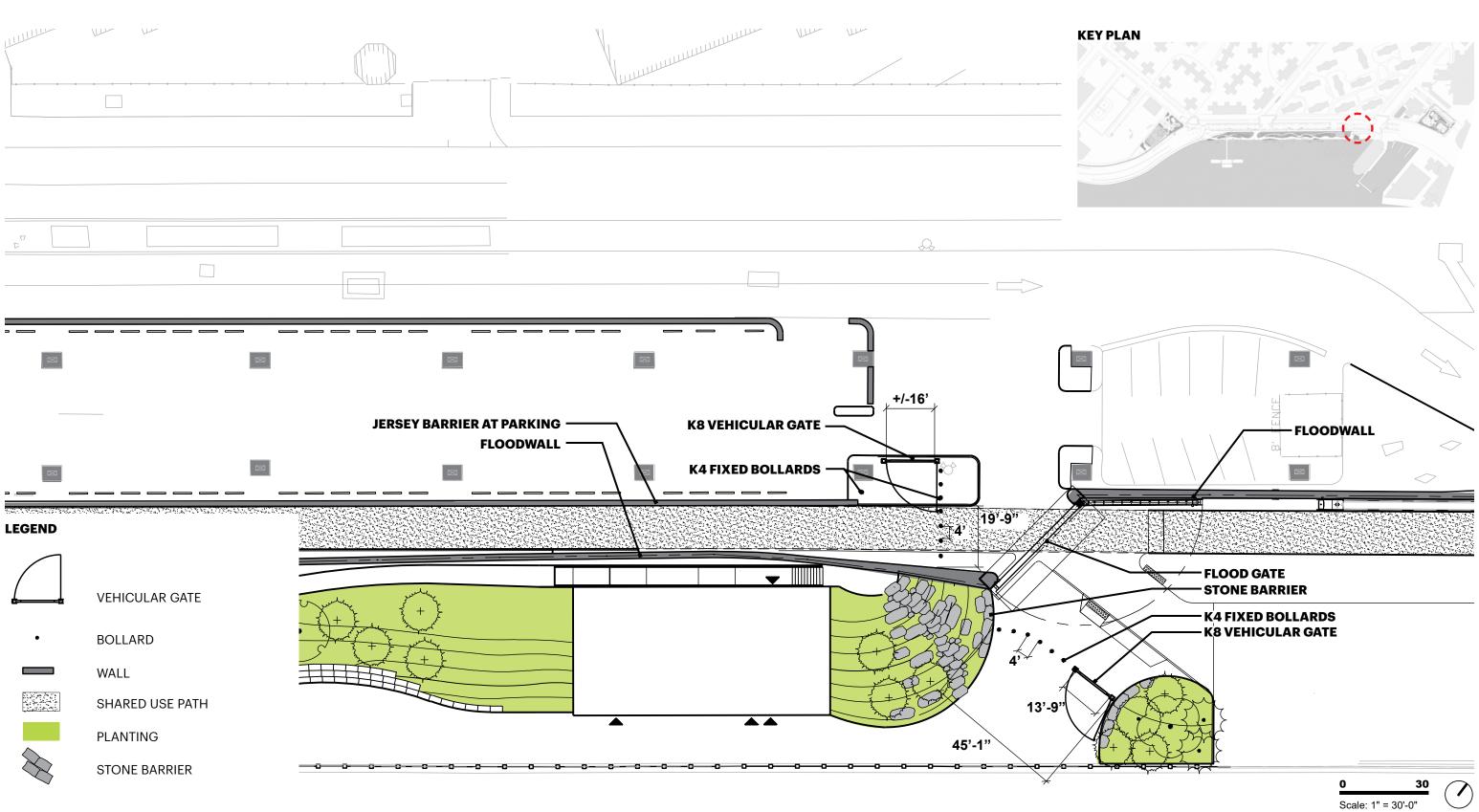
RECREATION TRANSPORTATION PROTECTION

GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

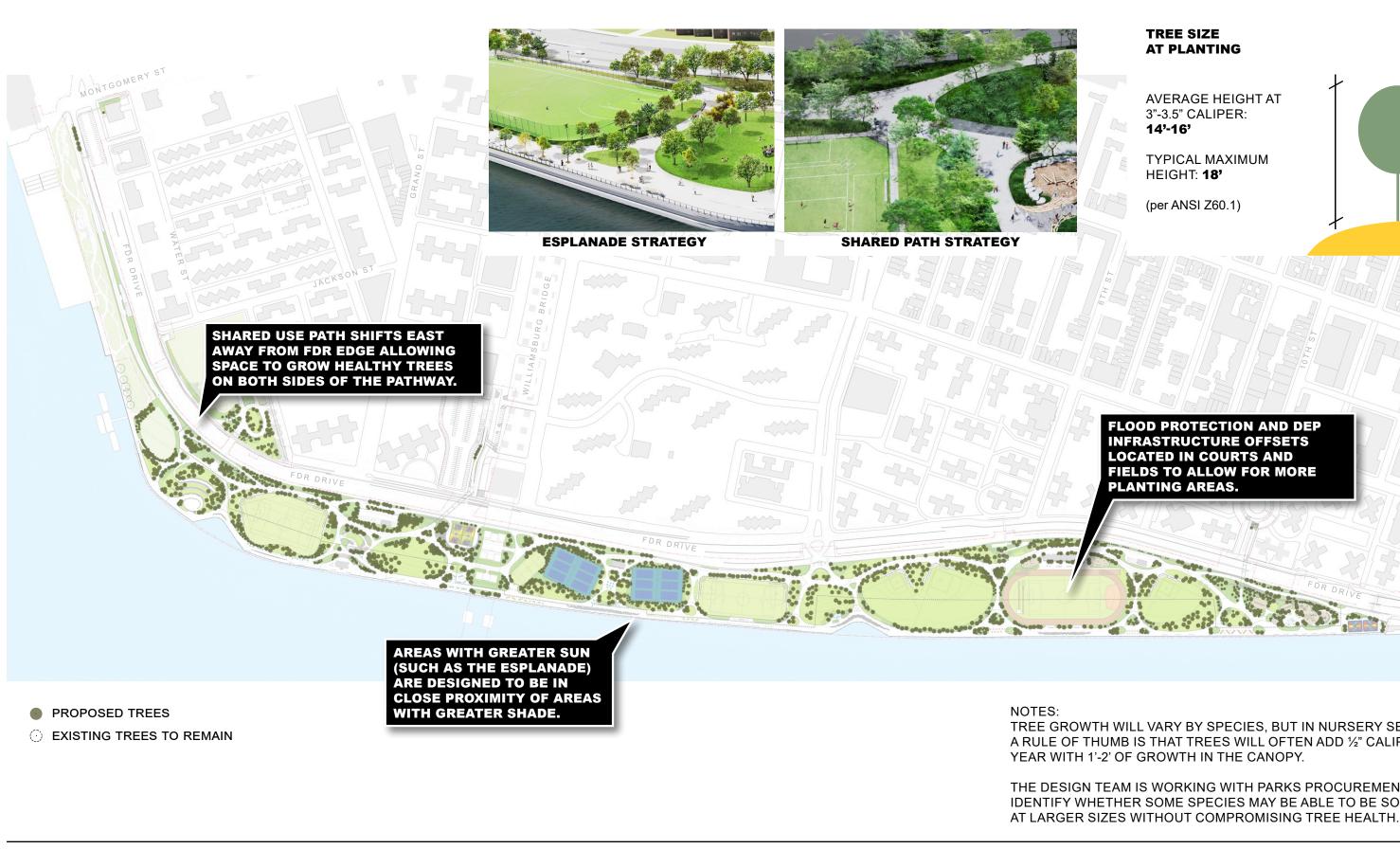
# **Security Measures 23rd Street** 145

DECEMBER 16, 2019

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 DEPT. OF PARKS AND CITY DEPT. OF OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND OF ENVIRONMENTAL **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION



# **Security Measures 23rd Street** 146



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

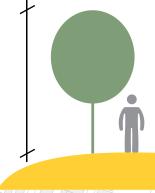
NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

DECEMBER 16, 2019



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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL

PDC FINAL REVIEW **RESILIENCY PROJECT** 

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

DECEMBER 16, 2019

 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FINAL REVIEW

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST SIDE COASTAL

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

- UMBRELLA CLUSTERS
- EXISTING TREES TO REMAIN
- PROPOSED TREES





### Shade Strategy PA2 149



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

DECEMBER 16, 2019

THE PLANTING DESIGN



## **Shade Strategy** Woodland Edge 150



 AKRF-KSE, JV
 BJARKE
 MATHEWS NIELSEN
 ONE
 NEW YORK CITY
 NEW YORK CITY
 NEW YORK CITY DEPT.
 NEW YORK CITY MAYOR'S
 PDC FI

 INGELS
 LANDSCAPE
 ARCHITECTURE
 DEPT. OF DESIGN AND
 DEPT. OF PARKS AND
 CITY DEPT. OF
 OF ENVIRONMENTAL
 OFFICE OF RESILIENCY
 EAST S

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

PDC FINAL REVIEW EAST SIDE COASTAL RESILIENCY PROJECT

DECEMBER 16, 2019



*Metasequoia glypto.* Dawn Redwood

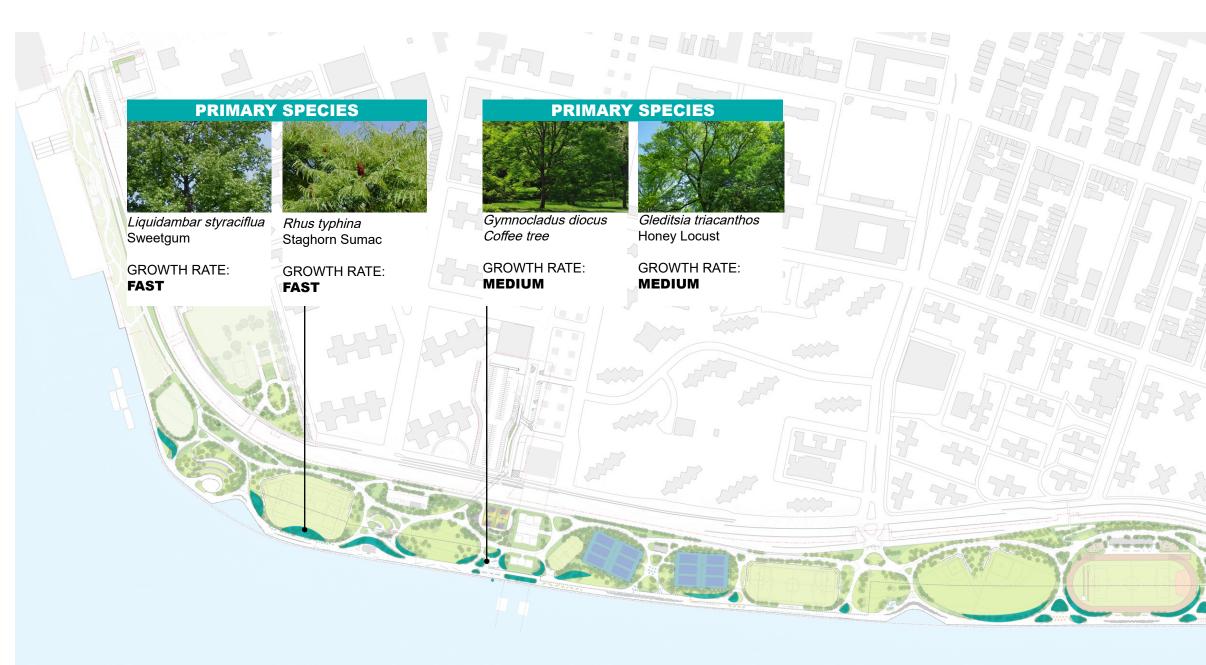
#### GROWTH RATE: FAST



*Caltalpa - multi trunk* Multi-trunk catalpa

GROWTH RATE: FAST

## Shade Strategy Pastoral Openings 151



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION

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

DECEMBER 16, 2019



Liquidambar styraciflua Sweetgum

GROWTH RATE: FAST

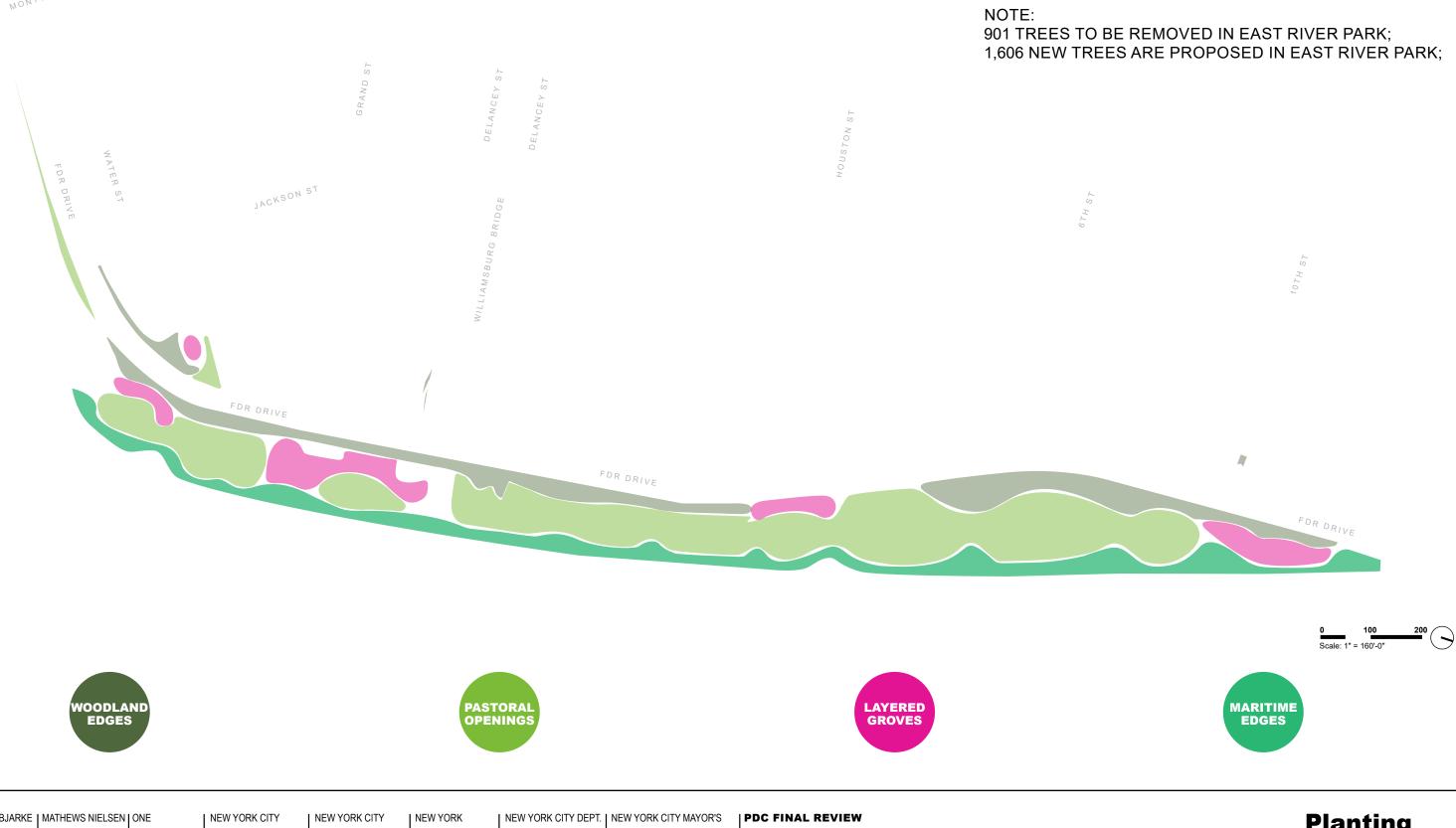
Gleditsia triacanthos Honey Locust

GROWTH RATE: MEDIUM

# Shade Strategy Maritime Edge 152

DECEMBER 16, 2019

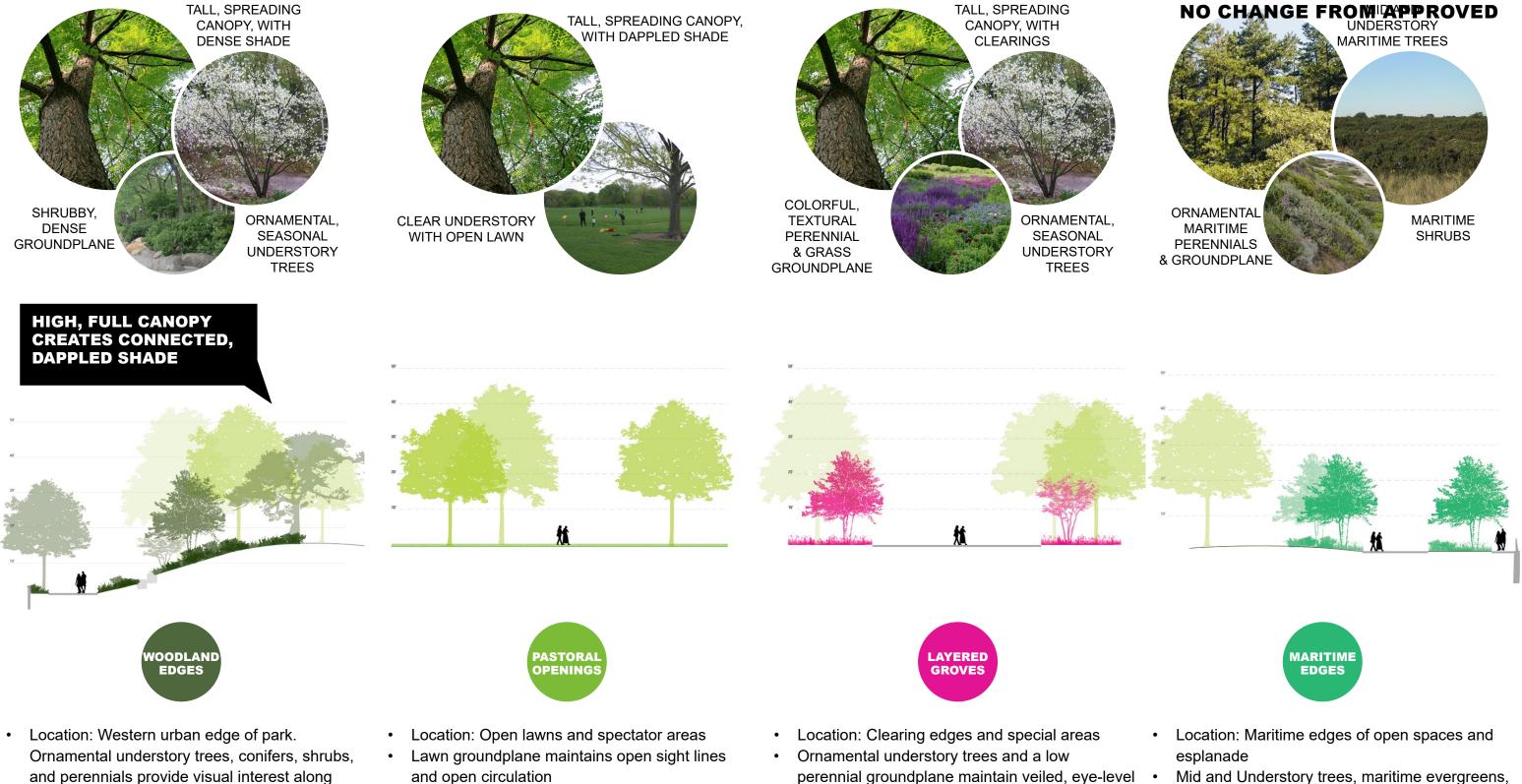
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S PDC FINAL REVIEW ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE GROUP ARCHITECTS,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



MONTGOMERY ST

#### **NO CHANGE FROM APPROVED**

# Planting Key Plan PA1 153



Maintenance: Trees, lawn

Maintenance: Trees, garden beds

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C.

paths and slopes while buffering views

Maintenance: Trees, shrubs, groundcovers

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND AND URBANISM CONSTRUCTION RECREATION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

**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

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

DECEMBER 16, 2019

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



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION





- 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



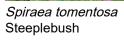


Hydrangea quercifolia Oakleaf Hydrangea











Hibiscus coccineus Scarlot Rose Mallow



Symphyotrichum noviangelli New Eng. Aster

PDC FINAL REVIEW EAST SIDE COASTAL

DECEMBER 16, 2019

**RESILIENCY PROJECT** 

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

Panicum virgatum Ruby

*Ribbons* Switchgrass

Asclepias incarnata

Swamp Milkweed

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION































Prunus laurocerasus

Echinacea purpurea

**Purple Coneflower** 





Asclepias tuberosa Butterfly Milkweed



Phlox paniculata Rudebeckia hirta Garden Phlox Black-Eyed Susan

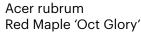
GROUP ARCHITECTS, P.C.





- 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

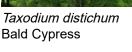


Scarlet Oak



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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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

PDC FINAL REVIEW 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 **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION DECEMBER 16, 2019



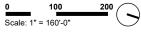
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE

INGELS LANDSCAPE



# Planting Key Plan PA2 158





### **NO CHANGE FROM APPROVED**

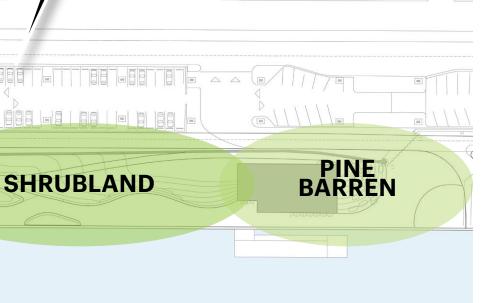
80 WET MEADOW GRASSLAND WOODLAND

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 OFFICE OF RESILIENCY EAST SIDE COASTAL INGELS LANDSCAPE DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL **RESILIENCY PROJECT** GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

DECEMBER 16, 2019

### **NO CHANGE FROM APPROVED**







**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

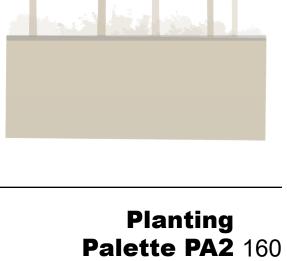
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK INGELS LANDSCAPE ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION TRANSPORTATION PROTECTION

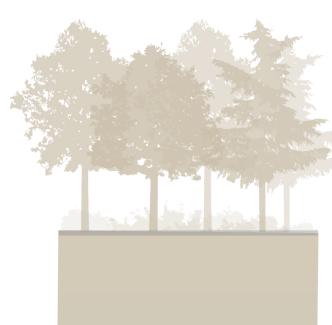
NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY

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

### O CHANGE FROM APPROVED











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

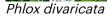


Panicum virgatum 'Ruby Ribbons'











Tradescantia virginiana







Amsonia hubrichtii

Eurybia divaricata



Tradescantia ohiensis



Viola labradorica



Viola sororia

Pynanthemum



Pynanthemum tenuifolium

Tiarella cordifolia



EAST SIDE COASTAL **RESILIENCY PROJECT** 

DECEMBER 16, 2019

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE GROUP ARCHITECTS, P.C.

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION













Asclepias incarnata



Juncus effusus





Equisetum hyemale



Panicum virgatum 'Ruby Ribbons'



Eutrochium dubium



Anemone canadensis

Aquilegia canadensis





NEW YORK CITY

ARCHITECTURE DEPT. OF DESIGN AND

AND URBANISM CONSTRUCTION



Echinacea purpurea

Iris versicolor



Verbena hastata



Vernonia noveboracensis



Lobelia cardinalis^



Zizia aurea\*

\*Solar1 Plant List (2016) ^Short-Lived

PERENNIALS

GRASSES

Monarda didyma

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE

LANDSCAPE

GROUP ARCHITECTS, P.C.

INGELS

Monarda punctata

Onoclea sensibilis

NEW YORK CITY

RECREATION

NEW YORK

DEPT. OF PARKS AND CITY DEPT. OF

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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

# 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\*

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE INGELS LANDSCAPE

NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY OF ENVIRONMENTAL TRANSPORTATION PROTECTION

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











Panicum virgatum Ruby Ribbons





Phlox divaricata



AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE

LANDSCAPE

GROUP ARCHITECTS, P.C.

Solidago sempervirens\*

INGELS

Schizachyrium

Amsonia hubrichtii

scoparium



Asclepias verticillata\*

Sporabolis heterolepis

Physostegia virginiana\* Pynanthemum



# tenuifolium\*





Rudbeckia fulgida\* /

Aster prenanthoides





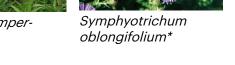
Solidago odora



Monarda punctata\*



Solidago graminfolia\*



Zizia aptera\* / aurea\*

NEW YORK CITY

ARCHITECTURE DEPT. OF DESIGN AND

AND URBANISM CONSTRUCTION

NEW YORK CITY NEW YORK DEPT. OF PARKS AND CITY DEPT. OF RECREATION TRANSPORTATION PROTECTION

NEW YORK CITY DEPT. NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY

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

DECEMBER 16, 2019







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'

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION RECREATION

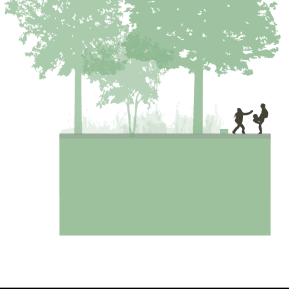
NEW YORK

NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S OF ENVIRONMENTAL OFFICE OF RESILIENCY TRANSPORTATION PROTECTION

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



#### 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

AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE NEW YORK CITY NEW YORK CITY NEW YORK NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S ARCHITECTURE DEPT. OF DESIGN AND DEPT. OF PARKS AND CITY DEPT. OF OF ENVIRONMENTAL INGELS LANDSCAPE GROUP ARCHITECTS, P.C. AND URBANISM CONSTRUCTION TRANSPORTATION PROTECTION RECREATION

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

DECEMBER 16, 2019

