# **East Side Coastal Resiliency SANDRESM1**

**Public Design Commission Final Design Review East River Park Amphitheater Structure** 

March 20, 2023















#### **BOROUGH CONTEXT**

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#### **NEIGHBORHOOD CONTEXT**

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## **KIPS BAY** STUYVESAN TOWN EAST VILLAGE - EAST SIDE COASTAL RESILIENCY **PROJECT AREA** EAST RIVER **LOWER EAST** SIDE AMPHITHEATER CANOPY STRUCTURE **PROJECT AREA** $( \mathbf{T} )$

### **Project Location**



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#### Site Plan Prior To ESCR Construction 3



Original east river park amphitheater & recreation center, 1941



Rehabilitated structure, 2019









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KEY

## Site Photographs



View from Corlears Hook Pedestrian Bridge





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## **Site Photographs**



View through arch to water



View though arch to seating



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Large Performance



Small Performance



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## **Site Photographs**

#### **Permitted Events**

LARGE **EVENT** 



- Larger events and performances for 1000+ spectators.
- · Views towards performers on stage.
- All seating rows occupied (including overflow area).
- Significant audio amplification and separate rigging/stage setup.

**AVERAGE** 

**EVENT** 

- For around 200 spectators
- · Views towards performers on stage
- First rows and 'orchestra pit' occupied
- · Less audio amplification.
- Most common permitted event size.



DANCE

- Dance parties of around 100 persons.
- Occupies stage area, flex spaces, and even the esplanade
- Open plan for less structured and flexible setups
- Waterfront view backdrop.



**SMALL** 

**EVENT** 

- Gatherings of around 100 persons.
- Waterfront view backdrop.
- Occupies stage footprint.
- Limited need for audio amplification.



- Small, informal events & performances.
- · Secondary stage.
- Area for spectators and passers-by to gather.
- No audio amplification.

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#### **Program Concept Preliminary Design Conditions of Approval** 8

#### **IMPROMPTU PER-**FORMANCE

#### Everyday Use



### HANGOUT SPOT



- Place to take a break and sit in the shade
- Addresses the waterfront

#### **Embrace a Classic Arch Shape:**

An arch shape pays homage to both the original structure and classic bandshells while creating opportunities for physical access and sight lines to the waterfront.

#### **Clearly Address the** Main Seating Area:

(1)

(2)

(3

4

(5

The front arch is on axis with the main seating area and is scaled to provide a sense of arrival as one enters from the Corlears Hook bridge.

#### **Engage the Waterfront:**

Views to the waterfront are framed by an arch parallel to the esplanade. This arch is lower than the front, creating a more intimate experience near the water. An accessible path and stairs connect the stage to the esplanade and reinforce this design as a muli-purpose bandshell and waterfront pavilion.

#### **Create a Sense of Lightness and Openness:**

An open-arch scheme allows for greater visibility and connectivity at the stage level. This approach also creates separation between the overlapping arches above, allowing light and air to enter while keeping the rain out.

#### **Perform Acoustically:**

The structure is designed to direct sound toward the seating and landscape. This will improve the sound quality for small, unamplified events while mitigating sound projections toward the upland neighborhood.



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### **Design Concept Overview Approved Preliminary Design**

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## Design Concept Overview Proposed Final Design 10



### Legend:

Amphitheater Security Light •< Solar Esplanade Light ۲ Walkway Light ۲

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## Site Plan Approved Final ESCR Design Dec. 2019 11

#### **Clearly Address the** Main Seating Area:

- Center on the seating area and align with circulation stairs
- Provide a sense of entry and arrival by ensuring strong visibility from the Corlears Hook Bridge

#### **Engage the Waterfront:**

- Views to the waterfront are framed by an arch that is parallel to the esplanade.
- An accessible path and stairs connect the stage to the esplanade and reinforce this design as a multi-purpose bandshell and waterfront pavilion.

#### Create a Sense of Lightness and **Openness:**

• The open-arch scheme allows for greater visibility and connectivity at the stage level.



#### Legend (No Addt'l or Change in Lighting in Scope):

Amphitheater Security Light	•<
Solar Esplanade Light	۲
Walkway Light	Ŧ
Limit of Work	L.O.W
(M1 Contract Modification)	

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## **Site Plan Approved Preliminary Design** 12

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## Site Plan Proposed Final Design 13

85′ 18′ **50' AMPHITHEATER SEATING** LAWN PATH 







# Amphitheater Cross Section Approved Final Design December 2019 14

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## **Amphitheater Cross Section Approved Preliminary Design** 15

**50'** 85′ 21′ **AMPHITHEATER SEATING** LAWN PATH

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## **Amphitheater Cross Section** Proposed Final Design 16



- - L.O.W. - -(M1 Contract Modification)

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## Stage Area Plan **Approved Preliminary Design** 17



Legend: Limit of Work - - L.O.W. - -(M1 Contract Modification)

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Stage Area Plan **Proposed Final Design** 18



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**Stage Cross Section Approved Preliminary Design** 19



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**Stage Cross Section Proposed Final Design** 20



#### A. FRONT ELEVATION



**B. REAR ELEVATION** 



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### **Elevations Approved Preliminary Design** 21



<u>M1</u> Painted Steel Panels With High Performance Coating, White

A. WEST ELEVATION

**B. EAST ELEVATION** 



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## **Elevations Proposed Final Design** 22



#### C. NORTH ELEVATION



D. SOUTH ELEVATION



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## **Elevations Proposed Final Design** 23



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## View From Bridge Landing Approved Preliminary Design 24



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## View From Bridge Landing Proposed Final Design 25



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## View From Seating Area - 'Typical Event' Approved Preliminary Design 26



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View From Seating Area - 'Typical Event' Proposed Final Design 27



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## **View From Across Embayment Approved Preliminary Design** 28



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## **View From Across Embayment Proposed Final Design** 29



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View From Seating Area - 'Summer Stage Concert' **Proposed Final Design** 30



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## View of Stage Area - 'Dance Party' Proposed Final Design 31



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## View From Esplanade - 'Everyday Use' Proposed Final Design 32





#### EXPLODED ARCH ASSEMBLY

**TYPICAL SECTION** 

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• Pre-assembled panels hung from primary structural truss

## **Typical Assembly Approved Preliminary Design** 33



#### **EXPLODED ARCH ASSEMBLY**

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#### <u>M1</u> Curved Roof Panels

- 3/16" Curved Steel Plate
- Welded fascia panels front and rear
- Shop painted 3-part high performance coating

#### **REVISION ITEM 2**

#### ARCH ASSEMBLY & FINISH PANEL REFINEMENT

Panelization

#### Subframing

- Galvanized T6x2.5
- 2' O.C (4 per panel)

#### Structural Truss

- Shop-fabricated in (3) segments per arch
- 4" Std. pipe curved chord members
- 2" Std. pipe

#### **REVISION ITEM 2**

#### **ARCH ASSEMBLY & FINISH PANEL REFINEMENT**

Structural Truss Finalized

#### C1 GFRC Precast Panels

- 3/4" Glass-fiber reinforced concrete
- · Custom relief
- Integral Color
- Bonded to galvanized subframe w/ 3/8" flex anchors

#### **REVISION ITEM 2**

#### ARCH ASSEMBLY & FINISH PANEL REFINEMENT

Detailed Assemblies

## **Typical Assembly Proposed Final Design** 34



#### **TYPICAL ARCH CROSS SECTION**

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3/16" Curved Ptd. Steel Panel w/ predrilled countersunk holes, M1; Fixed w/ self-tapping screws w/ white nylon countersunk shoulder washer, 36" O.C. T2x6.25 Galvanized Subframing w/

Neoprene Isolation Tape

- 2" Std Pipe Truss Web Member, Bynd.



#### **REVISION ITEM 2**

**ARCH ASSEMBLY & FINISH PANEL REFINEMENT** 

- Panelization
- Structural Truss Finalized
- **Detailed Assemblies** •

**Key Details Proposed Final Design** 35

Scale: 1 1/2" = 1'





**GFRC PRE-CAST PANELS INTEGRAL COLOR & CUSTOM RELIEF** 

PAINTED STEEL PANELS WHITE HIGH PERFORMANCE COATING

**AMPHITHEATER STRUCTURE MATERIALS** 

(NO CHANGE FROM PRELIMINARY DESIGN)



CONCRETE HEX UNIT PAVER

PRECAST CONCRETE SEATWALLS





C.I.P. CONCRETE STAIRS

#### SITE MATERIALS

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(FOR REFERENCE, NO CHANGE TO PREVIOUSLY APPROVED PALETTE)

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## **Amphitheater Structure Material Palette** 36



Model Photo: Aerial View of a Small Concert



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Model Photo: View from North



## **Amphitheater Structure** Model Photos 37



Model Photo: Aerial View of an Exercise Class Under the Canopy



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## **Amphitheater - Proposed Structure** Model Photos 38



Model Photo: View from East





Model Photo: Aerial View of a Gathering Facing the Esplanade



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## **Amphitheater - Proposed Structure** Model Photos 39



Model Photo: View from South



