



# **Children's Museum of Manhattan**

Community Board 7 Presentation

**fx**collaborative



# Children's Museum of Manhattan

Project Team

## **FXCollaborative Architects**

**Galia Solomonoff** (Museum Installation Advisor)

**DeSimone** (Structural)

**Kohler Ronan** (MEP & IT)

**Li/Saltzman** (Preservation & Landmarks)

**Langan** (Civil & Geotech)

**Tillotson** (Lighting)

**Cerami** (Acoustics & AV)

**VDA** (Elevator)

**Romano Gatland** (Food Service)

**Steven Winter Assoc.** (LEED & Accessibility)

**CCI** (Code)

**Horus Bronze** (Special Windows)

**Femenella & Assoc.** (Stained Glass)



# **Children's Museum of Manhattan**

## Project Goals

**Celebrate the Spirit of the Building - Design Evolution / Innovation, Stone Shell, Light & Use**

**Transform & Adapt an Insular Church into a Visible Museum Connected to the City**

**Create Inviting Entry & Movement Through the Museum from Street to Terrace**

**Design a Dialogue Between Old & New**

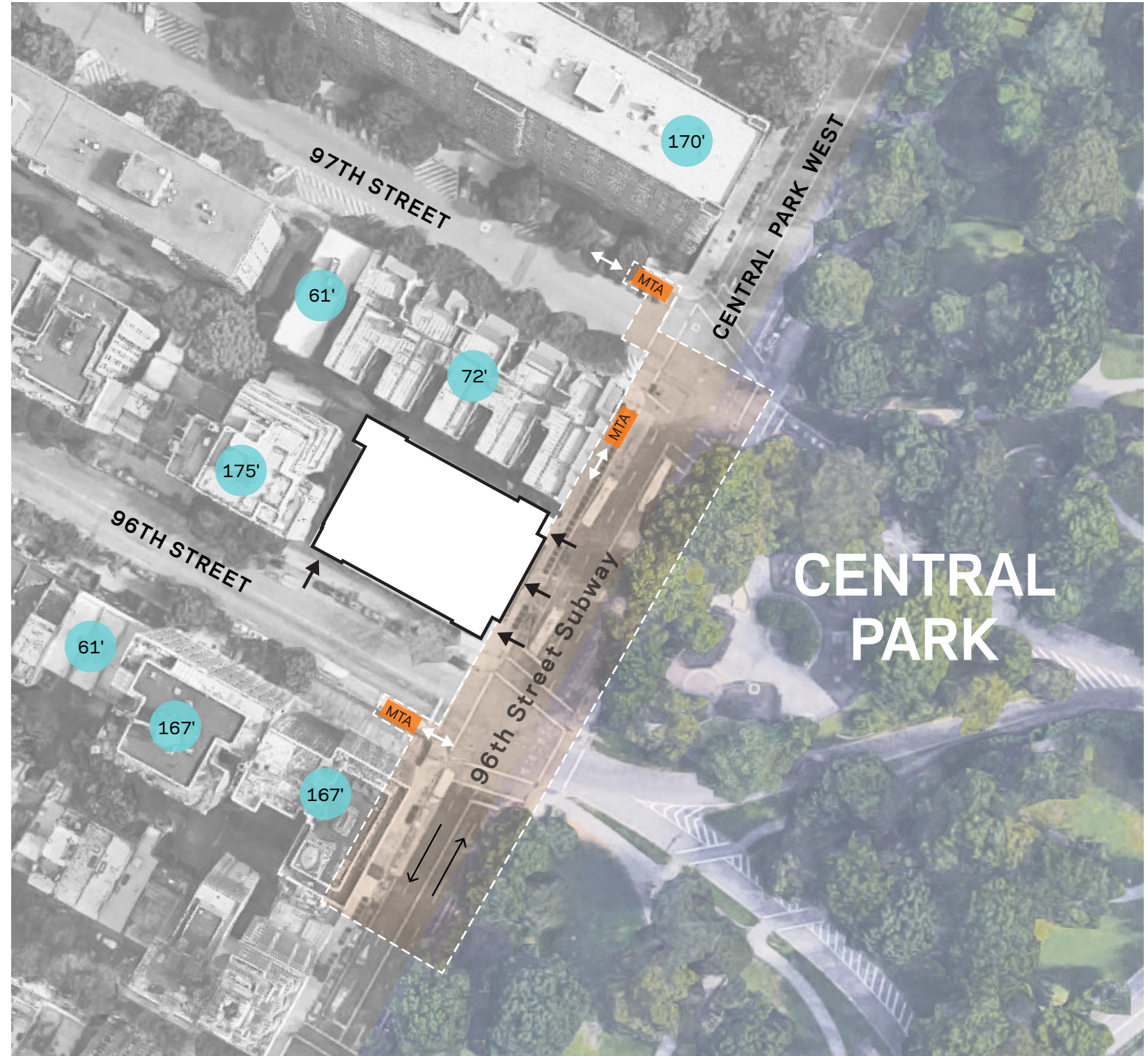
**Covert Contained Space into a Connected Experience with Daylight and Views**

**Ensure Efficient and Sustainable Design**





MUSEUM MILE WEST



SITE

Building Heights: NYC Open Data, The Mayor's Office of Data Analytics

Context





**First Church of Christ, Scientist**  
361 Central Park West  
Architectural Record, February 1904



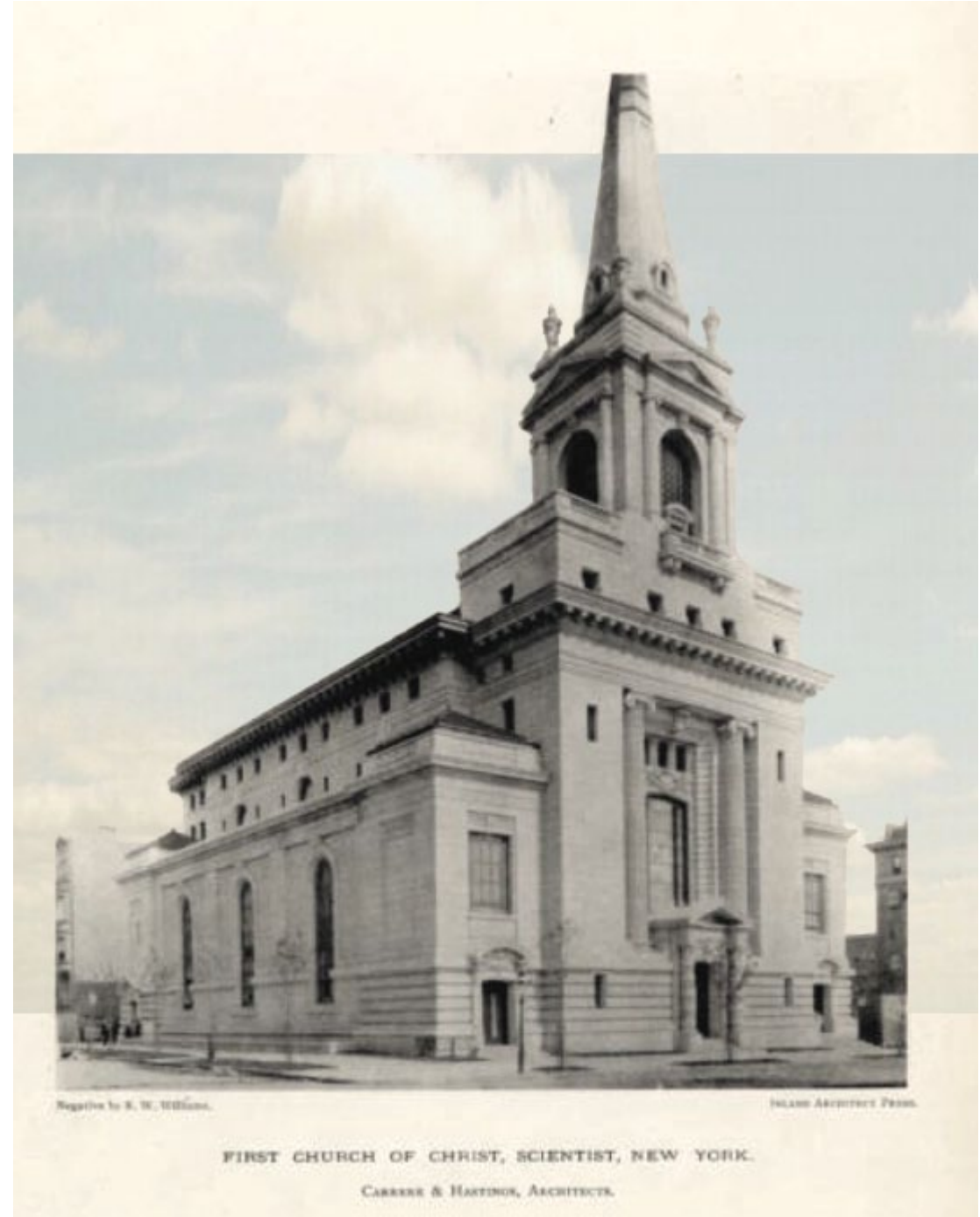
**First Church of Christ, Scientist**  
361 Central Park West / 12 W 96th Street  
1904

## Stone Shell





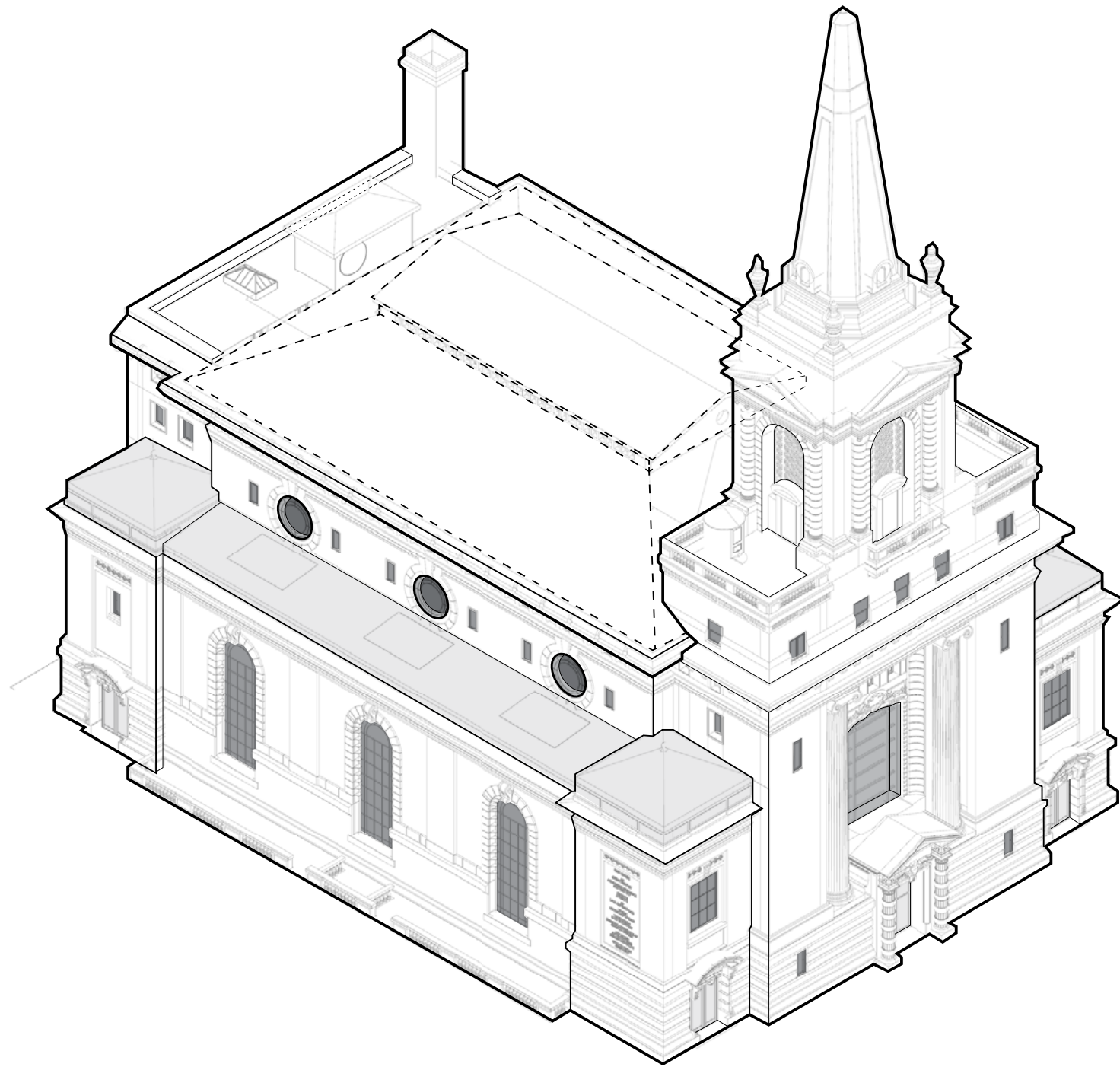
**First Church of Christ, Scientist**  
Rendering of Church Prior to Construction



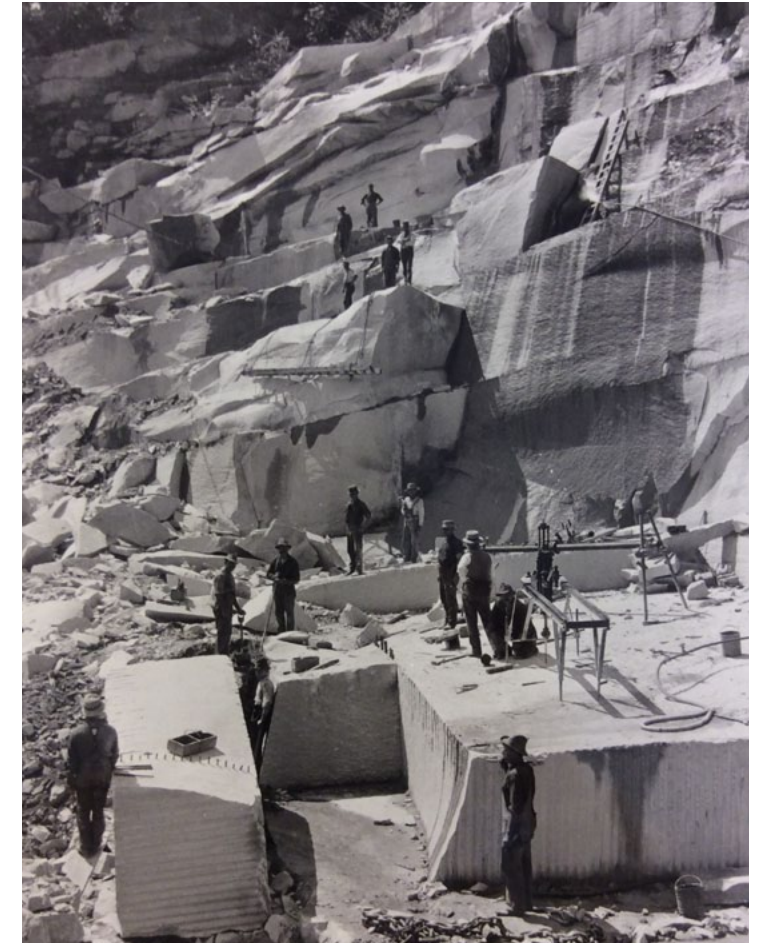
**First Church of Christ, Scientist**  
The Inland Architect and News Record, Vol. XLII, No. 3, 1903

## Design Evolution





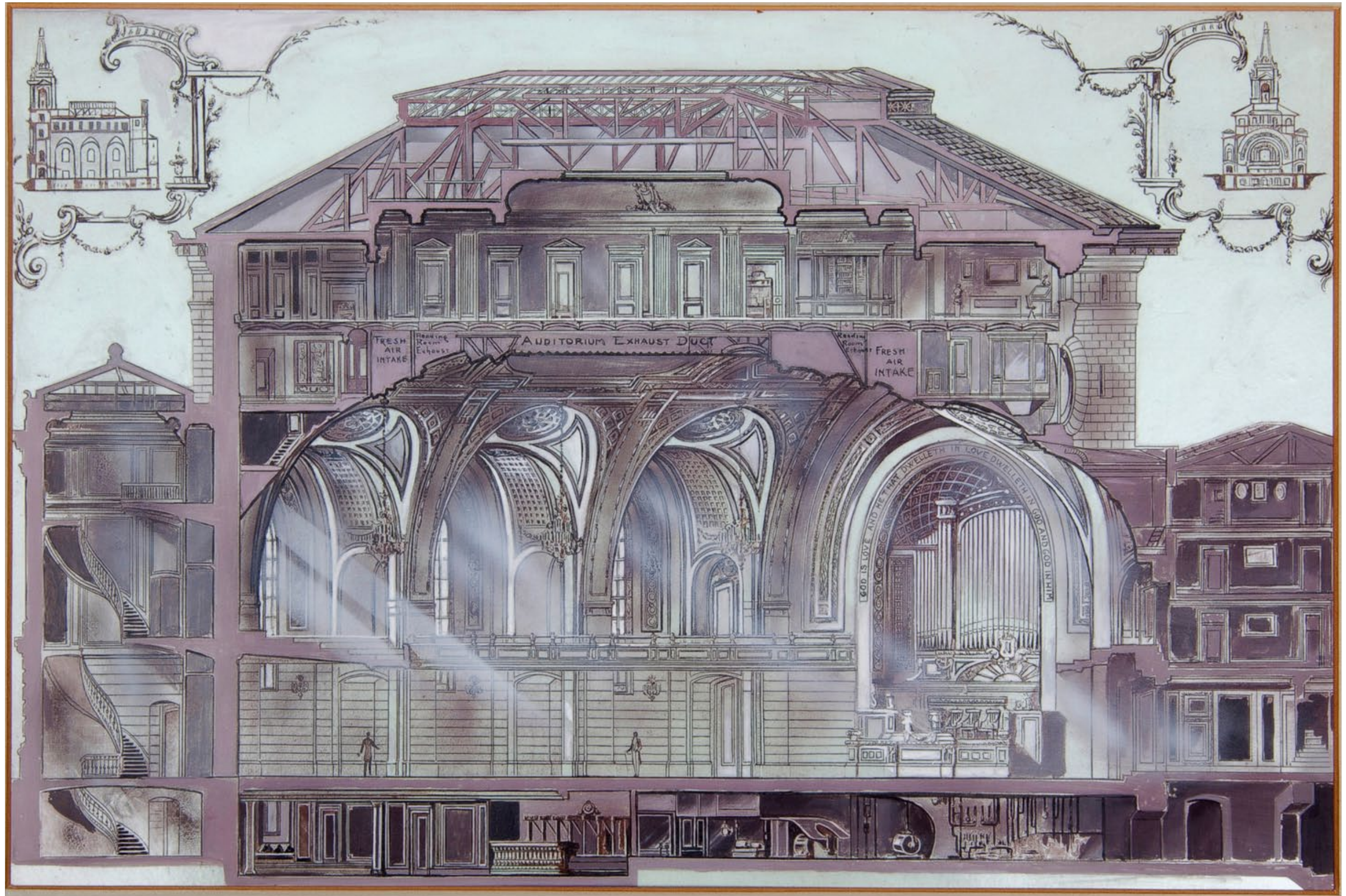
## Stone Shell



Towering some two hundred feet above the curb, it forms a most striking and beautiful picture in glistening silvery white granite; stone so uniform in color and quality as at once to give one the impression that the whole must have been cut from one huge perfect block.

Charles H. Cottrell  
Architectural Record, 1904





**First Church of Christ, Scientist**  
Diagonal Section Rendering of Church (from Mary Baker Eddy library archives)

## Design Innovation





First Church of Christ, Scientist  
1904 by Joel W. Thorne



First Church of Christ, Scientist  
2019 by FXCollaborative

## Interior - Then & Now

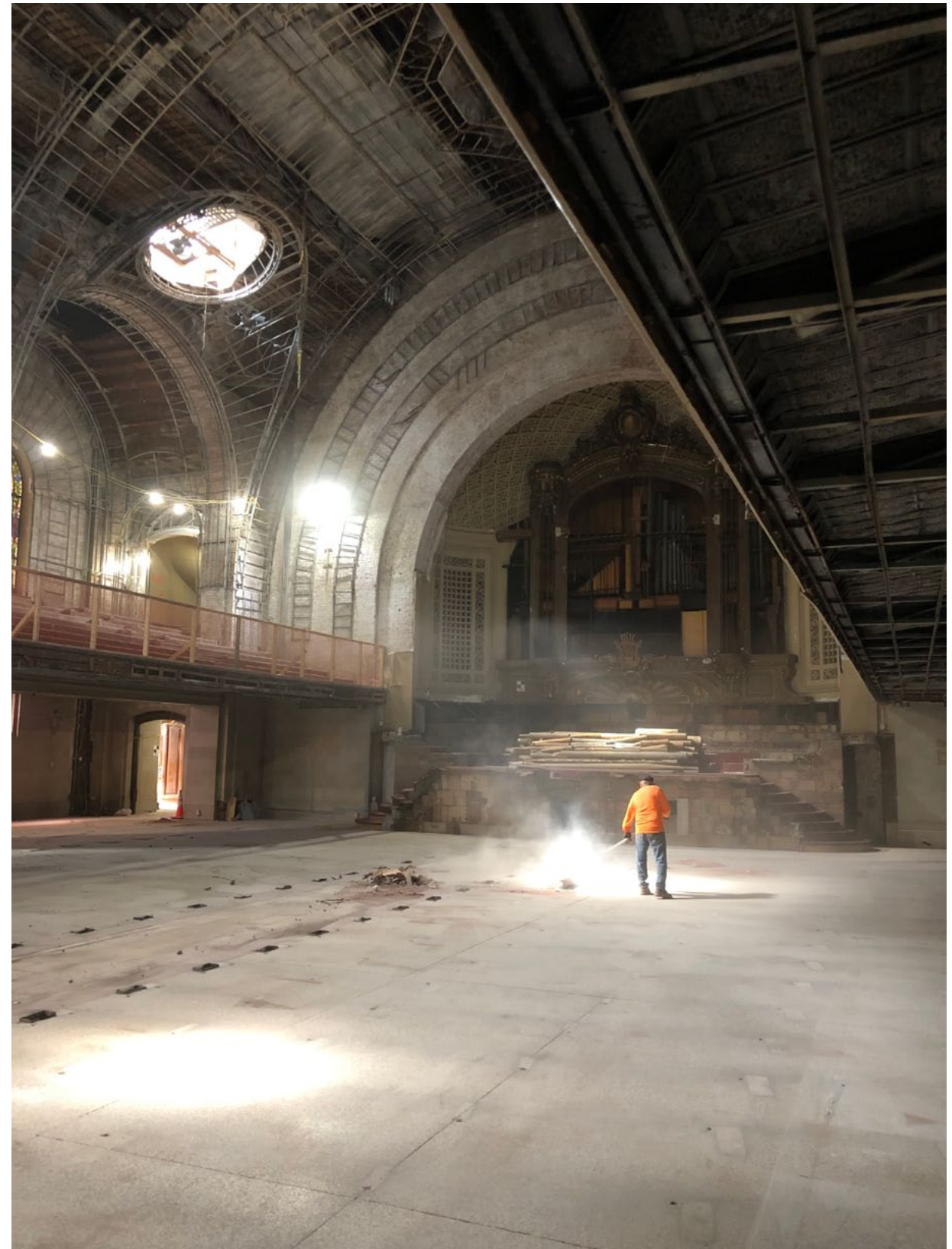




First Church of Christ, Scientist  
2019 by FXCollaborative



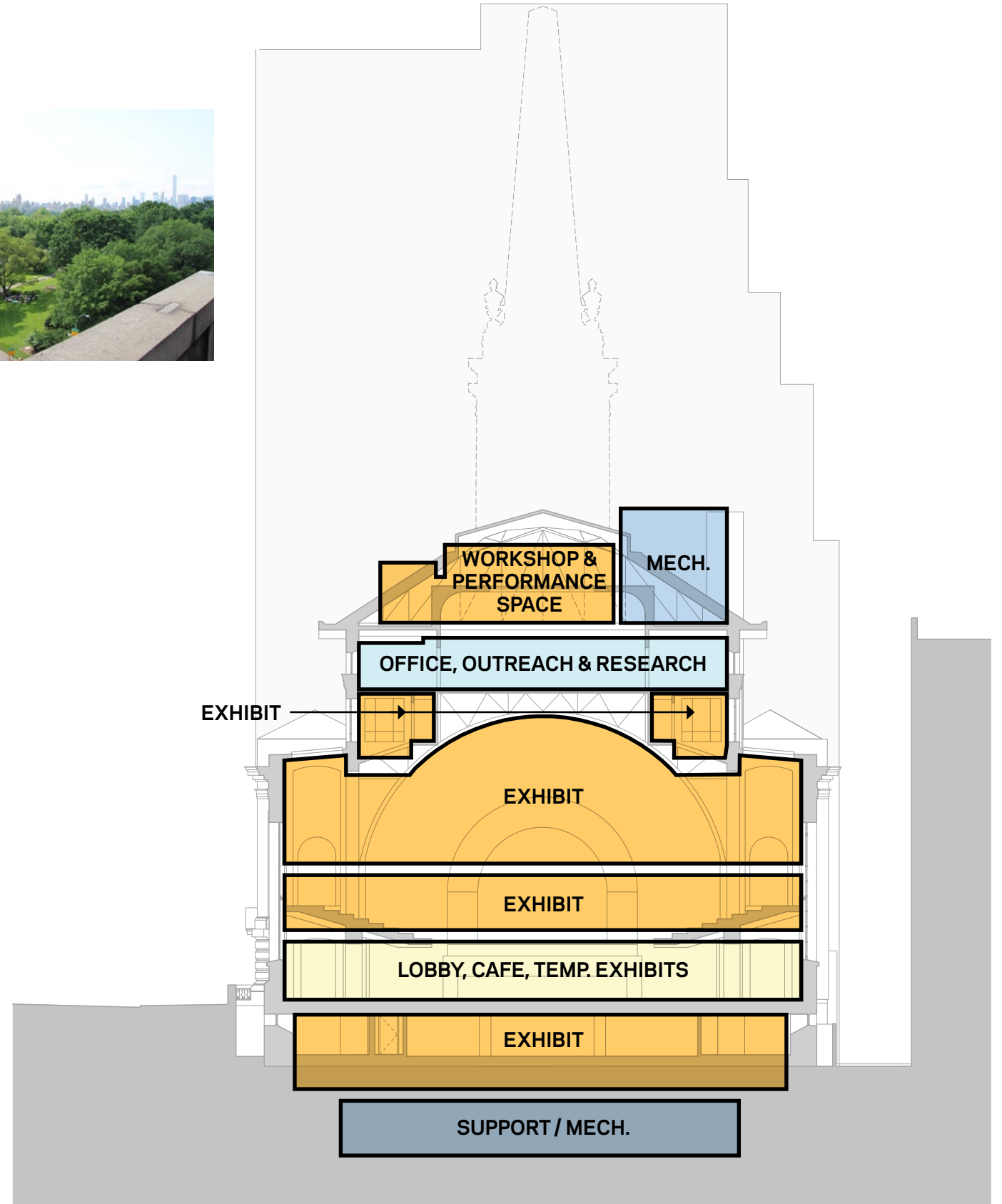
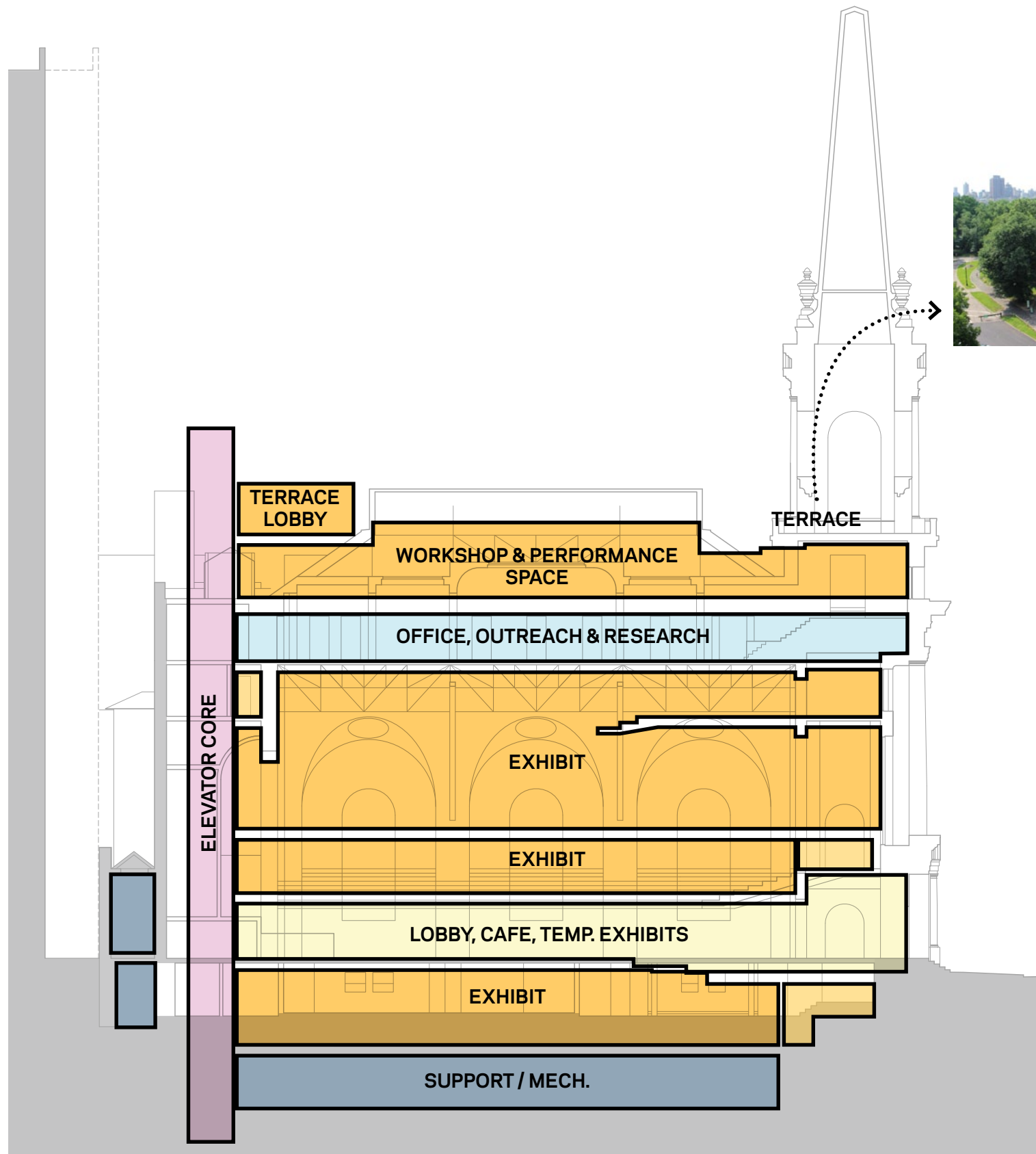
First Church of Christ, Scientist  
2019 by FXCollaborative



First Church of Christ, Scientist  
2019 by FXCollaborative

## Interior Light





Program

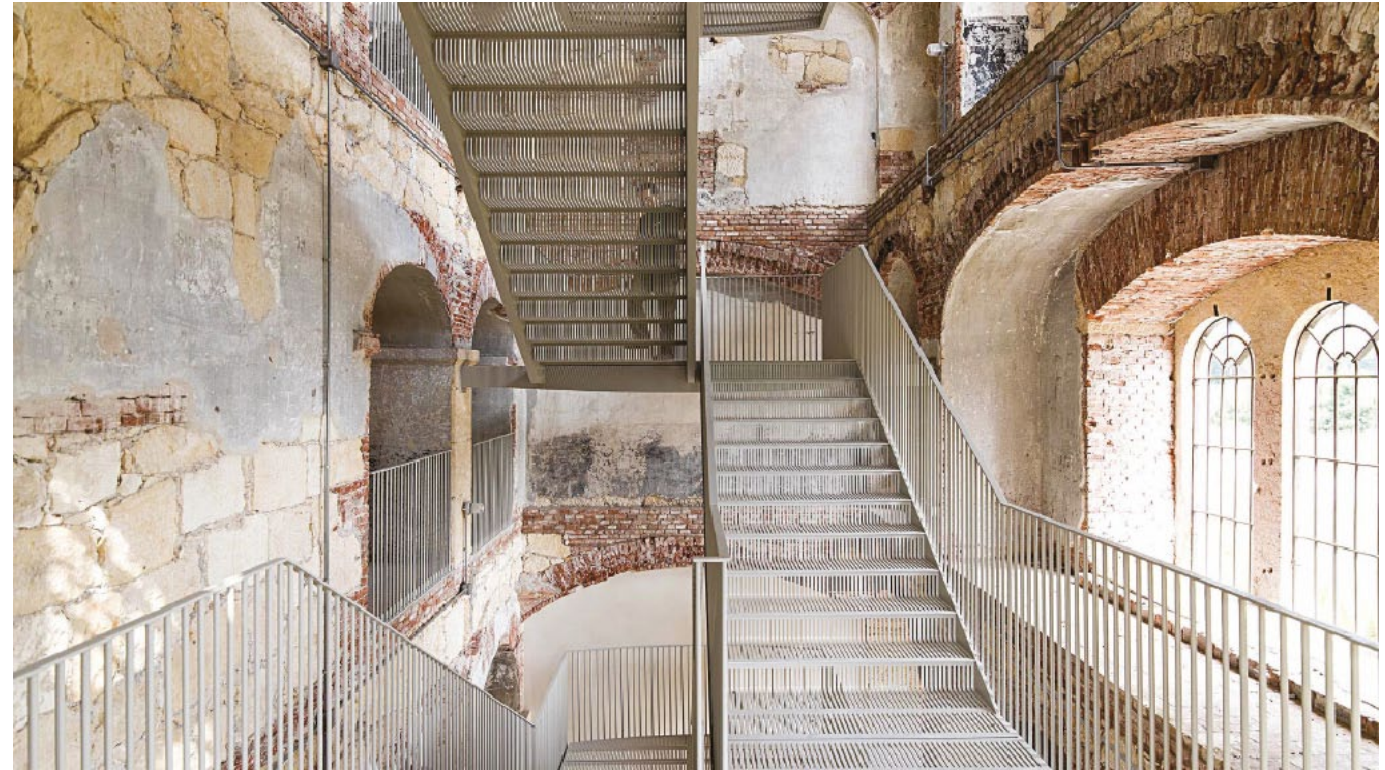


Under the Vault





**MACHmit! Museum for Children**, Berlin, Germany  
Klausblock Architekt



**Restoration of the Bakery of Caserma Santa Marta into University Facilities**, Verona Italy  
Carmassi Studio di Architettura



**MACHmit! Museum for Children**, Berlin, Germany  
Klausblock Architekt

## Precedents

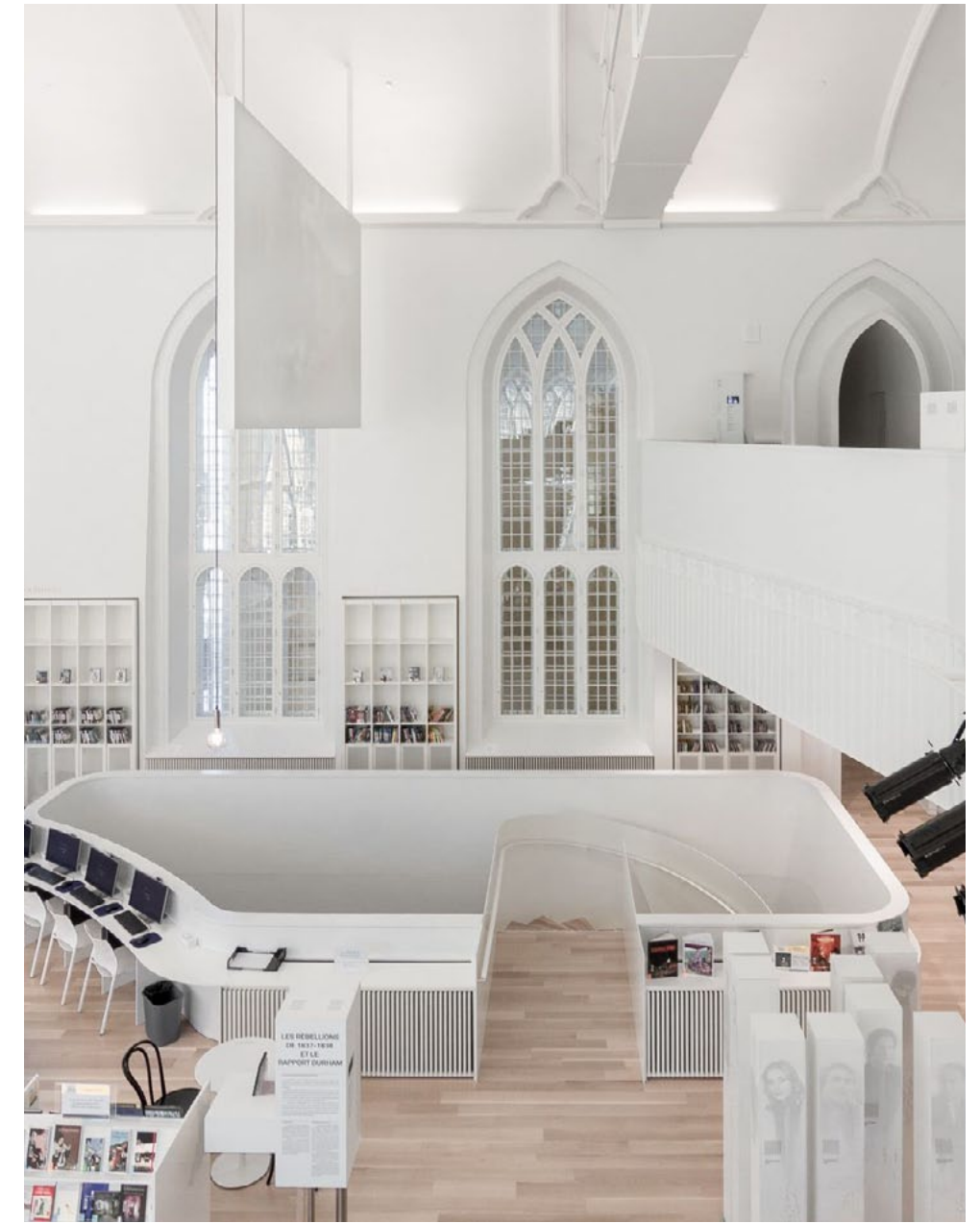




**Pittsburgh Children's Museum**



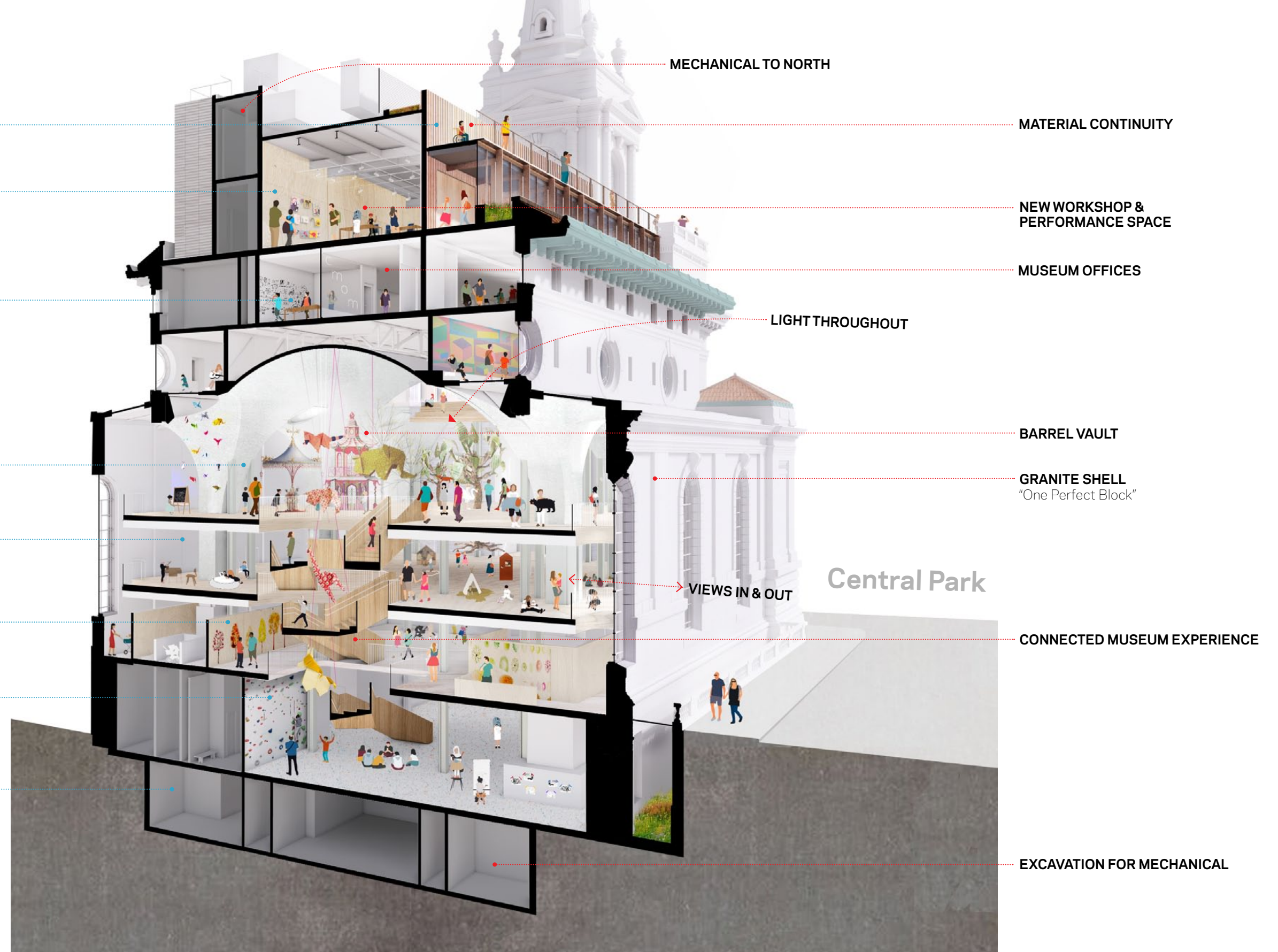
**Rush Library, Dublin, Ireland**



**Maison de la Litterature, Quebec City, Canada**

## Precedents





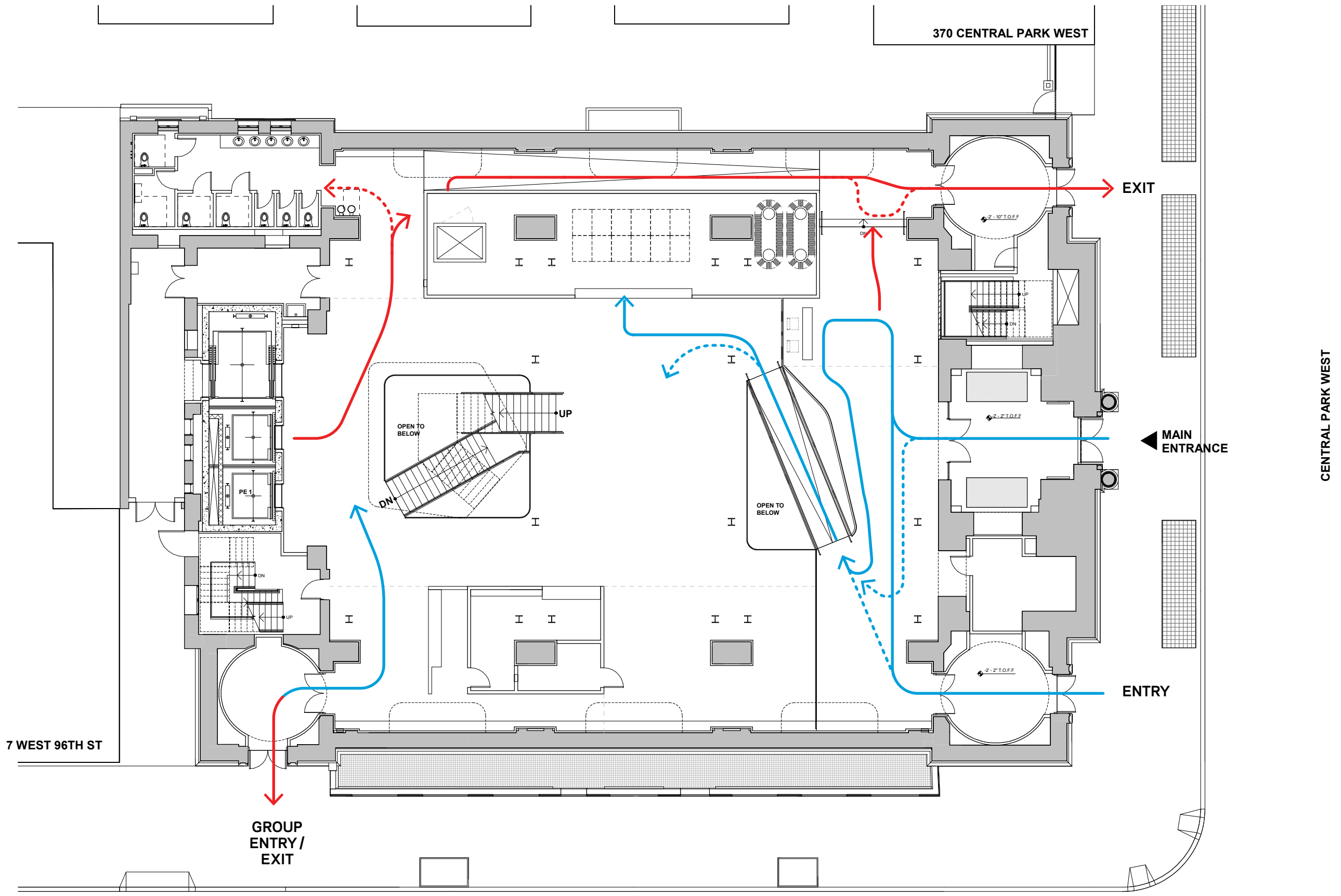
## Transform & Adapt





Existing South & East Elevations





Proposed 1st Floor Plan





3 STEPS

5 STEPS

7 STEPS

1ST FLOOR

### Existing CPW Entries





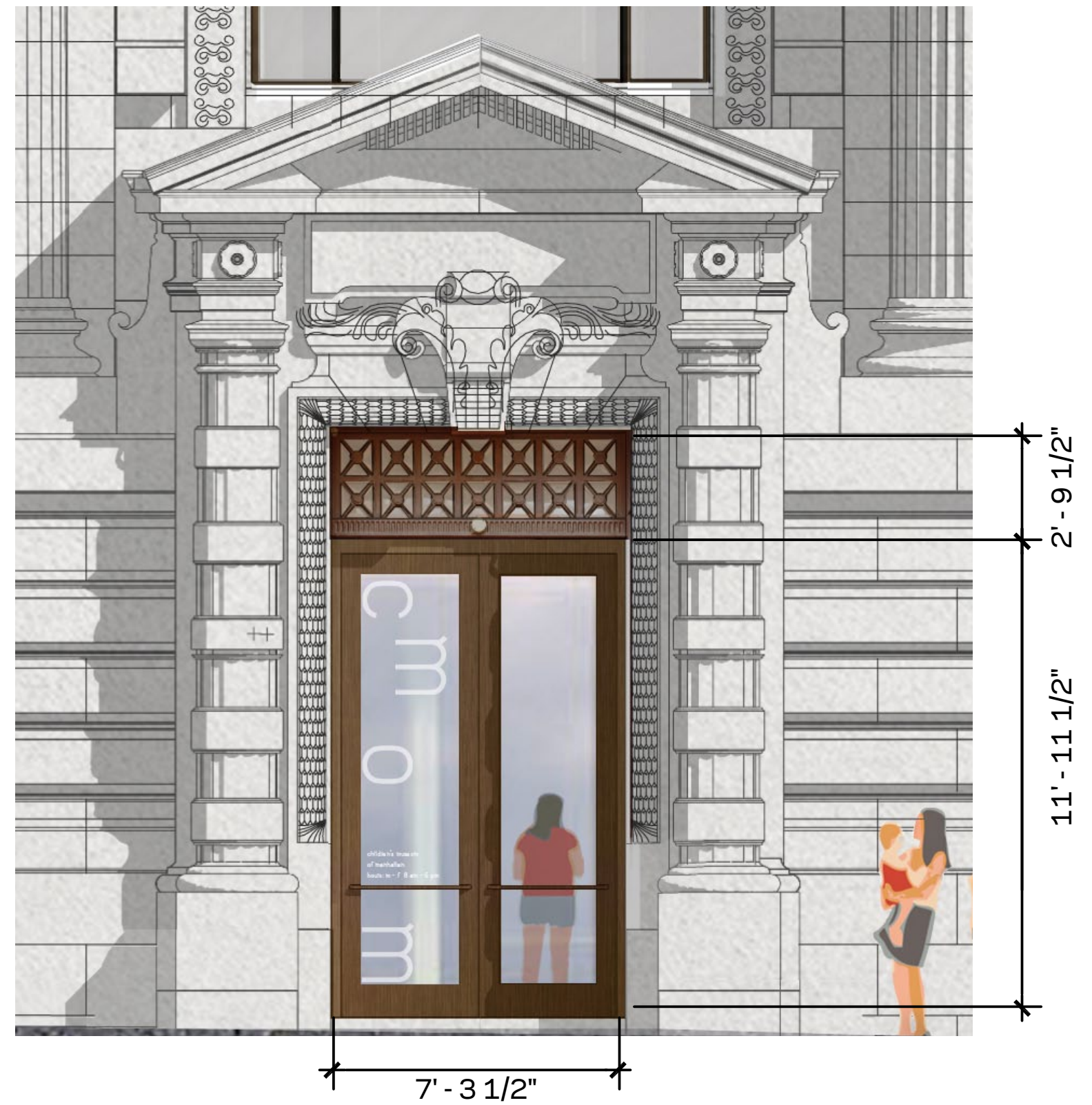
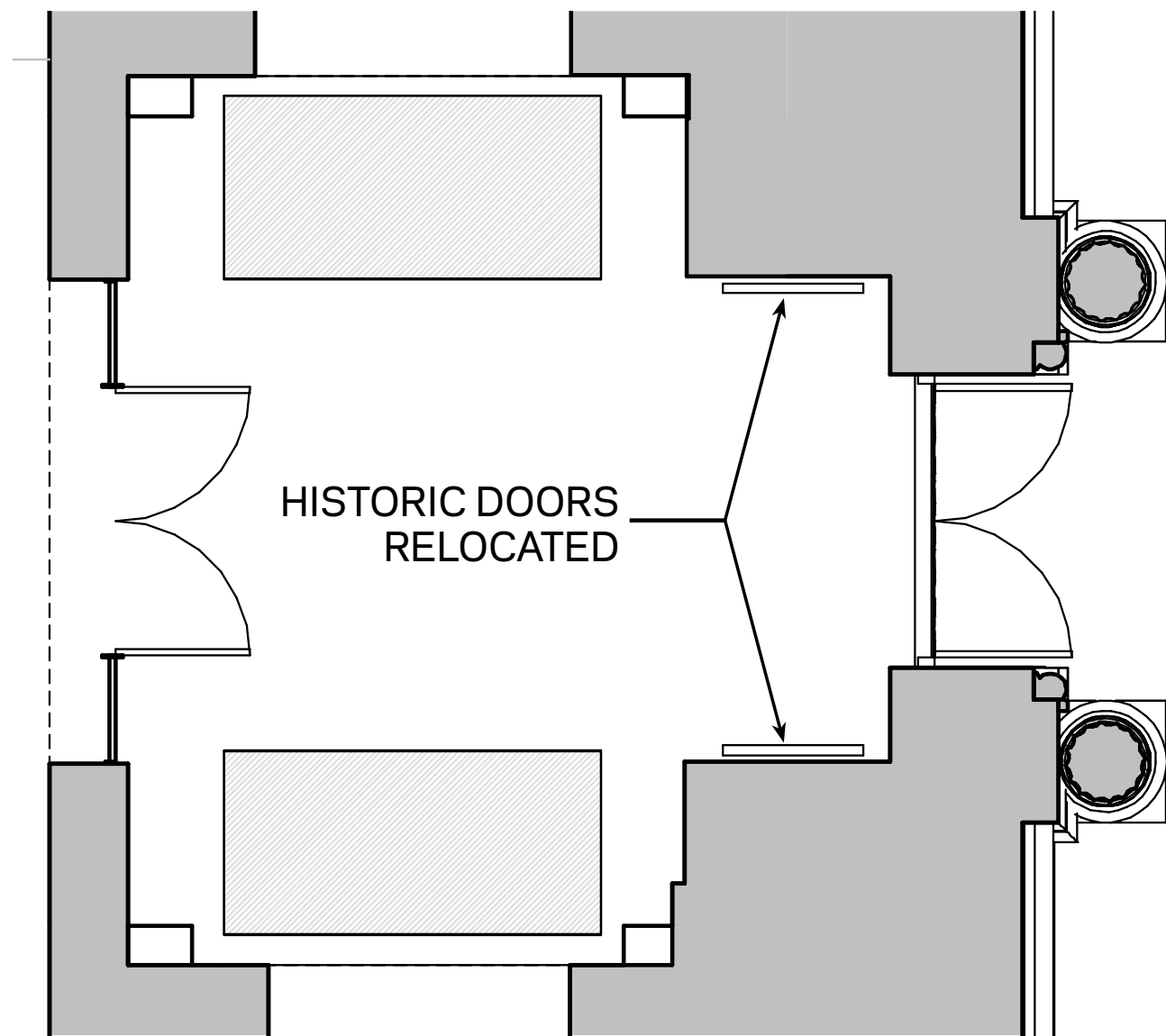
Existing CPW Entries





Proposed CPW Entries





Proposed CPW Main Entry





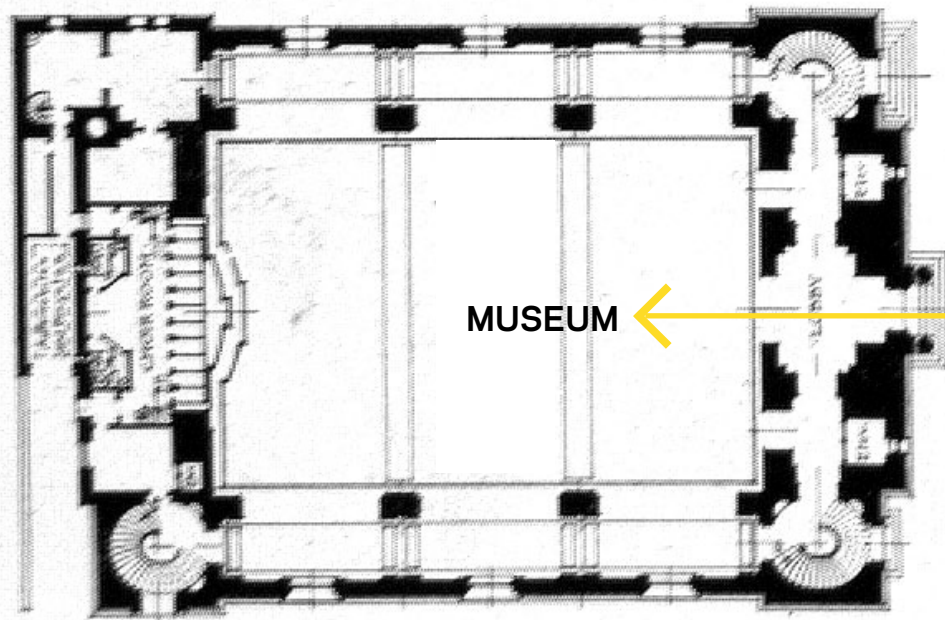
EXISTING EXTERIOR



EXISTING INTERIOR

### 361 CPW Main Window





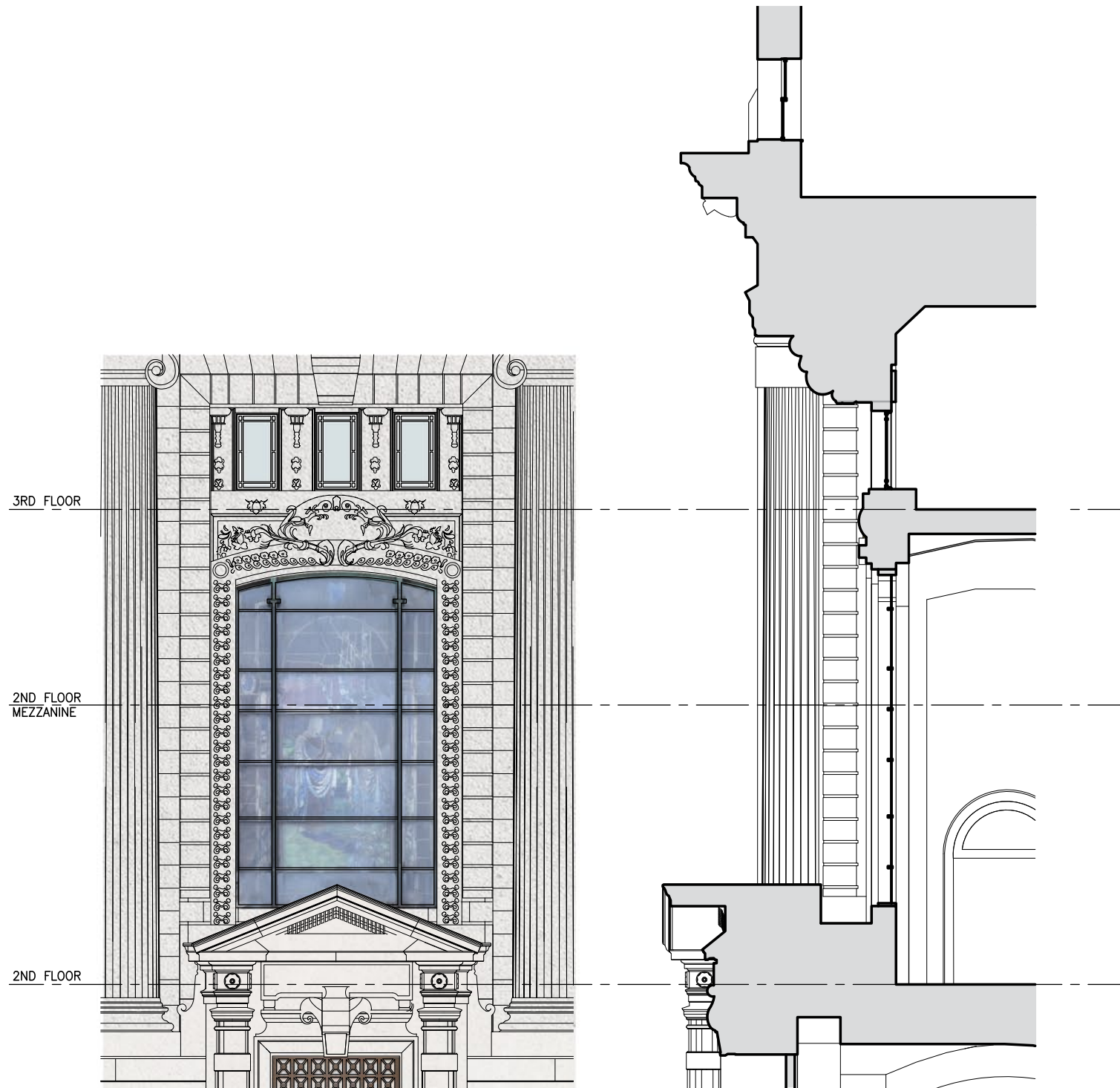
MUSEUM

PARK & CITY

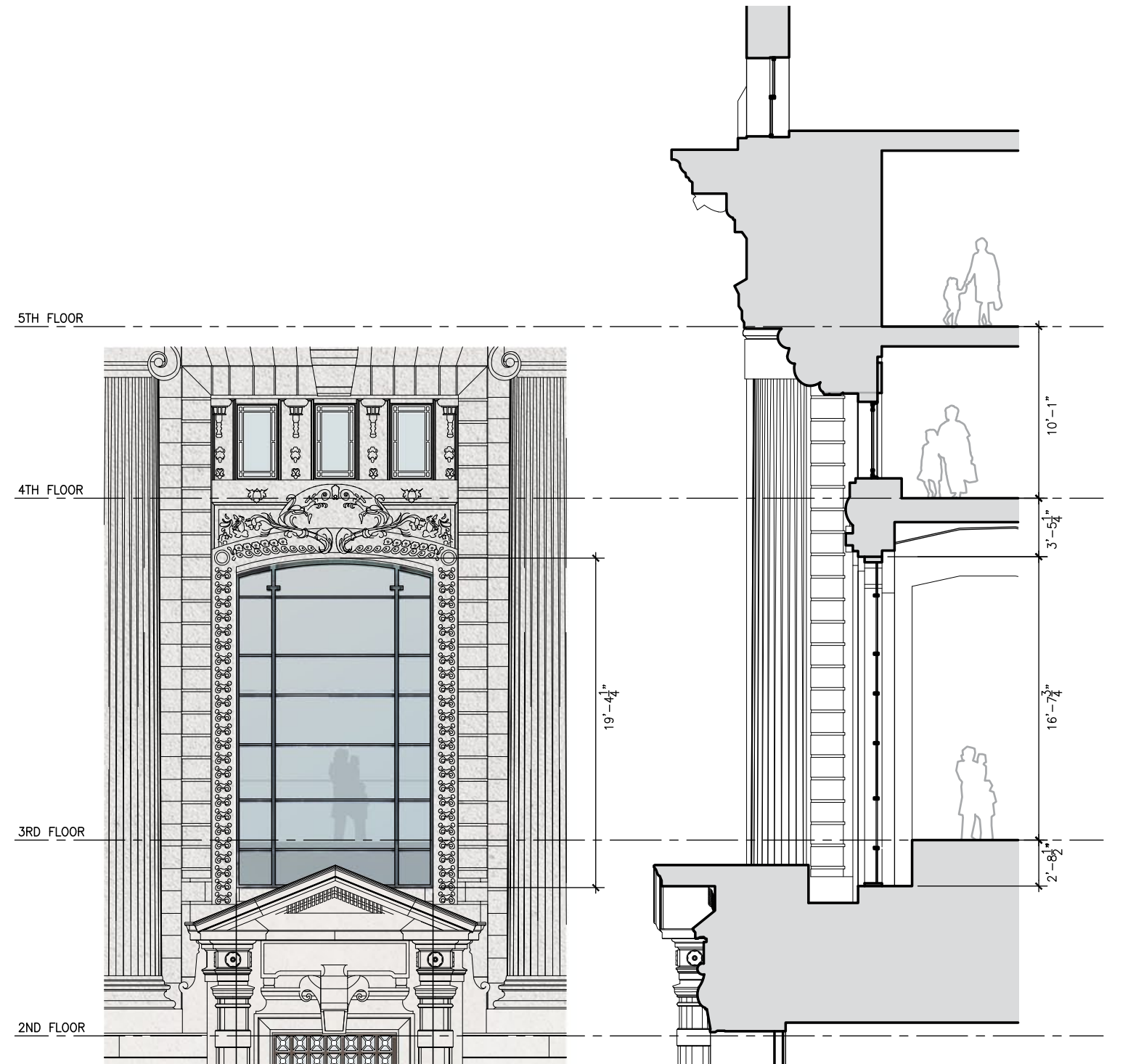


## Connected Experience





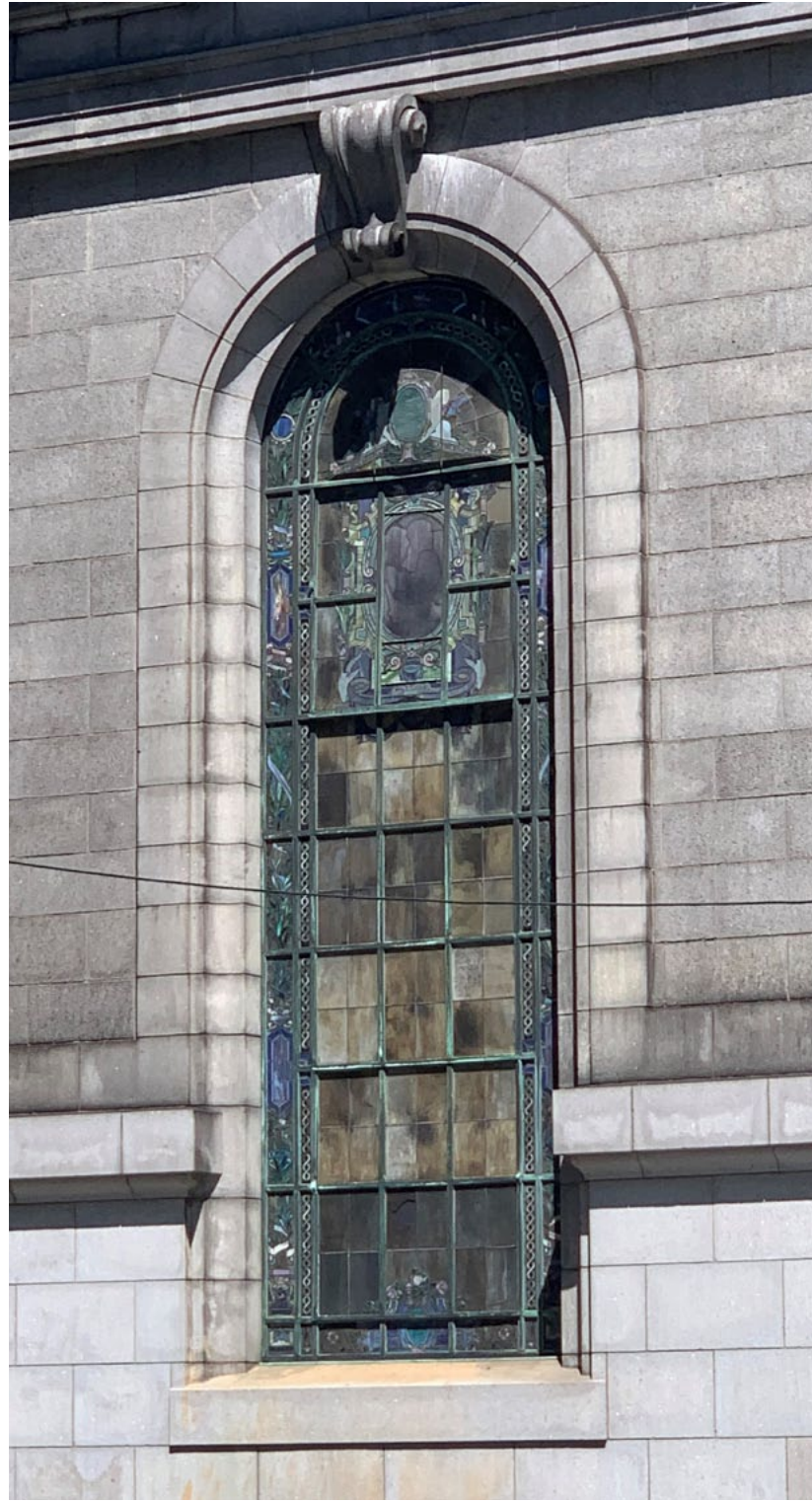
EXISTING



PROPOSED

## 361 CPW Main Window





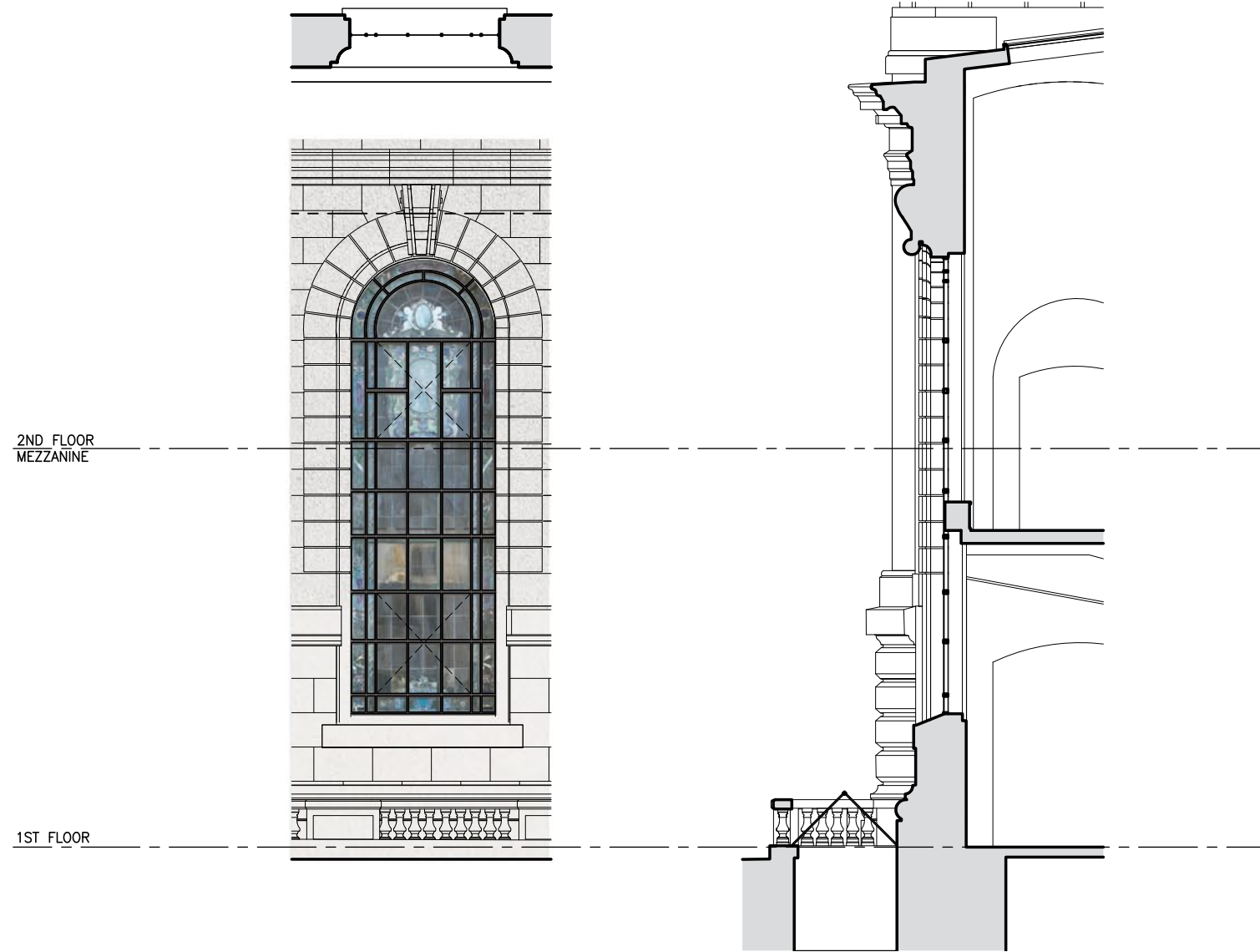
EXISTING EXTERIOR



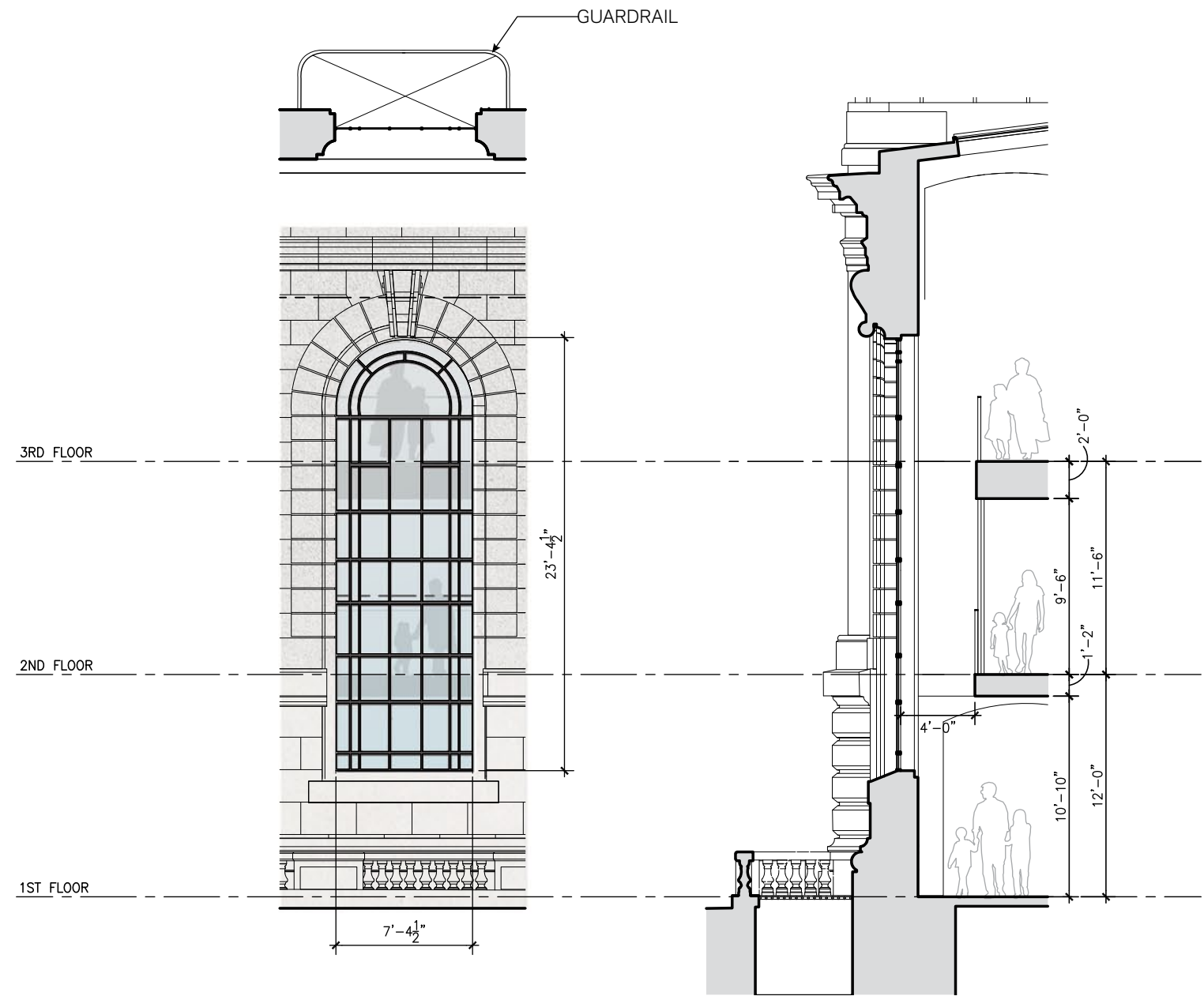
EXISTING INTERIOR

## North & South Facade Arched Windows





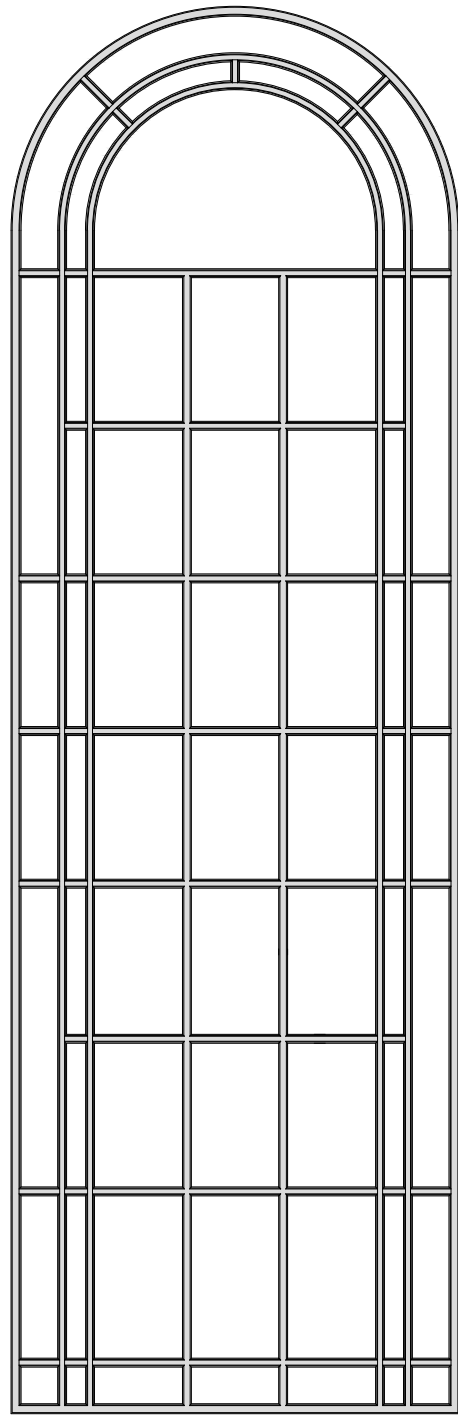
EXISTING



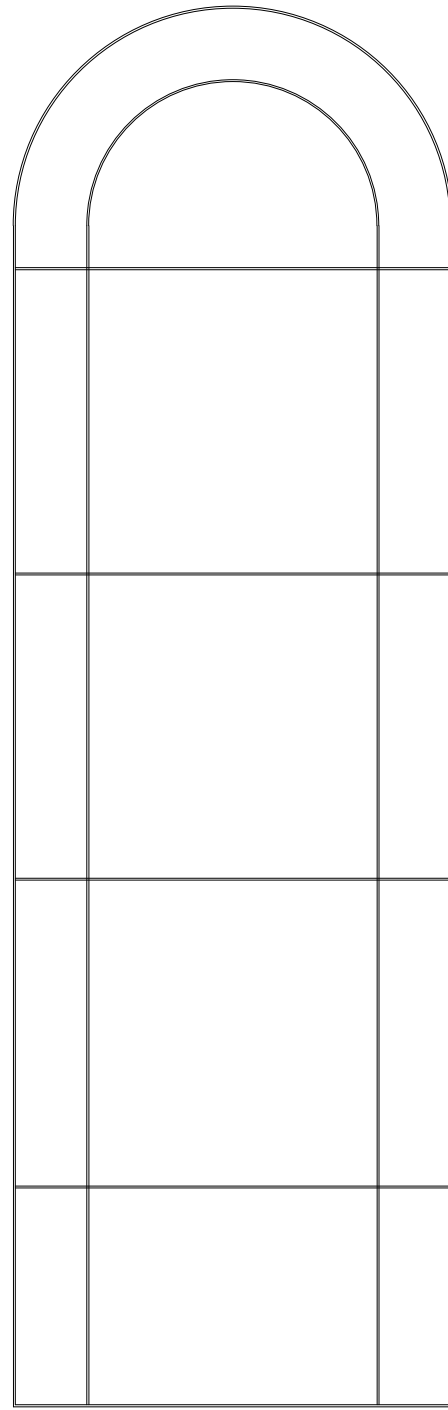
PROPOSED

## Connected Experience

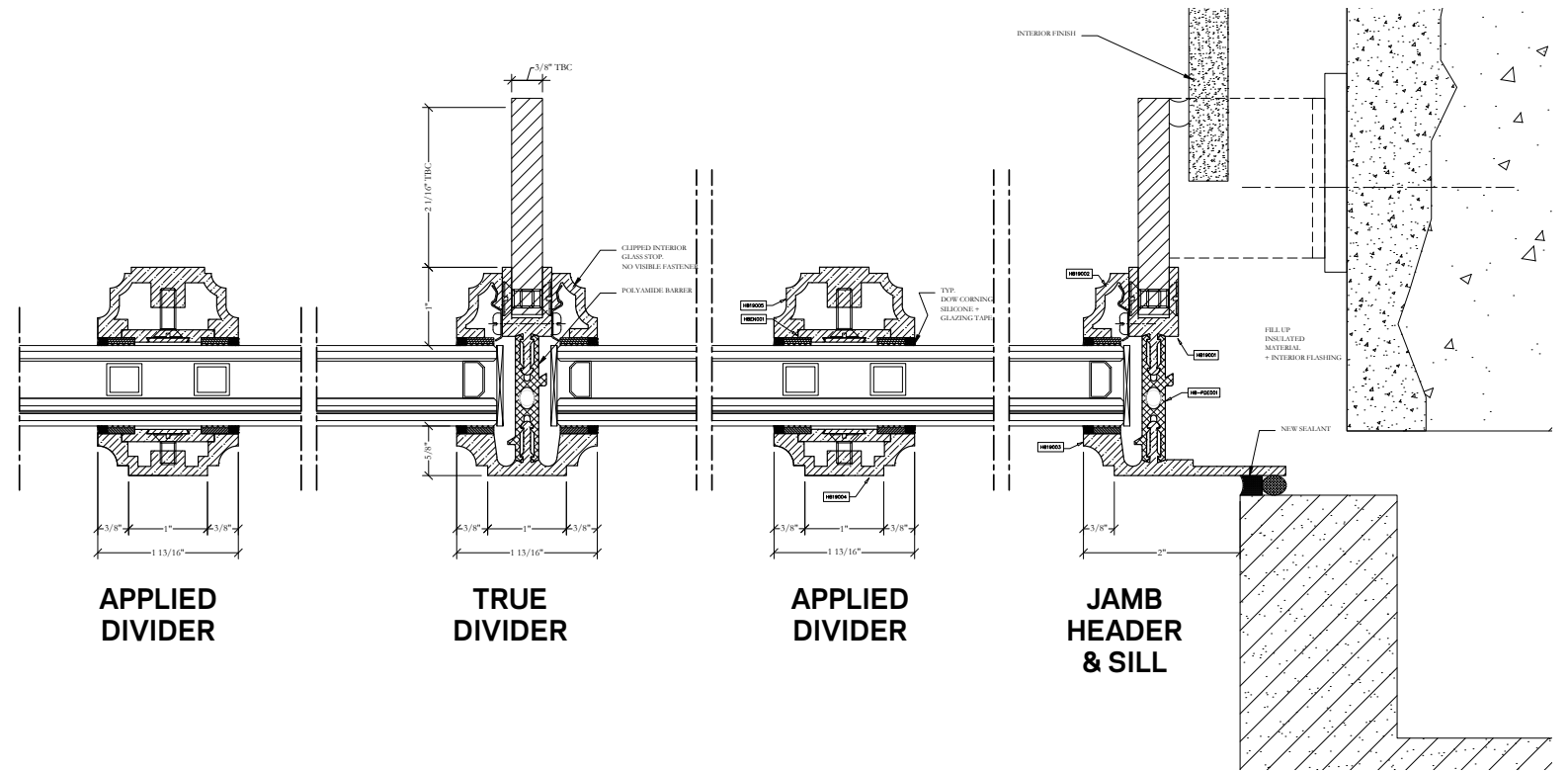




**EXTERIOR ELEVATION**



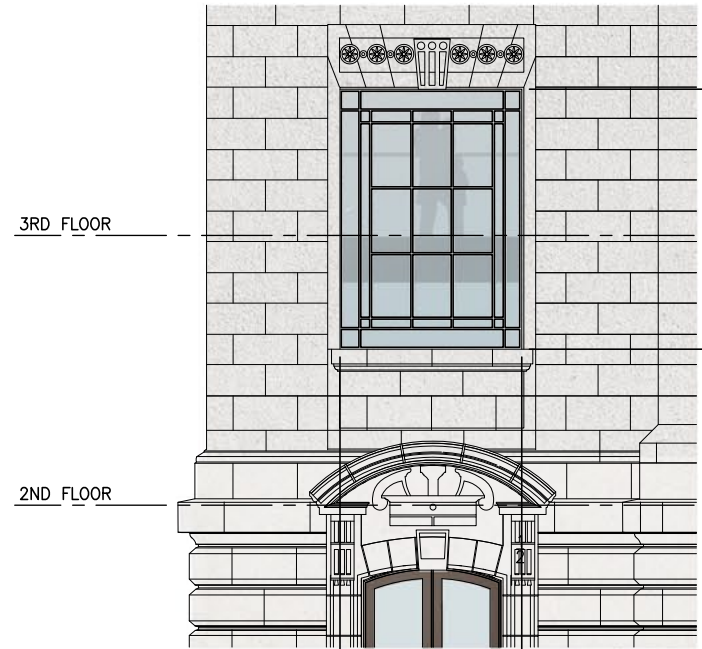
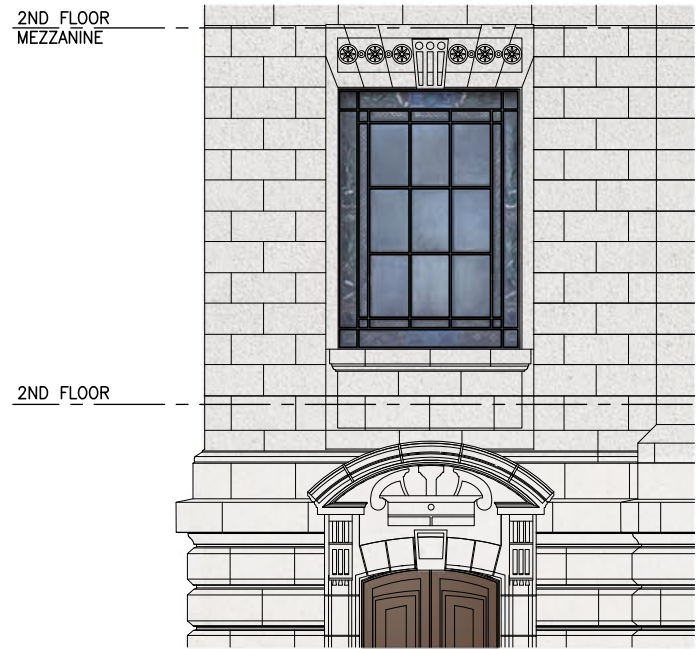
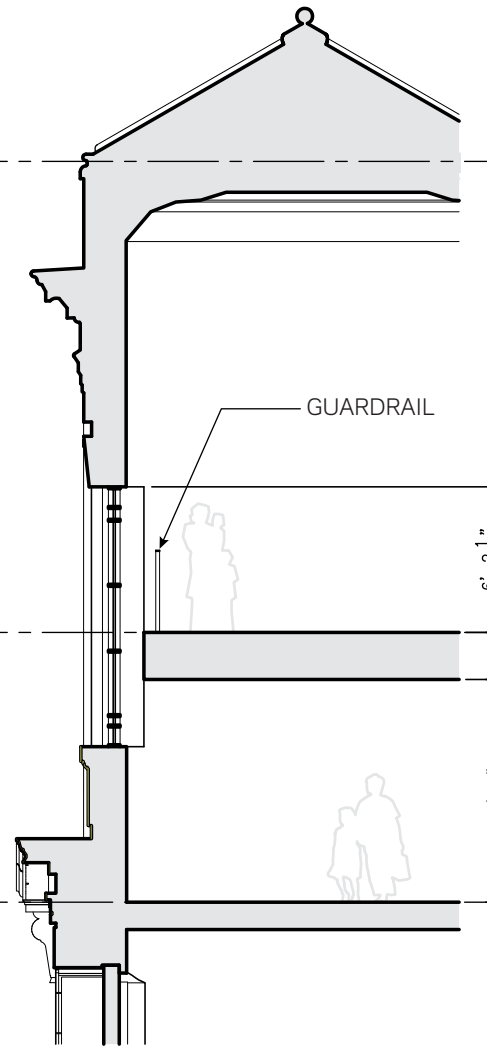
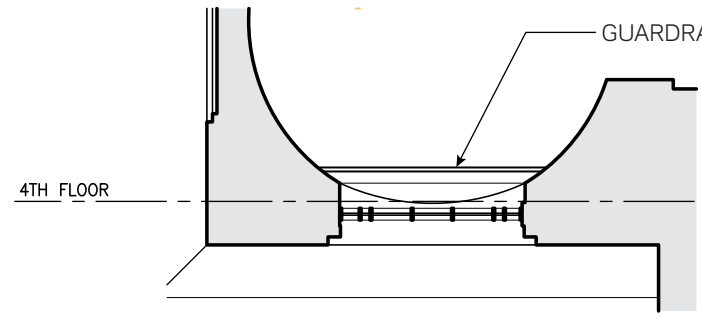
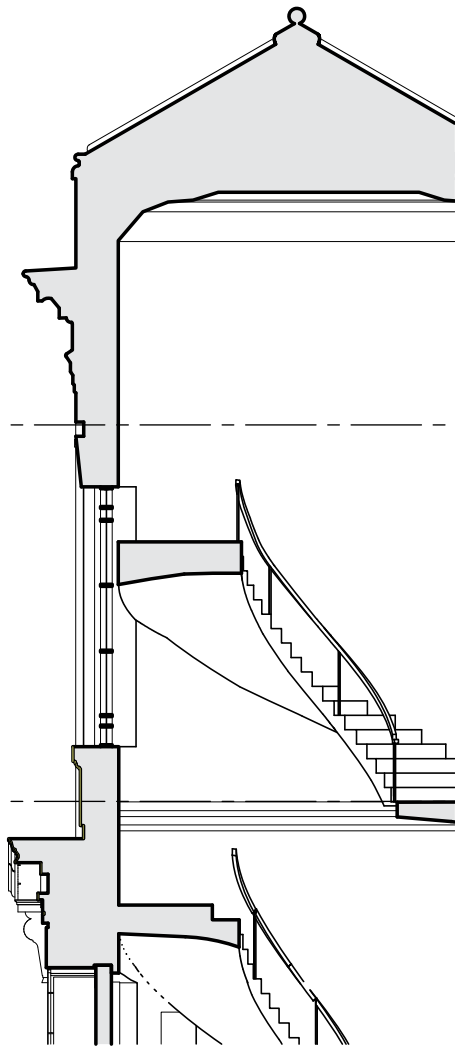
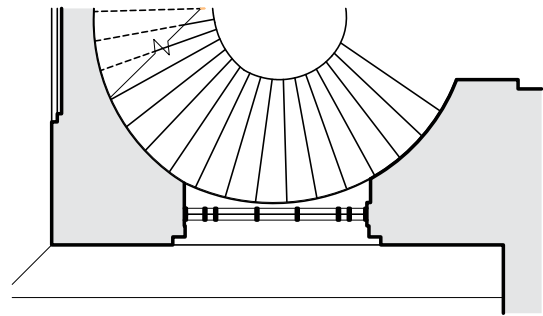
**STEEL REINFORCEMENT LAYOUT**



**TYPICAL SECTION WITH 1" INSULATED GLASS**

Window Details



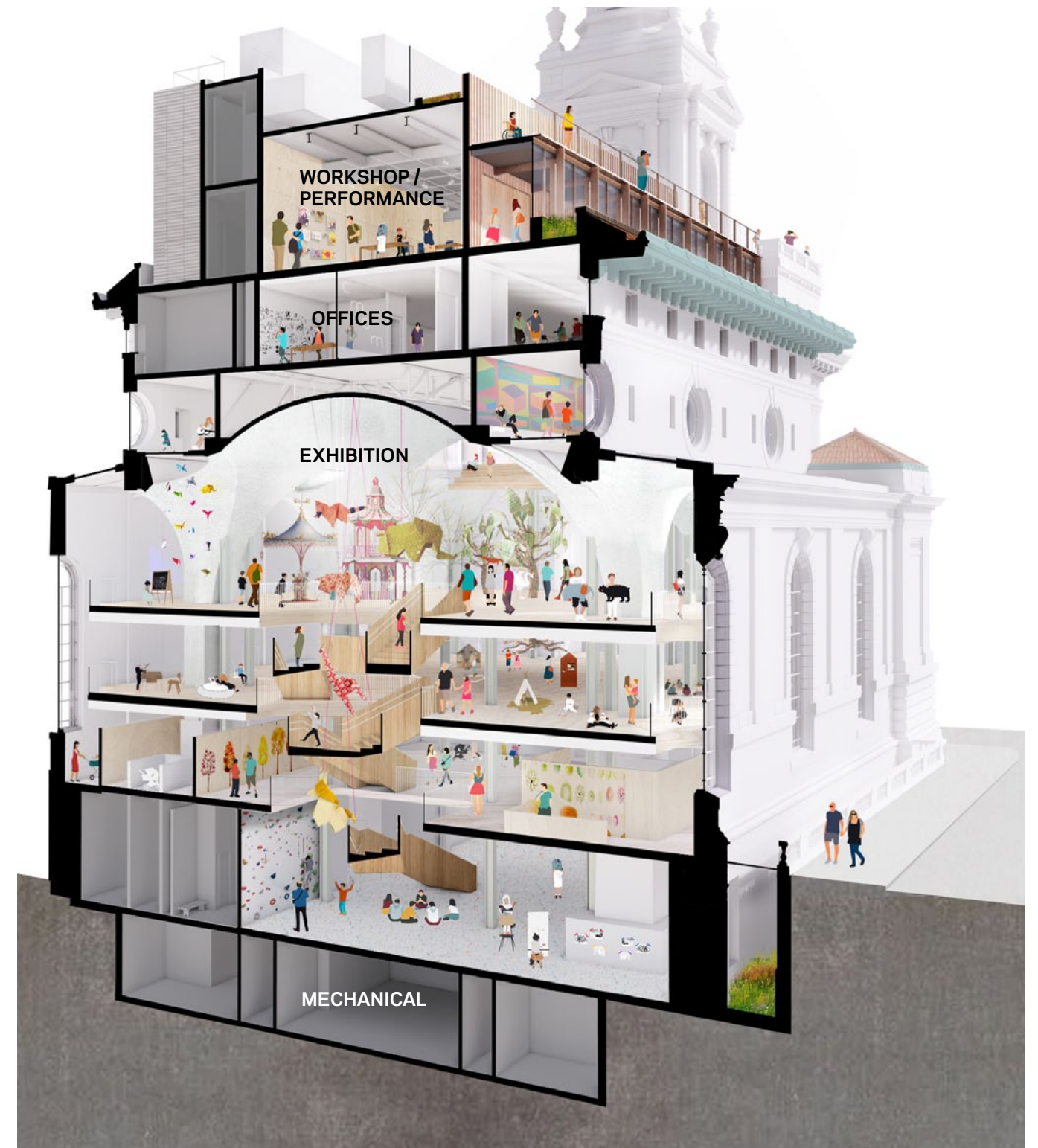
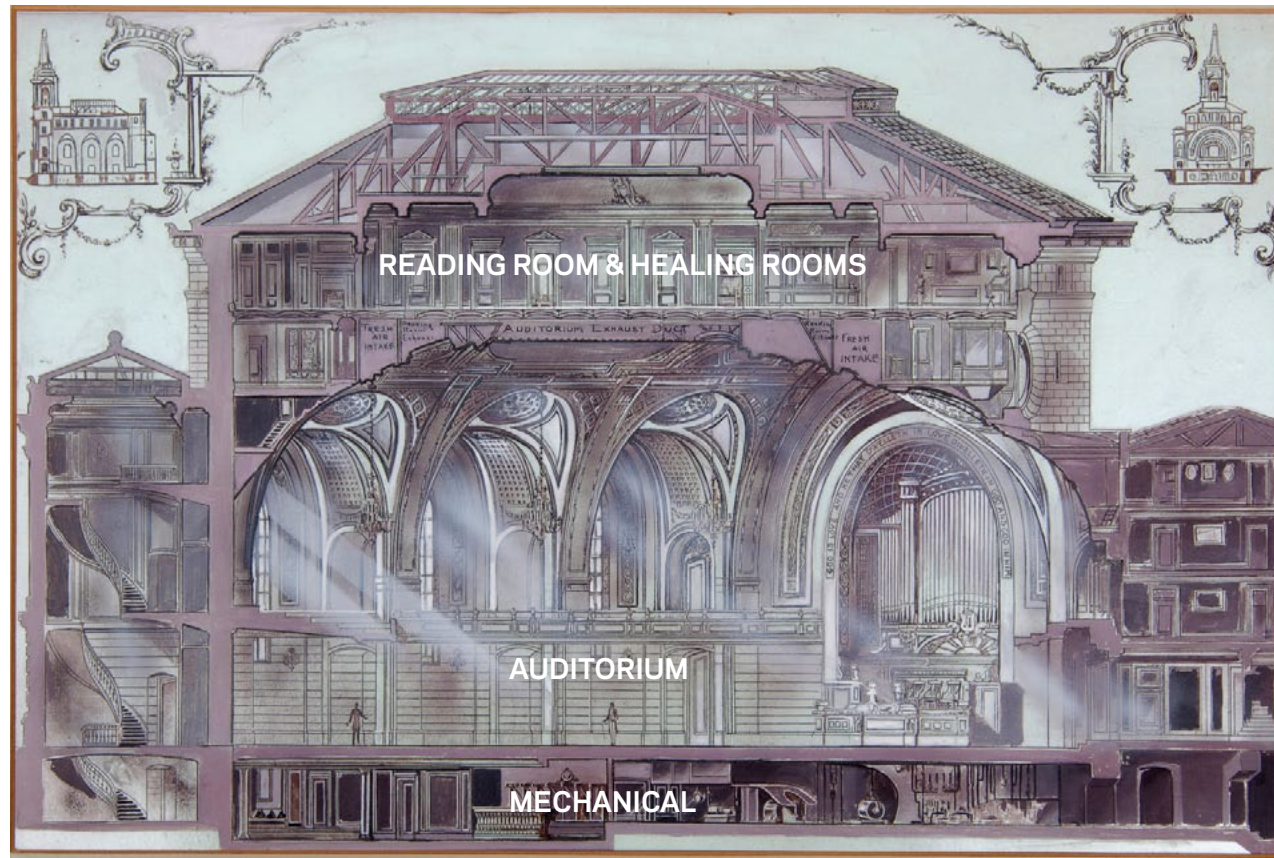


EXISTING

PROPOSED

Connected Experience





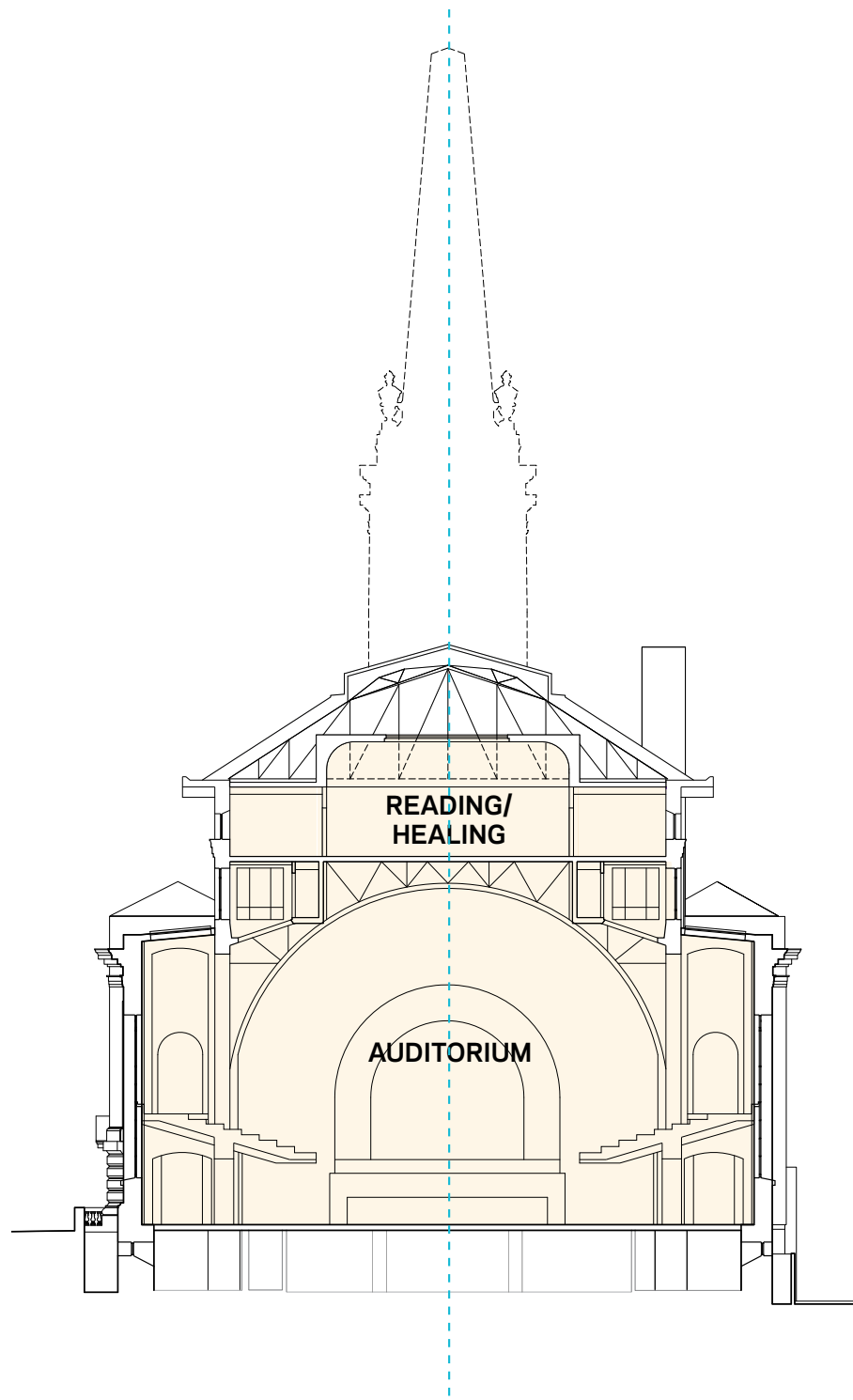
## Spirit of the Building - Building Use



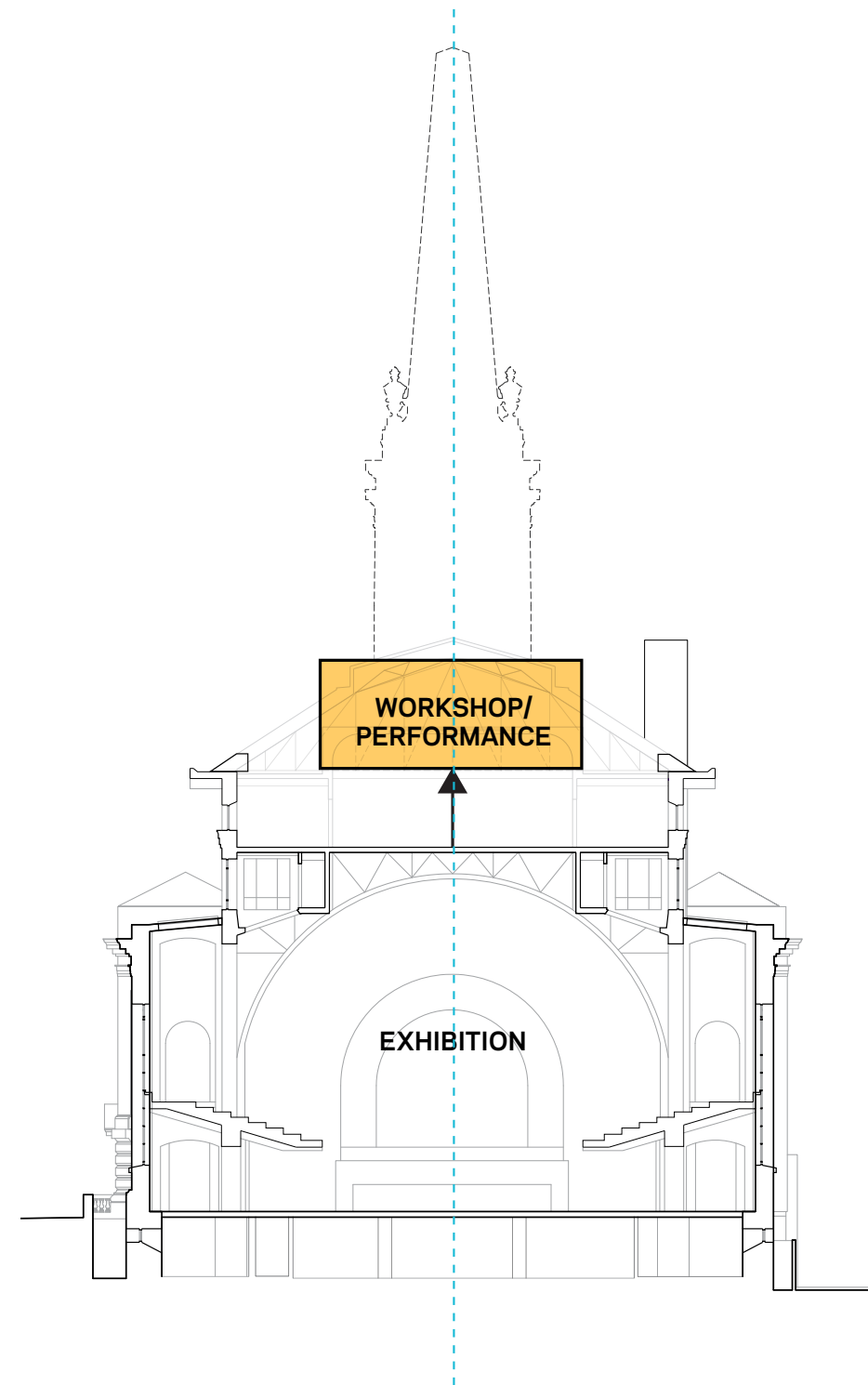


Historical Reading Room





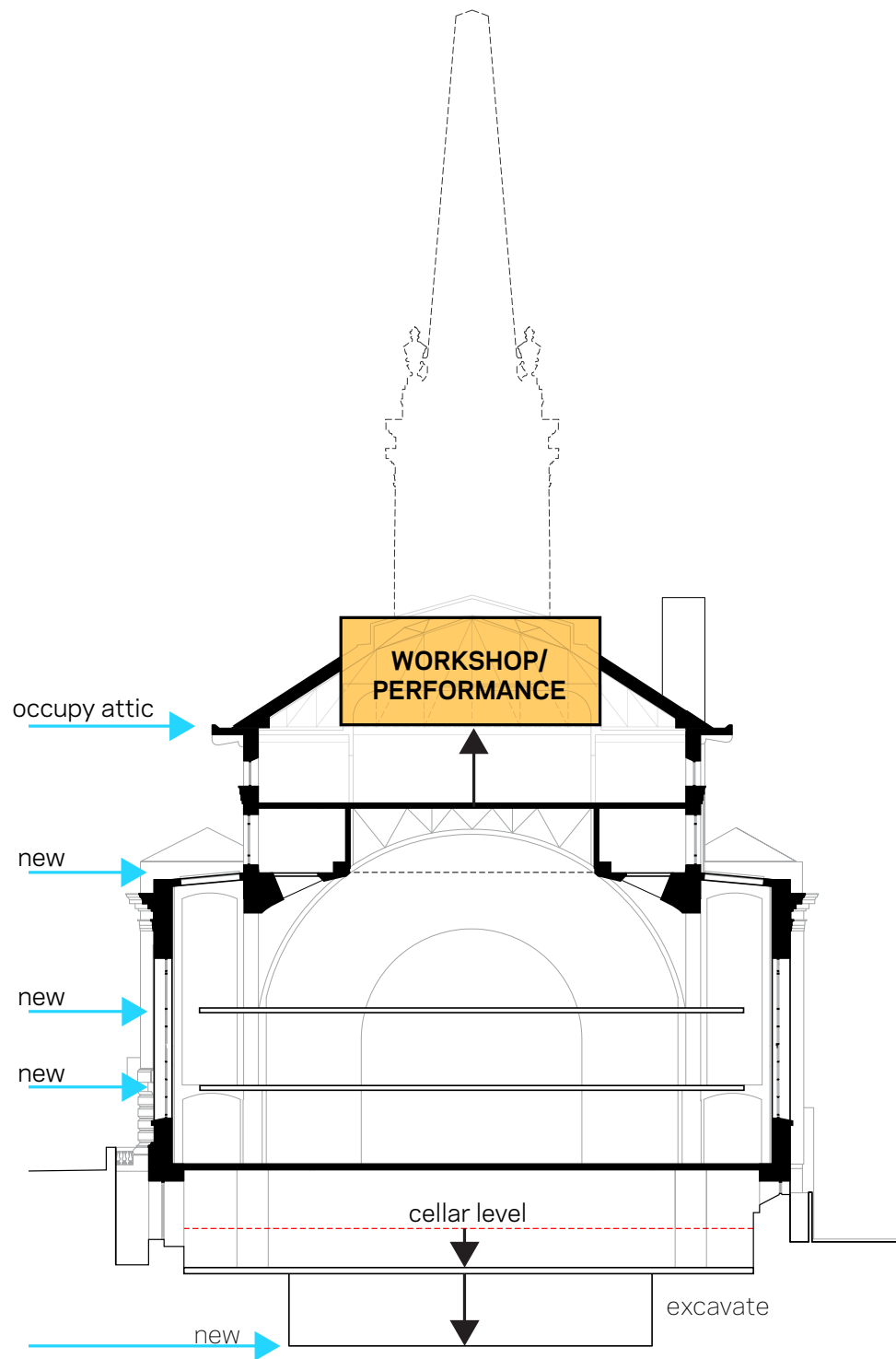
EXISTING



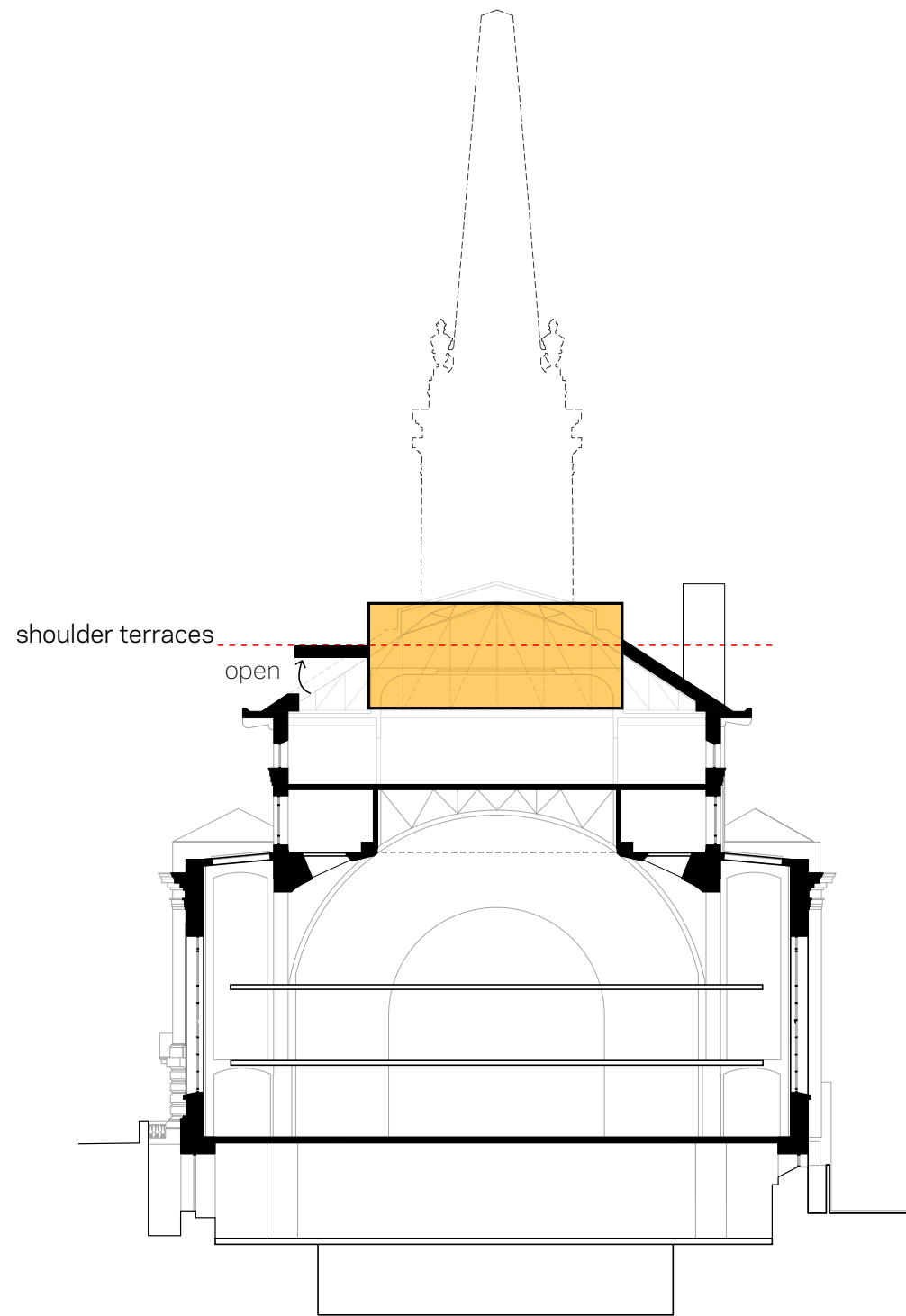
1 STORY ADDITION

Concept - Lifted Center

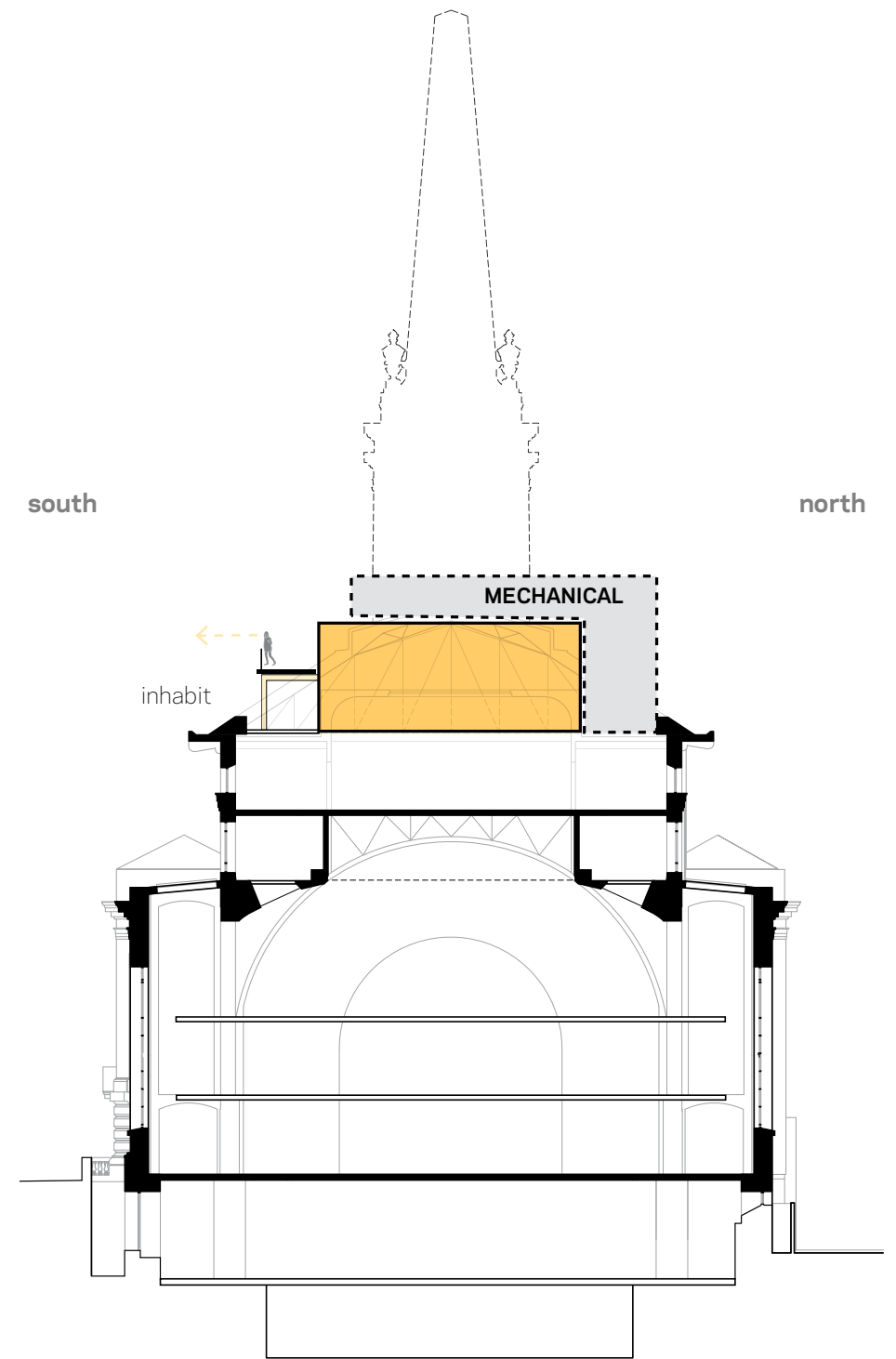




**INSERT FLOORS & PROGRAM**



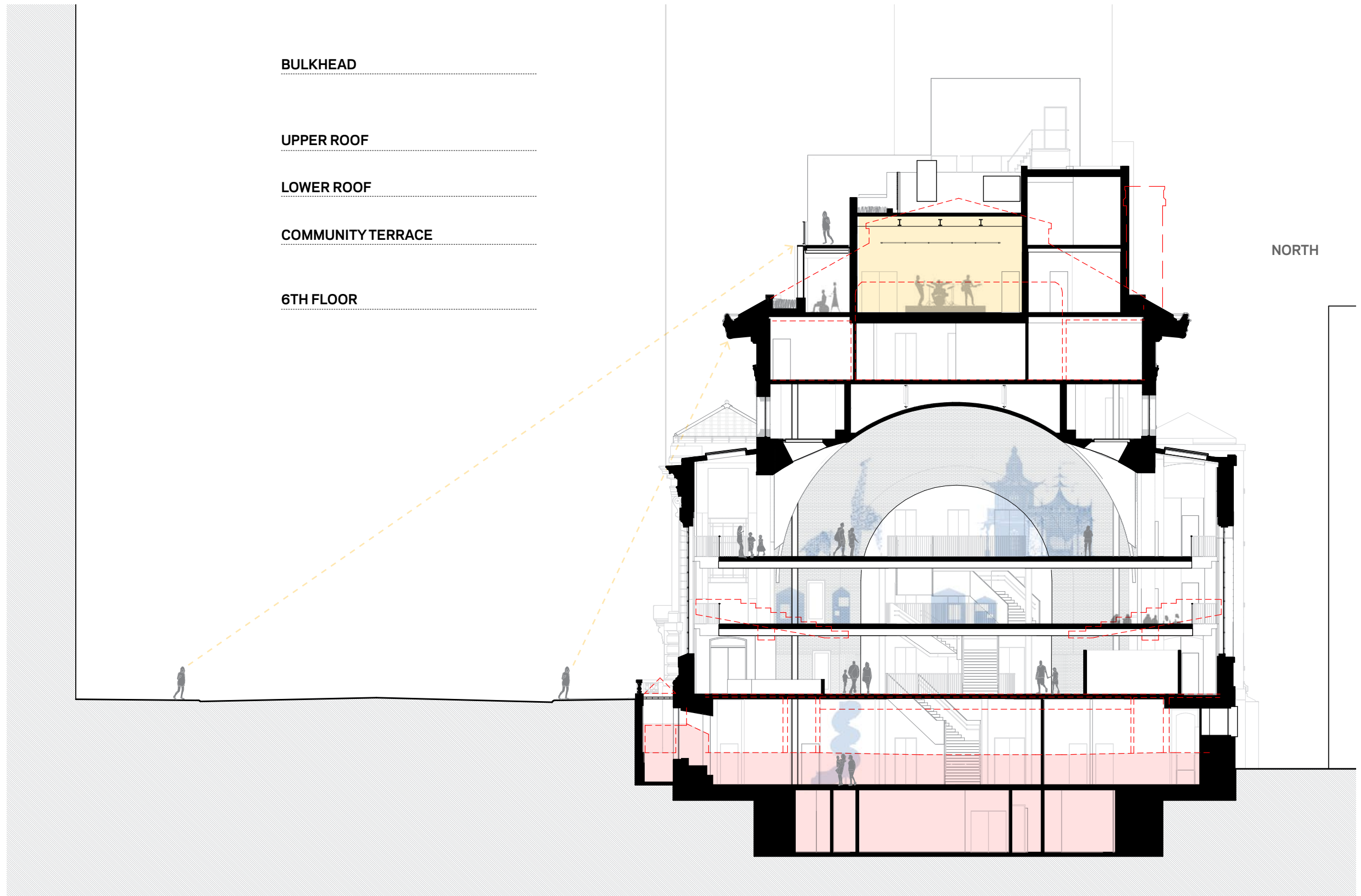
**OPEN UP ROOF - CONNECT TO TERRACES & CENTRAL PARK**



**INHABIT ROOF & PROVIDE MECHANICAL TO NORTH**

**Reinterpret the Roof**





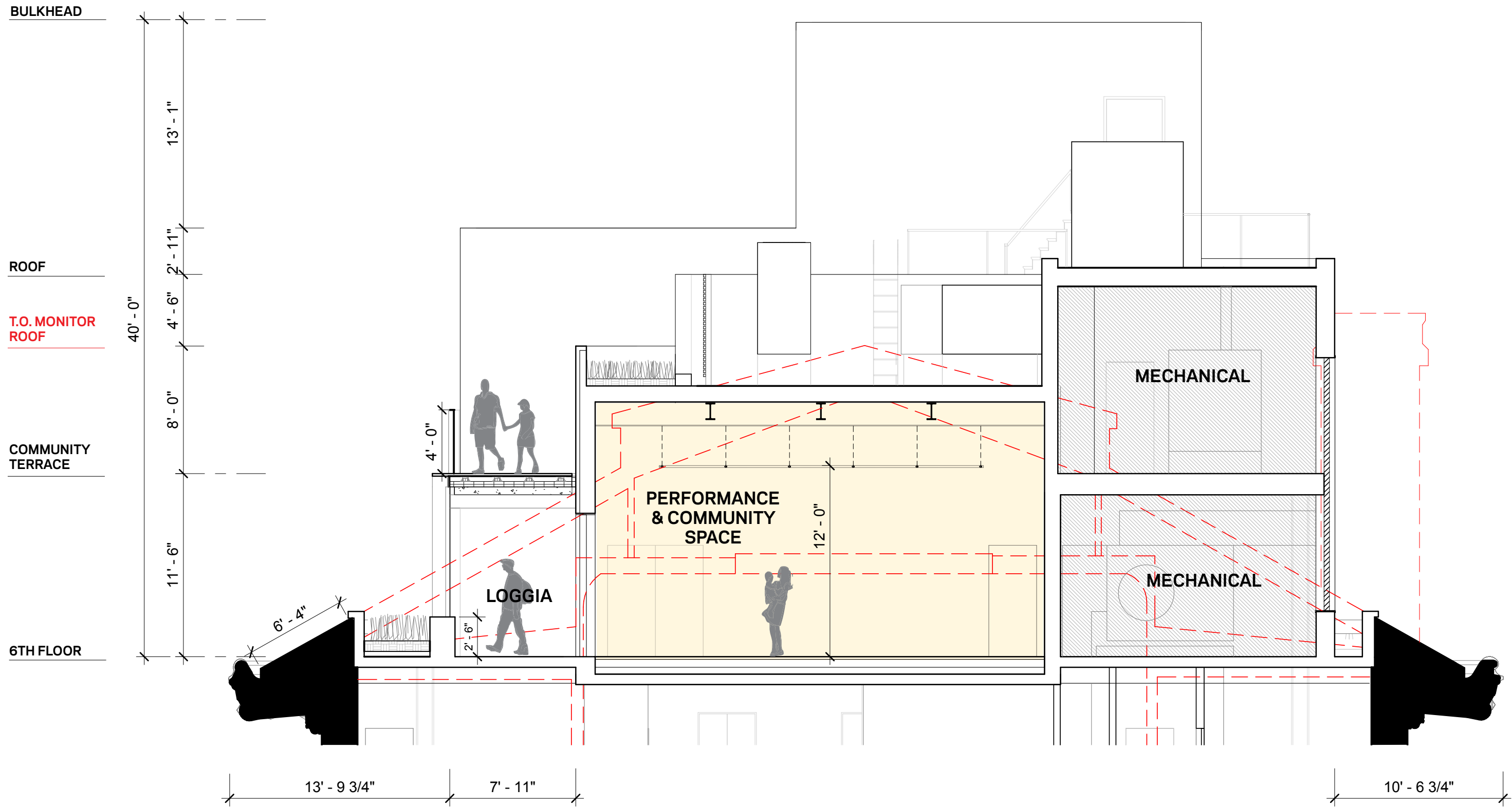
BULKHEAD  
 -----  
 UPPER ROOF  
 -----  
 LOWER ROOF  
 -----  
 COMMUNITY TERRACE  
 -----  
 6TH FLOOR  
 -----

NORTH

EXISTING -----  
 EXCAVATED [Orange Box]

Cross Section Overlay





Addition Cross Section





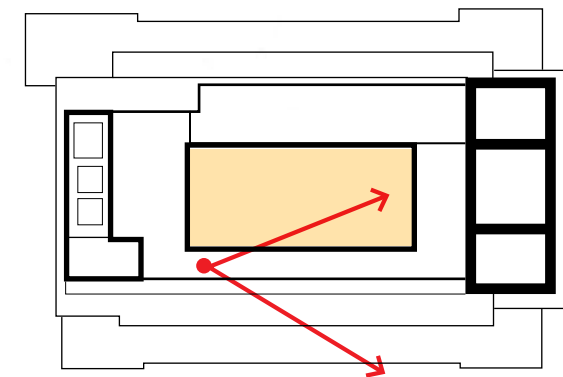
**MATERIAL PALETTE**

**Workshop / Performance, Loggia & Terrace**





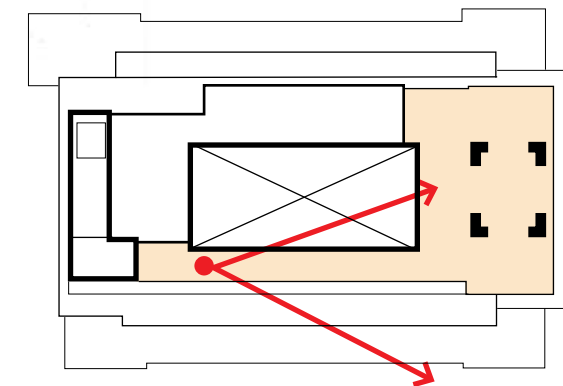
Workshop / Performance & Loggia







South Terrace







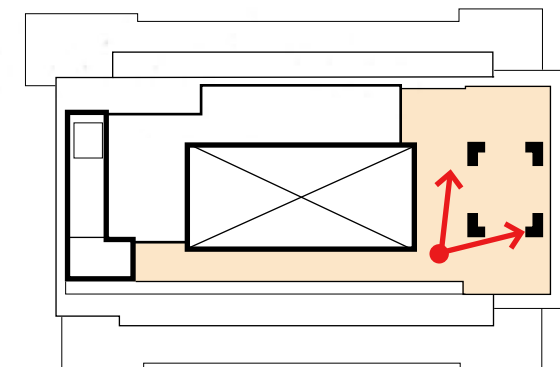
Metropolitan Museum of Art  
New York, NY

## Terrace Experience Precedent

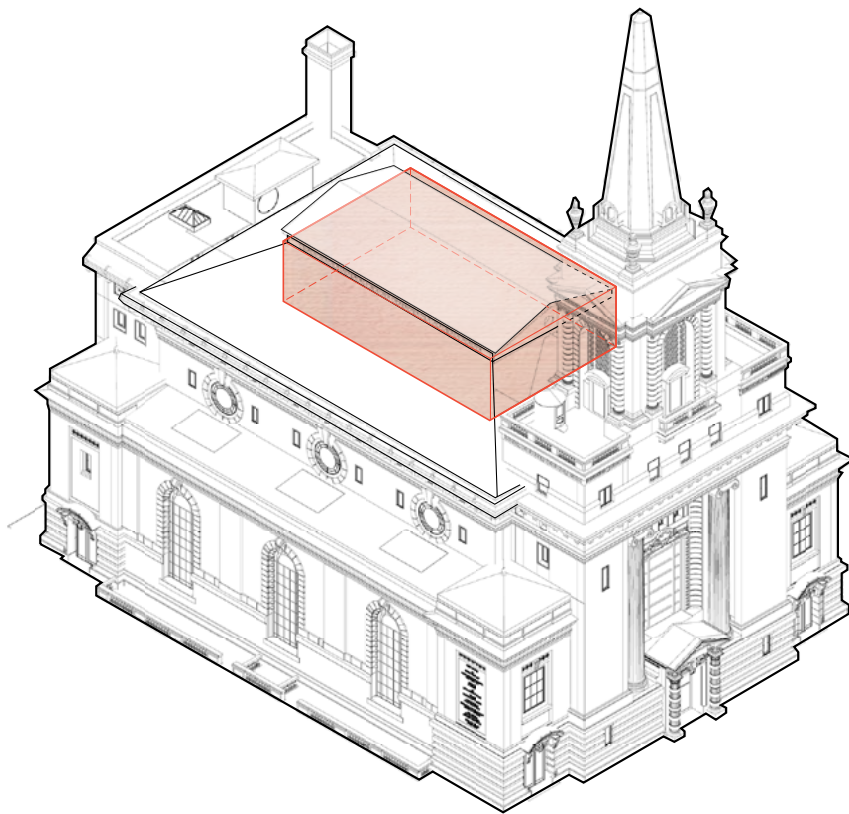




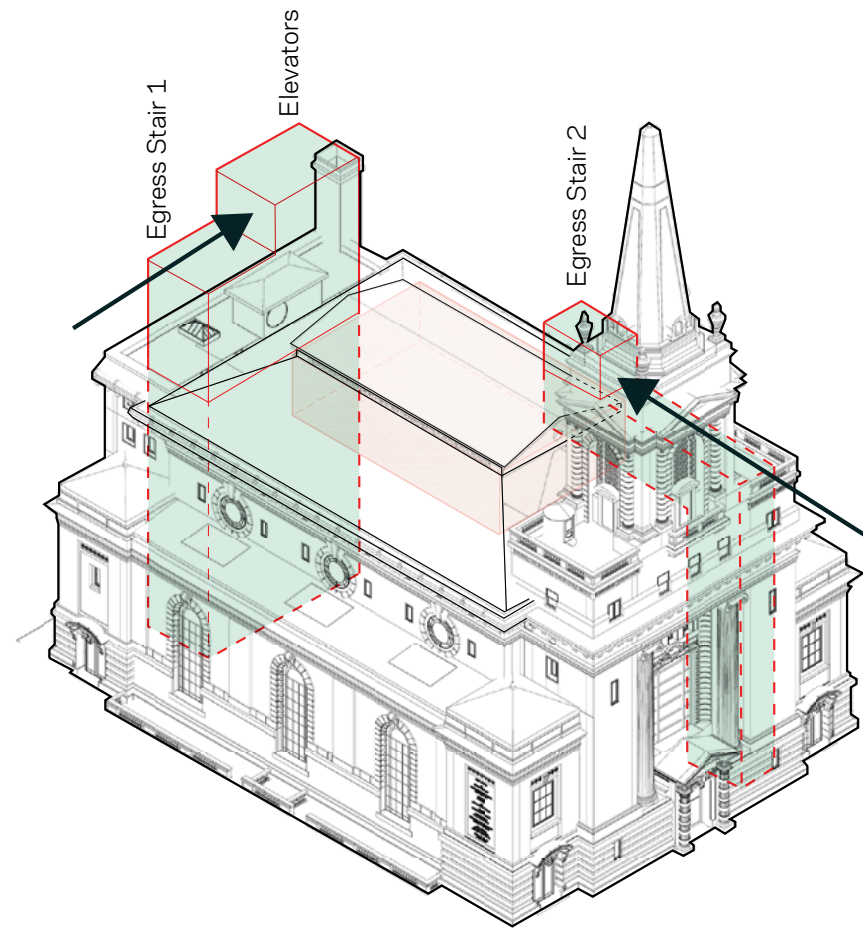
East Terrace



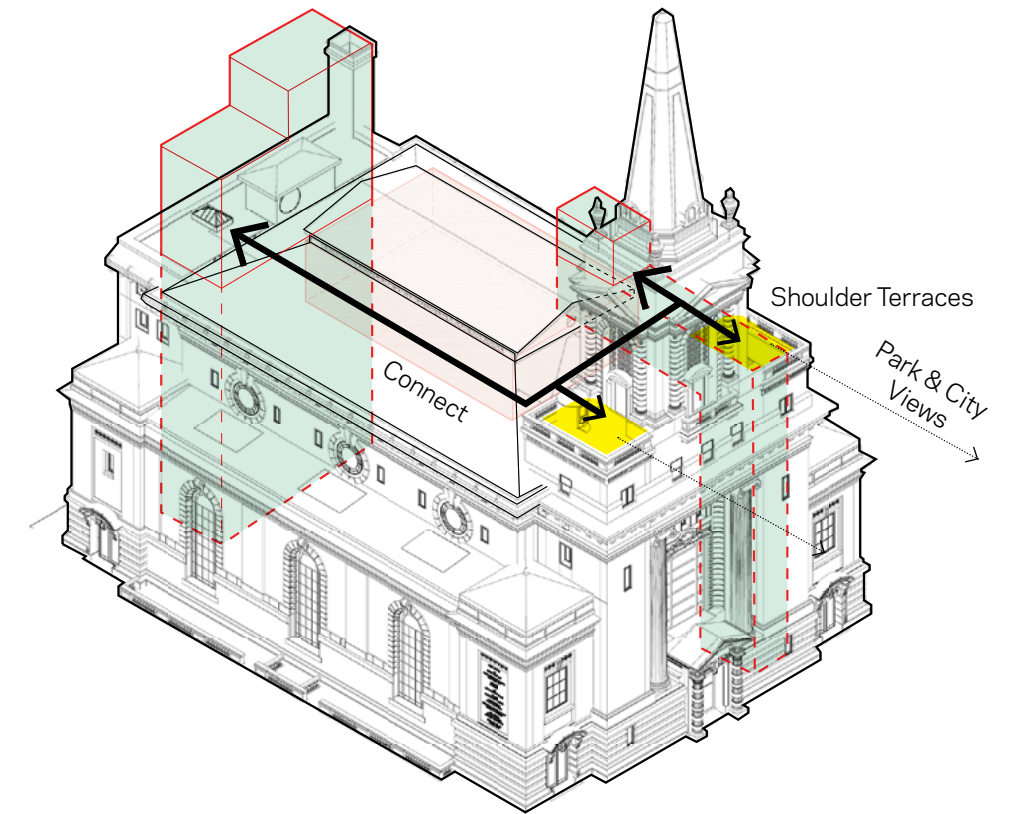




CENTERED WORKSHOP / PERFORMANCE VOLUME



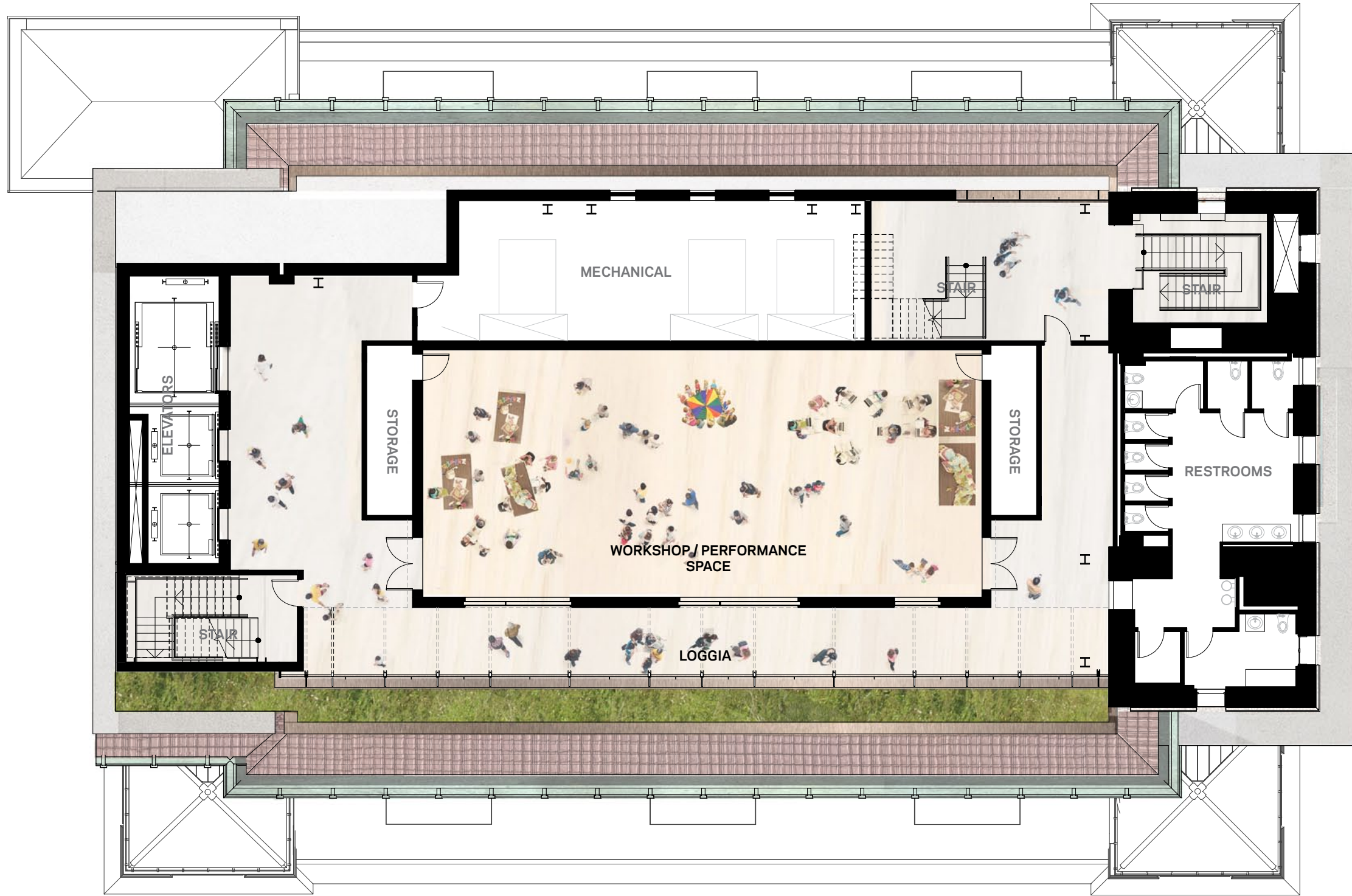
REDUCE VISIBILITY OF BULKHEADS



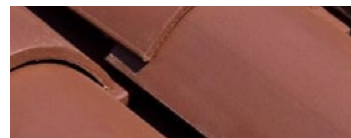
CONNECT TO TERRACES & EGRESS

## Roof Transformation & Adaptation

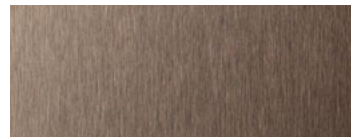




Green Roof Plantings



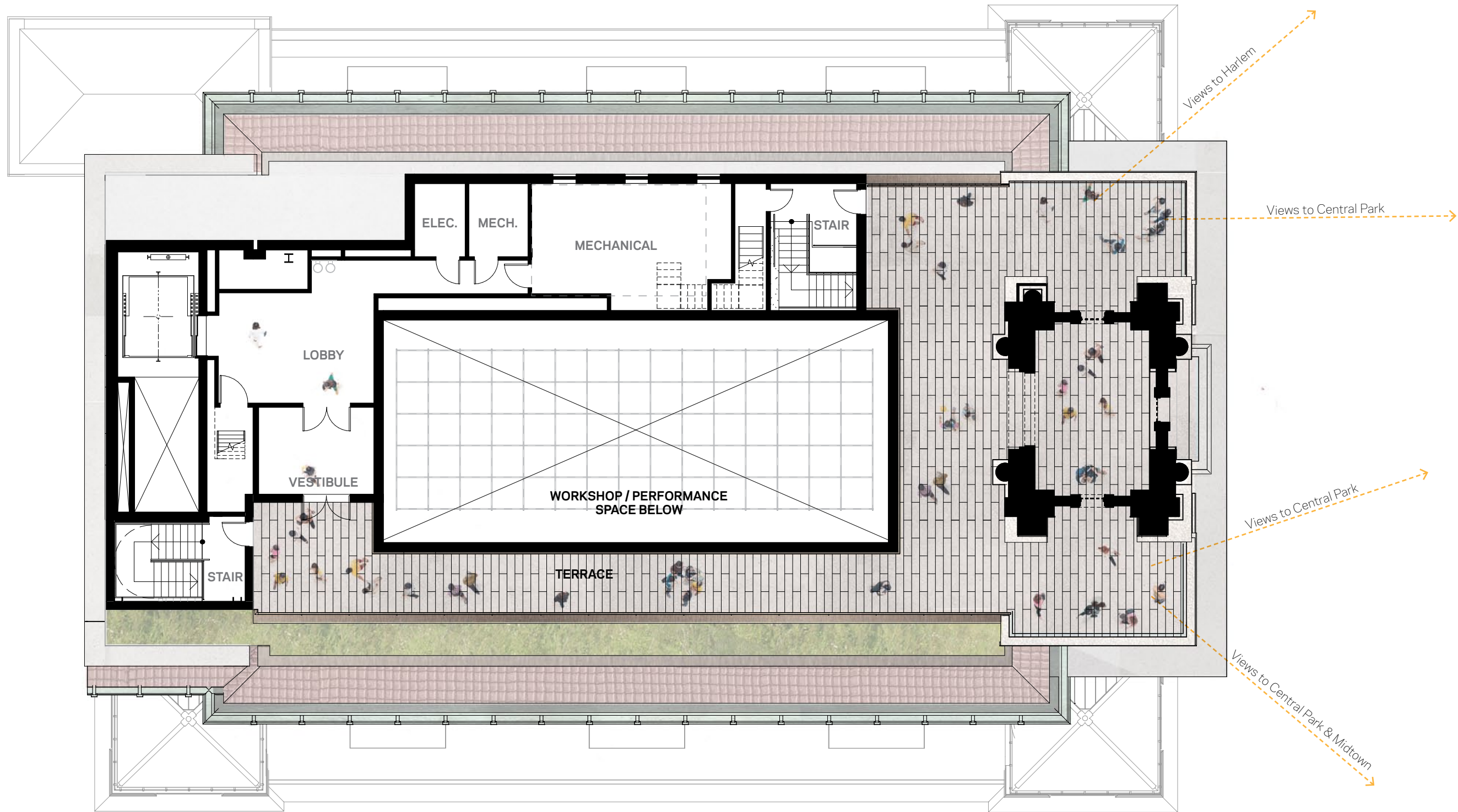
Ludowici Roof Tile - Clay Red



Oxidized Bronze Coping

## 6th Floor Plan





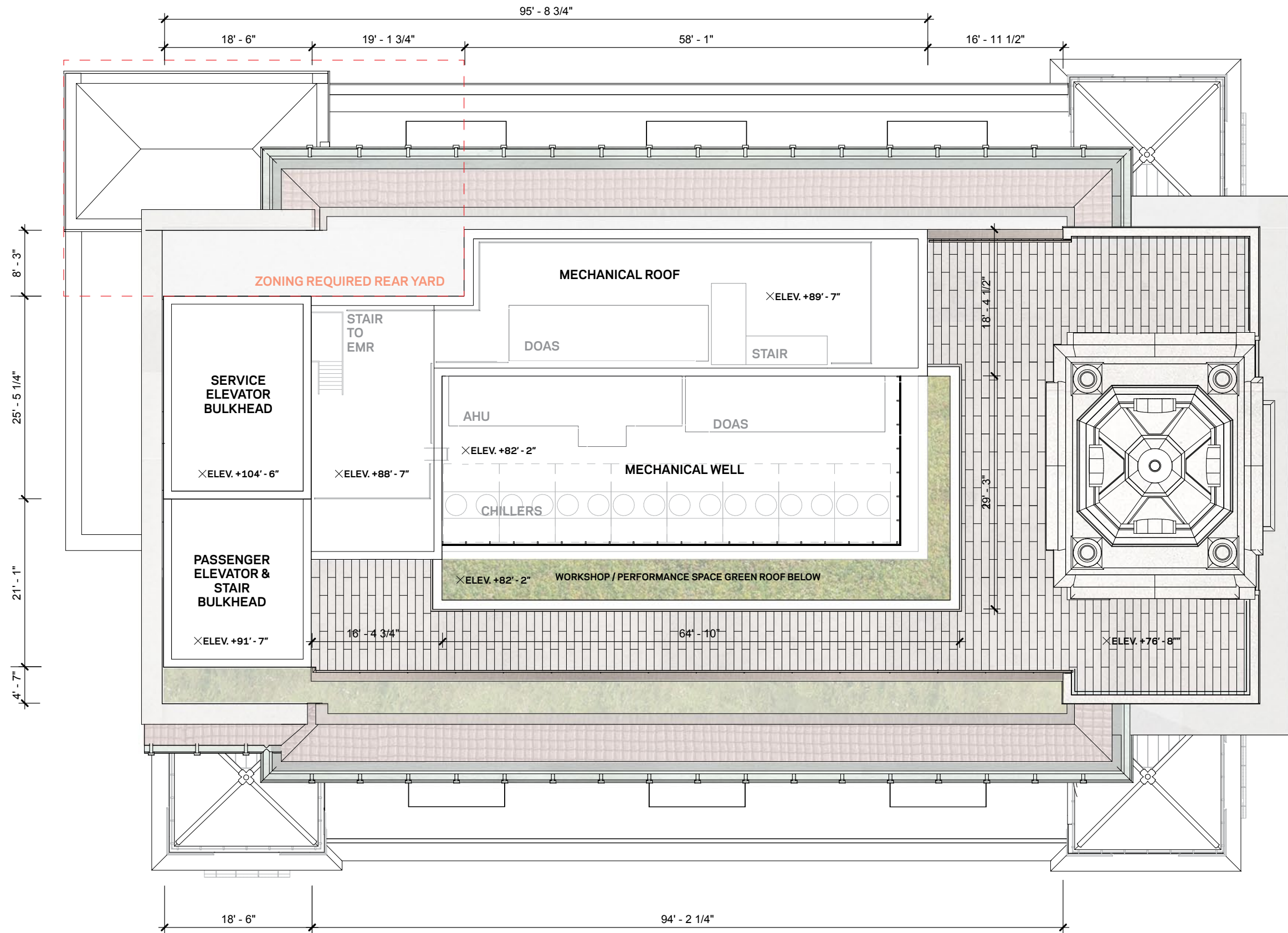
Limestone Grey Concrete Pavers



Oxidized Bronze Custom Guardrail

## 7th Floor / Terrace Plan





Roof Plan





**Domino Sugar Refinery** (formerly Havemeyers & Elder Filter, Pan & Finishing House, later known as the American Sugar Refining Company)  
 292-314 Kent Avenue  
 Constructed: 1856, 1882  
 Architect: Havemeyer & Elder, Winslow and James  
 Designation: Sept. 25, 2007, LP-2268

Approved Addition: Docket #: LPC-20-02358, COFA-20-02358  
 Architect: PAU Architects  
 Status: In Design



**Department of Marine and Aviation Piers** (formerly Municipal Ferry Piers to South Brooklyn)  
 11 South Street  
 Constructed: 1909  
 Architect: Walker & Morris  
 Designation: May 25, 1967, LP-0547

Approved Addition  
 Architect: Marvel Architects  
 Status: In Construction

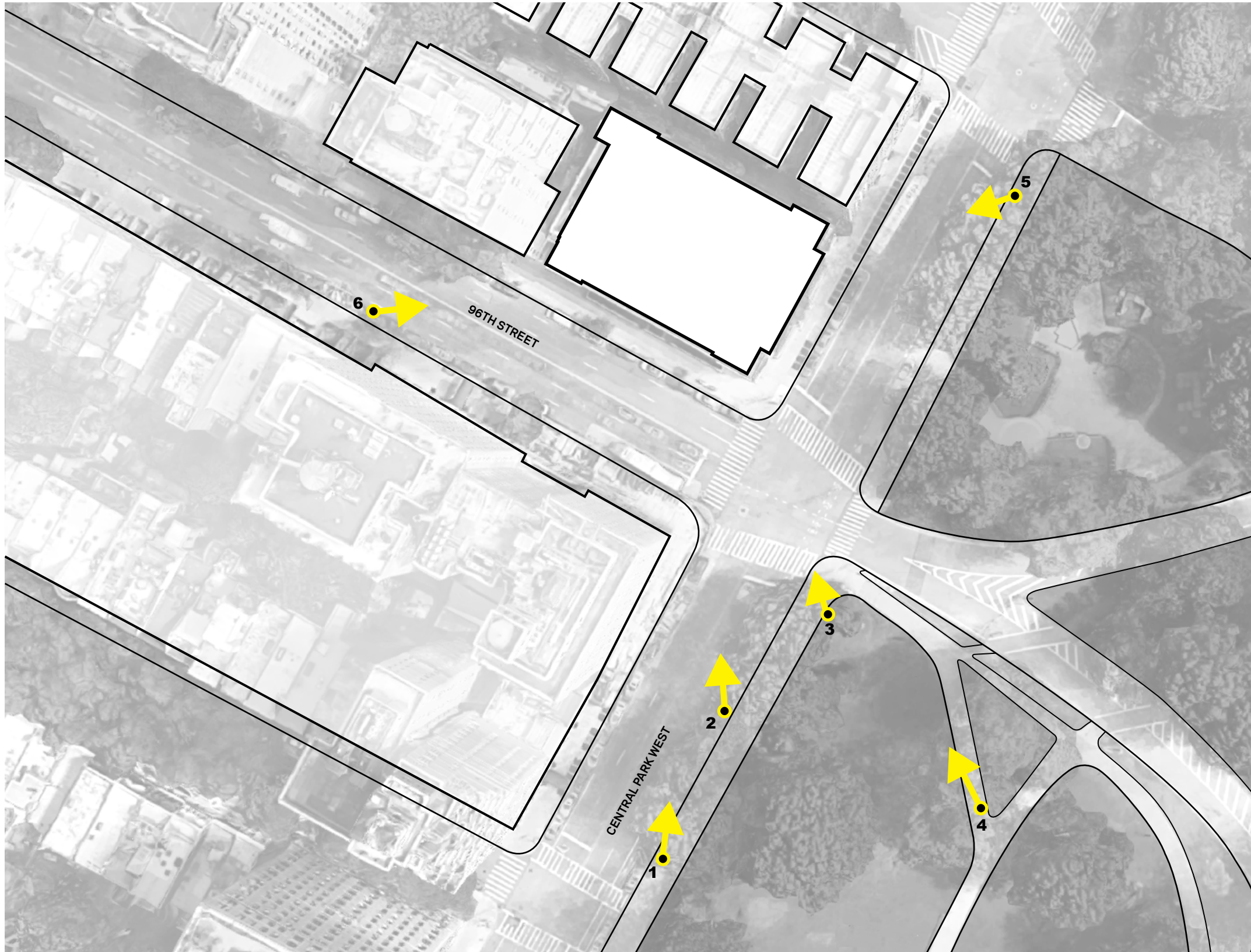


**Tammany Hall**  
 100 East 17th Street (44-48 Union Square East)  
 Constructed: 1929  
 Architect: Thompson, Holmes & Converse and Charles B. Meyers  
 Designation: Oct. 29, 2013, LP-2490

Approved Addition: Docket #163899 Approved with Modifications,  
 3/10/2015  
 BKSK Architects  
 Status: In Construction

## NYC Landmark Rooftop Additions





## Street Level Views





EXISTING



PROPOSED



Site Plan

### View 1 - CPW South of 96th Street





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to  
reflect proposed design.



**PROPOSED**



Site Plan

**View 1 - CPW South of 96th Street**





EXISTING



PROPOSED



Site Plan

View 2 - CPW South of 96th Street





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to  
reflect proposed design.



Site Plan



**PROPOSED**

**View 2 - CPW South of 96th Street**





EXISTING



PROPOSED



Site Plan

### View 3 - Southeast Corner of CPW & 96th Street





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to  
reflect proposed design.



**PROPOSED**



Site Plan

### View 3 - Southeast Corner of CPW & 96th Street





EXISTING



PROPOSED



Site Plan

View 4 - From Central Park





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to  
reflect proposed design.



Site Plan



**PROPOSED**

**View 4 - From Central Park**





EXISTING



PROPOSED



Site Plan

### View 5 - CPW North of 96th Street





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to reflect proposed design.



**PROPOSED**



Site Plan

**View 5 - CPW North of 96th Street**





EXISTING



PROPOSED



Site Plan

### View 6 - 96th Street





**MOCK-UP**

NOTE: Mock-up image placeholder.  
Mock-up undergoing adjustments to  
reflect proposed design.



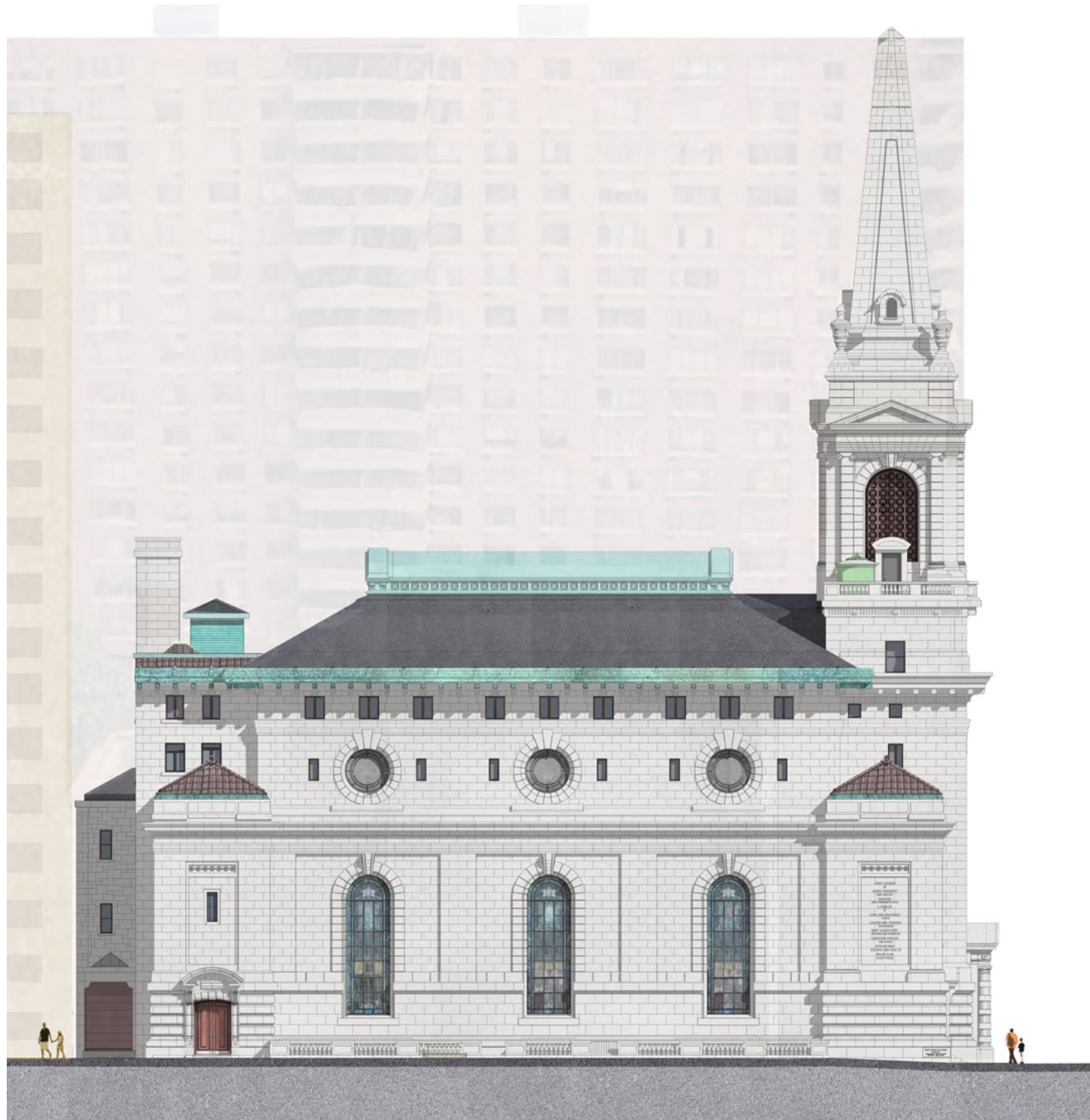
Site Plan



**PROPOSED**

**View 6 - 96th Street**





EXISTING



PROPOSED

## South Elevation





HISTORIC



PROPOSED

South Elevation





EXISTING



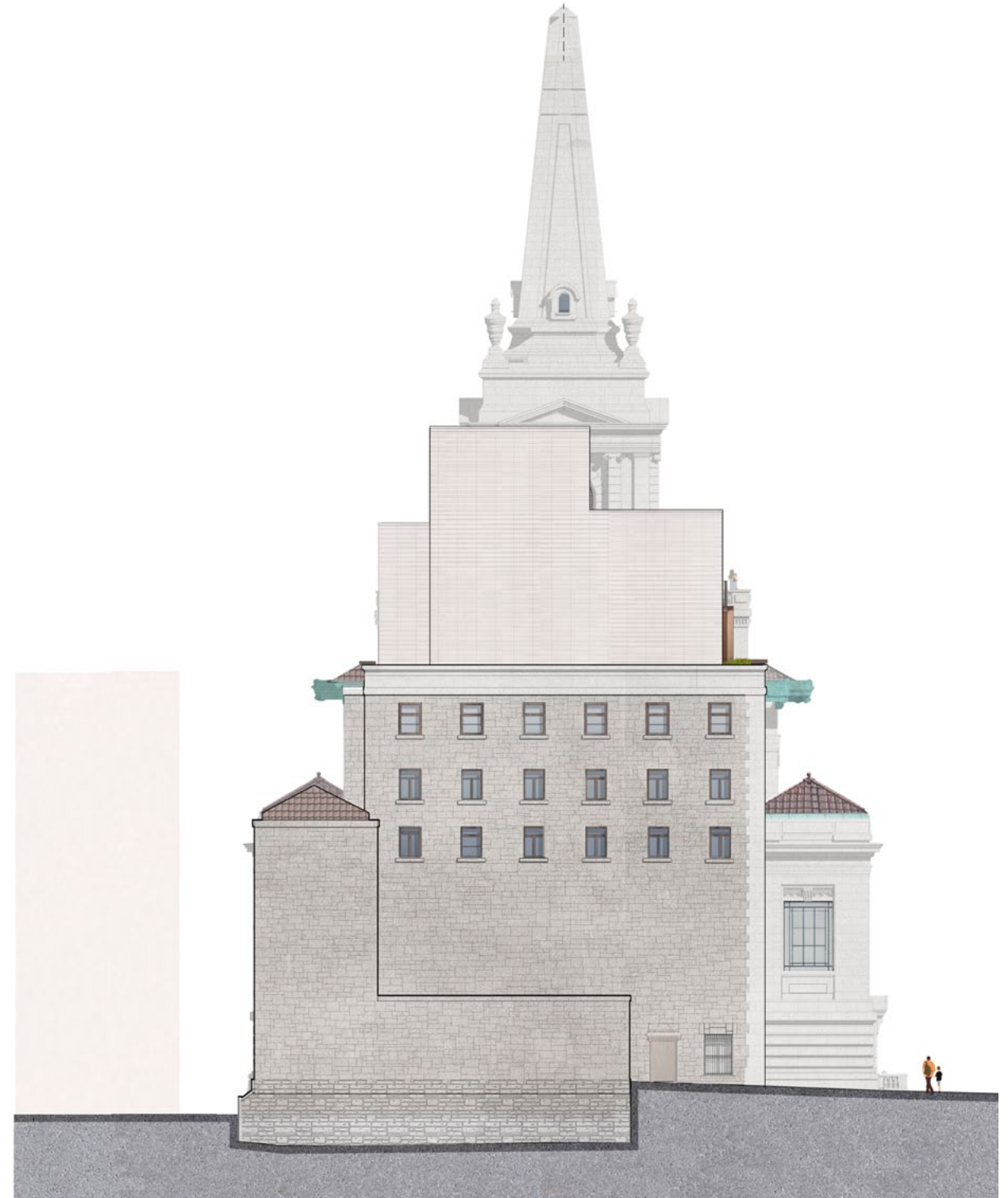
PROPOSED

## East Elevation





EXISTING



PROPOSED

West Elevation





EXISTING



PROPOSED

North Elevation





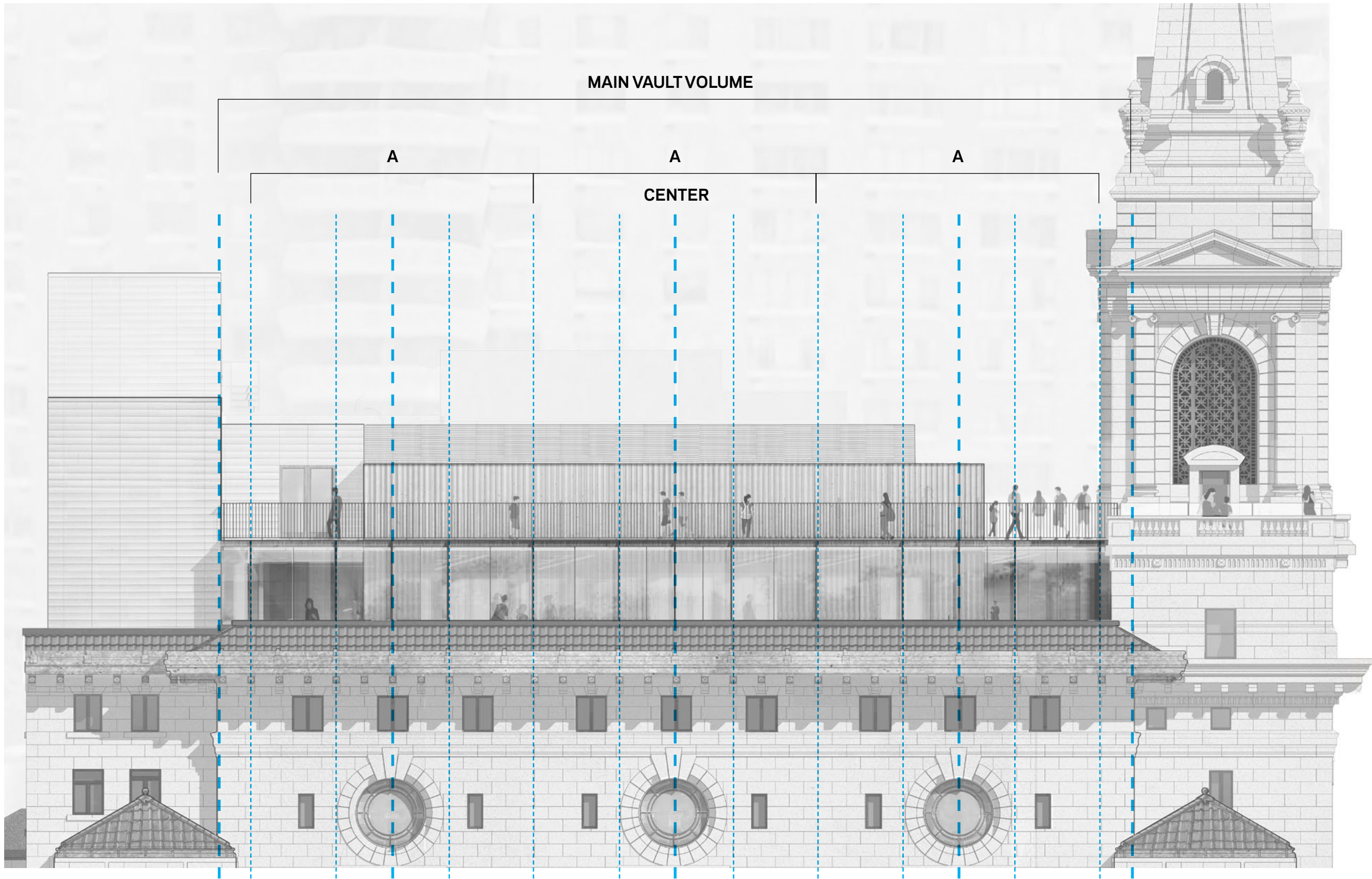
HISTORIC



PROPOSED

North Elevation





MAIN VAULT VOLUME

A

A

A

CENTER

UPPER  
BULKHEAD

LOWER  
BULKHEAD

ROOF

COMMUNITY  
TERRACE

6TH FLOOR. / LOGGIA

South Elevation





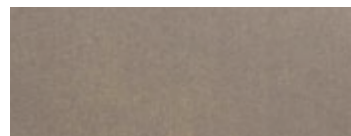
\_\_\_\_\_ BULKHEAD

\_\_\_\_\_ UPPER ROOF

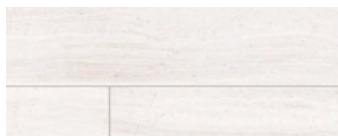
\_\_\_\_\_ LOWER ROOF

\_\_\_\_\_ COMMUNITY TERRACE

\_\_\_\_\_ 6TH FLOOR. / LOGGIA



Oxidized Bronze & Glass  
Facade



Terracotta Rainscreen



Terracotta Baguette  
Mechanical Screen



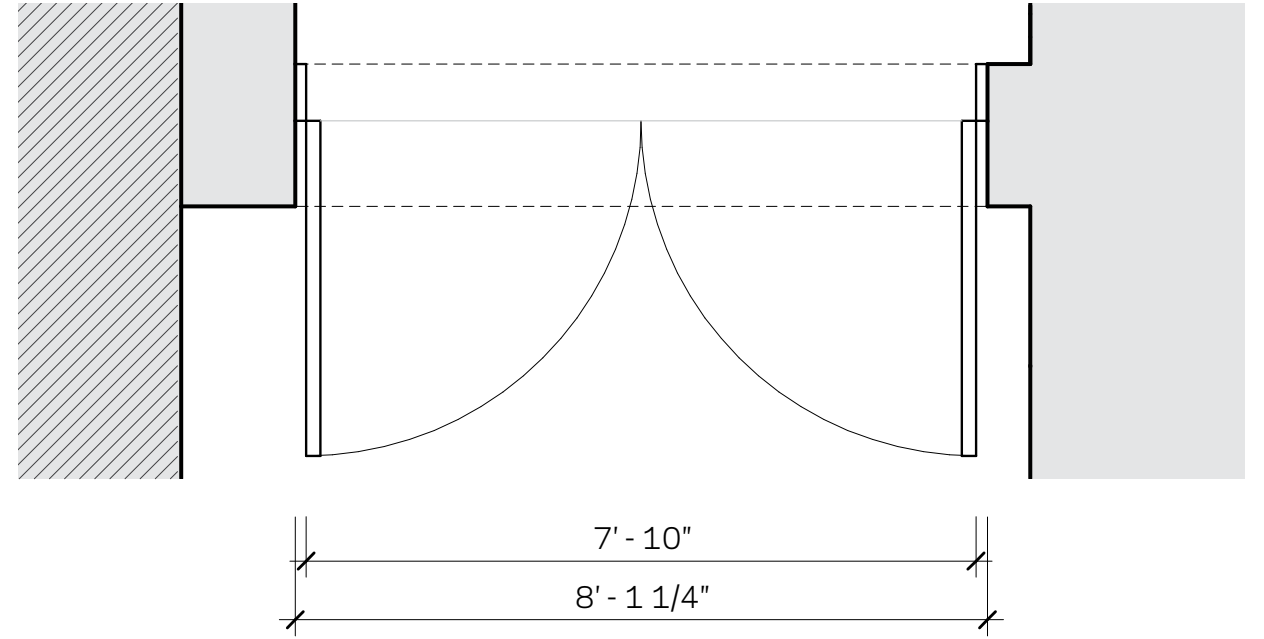
Vertical Textured  
Terracotta Rainscreen

## South Elevation





**EXISTING**

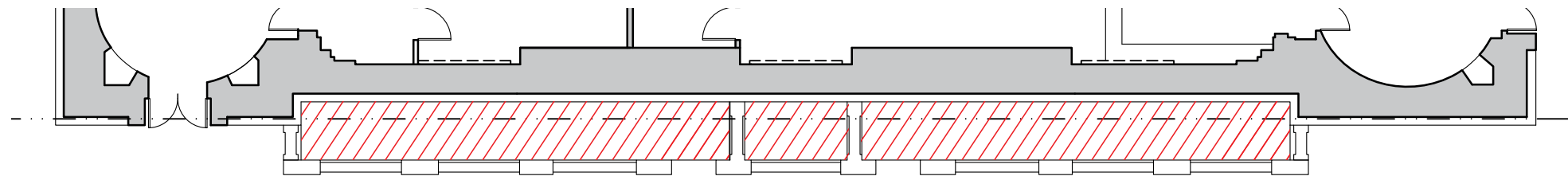


**PROPOSED**

## Garage Door



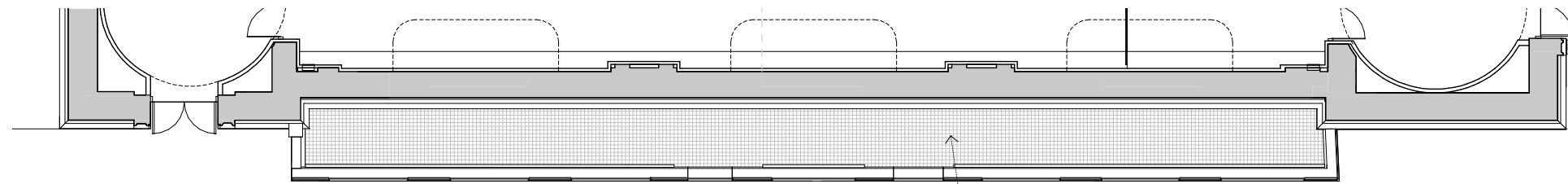
EXISTING



96TH STREET

CENTRAL PARK WEST

PROPOSED



New Metal Grating  
 New Balustrade Infill To Match Existing



### Areaway



- Lighting should encourage engagement and exploration.
- Exterior lighting should acknowledge new use of historic building.
- Lighting will respect the residential neighborhood context with minimal light spill and low glare luminaires.



*New York Historical Society*

## Facade Lighting Goals





*glow from interior  
to highlight lantern  
behind reconstructed  
lattice*

*low level soft light on  
terrace*

*subtle light from interior  
showcasing activity of  
community center*

*glow from interior to  
accentuate historic  
round windows*

*light from interior  
promoting new activity  
within*

*soft light at entries to  
welcome visitors*



SOUTH ELEVATION

EAST ELEVATION





*glow from interior  
to highlight lantern  
behind reconstructed  
lattice*

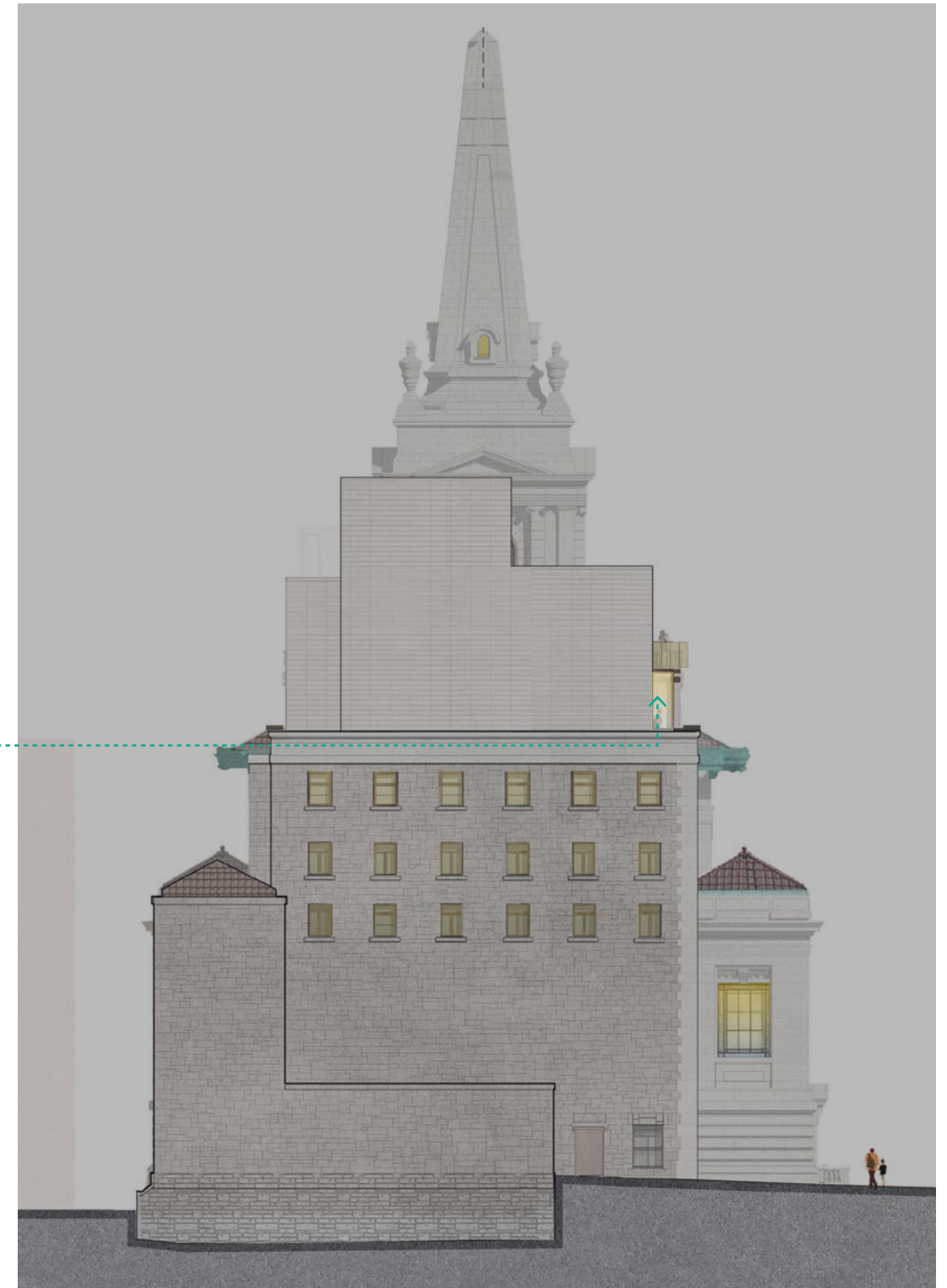
*low level soft light on  
terrace*

*subtle light from interior  
showcasing activity of  
community center*

*glow from interior to  
accentuate historic  
round windows*

*light from interior  
promoting new activity  
within*

NORTH ELEVATION



WEST ELEVATION



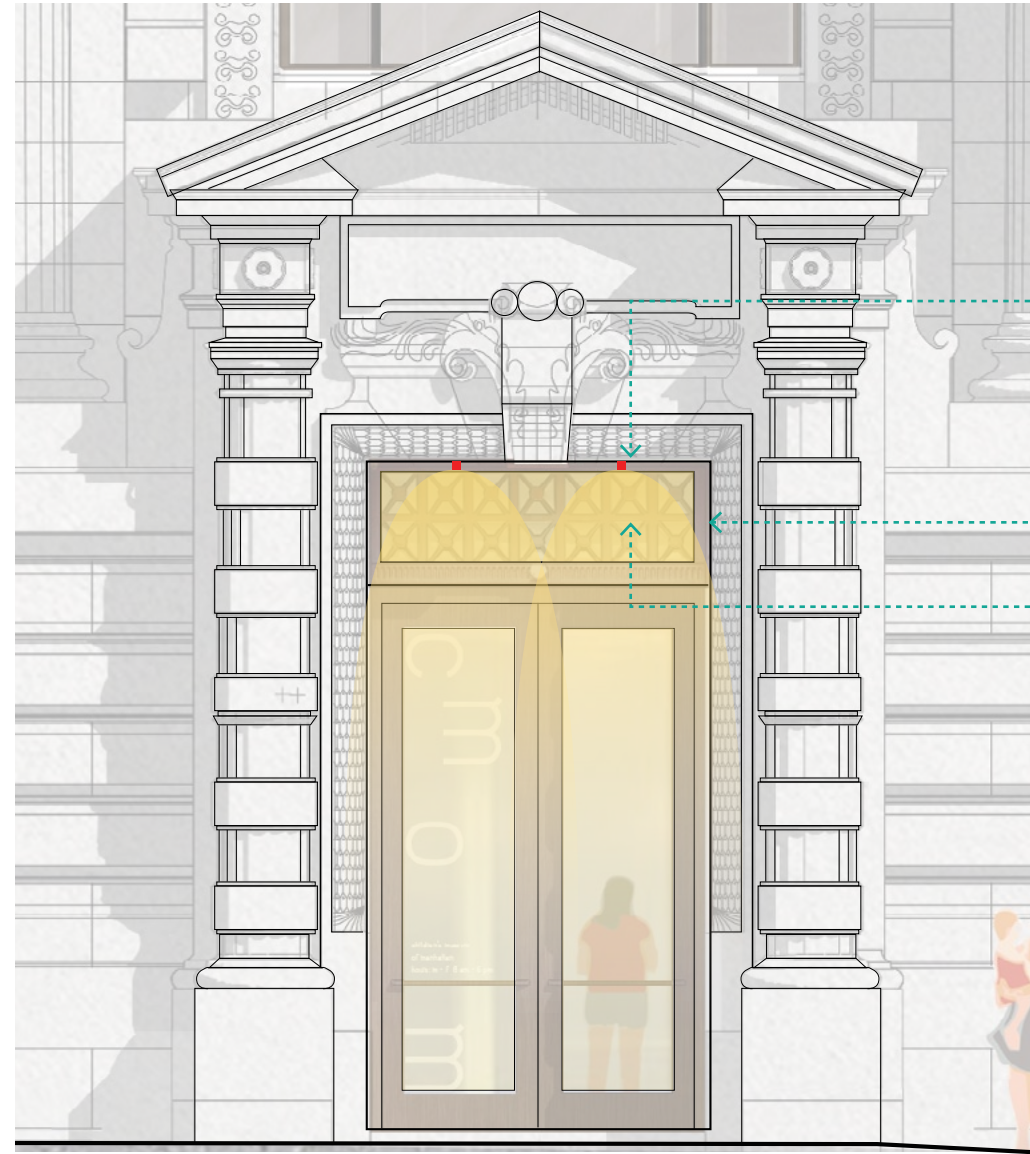
EXISTING CONDITION



remove existing fixtures

remove existing j-box and conduit

PROPOSED CONDITION

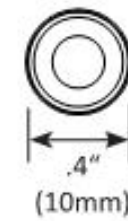


no fixtures to be installed in existing stone

glow from interior architectural lighting

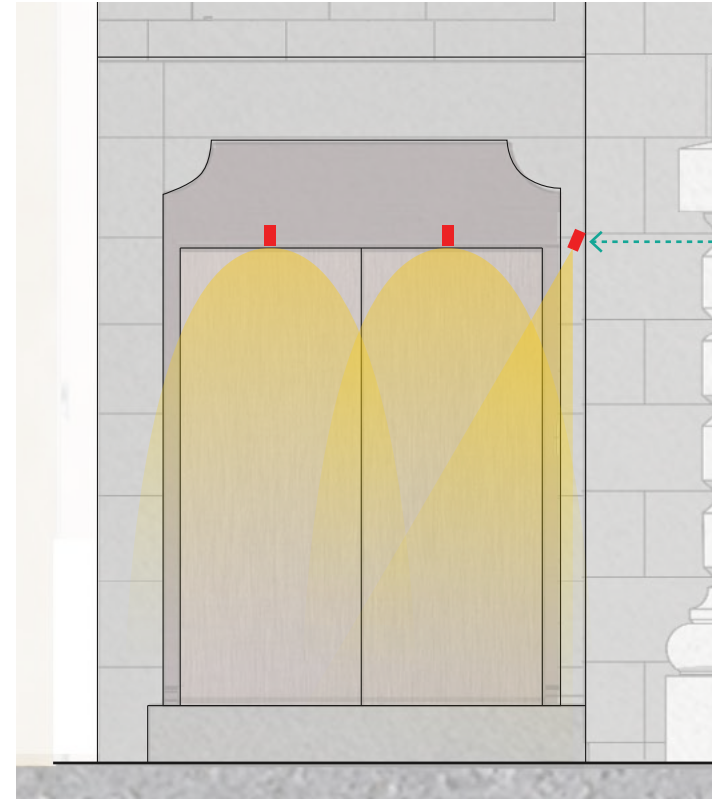
small fixture to be integrated into new door frame

MICRO DOWNLIGHT





replace with new fixture



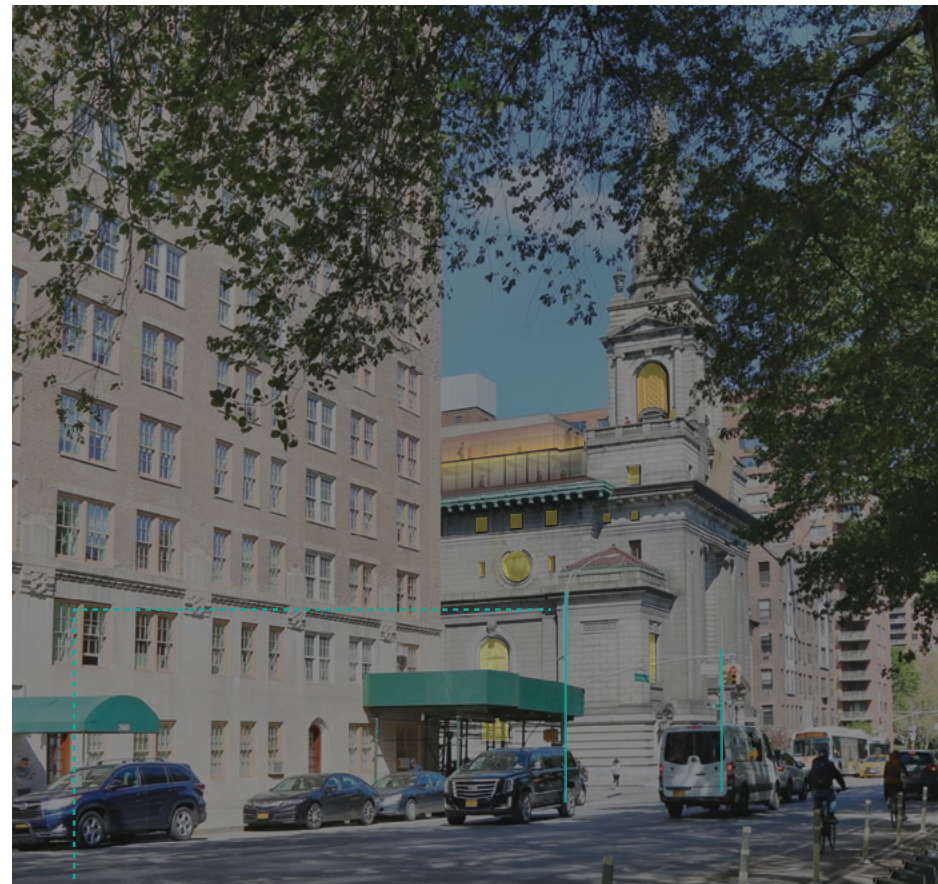
small adjustable fixtures to be mounted on vertical surface to floodlight garage area without creating scallops on the door

SMALLADJUSTABLEFLOODLIGHT





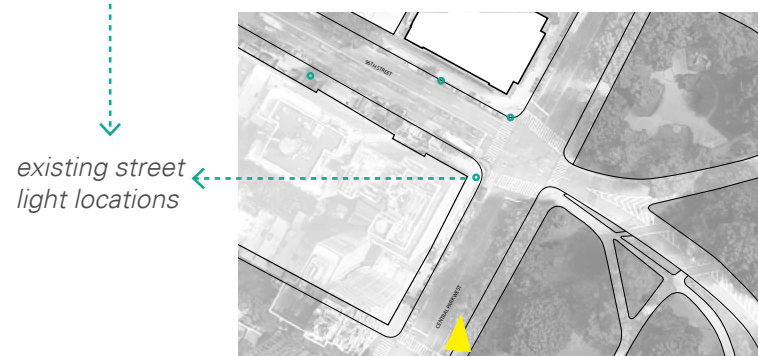
VIEW 1 FROM CENTRAL PARK WEST (SOUTH)



VIEW 2 FROM CENTRAL PARK WEST (SOUTH)



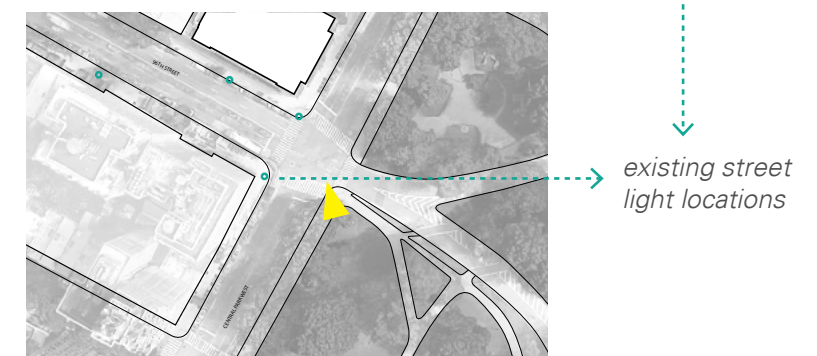
VIEW 3 FROM CENTRAL PARK WEST (SOUTH)



existing street light locations



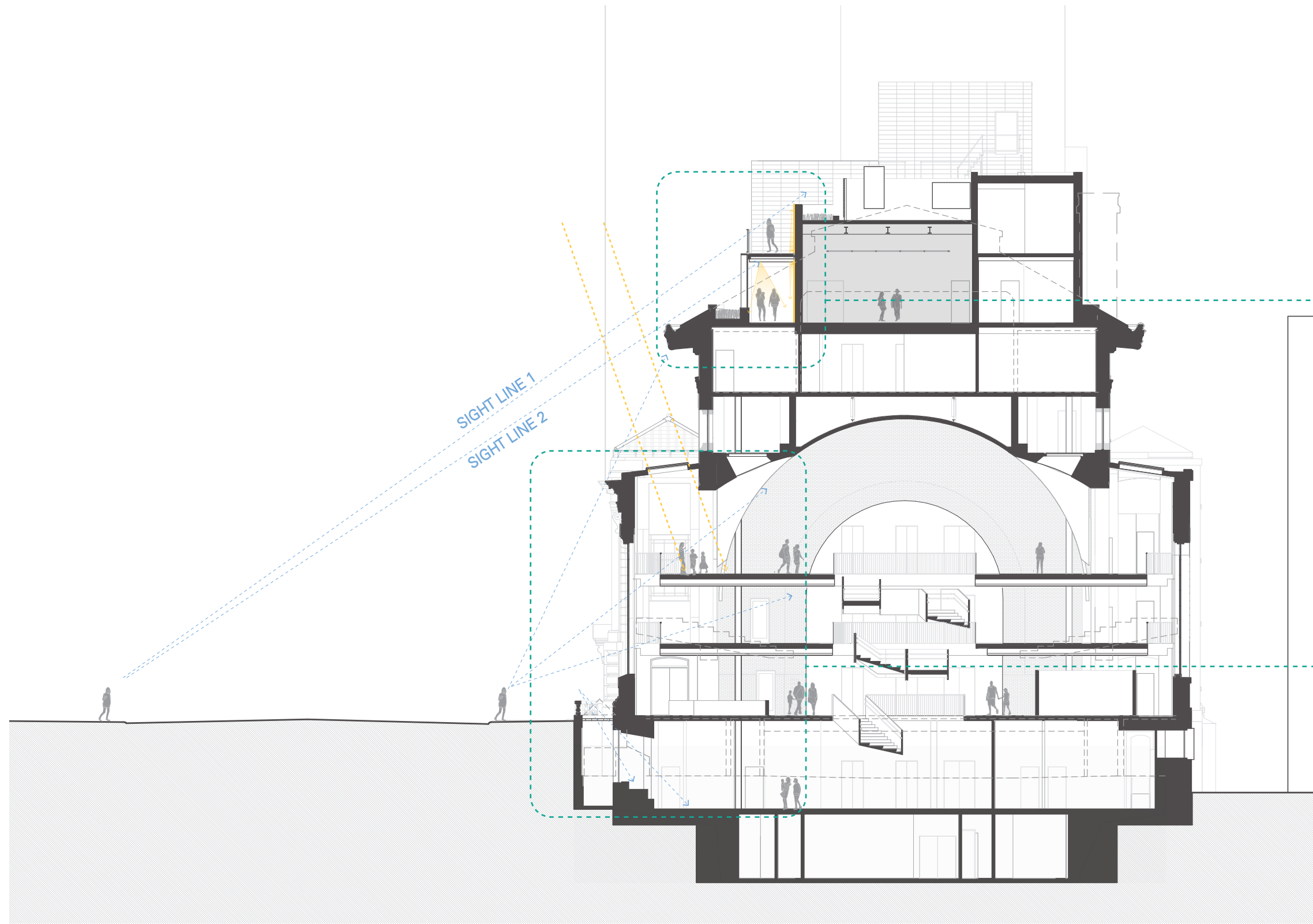
existing street light locations



existing street light locations

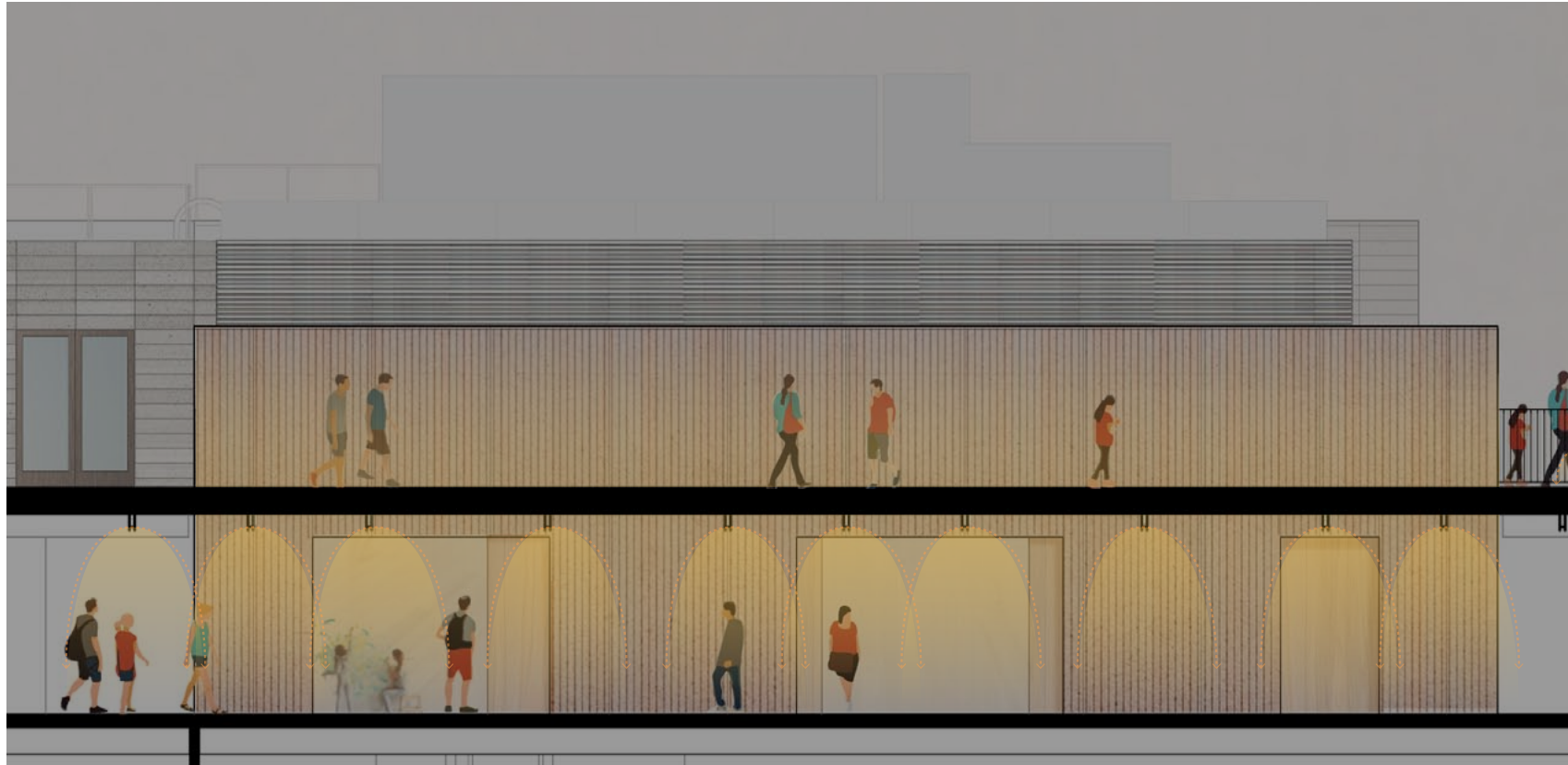
ALL ARCHITECTURAL LIGHTING WILL BE PART OF THE BUILDING SYSTEM WHICH WILL BE ON A TIMECLOCK AND TURNED OFF AT 11PM. LIGHTING WILL ONLY BE ON DURING OPERATIONAL HOURS WITH POTENTIAL EXTENDED HOURS DURING THE SUMMER AND FALL FOR EVENTS.



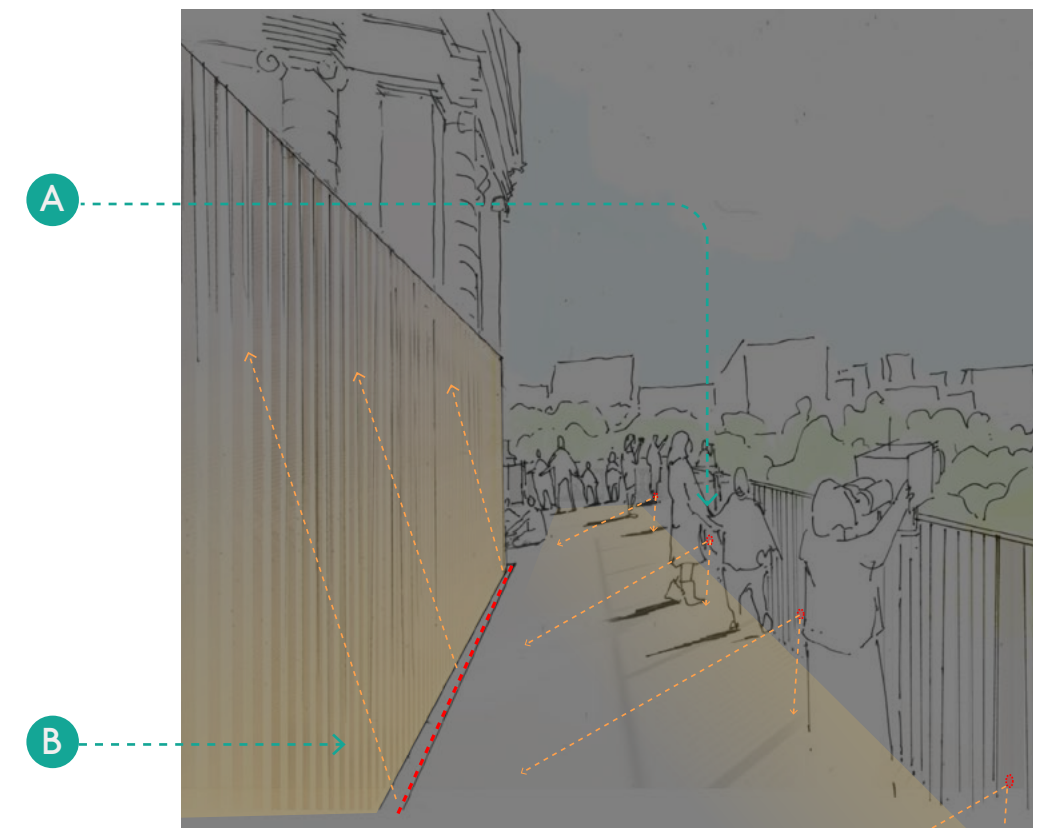


*Loggia and Terrace Lighting;  
All lighting to face inwards so  
no visible fixtures can be seen  
from the exterior*





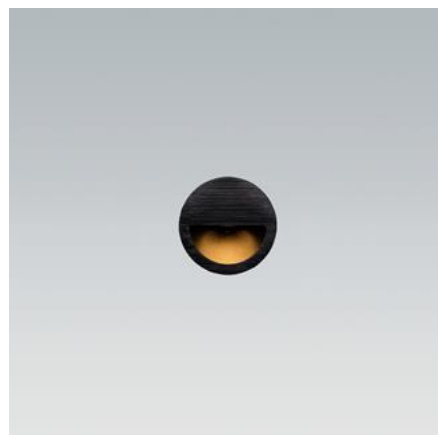
ELEVATION



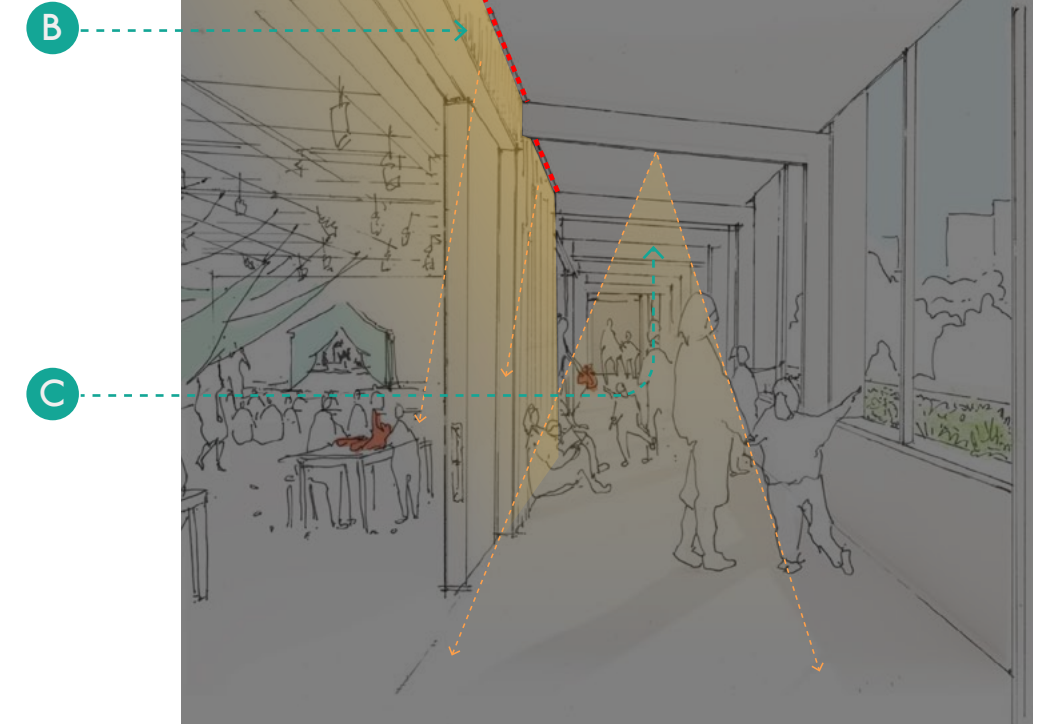
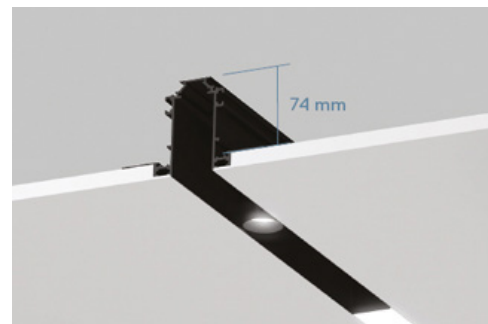
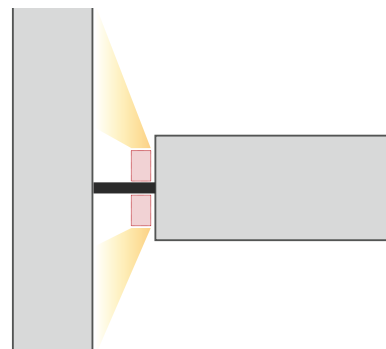
**A** SMALL LED RAIL LIGHT FOR SUFFICIENT LIGHTING FOR PUBLIC ASSEMBLY (MIN 5FC )

**B** INDIRECT/DIRECT LINEAR LIGHT AT SKYLIGHT

**C** LED DOWNLIGHT INTEGRATED INTO BEAM



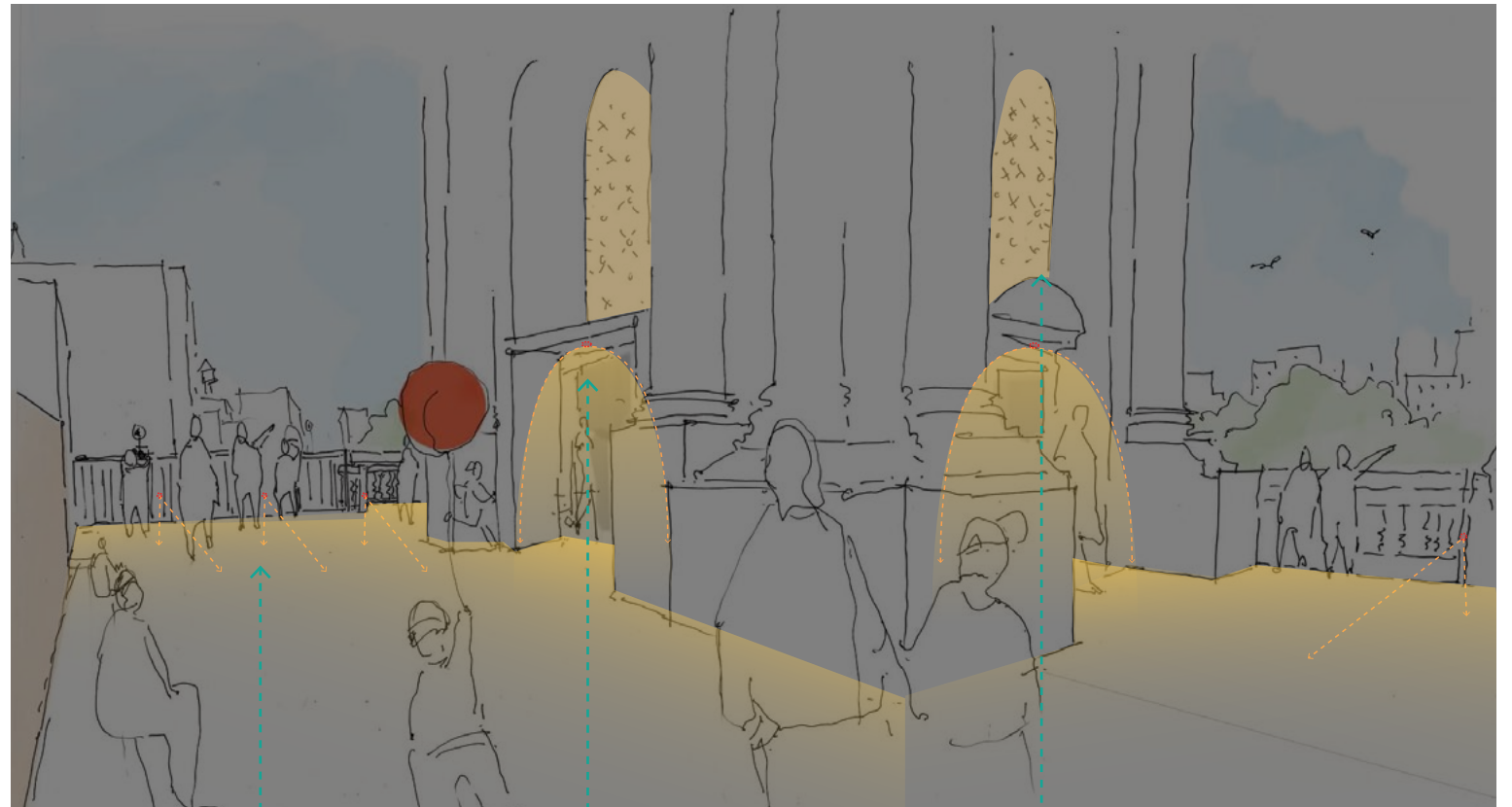
(1.5" DIAMETER)







ELEVATION



A

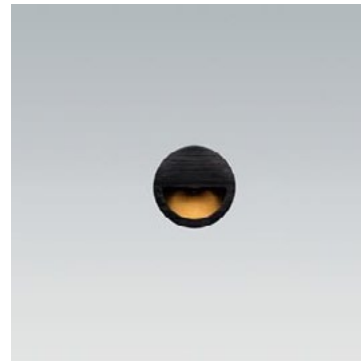
B

C

LUMINOUS FIXTURES FOR CREATING GENERAL GLOW FROM WITHIN

A SMALL LED RAIL LIGHT FOR SUFFICIENT LIGHTING FOR PUBLIC ASSEMBLY (MIN 5FC)

B MICRODOWNLIGHT FOR SUFFICIENT LIGHTING FOR PUBLIC ASSEMBLY (MIN 5FC)



(1.5" DIAMETER)



(0.4" DIAMETER)





## Historic & Proposed Signage





EXISTING



PROPOSED



Site Plan

### View 3 - Historic & Proposed Signage