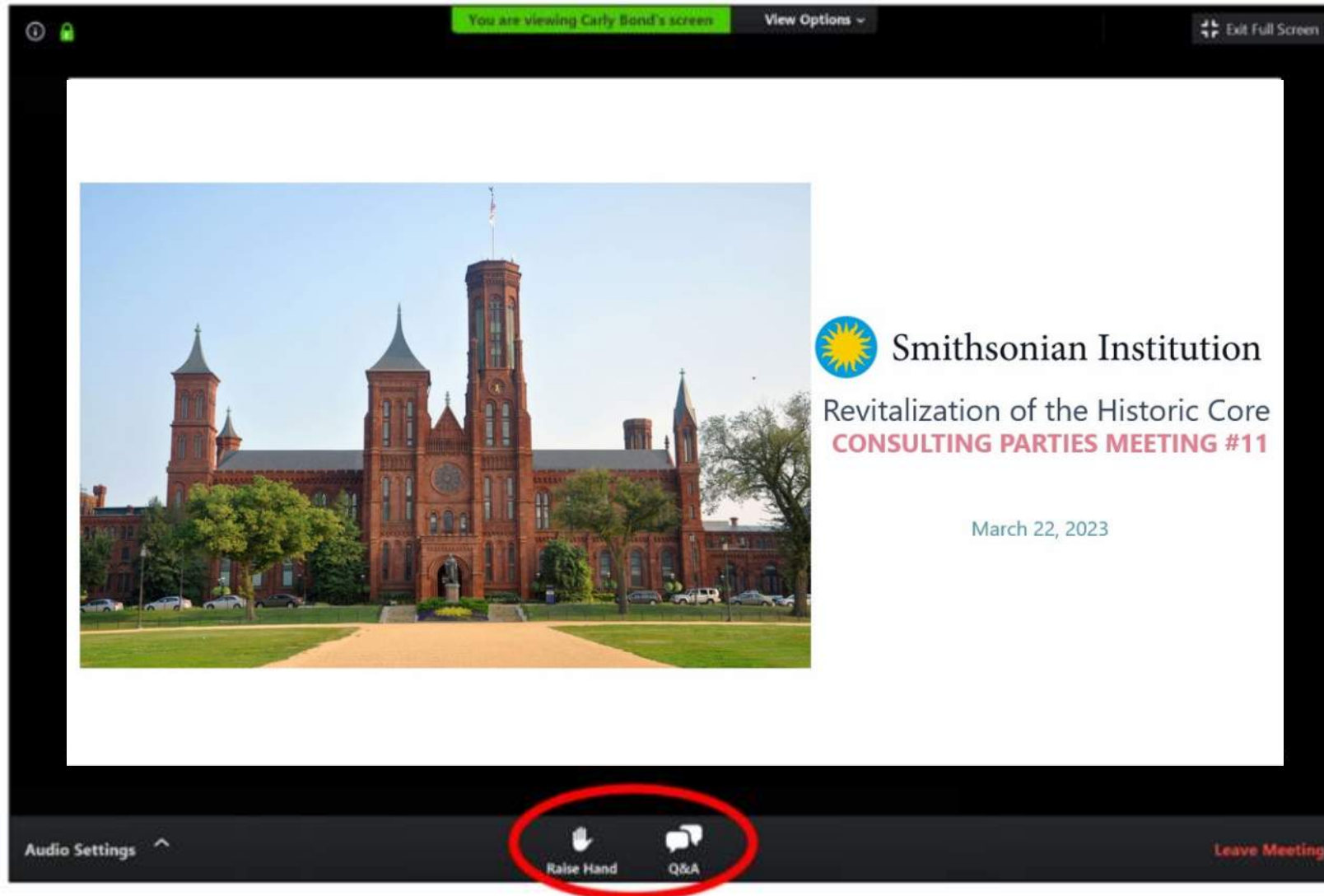


# Welcome!

The meeting will begin momentarily.



The image shows a Zoom webinar interface. At the top, there is a green status bar that says "You are viewing Carly Bond's screen" and a "View Options" dropdown menu. On the right side of the top bar, there is an "Exit Full Screen" button. The main content area displays a slide with a photograph of the Smithsonian Institution building on the left. To the right of the photo, the text reads: "Smithsonian Institution" with the logo, "Revitalization of the Historic Core" in black, and "CONSULTING PARTIES MEETING #11" in red. Below this, the date "March 22, 2023" is displayed. At the bottom of the interface, there is a black bar with "Audio Settings" on the left, a "Leave Meeting" button on the right, and two icons in the center: "Raise Hand" and "Q&A". These two icons are circled in red.

## How to Use Zoom Webinar:

- Zoom webinar will not permit access to your camera.
- Please submit comments/questions in writing through the Q&A function.
- Written comments/questions can be submitted at any time and will be answered or discussed at designated points during the meeting by the panelists.
- Click "Raise Hand" if you would like to speak your comments/questions at designated points with the panelists. A moderator will grant access to your device's microphone.



Smithsonian Institution

Revitalization of the Historic Core  
**CONSULTING PARTIES MEETING #11**

March 22, 2023

# PANEL OF SPEAKERS

## MODERATOR

**Carly Bond**, Historic Preservation Specialist

## PRESENTERS / PANELISTS

**Brenda Sanchez**, FAIA, Sr. Design Manager

**Christopher Lethbridge**, Architect/Program Manager

**Beth Ziebarth**, Director, Accessibility Program

**Lauren Brandes**, RLA, ASLA, Smithsonian Gardens

**Matthew Chalifoux**, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC

**Anthony Bochicchio**, AIA, Project Manager, EYP-Loring, LLC

**Faye Harwell**, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)

# AGENDA

- **Updates**
- **Review Phase 2 Items**
  - **Landscape – South Entry Ramp, Railings, Paving**
  - **South Tower Elevator Interior Effects**
  - **Roof Mechanical Elements**
    - **North Entry Hyphen - Louvered Penthouses**
  - **Lightning Protection**
- **Next Steps**

## How to Use Zoom Webinar:

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- Please submit comments/questions in writing through the Q&A function.
- Written comments/questions can be submitted at any time and will be answered or discussed at designated points during the meeting by the panelists.
- Click "Raise Hand" if you would like to speak your comments/questions at designated points with the panelists. A moderator will grant access to your device's microphone.

# RoHC Revitalize Castle – Project Schedule

Milestone	Date
Installation of Vibration Monitors	October 2022
Castle Closed to the Public	February 1, 2023
Programmatic Agreement Executed	April 2023 (Expected)
Castle Construction Start	May 2023
Phase 2 Consultation Continues	2023
Portions of Castle Reopen for 2026 Activities	Spring 2026
Castle Façade and Public Access Area Construction Resumes	Fall 2026



# Programmatic Agreement - Phased Section 106 Consultation

Programmatic Agreement oversees both Phases

- Phase 1 construction will result in adverse effects on the Castle and the National Mall Historic District
- Phase 2 has potential to result in adverse effects

## Phase 1 (Baseline Project)

- Introduction of New Areaways and Window Wells (Locations and Dimensions)
- Installation of Seismic Control Joint Around the Castle Perimeter (Location and Width)
- Extent of Excavation Adjacent to Castle - SIB Extension (B1 Level), B2 Level Cistern
- Excavation Beneath the Castle - Base Isolation, Lowering of the Basement Level, Mechanical Distribution Level, Future Quadrangle Building B2 Connection
- Creation of Alternate Pedestrian Routes for Circulation Around the Castle during construction
- Cumulative Effects of Phase 1 Activities

## Phase 2 (Everything Else! - Abridged on Slide)

- Landscape Planting Plan – Perimeter Security
- Roof Modifications
- Emergency Generator
- Alterations at the North and South Entrances to Improve Accessibility
- Installation of New East Wing 4<sup>th</sup> Floor Egress
- Replacement and Restoration of Windows
- Exterior Masonry Restoration
- New Basement Windows and Egress Doors
- Interior Effects (Windows, South Tower Elevators, New Basement Openings, Lowering Basement Floor)
- Cumulative Effects on Castle and National Mall Historic District



# Programmatic Agreement

## Phase 2 Consultation

- Consulting Parties meetings will continue held the 4th Wednesday of each month
- No changes to communication, involvement of the public and Consulting Parties
- Project webpage maintained and in-use
- Site visits for sample and mock-up reviews
- *Criteria of adverse effect* – Development of alternatives that avoid or minimize adverse effects
- *Assessment of Effects on Historic Resources* report will be revised in consultation – Updates to preliminary effect determination for Phase 2

PROGRAMMATIC AGREEMENT  
AMONG  
THE SMITHSONIAN INSTITUTION  
THE DISTRICT OF COLUMBIA STATE HISTORIC PRESERVATION OFFICER  
THE NATIONAL CAPITAL PLANNING COMMISSION  
THE NATIONAL PARK SERVICE  
AND  
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION  
REGARDING  
THE REVITALIZATION OF THE HISTORIC CORE REVITALIZE CASTLE PROJECT

This Programmatic Agreement (PA) is made as of this \_\_\_\_ day of \_\_\_\_\_, 2023, by and among the Smithsonian Institution (SI), the District of Columbia State Historic Preservation Officer (DC SHPO), the National Capital Planning Commission (NCPC), the National Park Service (NPS) and the Advisory Council on Historic Preservation (ACHP) (referred to collectively herein as the "Signatories" or individually as a "Signatory"), pursuant to Section 106 of the National Historic Preservation Act (NHPA), 54 U.S.C. § 306108, its implementing regulations 36 CFR Part 800 (Section 106), and 36 CFR § 800.14(b) to govern the implementation of the Revitalization of the Historic Core – Revitalize Castle (Project); and

**WHEREAS**, the Smithsonian Institution Building (Castle) is a Romanesque Revival or Norman Revival style building designed by James Renwick, Jr, completed in 1855; and

**WHEREAS**, the Castle is a National Historic Landmark (designated January 12, 1965), and is individually listed in the National Register of Historic Places and the DC Inventory of Historic Sites. The Castle is a contributing element of the National Mall Historic District listed in the National Register, and of the Smithsonian Quadrangle Historic District listed in the DC Inventory of Historic Sites; and

**WHEREAS**, the Castle's character defining features include, but are not limited to, a Red Seneca sandstone exterior; complex building massing characterized by a central block with similarly scaled wings and hierarchically arranged perimeter towers; historic interiors; and a unique setting within the National Mall with Jefferson Drive curving around north of the Castle within the greensward; and

**WHEREAS**, initial Section 106 compliance resulted in a 2018 Programmatic Agreement for the larger South Mall Campus Master Plan of which the Project is a subset. When the SI initiated Section 106 consultation with the DC SHPO on November 20, 2020, the Project consisted of the revitalization of the Castle and the Arts & Industries Building (AIB); replacement of mechanical, telecommunications, security, and life safety systems in both buildings; the construction of a multi-level below-grade Central Utility Plant to support the SI's South Mall Campus buildings; and the construction of below-grade support spaces to connect the Castle and the AIB to the Quadrangle Building loading facility; and

**WHEREAS**, the Area of Potential Effects for the Project was defined as the same established in the Programmatic Agreement for the South Mall Campus Master Plan; and

**WHEREAS**, at the third Consulting Parties meeting on December 14, 2021 (Exhibit A – List of Consulting Parties Meetings), an *Assessment of Effects on Historic Resources* (Exhibit F) report was reviewed, and the Project was preliminarily determined to potentially result in "adverse effects" on the Castle, AIB, and the National Mall; and

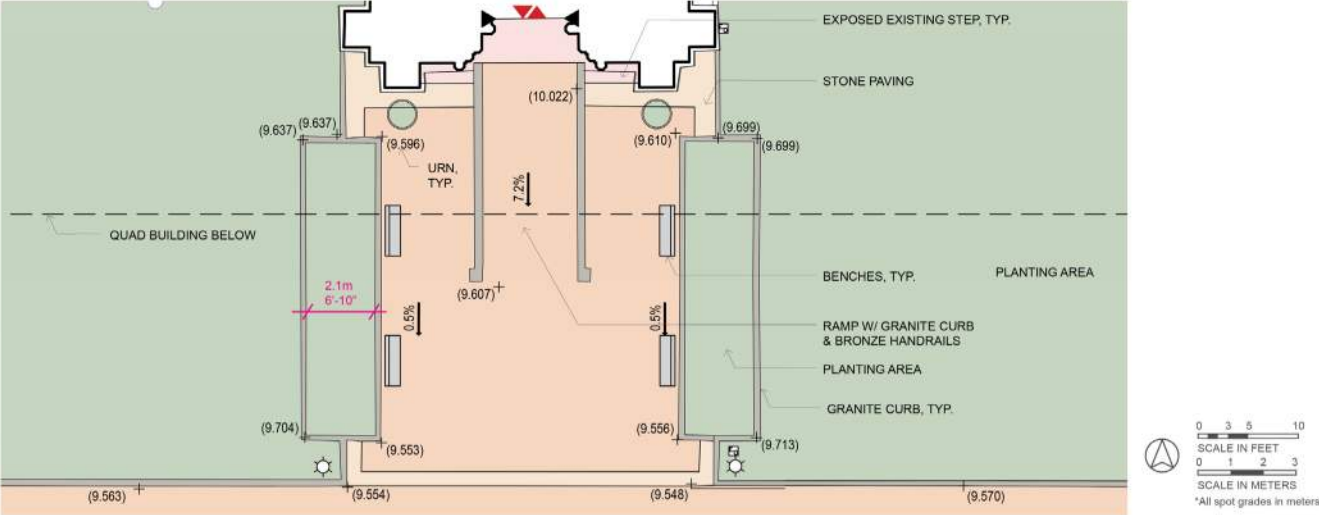
# **LANDSCAPE**

## SOUTH ENTRY RAMP, RAILINGS, PAVING



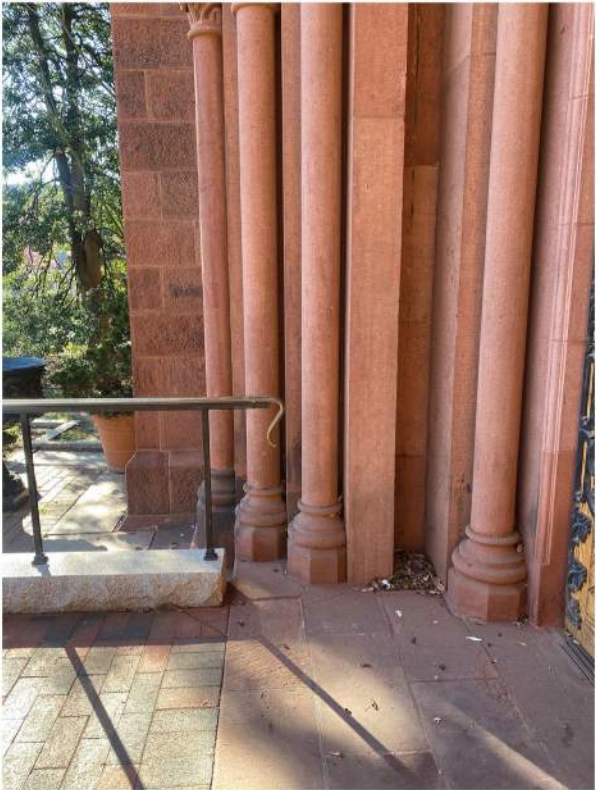
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP EXISTING CONDITIONS



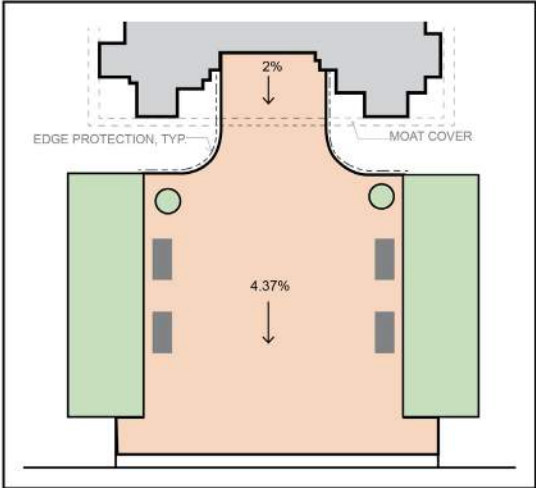
# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
EXISTING CONDITIONS

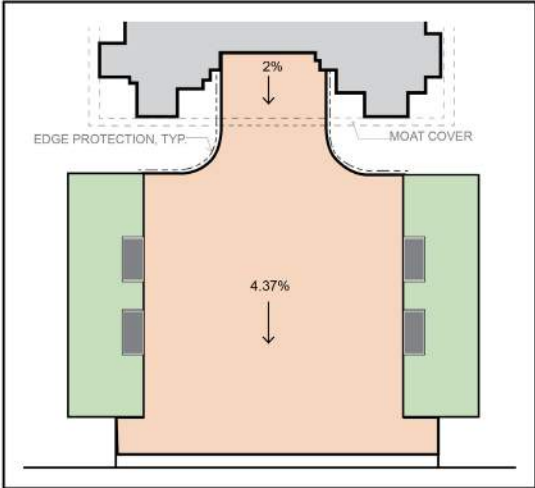


# SMITHSONIAN INSTITUTION BUILDING (SIB)

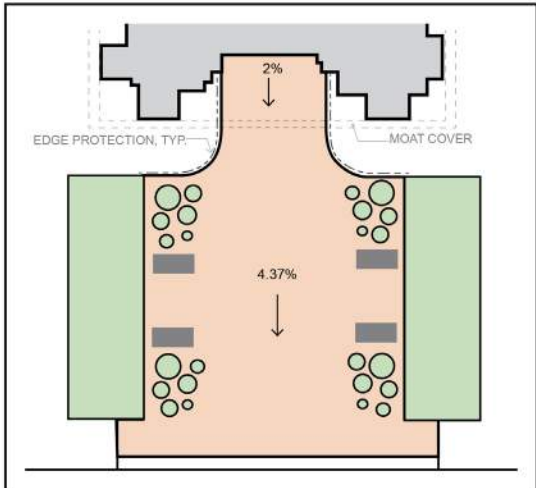
## LANDSCAPE | SOUTH ENTRY RAMP PROPOSED OPTIONS



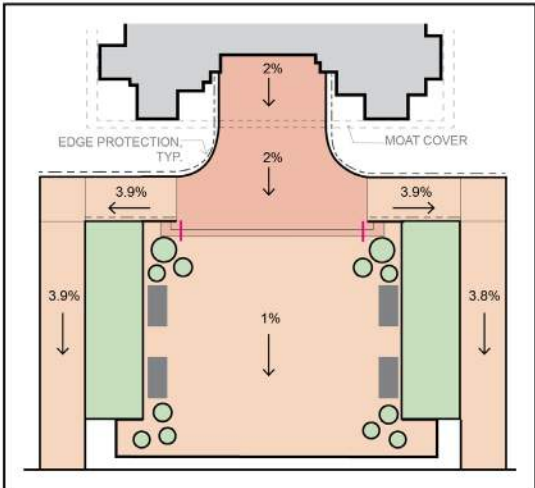
OPTION 1



OPTION 2



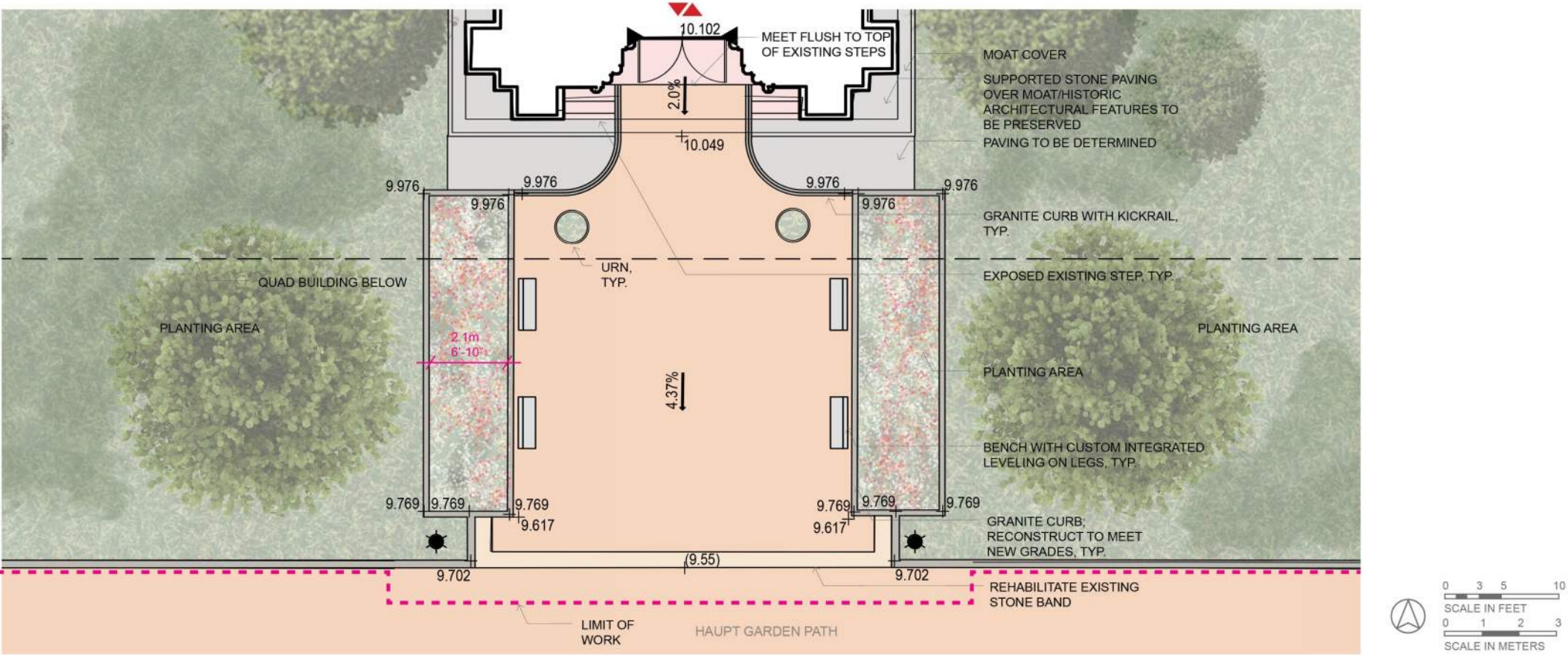
OPTION 3



OPTION 4

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP OPTION 1- PLAN



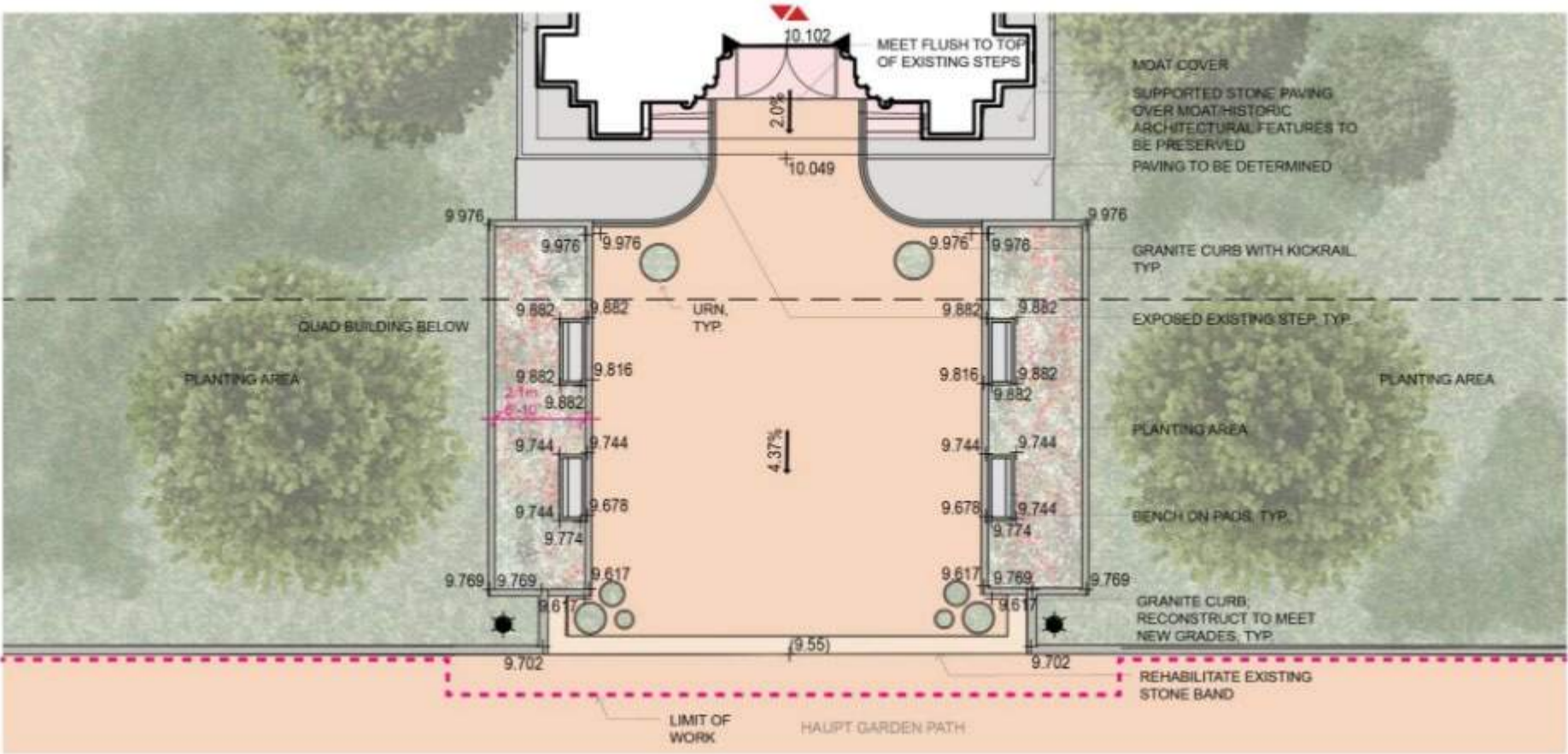
# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 1 - VISUALIZATIONS

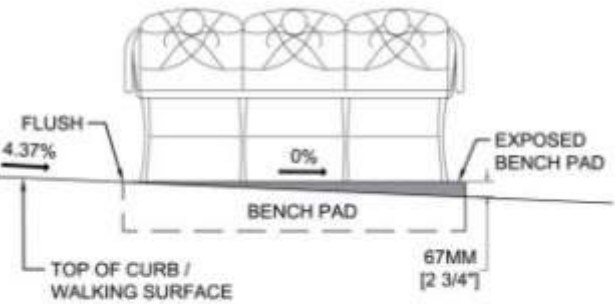


# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP OPTION 2- PLAN



SECTION AT BENCH PAD



ELEVATION AT BENCH PAD



# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 2- VISUALIZATION







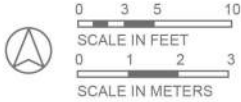
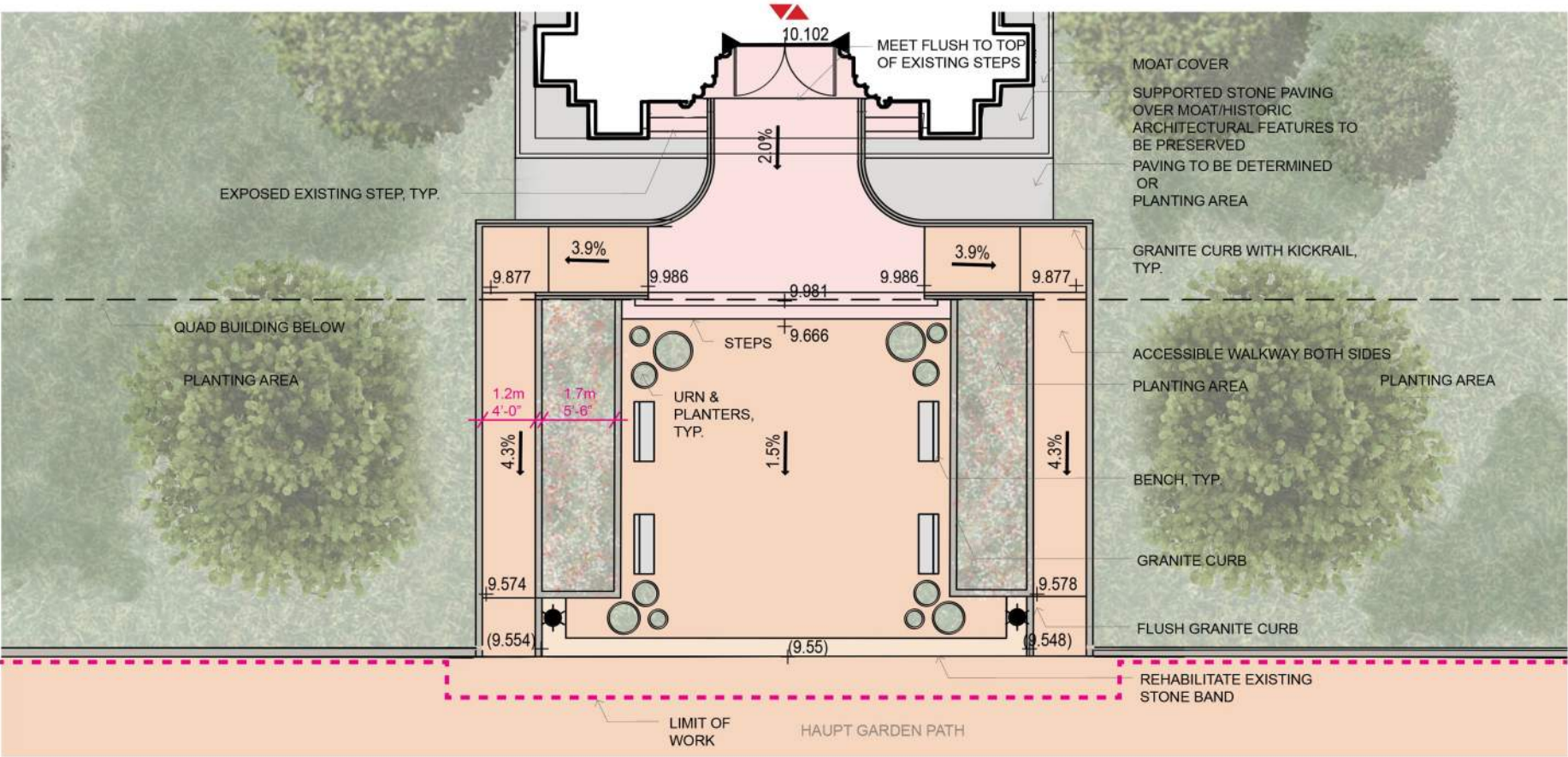
# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 3- VISUALIZATION



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP OPTION 4 - PLAN



# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 4 - VISUALIZATION



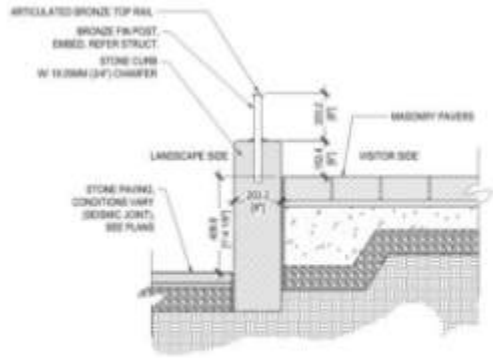
# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
KICK RAIL VOLUTE PRECEDENT

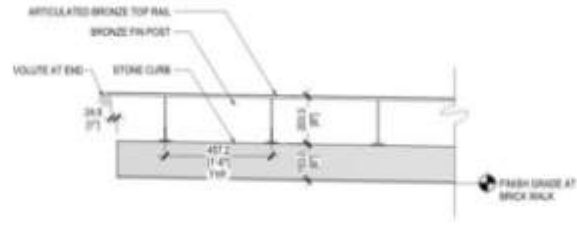


# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP KICK RAIL OPTIONS

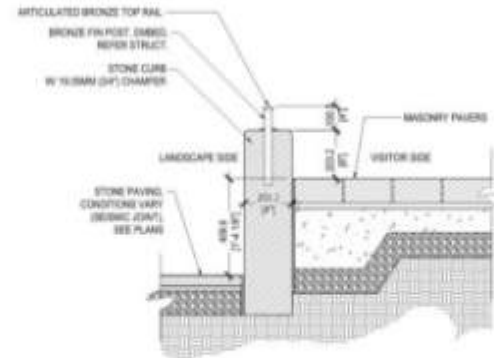


SECTION LOOKING NORTH

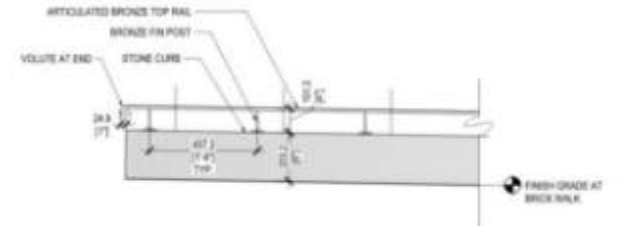


ELEVATION FROM VISITOR SIDE  
LOOKING EAST TOWARD RAIL

○ KICKRAIL AT SOUTH ENTRANCE OPTION 1  
1/8

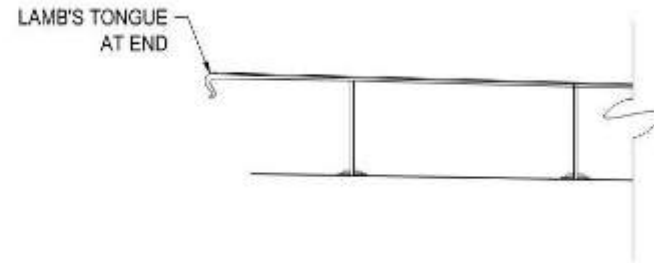
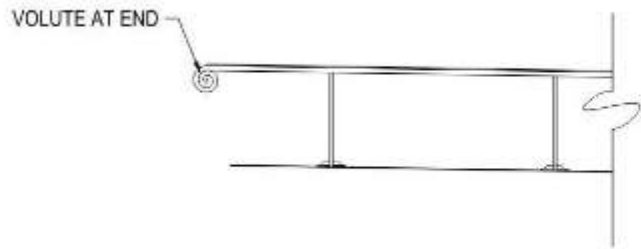


SECTION LOOKING NORTH



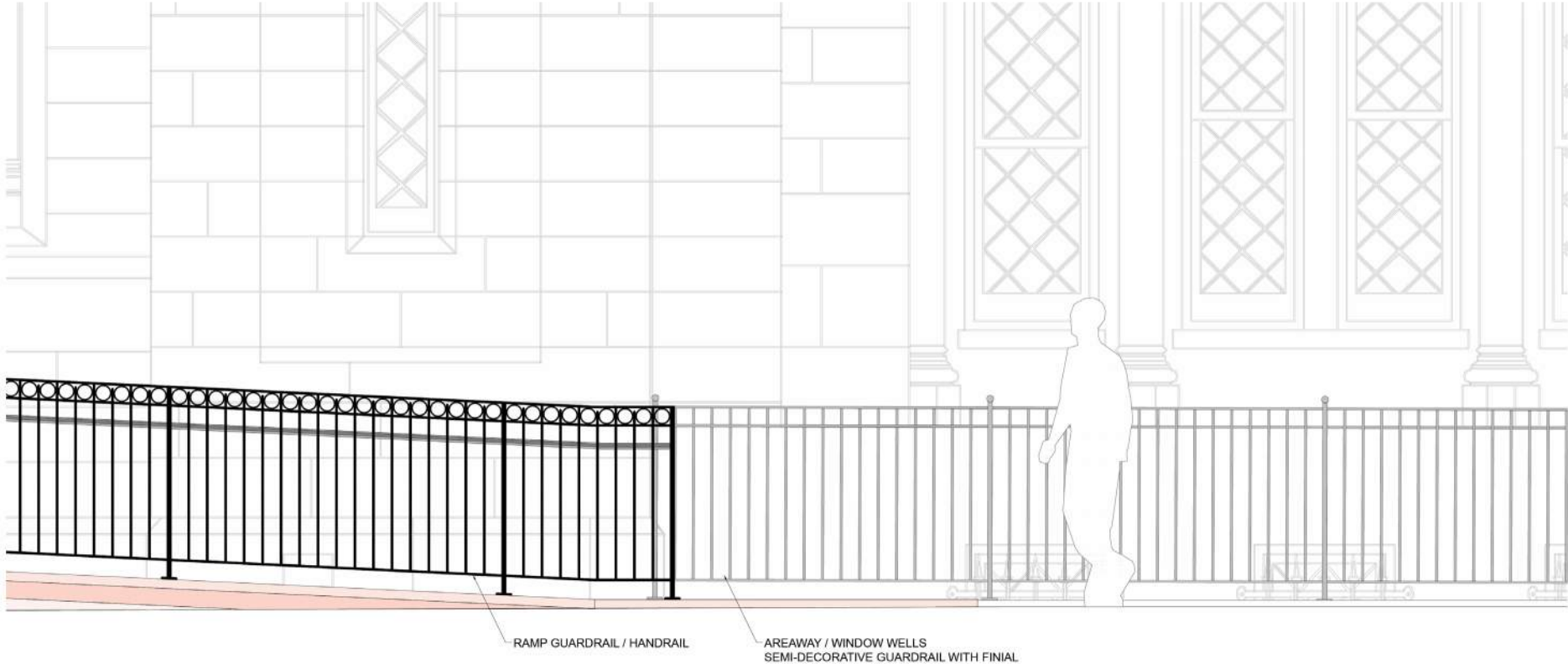
ELEVATION FROM VISITOR SIDE  
LOOKING EAST TOWARD RAIL

○ KICKRAIL AT SOUTH ENTRANCE OPTION 2  
1/8



# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | RAILING  
TYPICAL ELEVATION



# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | RAILING  
RAILING TYPE LOCATIONS

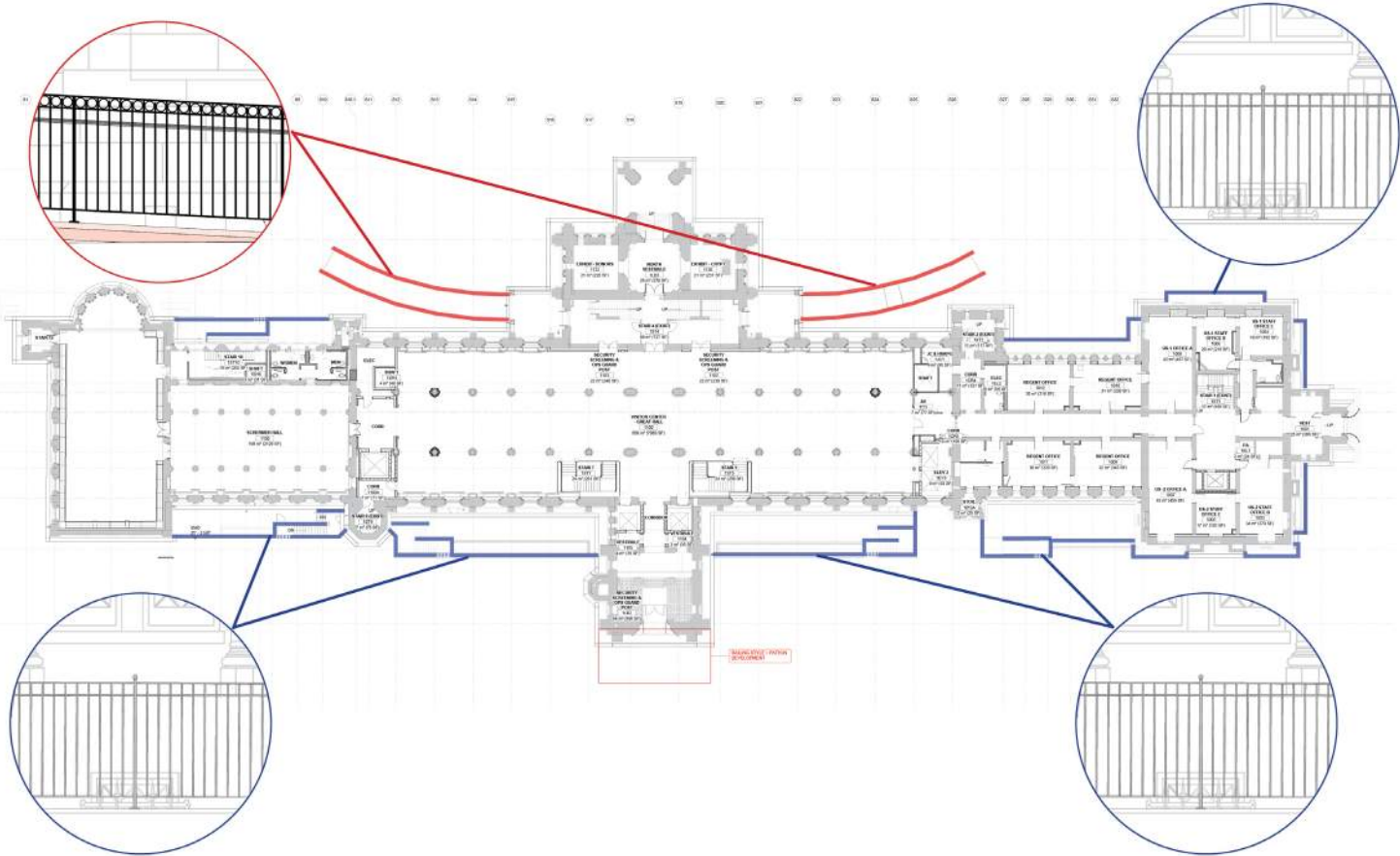
LEVEL 1



EXISTING SIB NORTH RAMP RAILING



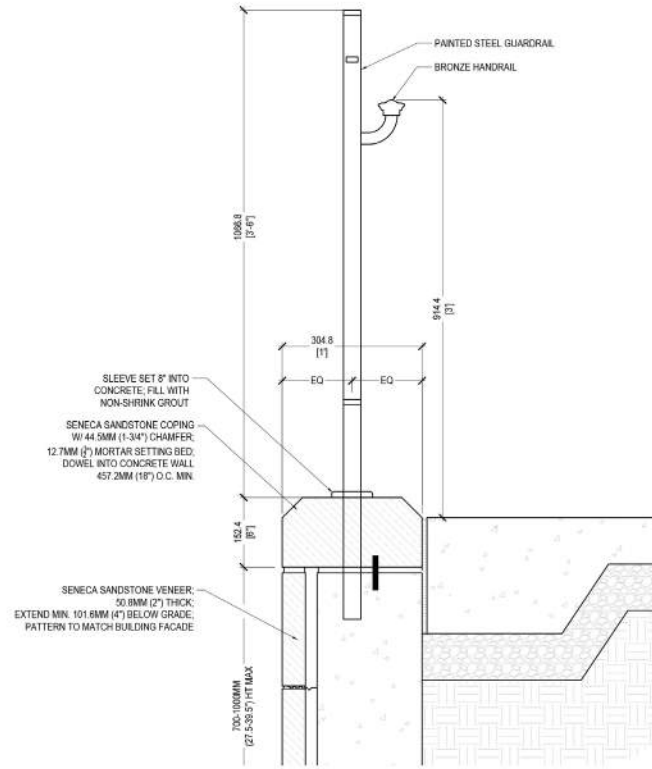
NW HAUPT GARDEN GATE



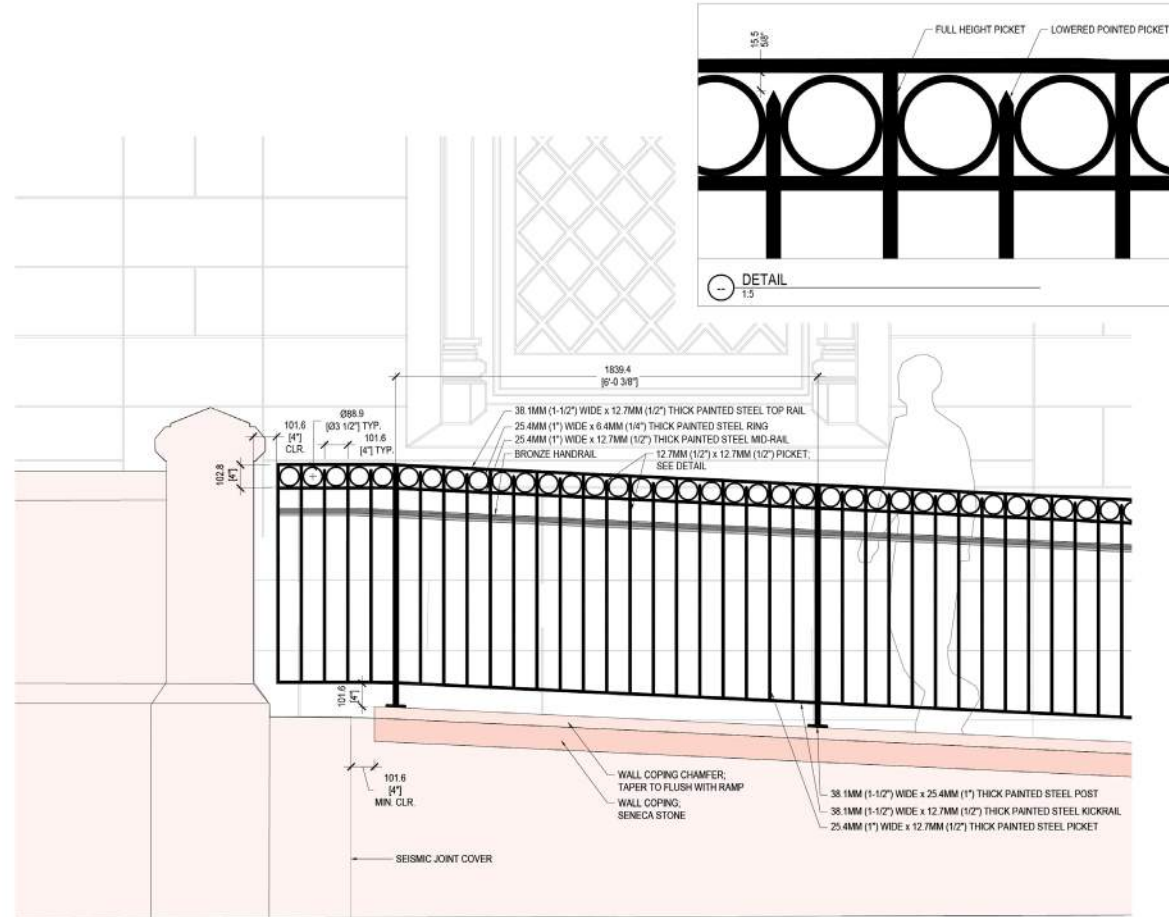
- GUARDRAIL #1 - DECORATIVE  
LOCATION: RAMPS AND PRIMARY ENTRIES
- GUARDRAIL #2 - SEMI-DECORATIVE  
LOCATION: AREWAYS AND WINDOW WELLS
- GUARDRAIL #2 - GATE

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | RAILING NORTH ENTRANCE RAMP



○ HANDRAIL/GUARDRAIL AT NORTH ENTRANCE  
1:10

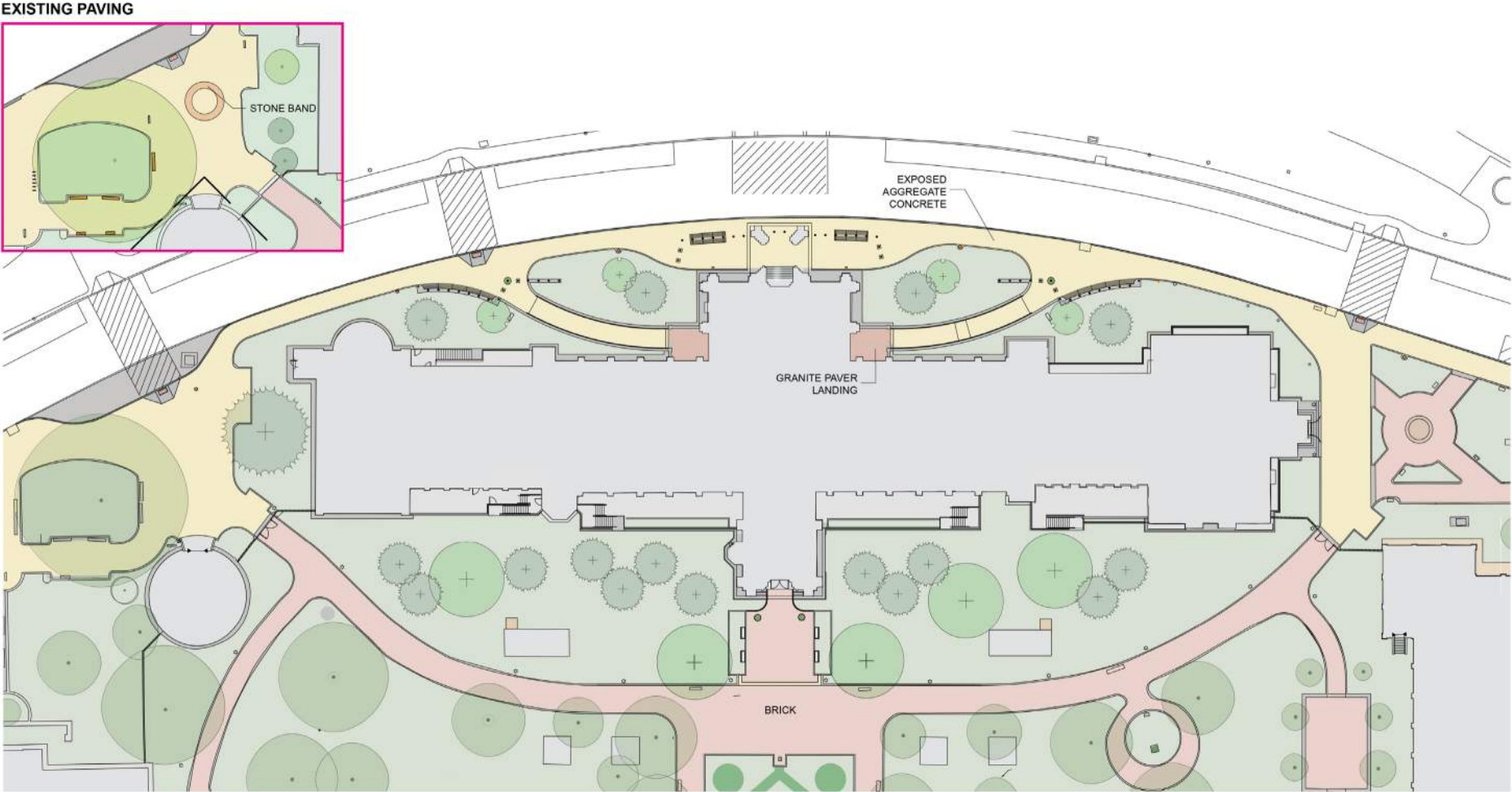


○ ELEVATION PART A @ RAMP  
1:10



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | PAVING PLAN



# Questions or Comments

## MODERATOR

**Carly Bond**, Historic Preservation Specialist

## PRESENTERS / PANELISTS

**Brenda Sanchez**, FAIA, Sr. Design Manager

**Christopher Lethbridge**, Architect/Program Manager

**Beth Ziebarth**, Director, Accessibility Program

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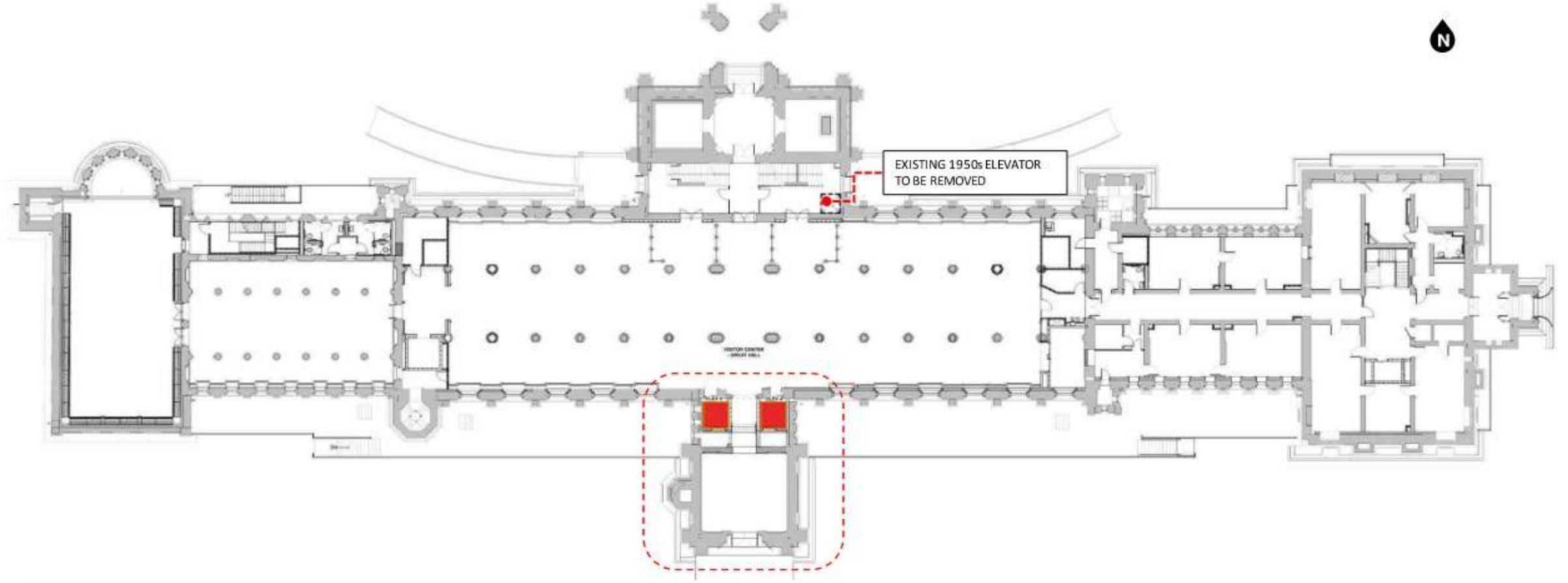
**Faye Harwell**, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)



# **SOUTH TOWER ELEVATOR INTERIOR EFFECTS**

# SMITHSONIAN INSTITUTION BUILDING (SIB)

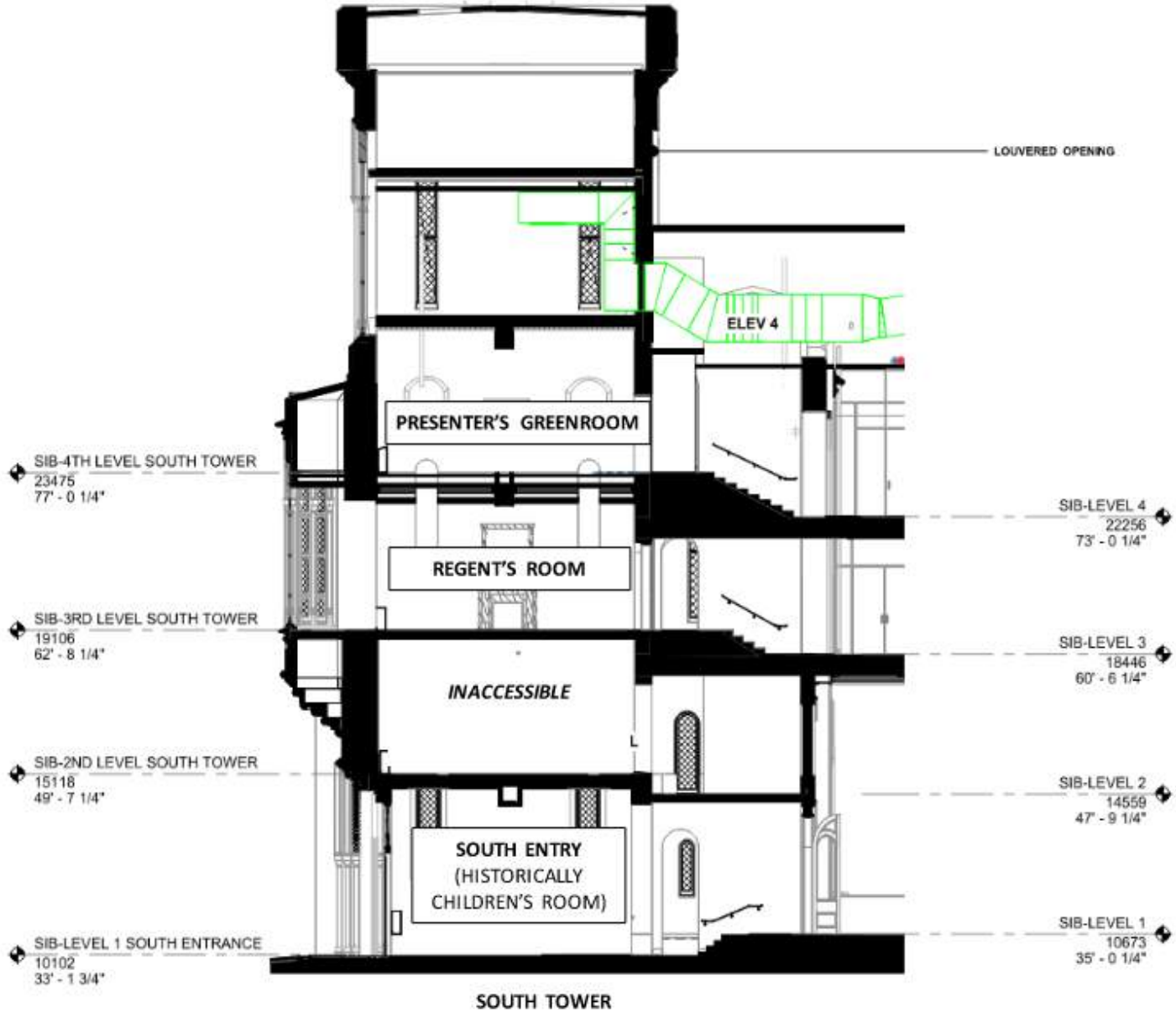
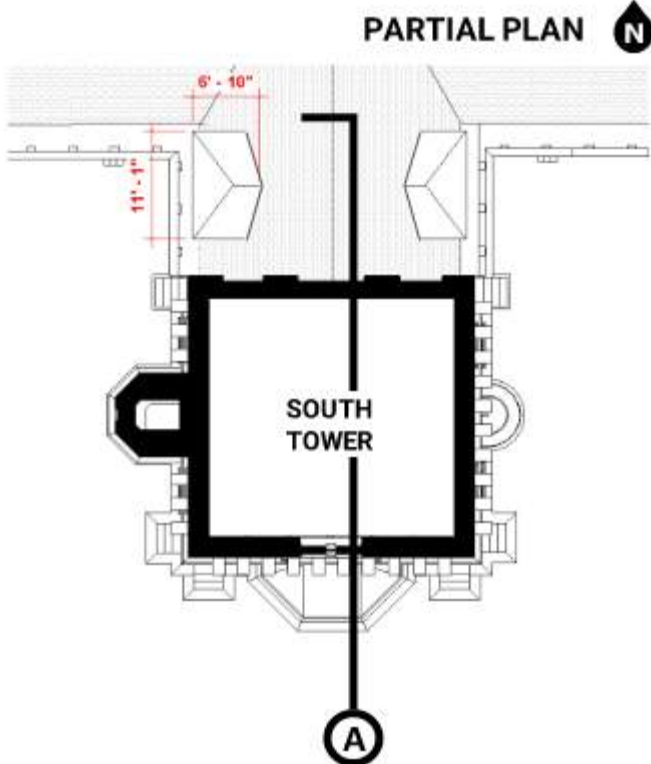
## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATOR LOCATION



- NEW ELEVATORS LOCATED IN AREA OF EXISTING ELEVATOR AND STAIR
- LOCATION PROVIDES FULL ACCESS TO VISITORS OF ALL LEVELS IN THE MAIN BUILDING AND SOUTH TOWER
- DOUBLE-SIDED ELEVATORS ADDRESS LEVEL CHANGES BETWEEN THE MAIN BUILDING AND SOUTH TOWER
- TWO ELEVATORS AT SOUTH TOWER ALLOW THE EXISTING ELEVATOR IN THE NORTH TOWER MAIN STAIR TO BE REMOVED

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS SECTION



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 1

- Fan Coil Units (FCUs) to be removed from South Entry
- It is unknown if the recessed arches extend to the finish floor until the FCUs are removed



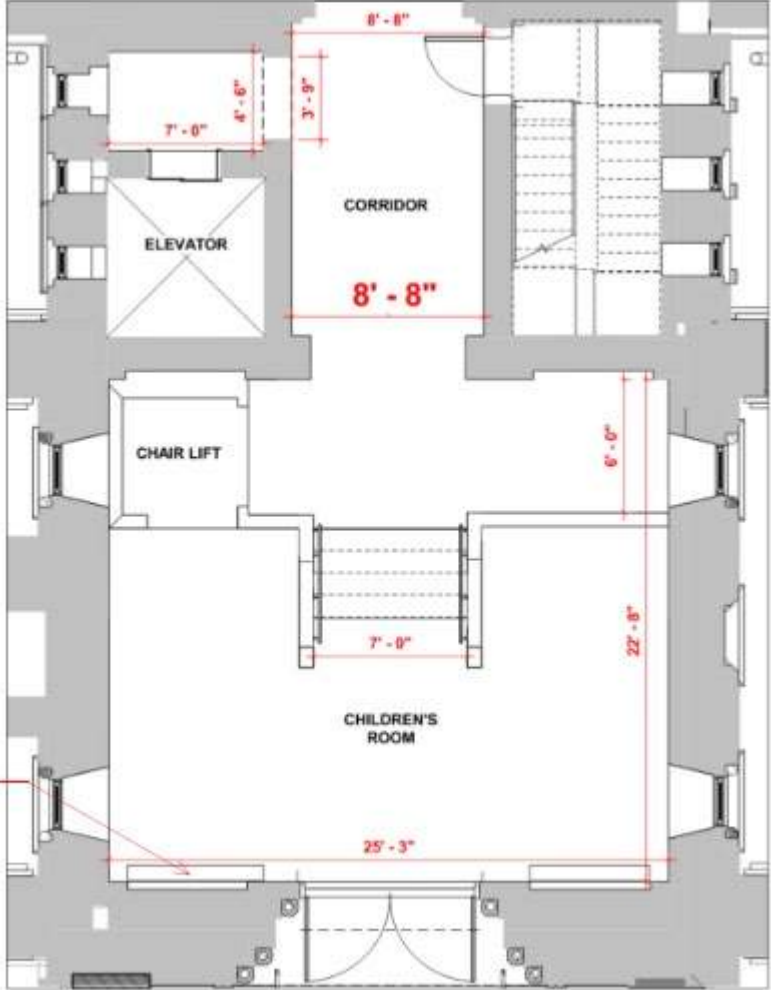
EXISTING CONDITION (looking north)



CHILDREN'S ROOM- C. 1901 (looking south)



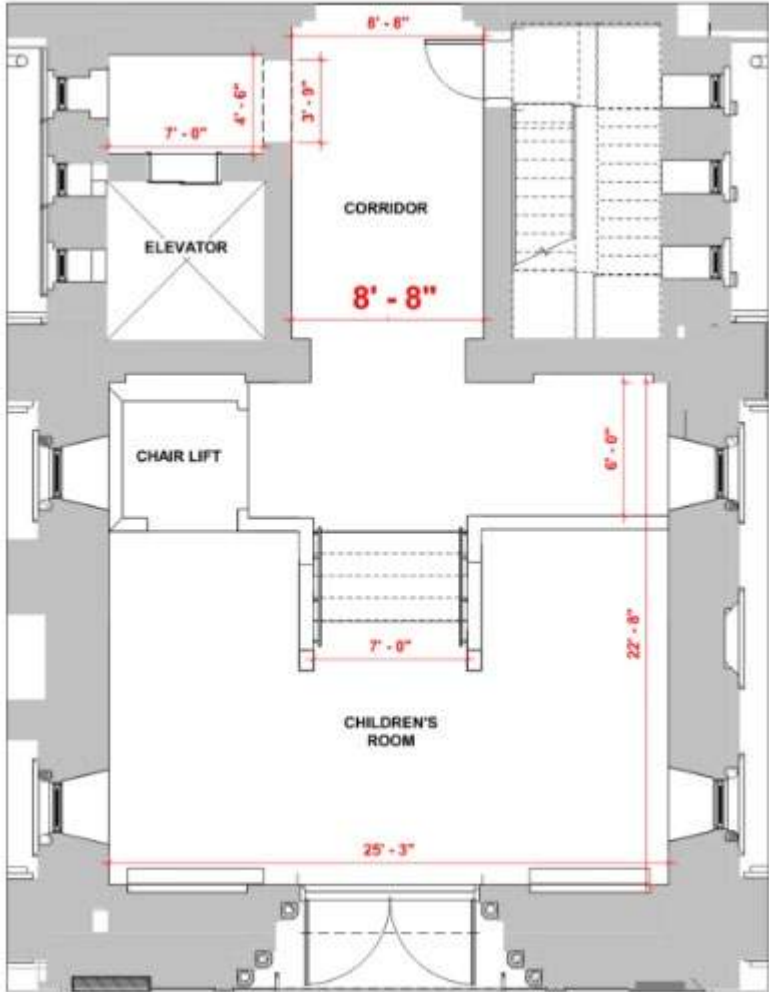
EXISTING CONDITION (looking south)



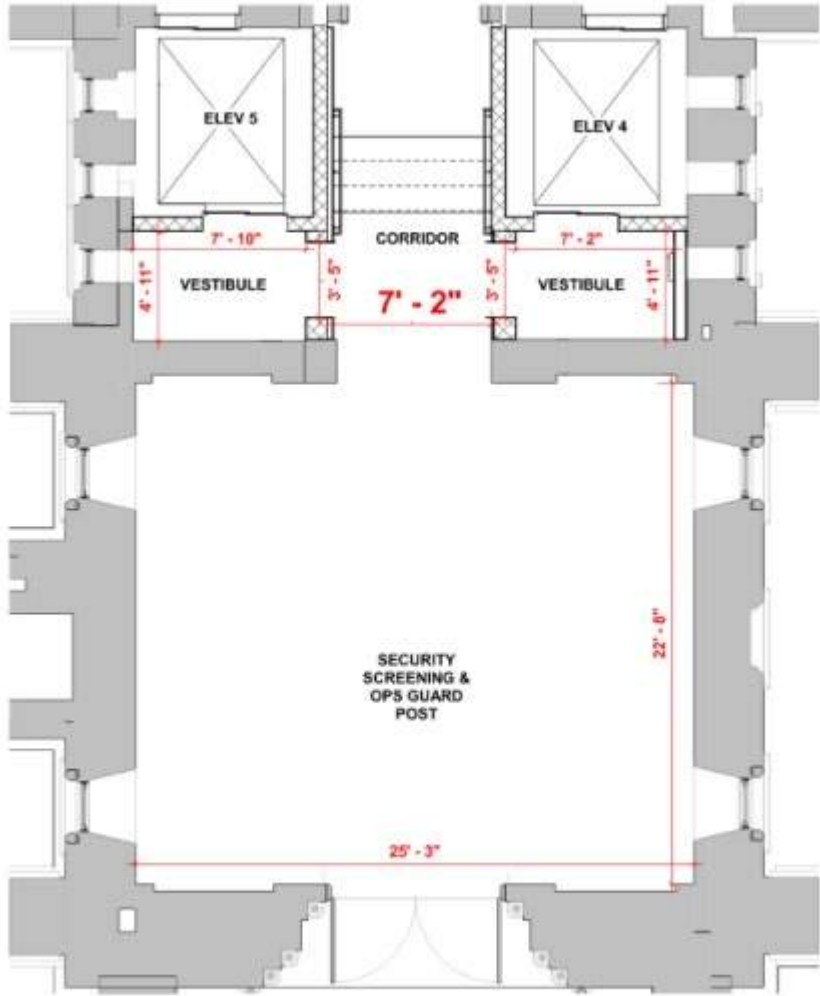
EXISTING PLAN

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 1



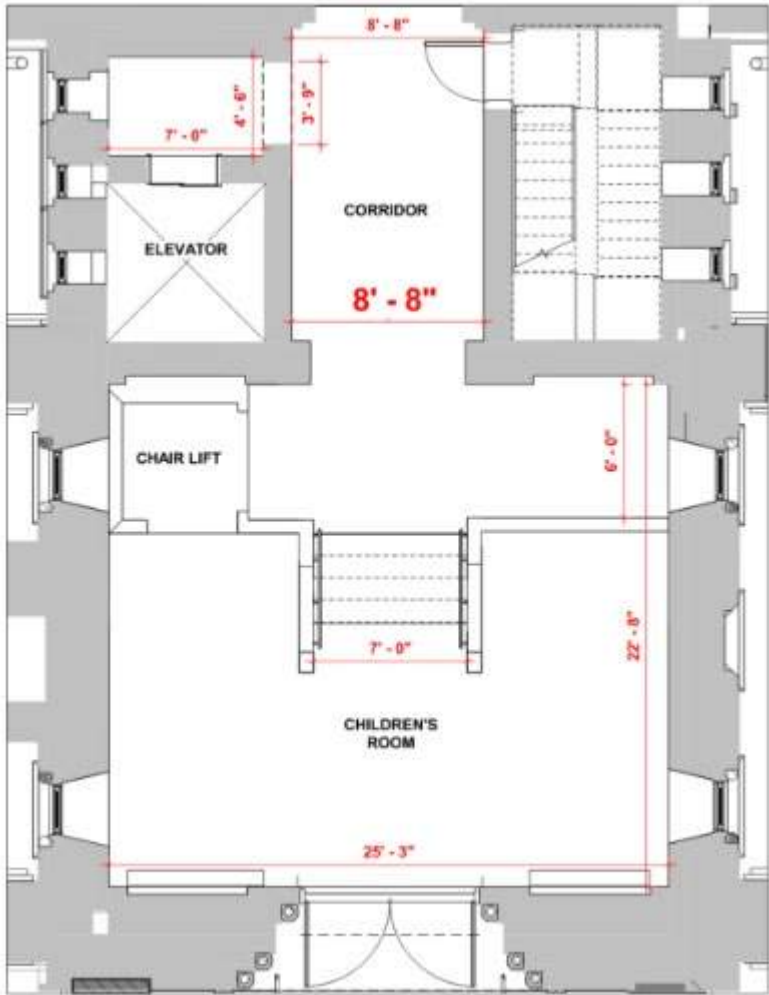
EXISTING PLAN



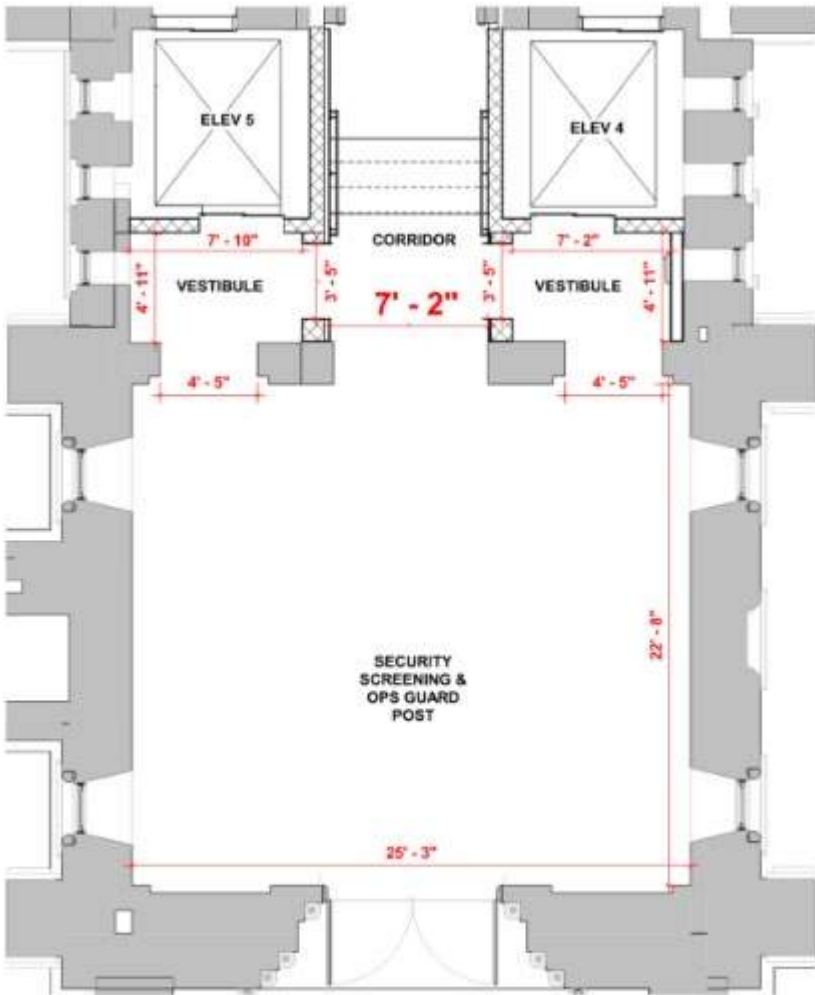
PROPOSED PLAN (PRESENTED DURING CP7)  
CORRIDOR REDUCED BY 1'-6"

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 1



EXISTING PLAN

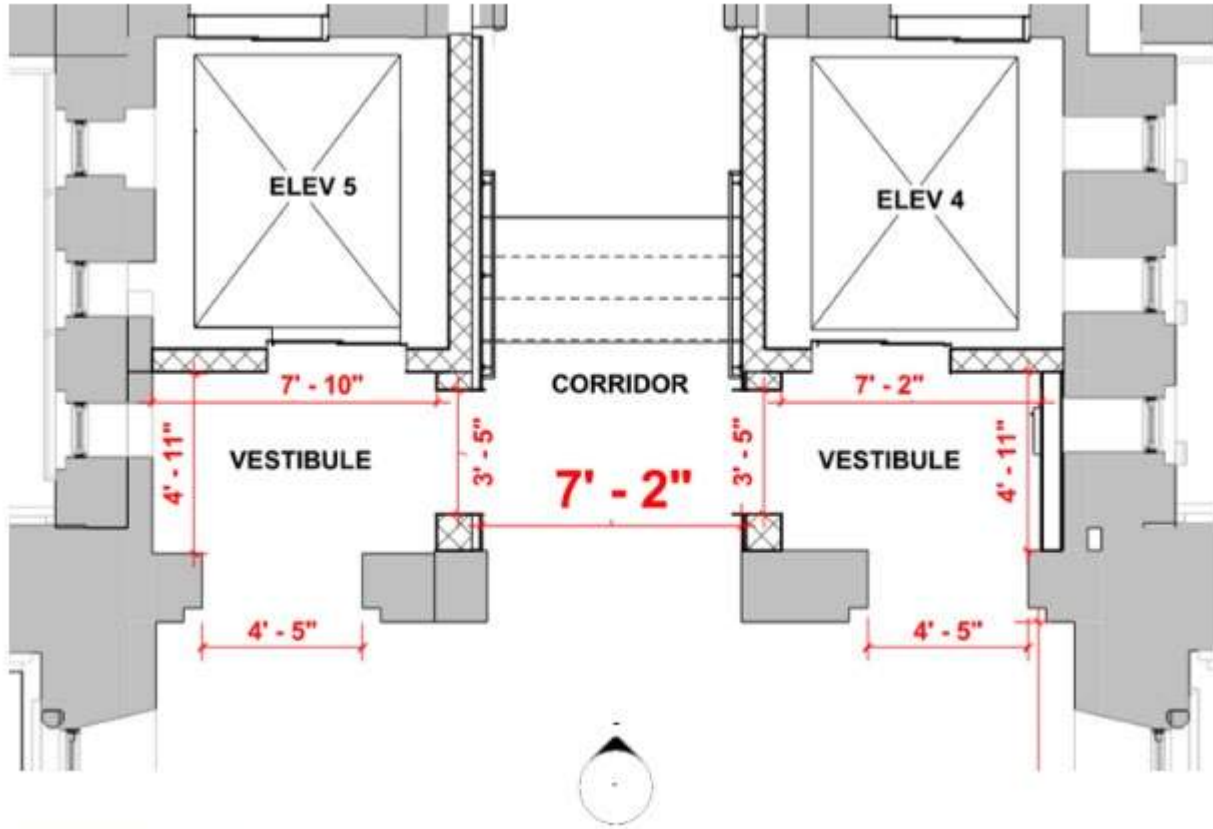


PROPOSED PLAN (UPDATED)  
CORRIDOR REDUCED BY 1'-6"

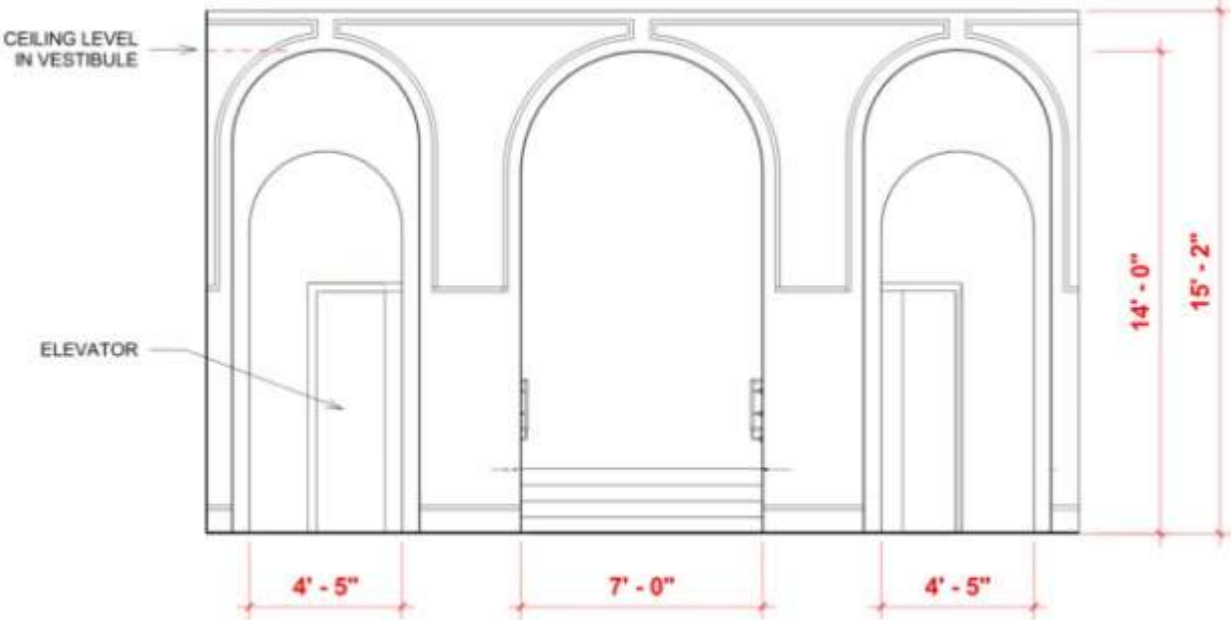


# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 1A)



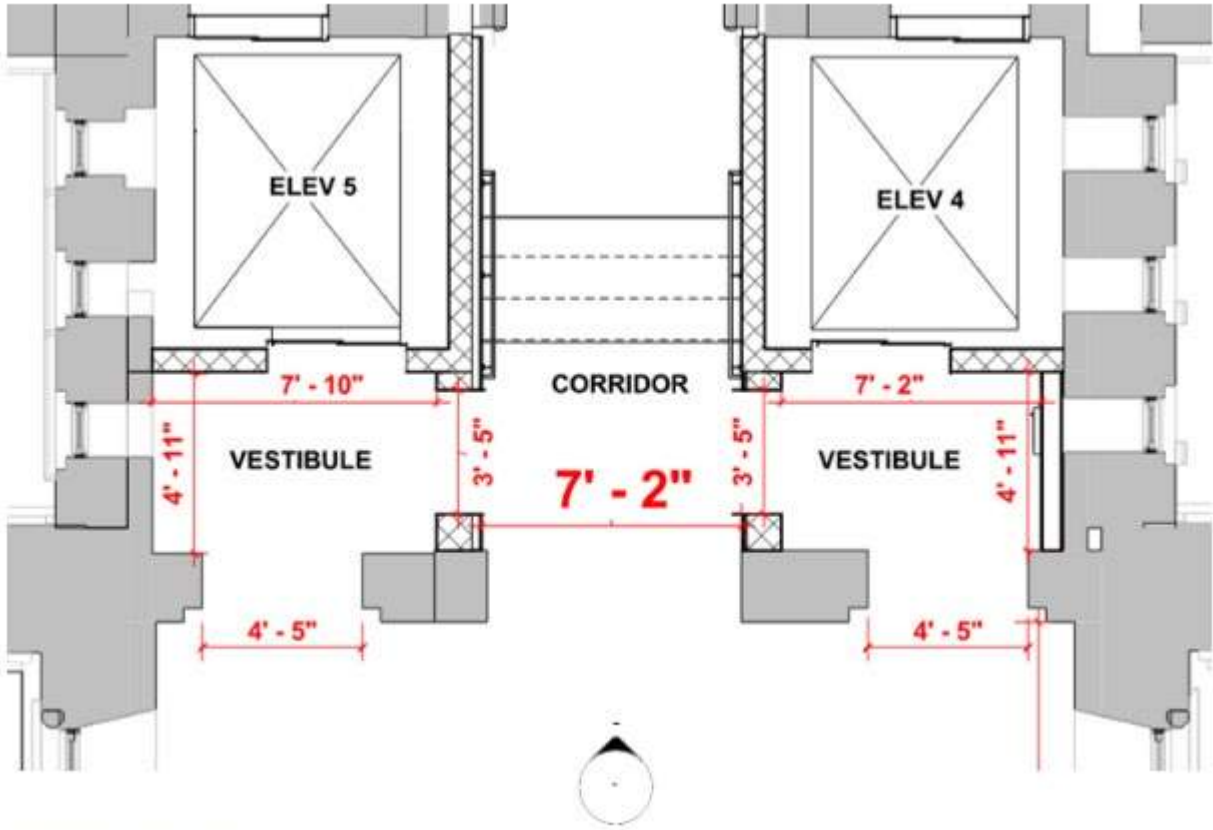
PROPOSED PLAN



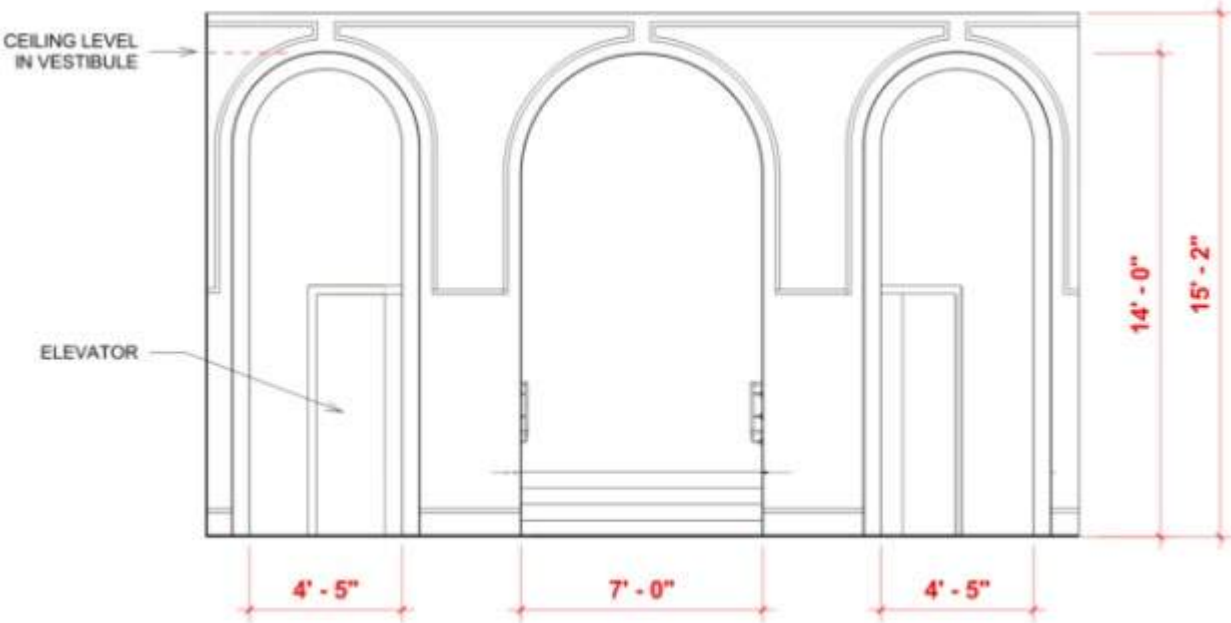
PROPOSED ELEVATION - NORTH  
ARCHED OPENING (OPT 1A)

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 1B)



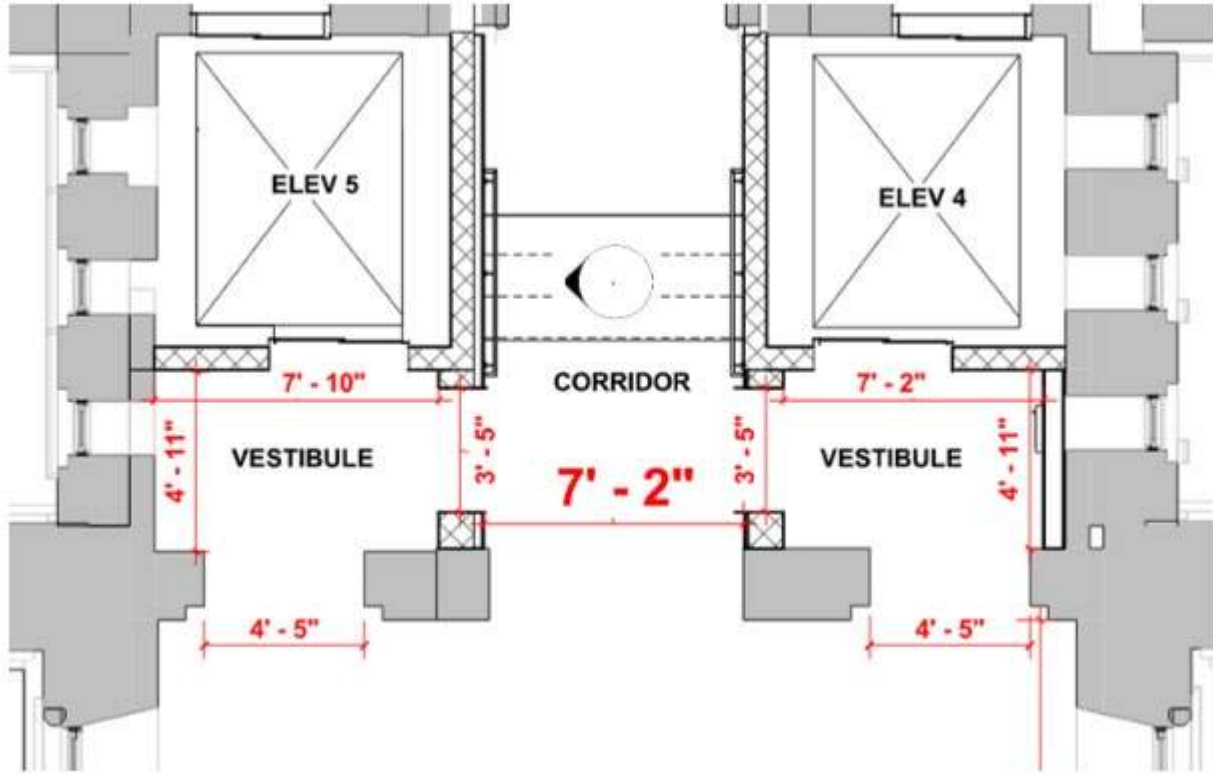
PROPOSED PLAN



PROPOSED ELEVATION - NORTH  
ARCHED OPENING (OPT 1B)

# SMITHSONIAN INSTITUTION BUILDING (SIB)

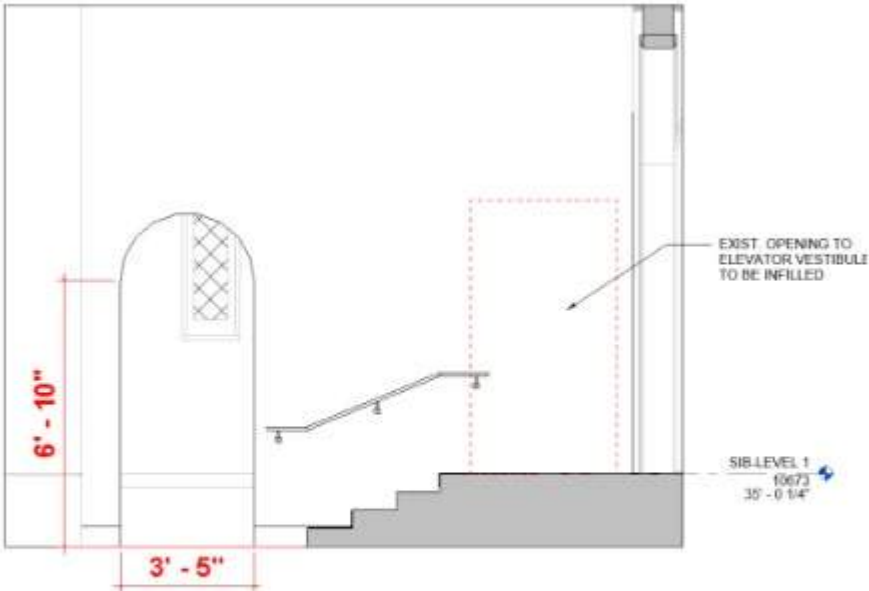
## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 1)



PROPOSED PLAN



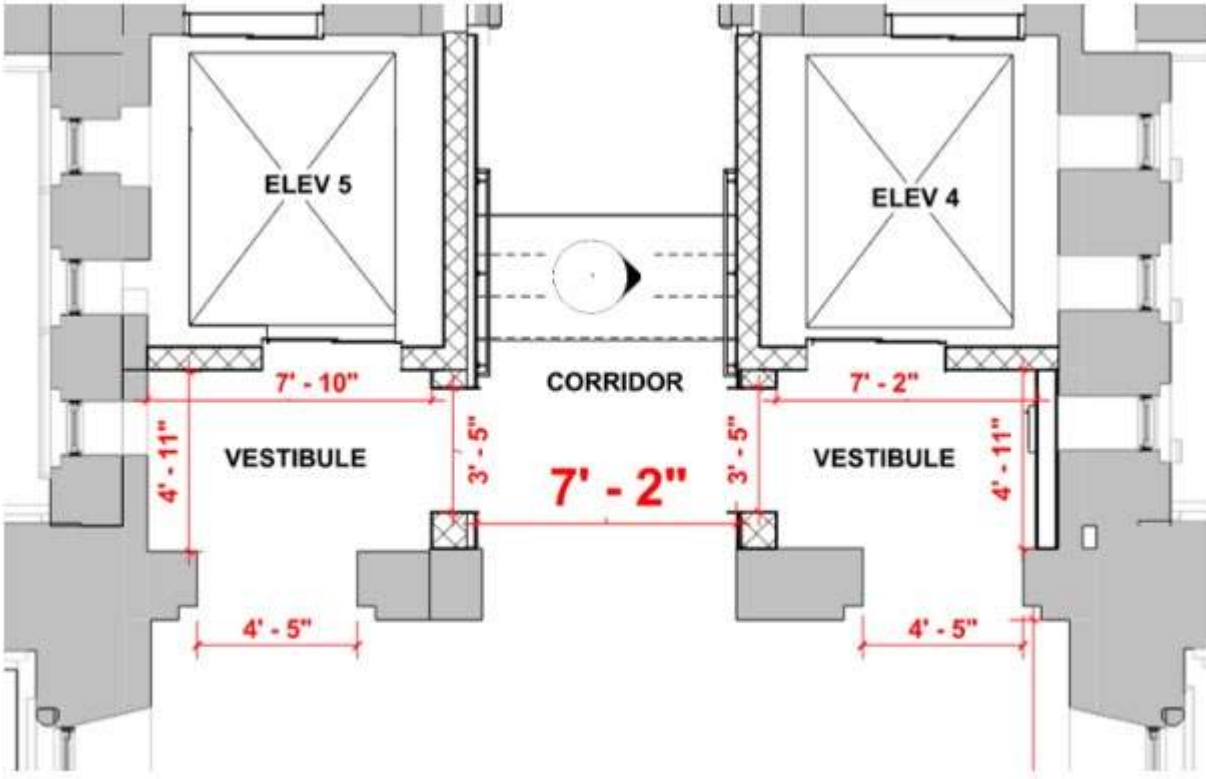
HISTORIC ARCHITECTURAL VOCABULARY - ARCHES IN GREAT HALL



PROPOSED ELEVATION - WEST  
ARCHED OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

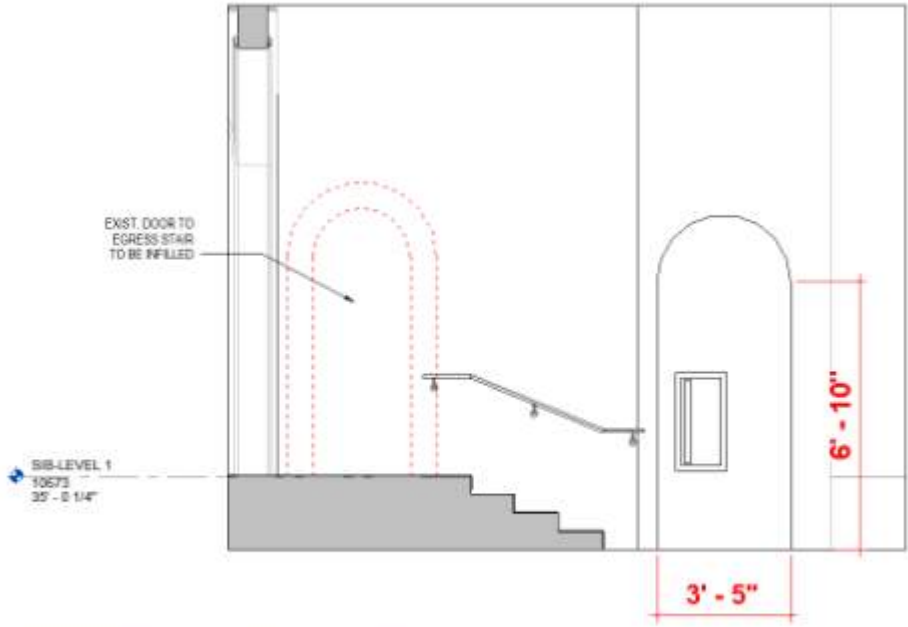
## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 1)



PROPOSED PLAN



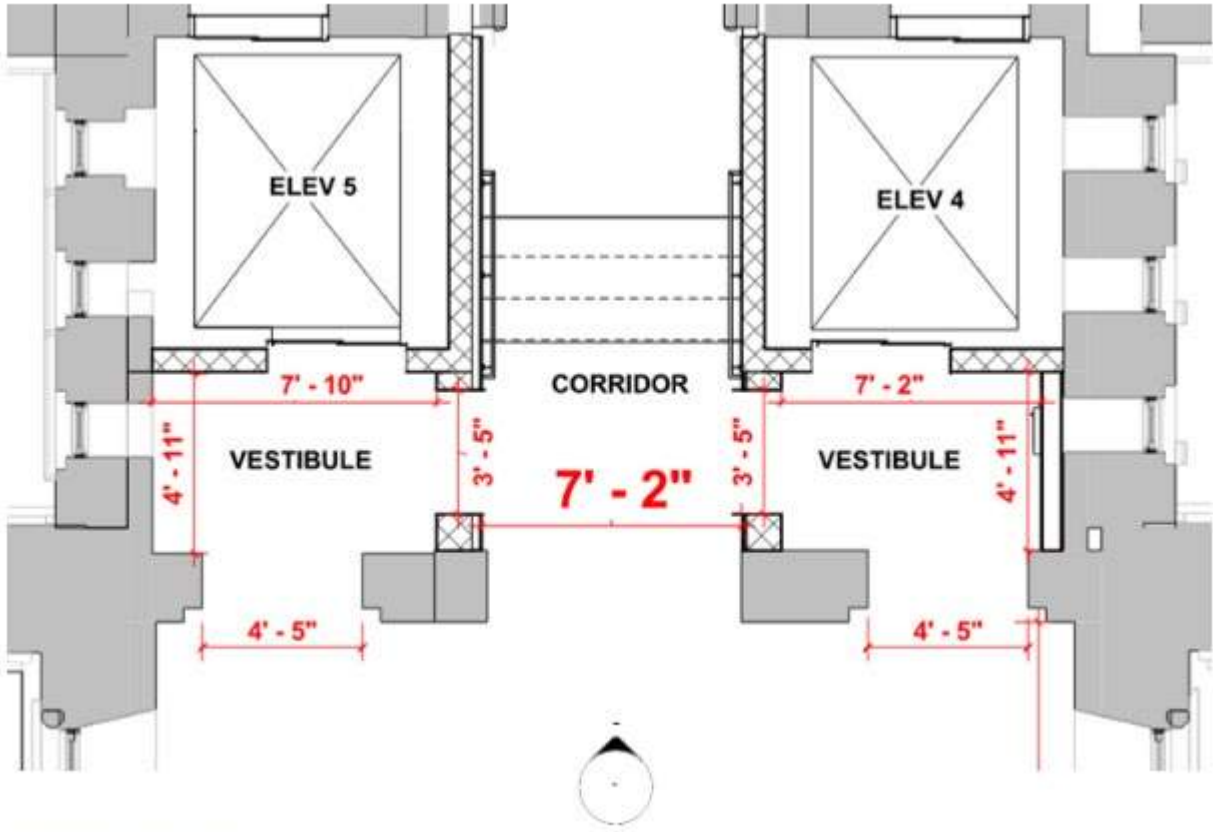
HISTORIC ARCHITECTURAL VOCABULARY - ARCHES IN GREAT HALL



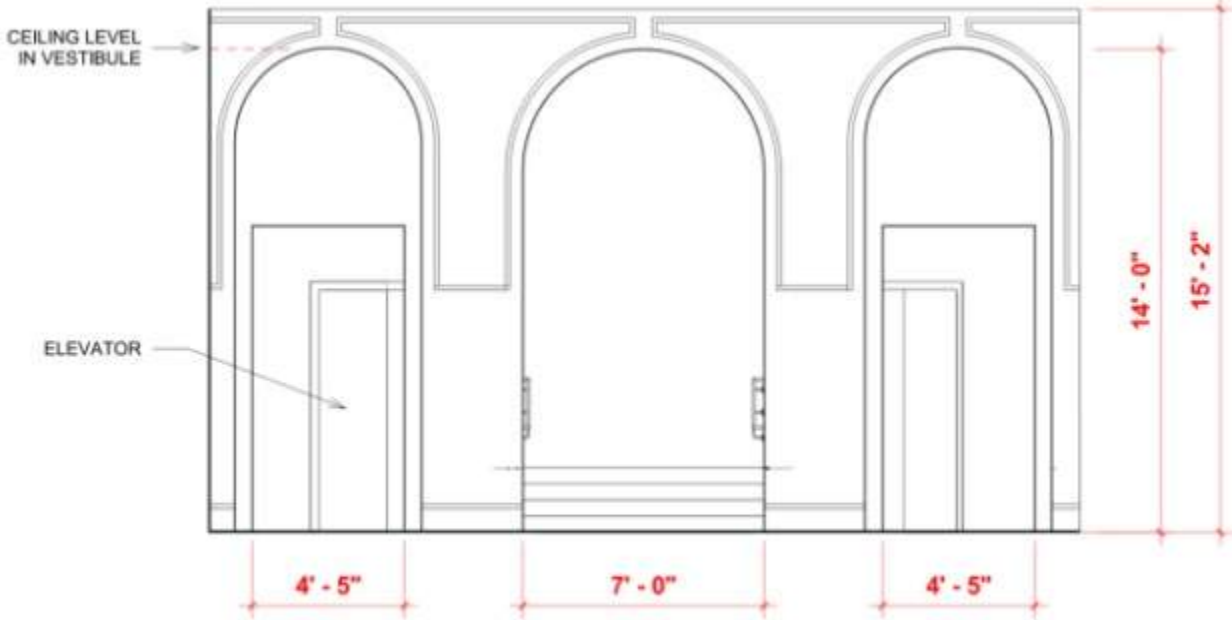
PROPOSED ELEVATION - EAST  
ARCHED OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 2)



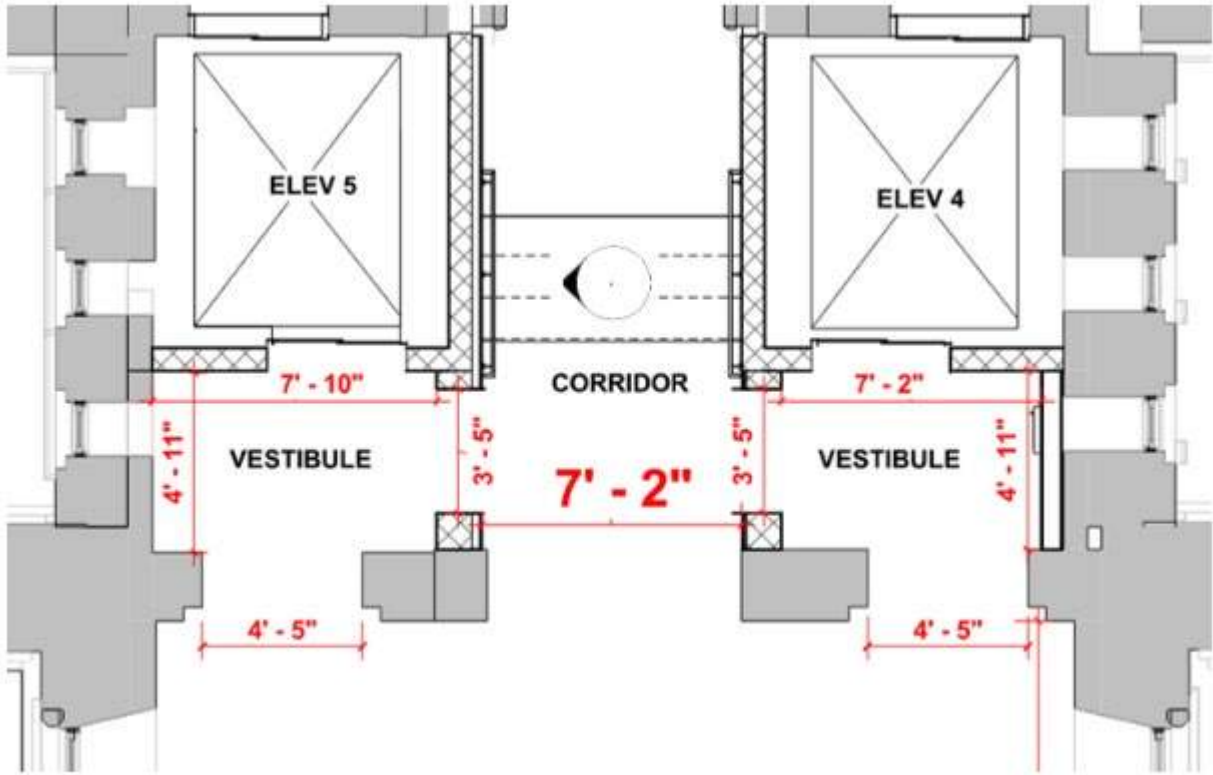
PROPOSED PLAN



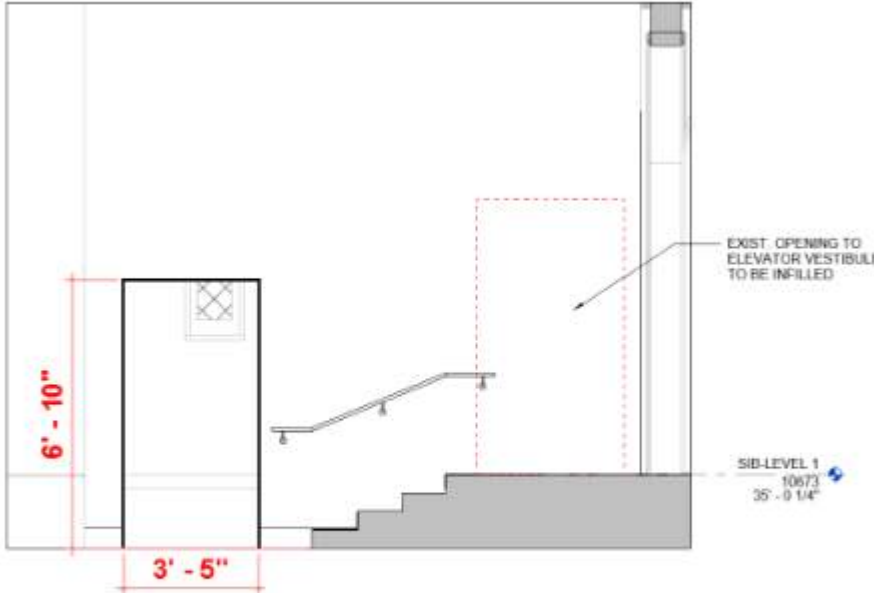
PROPOSED ELEVATION - NORTH  
RECTANGULAR OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 2)



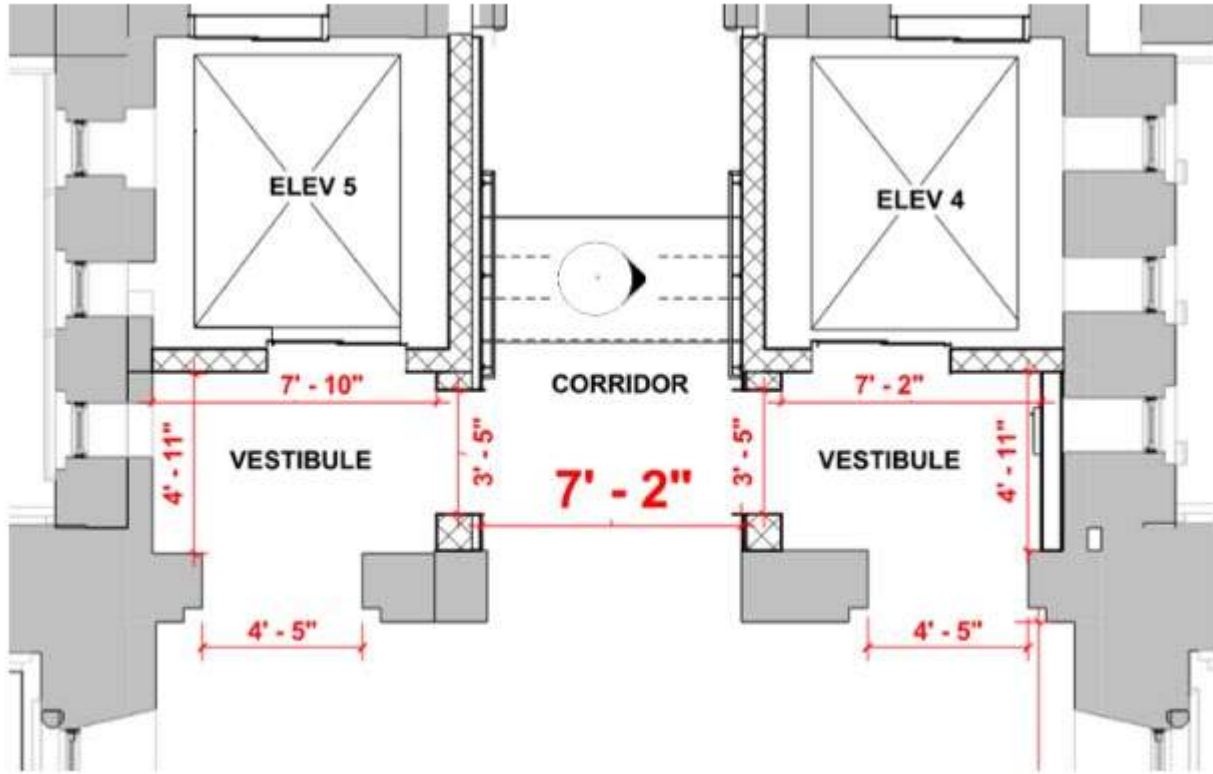
PROPOSED PLAN



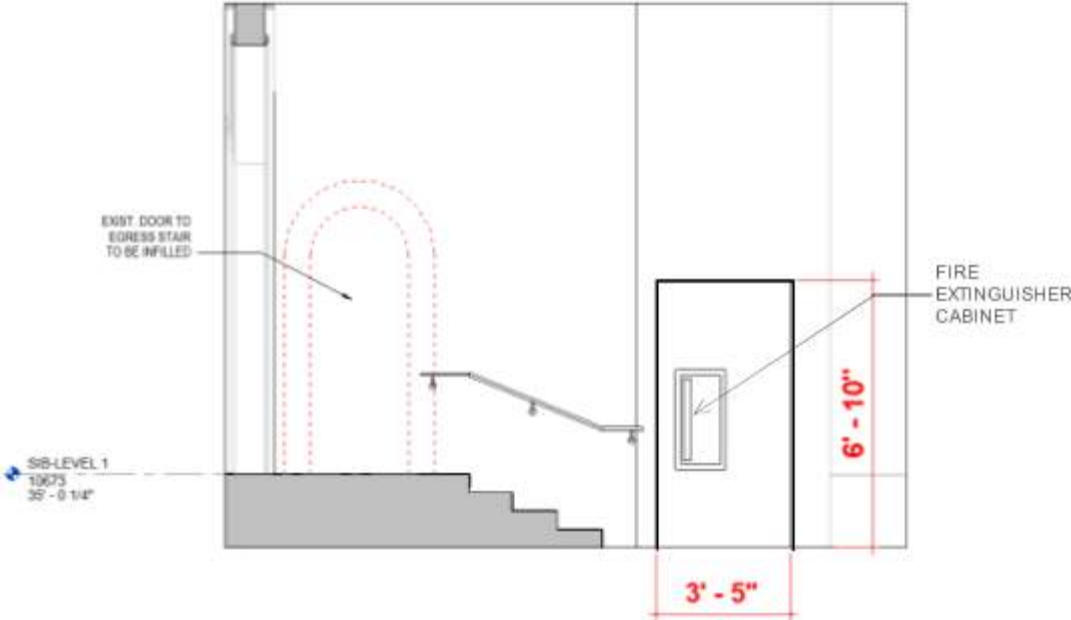
PROPOSED ELEVATION - WEST  
RECTANGULAR OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS (OPTION 2)



PROPOSED PLAN



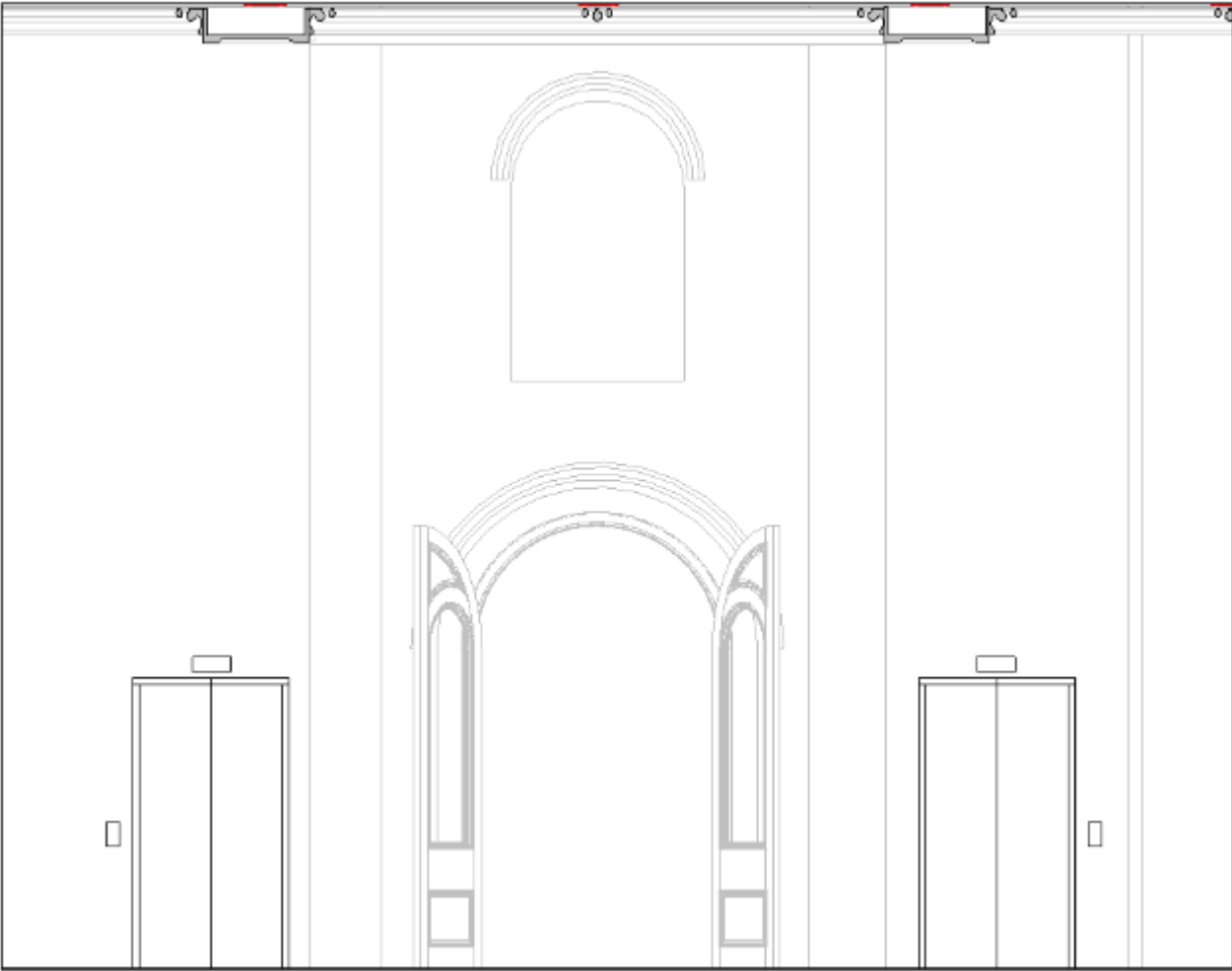
PROPOSED ELEVATION - EAST  
RECTANGULAR OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS



PROPOSED VISUALIZATION - SOUTH FROM GREAT HALL  
*CONTEMPORARY FRAME*



PROPOSED ELEVATION - SOUTH FROM GREAT HALL  
*CONTEMPORARY FRAME*

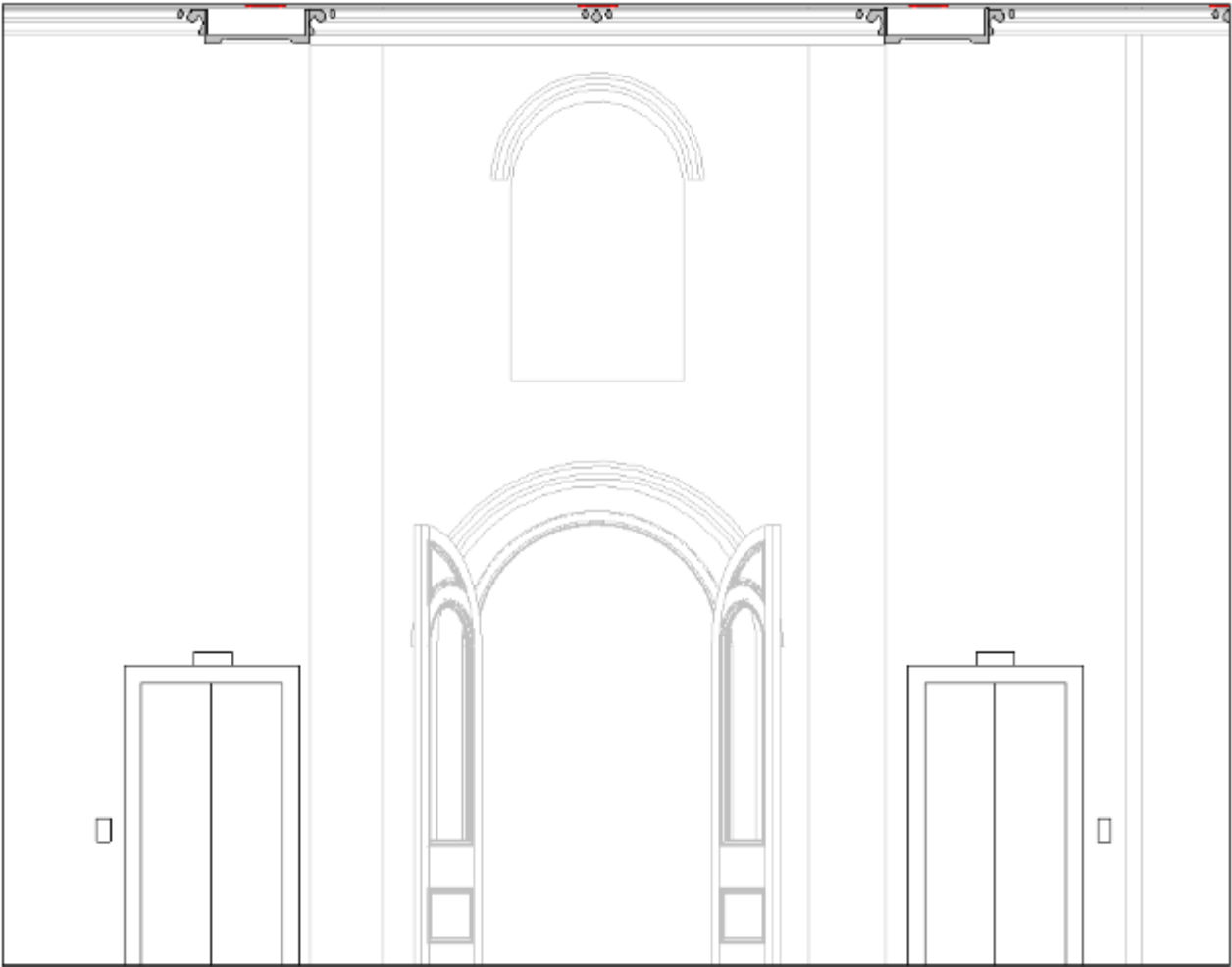


# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS ELEVATIONS



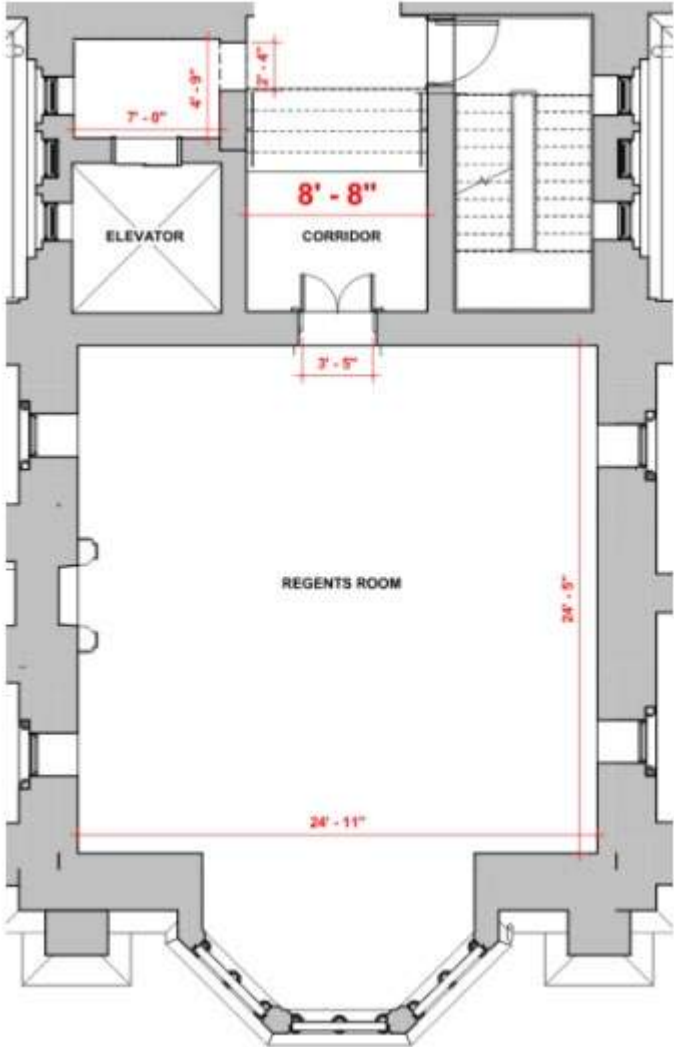
PROPOSED VISUALIZATION - SOUTH FROM GREAT HALL  
*TRADITIONAL FRAME*



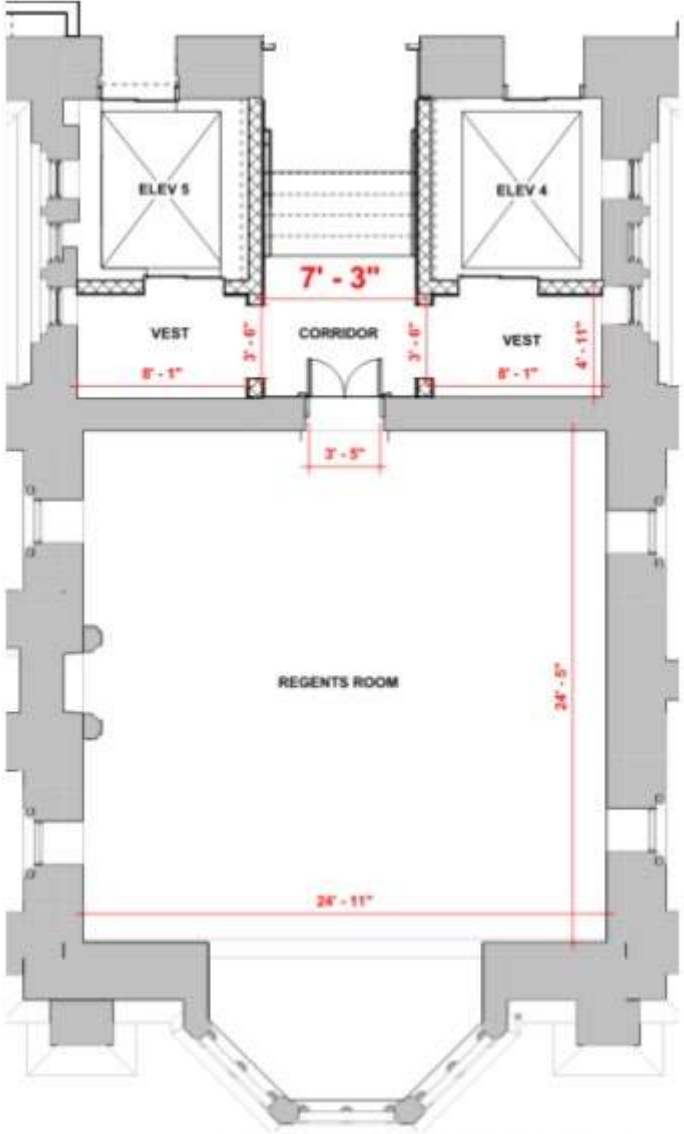
PROPOSED ELEVATION - SOUTH FROM GREAT HALL  
*TRADITIONAL FRAME*

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 3



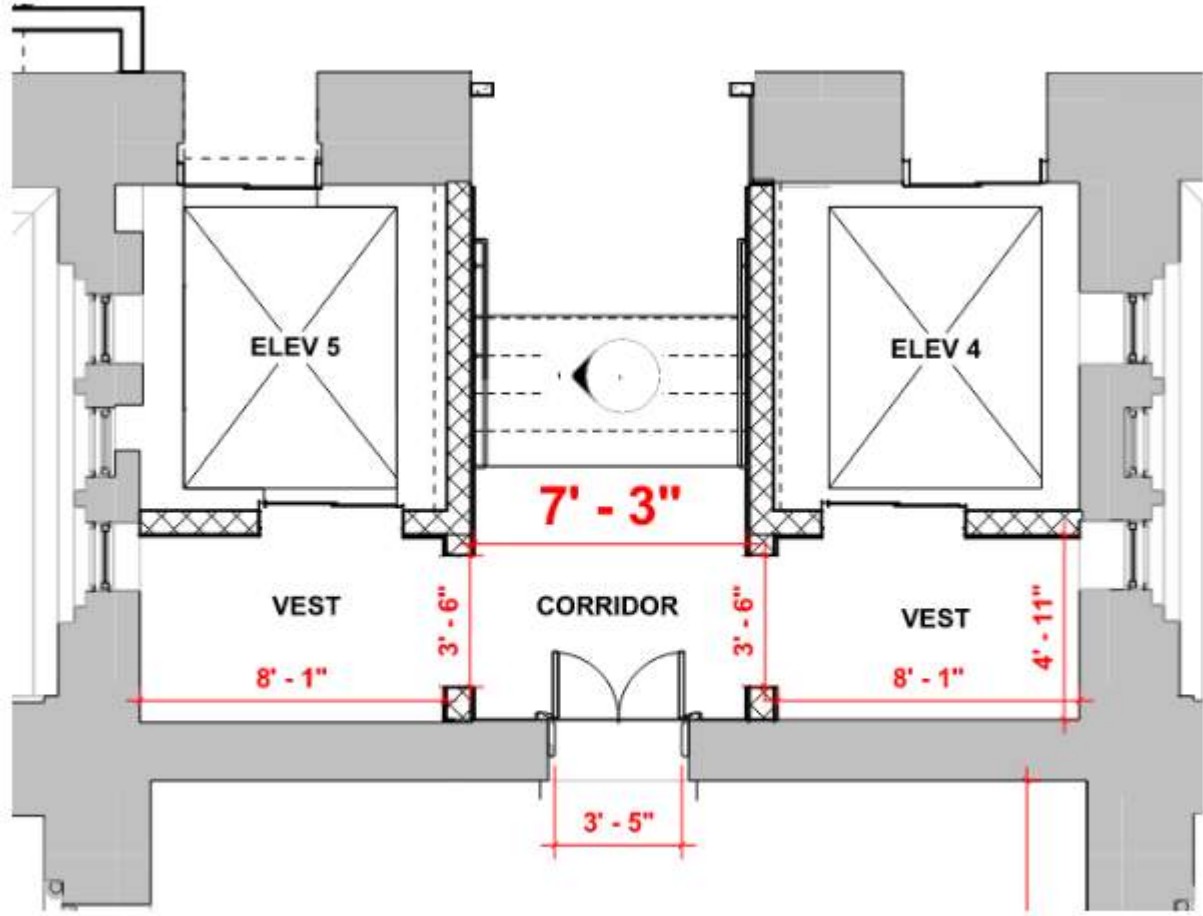
EXISTING PLAN



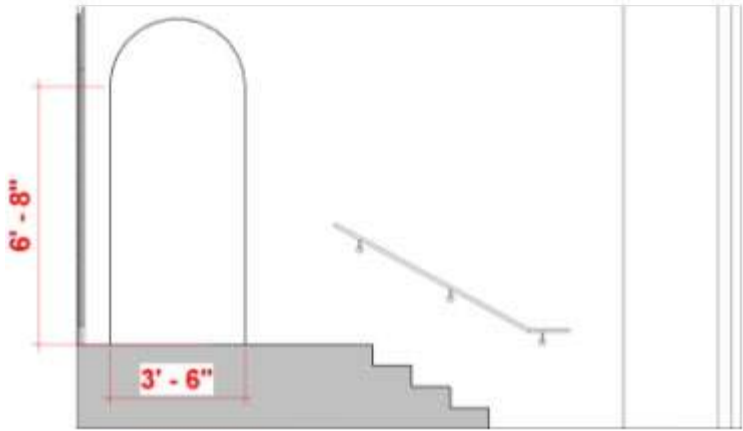
PROPOSED PLAN (CORRIDOR REDUCED BY 1'-5")

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
LEVEL 3



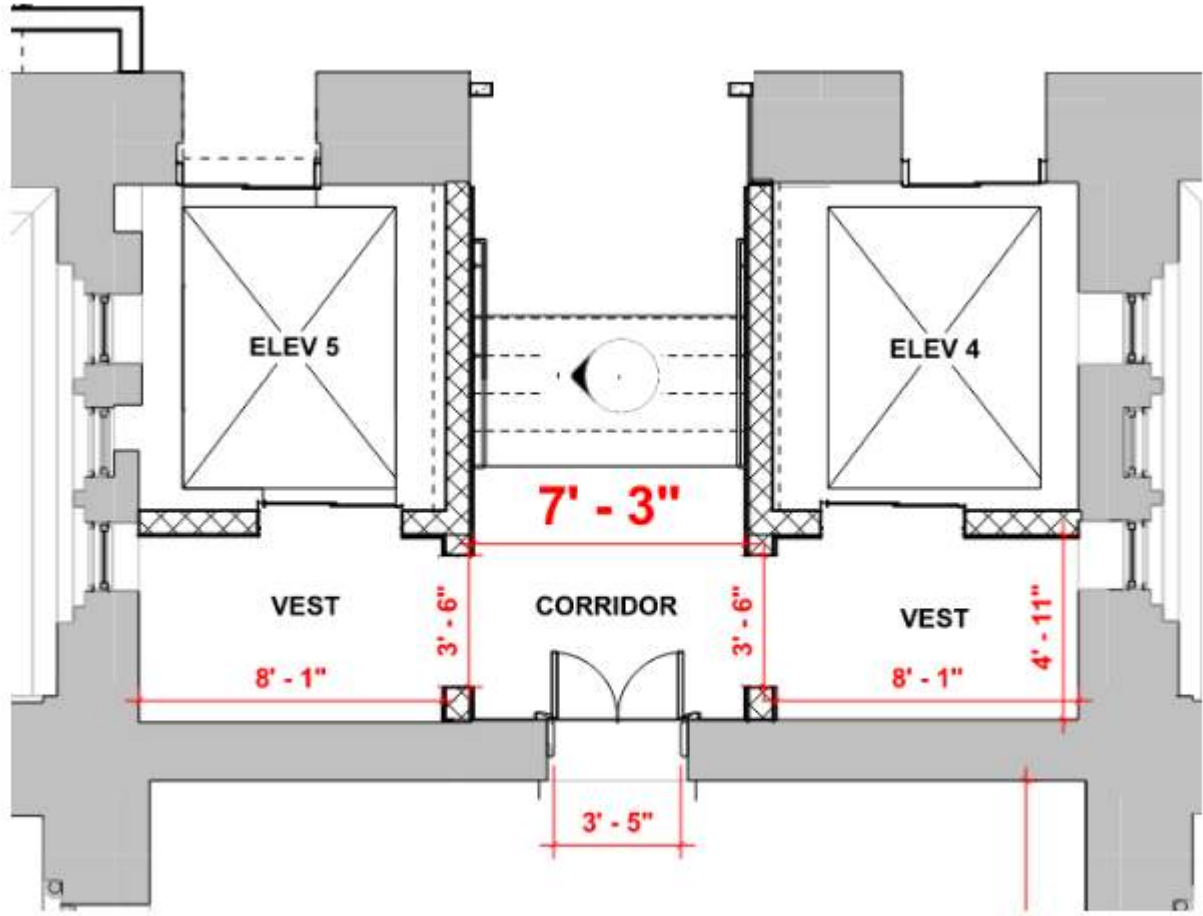
PROPOSED PLAN



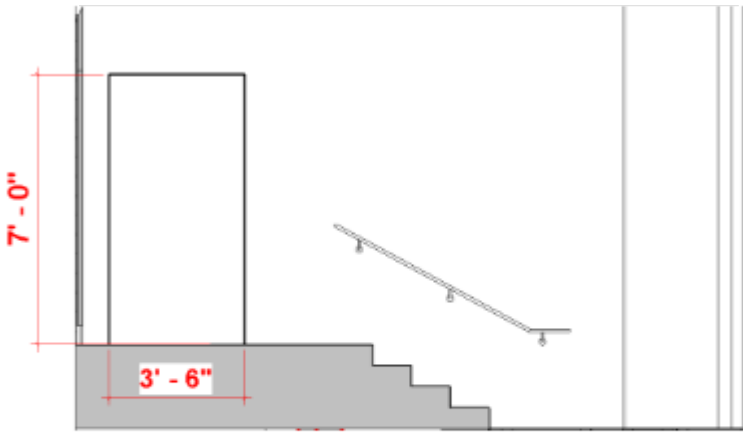
PROPOSED ELEVATION – WEST  
ARCHED OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
LEVEL 3



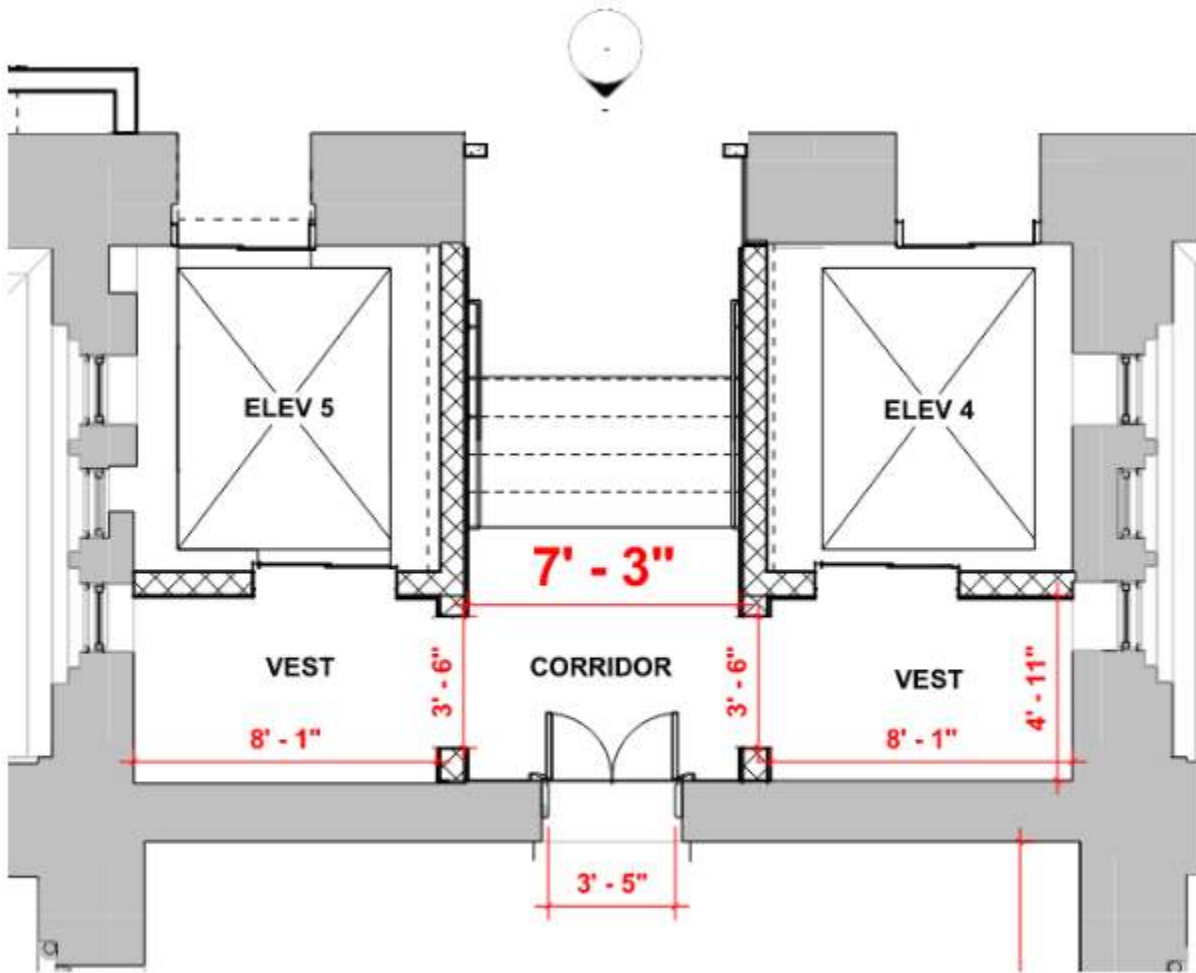
PROPOSED PLAN



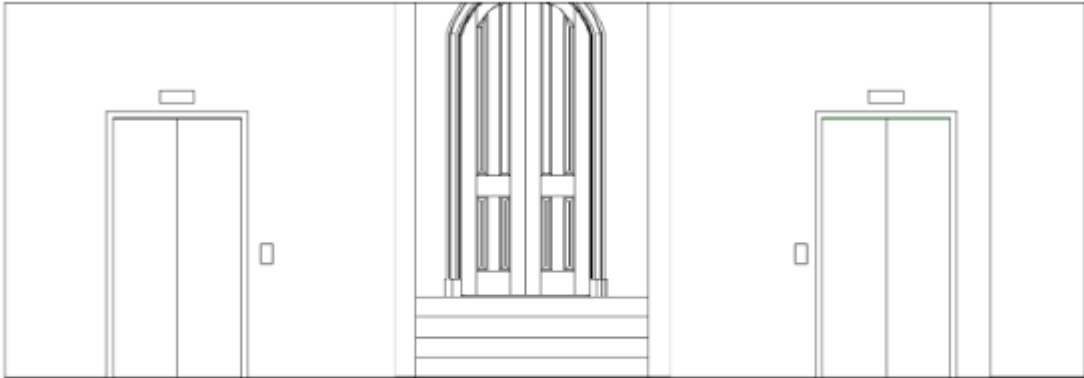
PROPOSED ELEVATION – WEST  
RECTANGULAR OPENING

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 3



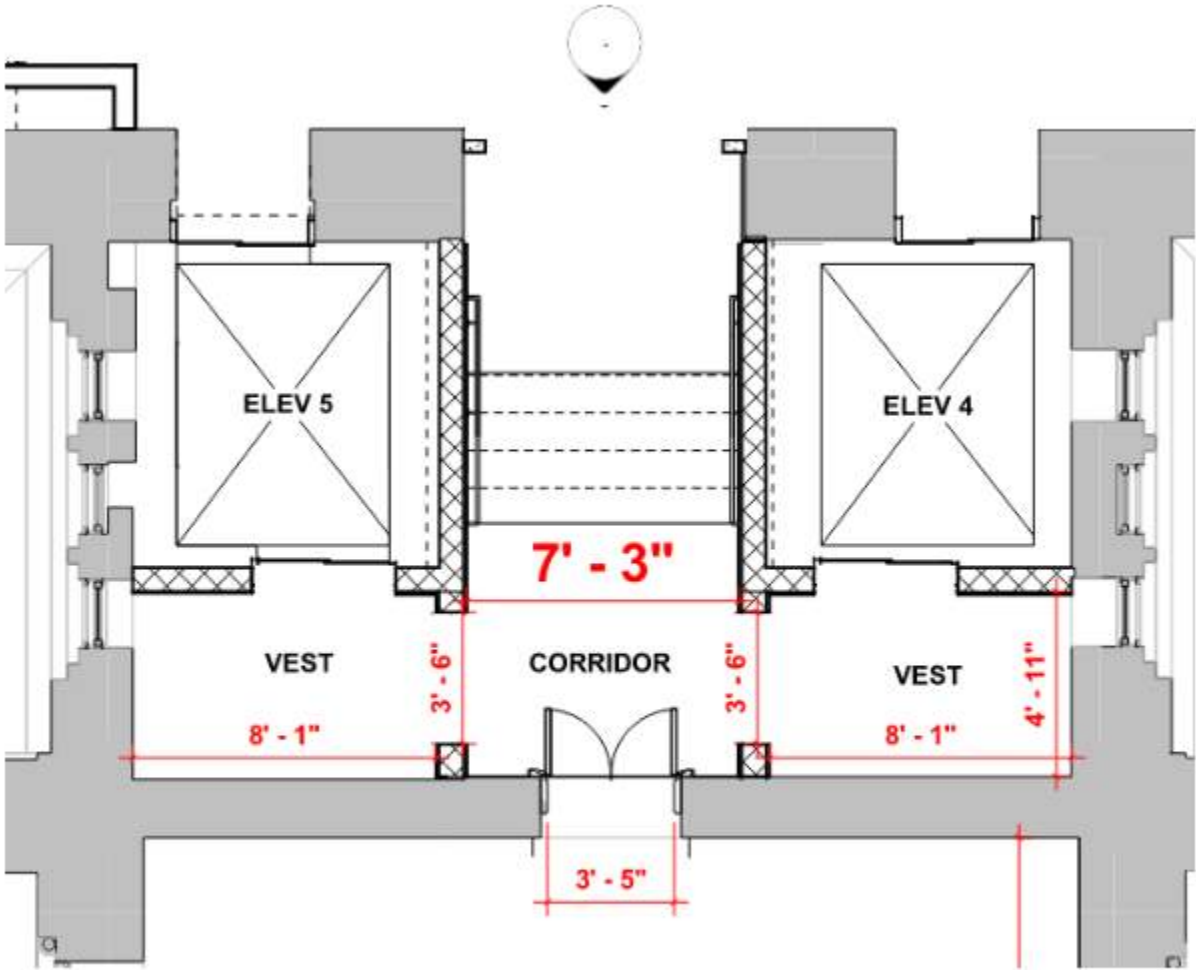
PROPOSED PLAN



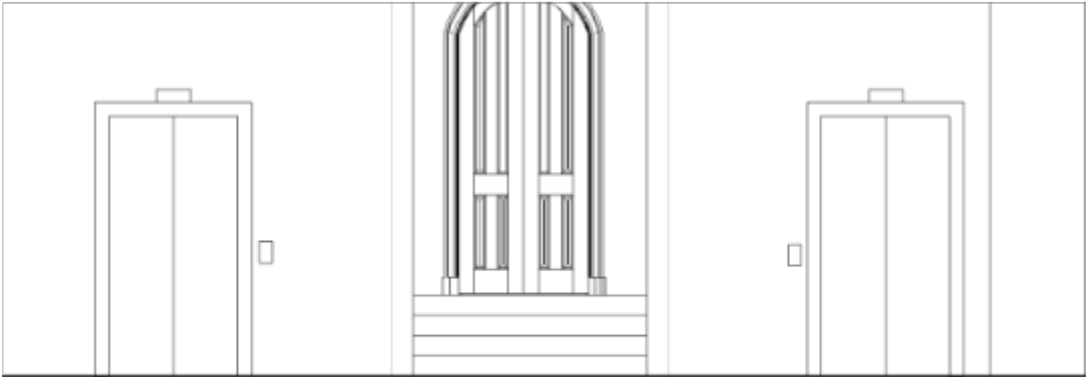
PROPOSED ELEVATION - SOUTH FROM UPPER GREAT HALL  
CONTEMPORARY FRAME

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
LEVEL 3



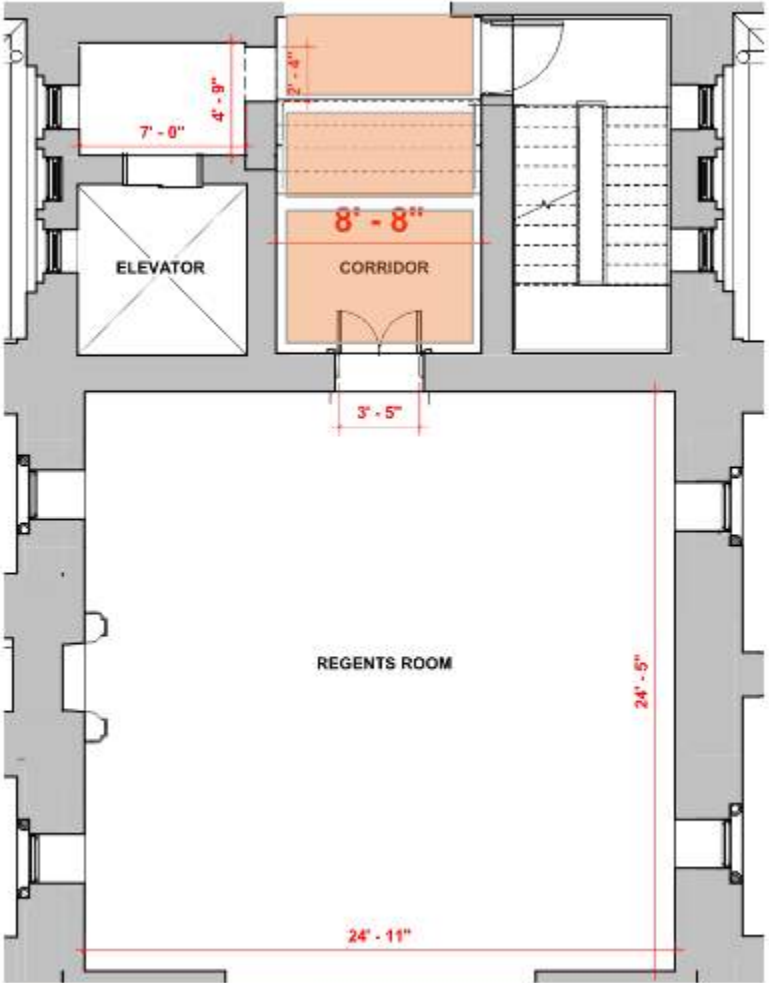
PROPOSED PLAN



PROPOSED ELEVATION - SOUTH FROM UPPER GREAT HALL  
TRADITIONAL FRAME

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS



LOCATION OF MOSAIC



EXISTING MOSAIC (LOWER PATTERN, MARBLE STEPS, UPPER W. EMBLEM)

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS



UPPER MOSAIC WITH EMBLEM



DETAIL OF EMBLEM



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

- Corridor reduced by  $17 \frac{1}{2}$ " total;  $8 \frac{3}{4}$ " to be removed from each side
- Removal/realignment to follow existing pattern; pattern repeats every  $6 \frac{1}{2}$ " /  $13$ "
- Will remove  $13$ " of pattern (orange) and add  $4 \frac{1}{4}$ " of repurposed mosaic at wall



UPPER MOSAIC

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS MOSAIC CUT/FILL

### UPPER

- 11 SF of light beige removed
- 5 SF of light beige to be reused at wall

infill

salvage



UPPER MOSAIC SALVAGE/INFILL

### LOWER

- 5.25 SF of light beige removed
- 2.6 SF of light beige to be reused at wall

infill

salvage



LOWER MOSAIC SALVAGE/INFILL

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
EXISTING WIDTH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

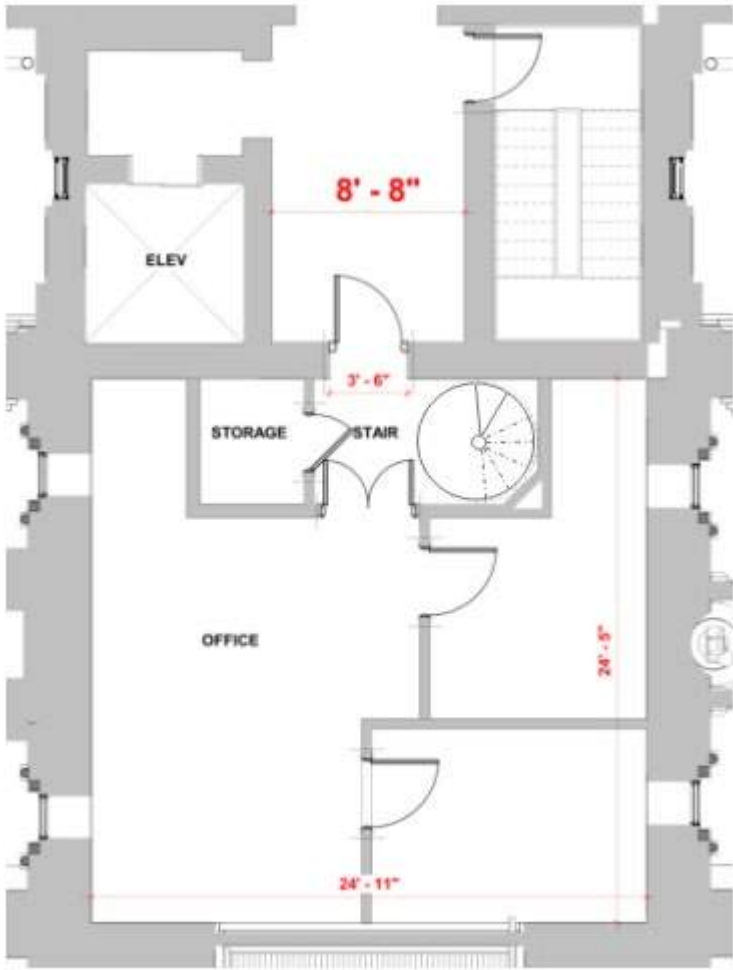
SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
PROPOSED WIDTH



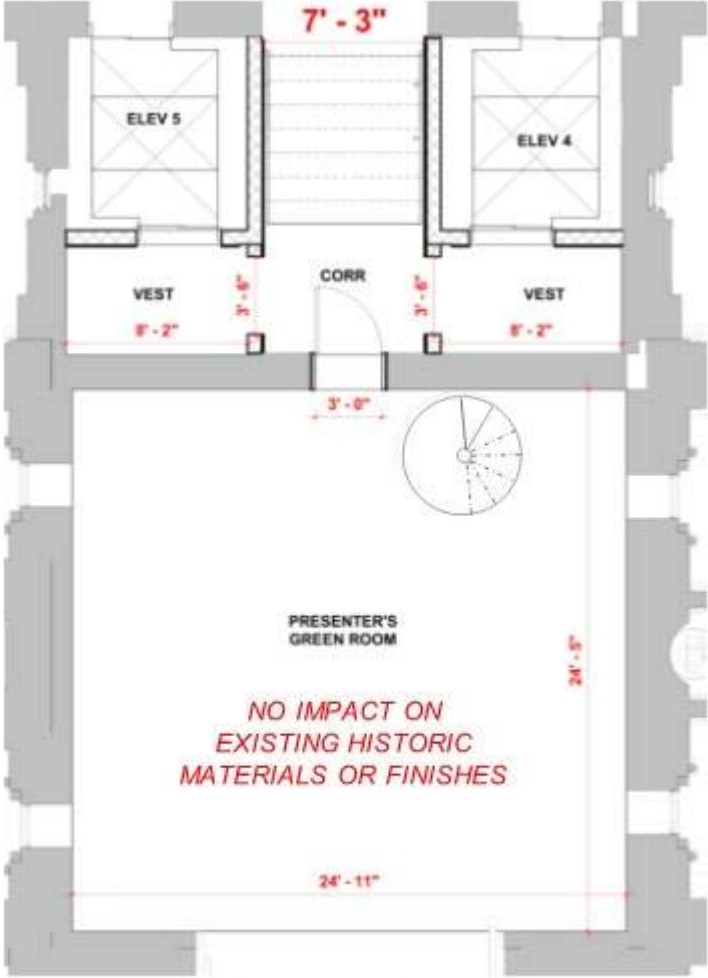
FURNITURE TO  
BE REMOVED &  
RELOCATED

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 4



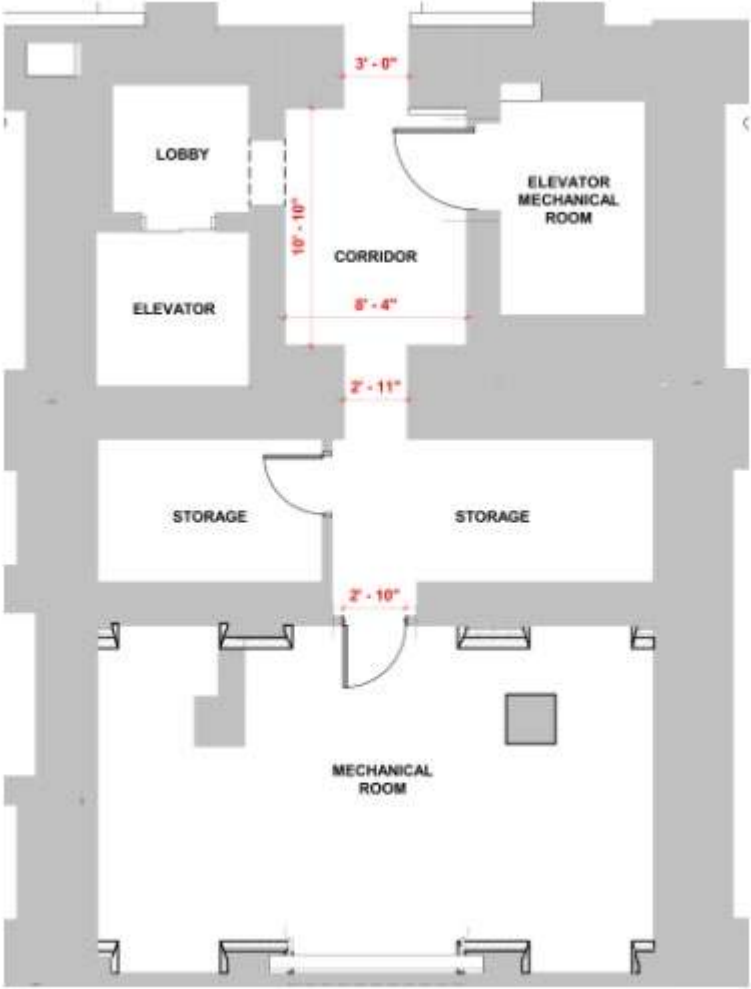
EXISTING PLAN



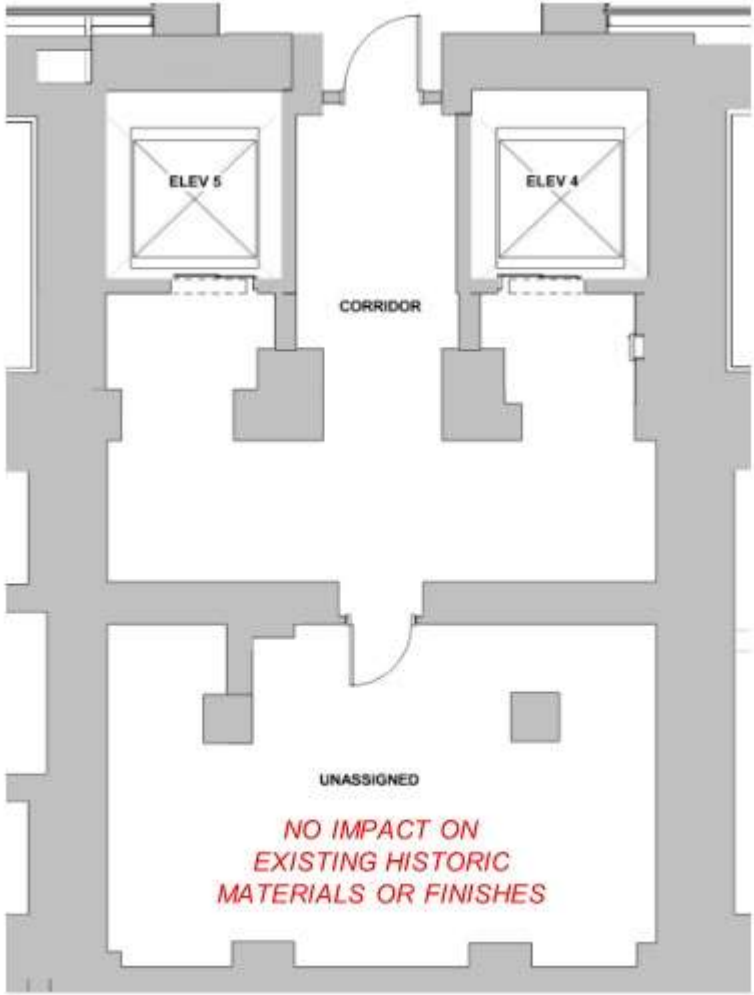
PROPOSED PLAN (CORRIDOR REDUCED BY 1'-5")

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS BASEMENT



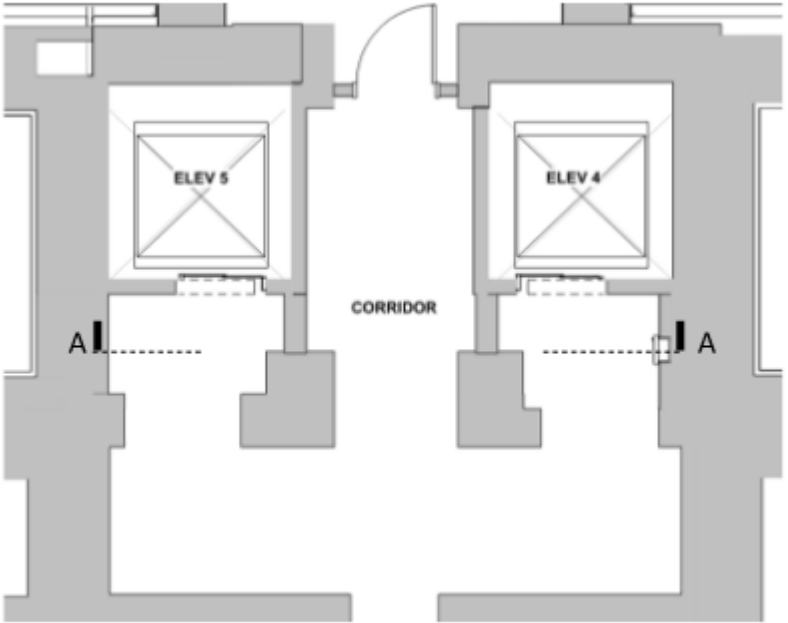
EXISTING PLAN



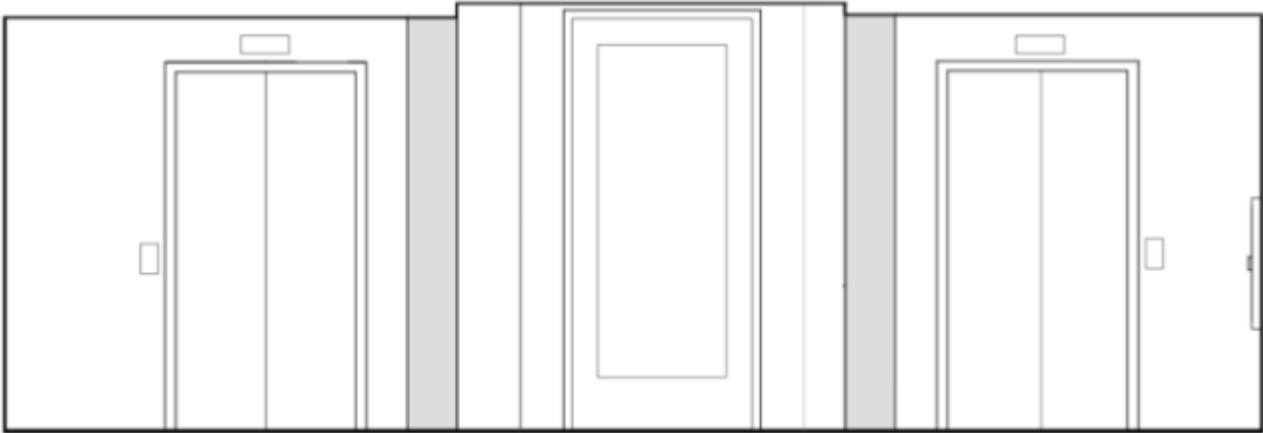
PROPOSED PLAN

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
BASEMENT – B0



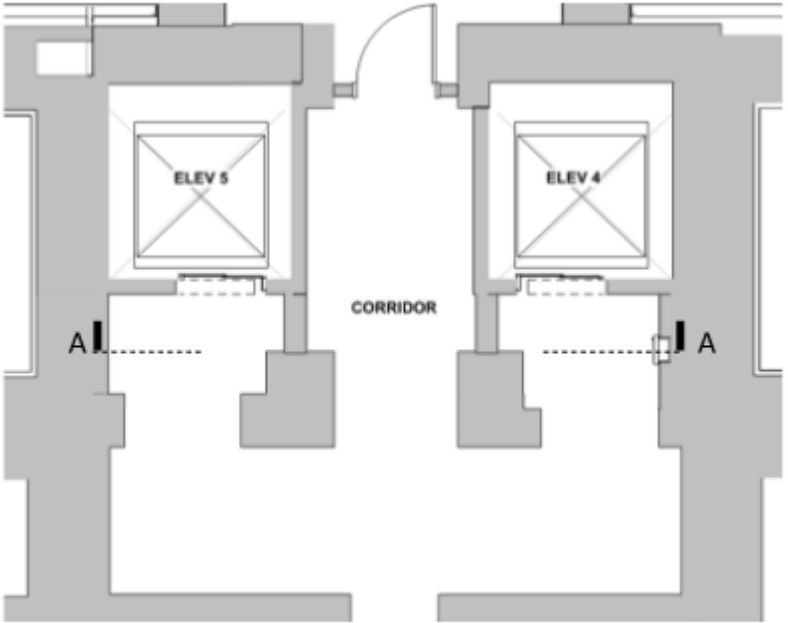
PROPOSED PLAN



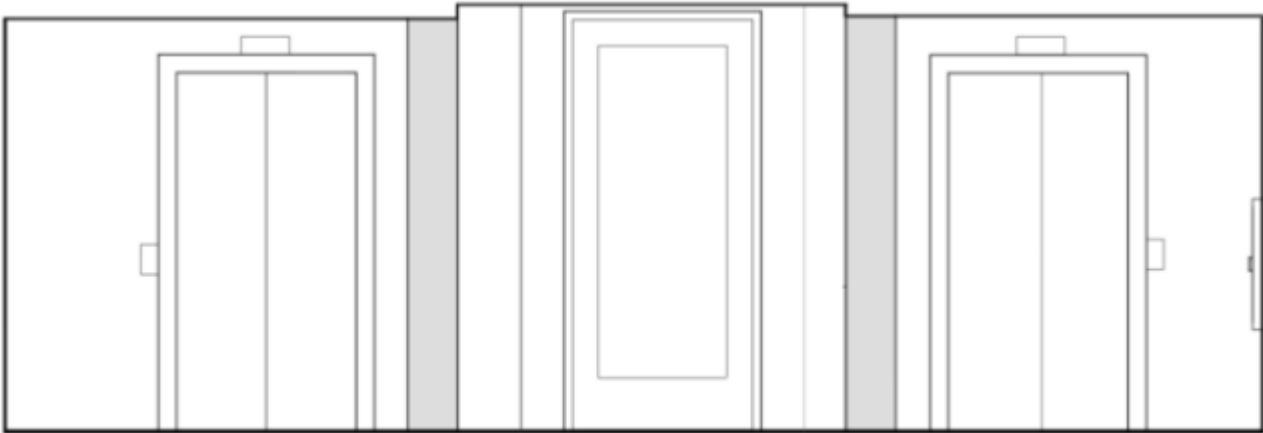
PROPOSED ELEVATION - NORTH FROM B0  
*CONTEMPORARY FRAME*

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
BASEMENT – B0



PROPOSED PLAN



PROPOSED ELEVATION - NORTH FROM B0  
*TRADITIONAL FRAME*



# Questions or Comments

## MODERATOR

**Carly Bond**, Historic Preservation Specialist

## PRESENTERS / PANELISTS

**Brenda Sanchez**, FAIA, Sr. Design Manager

**Christopher Lethbridge**, Architect/Program Manager

**Beth Ziebarth**, Director, Accessibility Program

**Lauren Brandes**, RLA, ASLA, Smithsonian Gardens

**Matthew Chalifoux**, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC

**Anthony Bochicchio**, AIA, Project Manager, EYP-Loring, LLC

**Faye Harwell**, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)



# ROOF MECHANICAL ELEMENTS HISTORIC MORPHOLOGY

# SMITHSONIAN INSTITUTION BUILDING (SIB)

Initial HVAC systems of the SIB from 1847-1865 were coal-fired with parged flue vents running from the cellars to the roof. Roof installations for HVAC were not explicitly noted in the 2009 Historic Structure Report (HSR) until the description of the late 1960s renovation. A central air conditioning system was installed during the 1968-1970 SIB renovations. Louvered plenums were installed on the roof for each of the nine air handling units placed at the following locations: the East Wing attic; on the East Range roof; the second floor of the South Tower; the second floor of the West Range's cloister; the West Wing basement; and four in the Main Building attic.

The HSR further notes then current critical mechanical system degradation due to deferred maintenance and calls for total replacement. In support, many effected elements were assessed and suggested for retention or replacement. The HSR encourages vent hoods be removed if they have been abandoned and do not impact the character of the historic roof profile.



North façade in 1895 with the mushroom vent at the center of the West Range. Image from the Smithsonian Institution Archives.



Northeast façade in 1975 with visible equipment on north entry hyphen.



1883 view of the East Range showing previous vent stacks. Image from the Smithsonian Institution Archives.



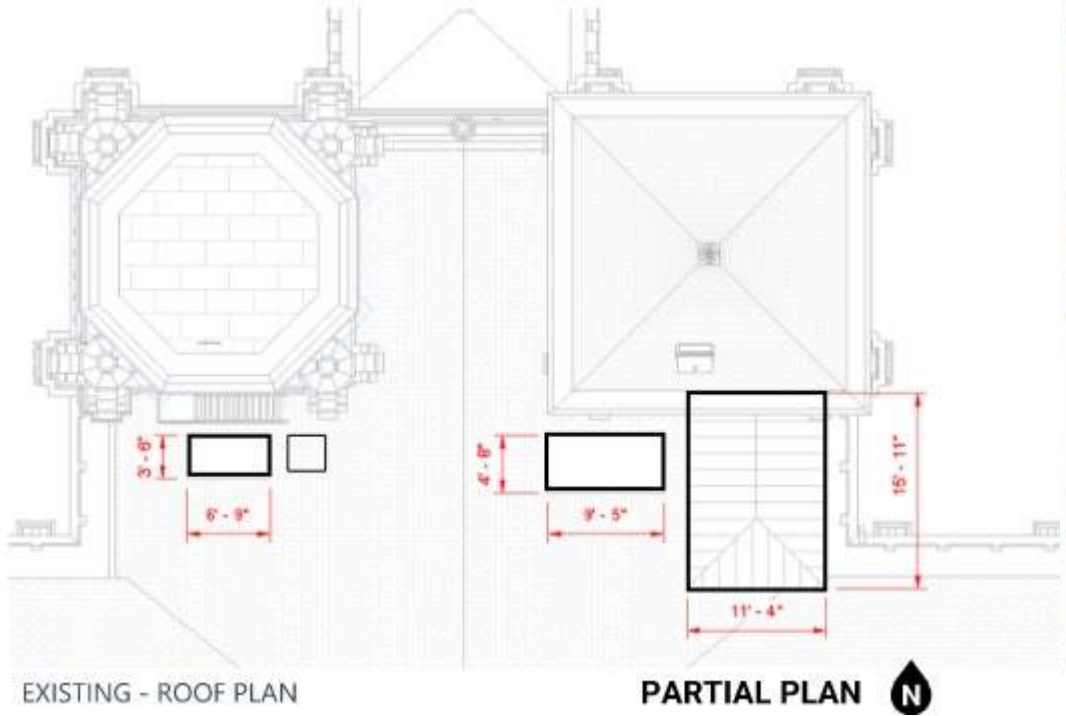
1950 North Tower and Main Roof showing established mechanical equipment. Image from the Smithsonian Archives.

# ROOF MECHANICAL ELEMENTS

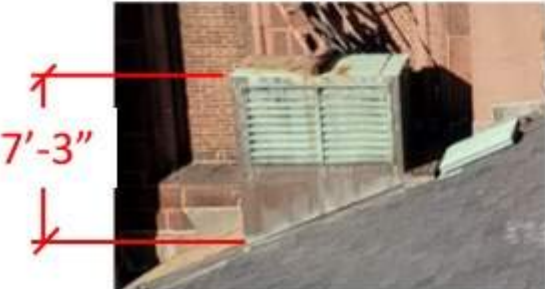
## EXISTING CONDITION

# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | EXISTING PENTHOUSES  
ROOF PLAN



EXISTING - VIEW FROM ROOF



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN** | EXISTING PENTHOUSES  
VISIBILITY FROM JEFFERSON DRIVE & NATIONAL MALL



# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | EXISTING PENTHOUSES  
VISIBILITY FROM JEFFERSON DRIVE & NATIONAL MALL



A

B

C

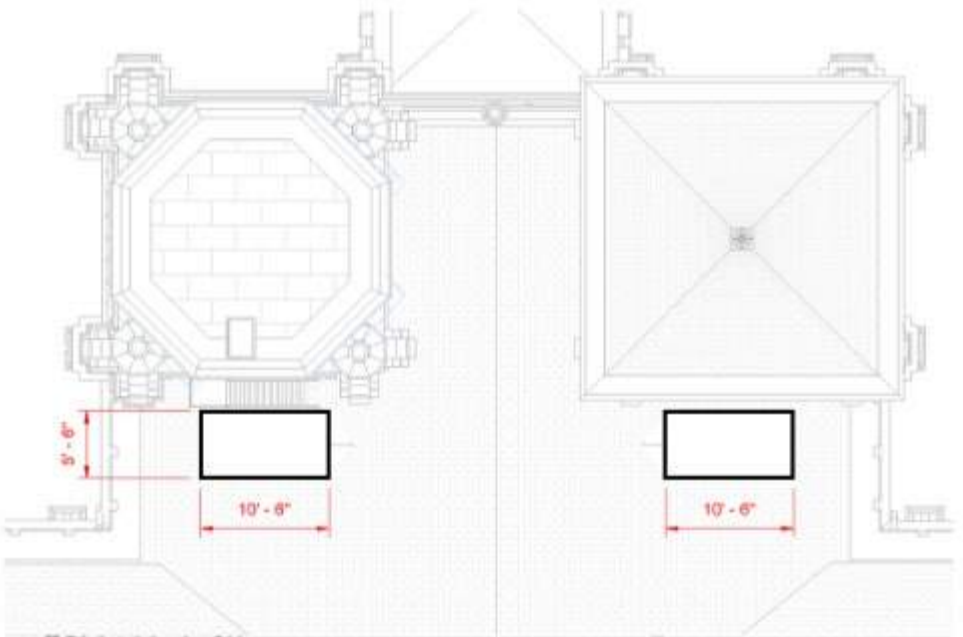
D

# ROOF MECHANICAL ELEMENTS PREVIOUSLY PRESENTED



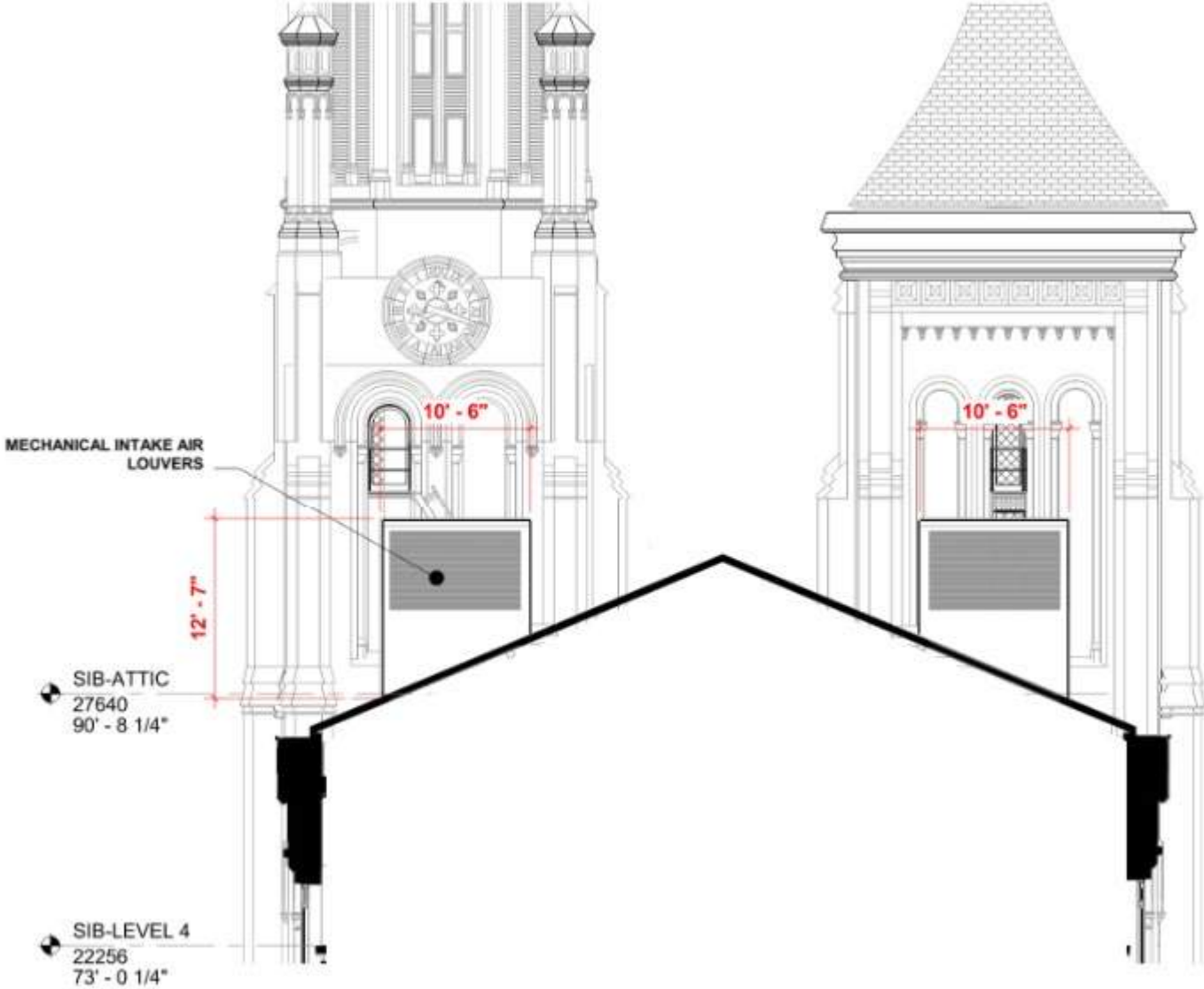
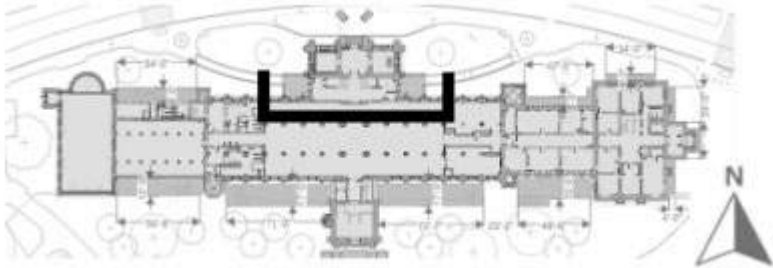
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**  
ROOF PLAN + SOUTH ELEVATION  
PRESENTED AT CP MEETING #10



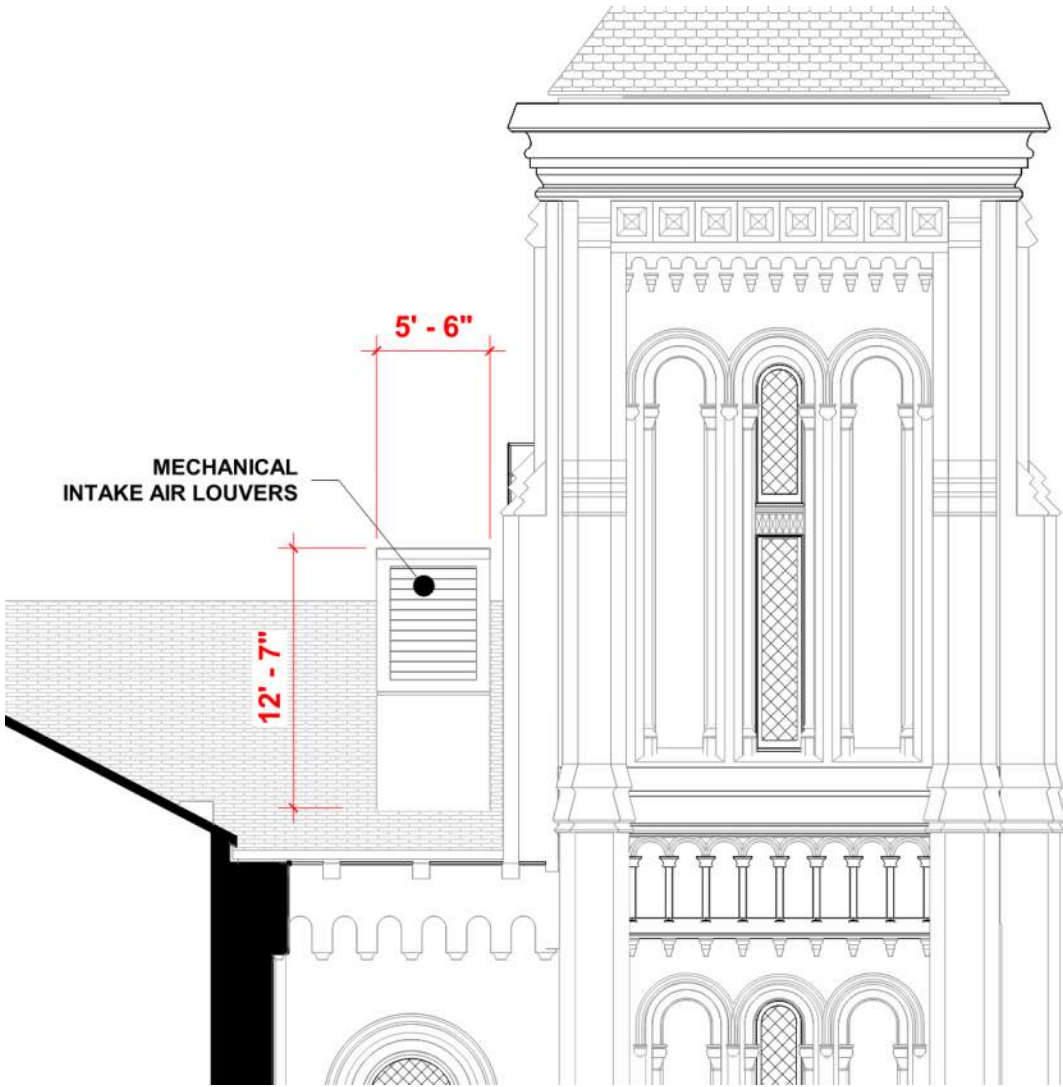
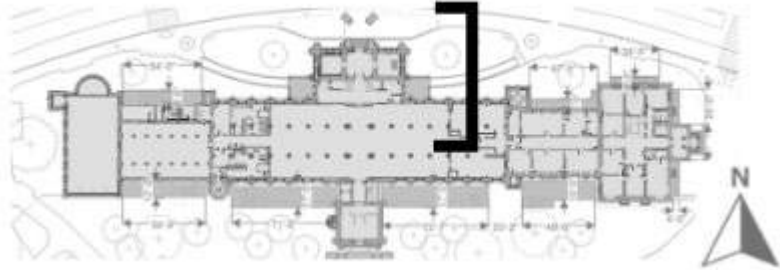
PROPOSED - ROOF PLAN

PARTIAL PLAN 



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**  
EAST ELEVATION  
*PRESENTED AT CP MEETING #10*

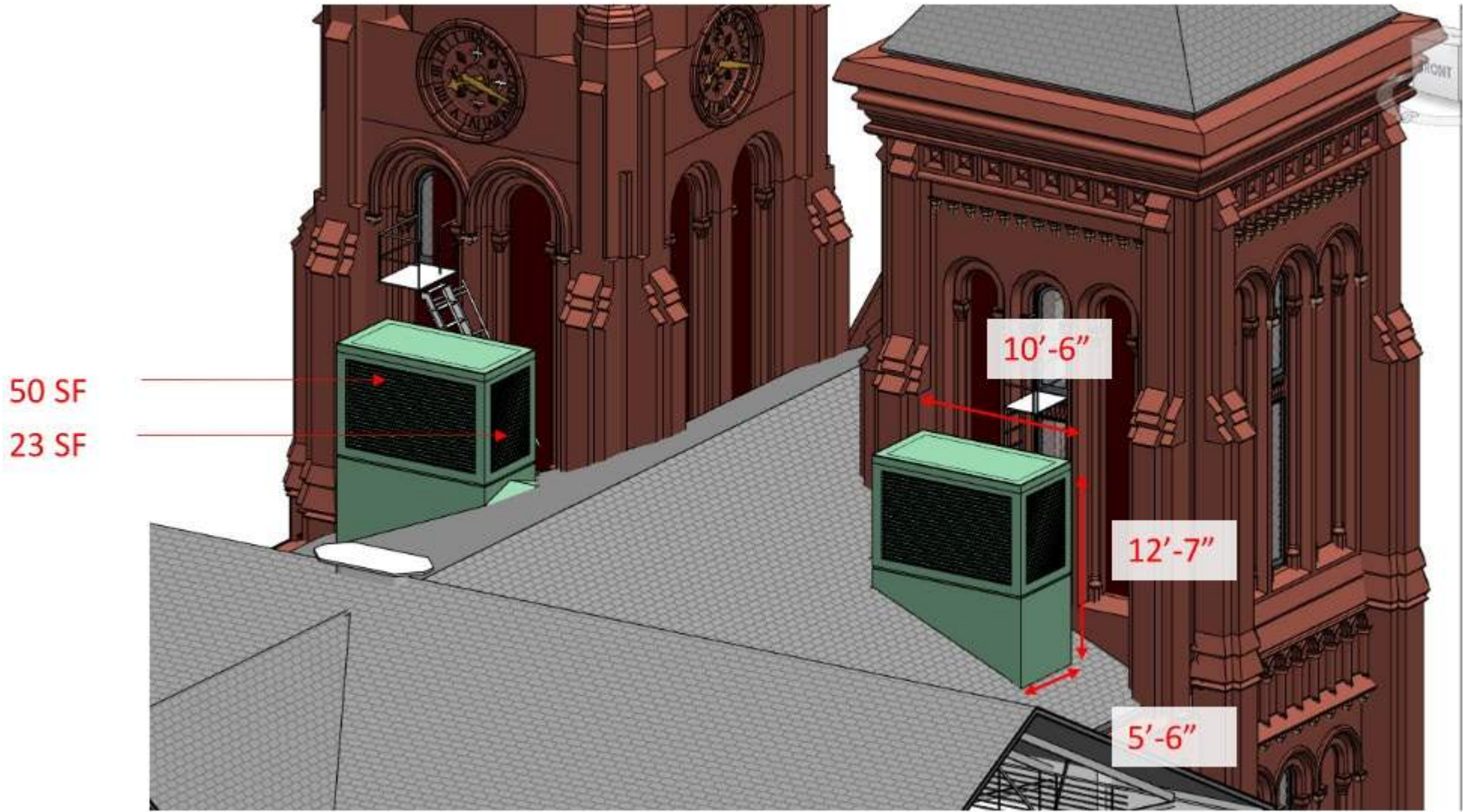


# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)

VISUALIZATION

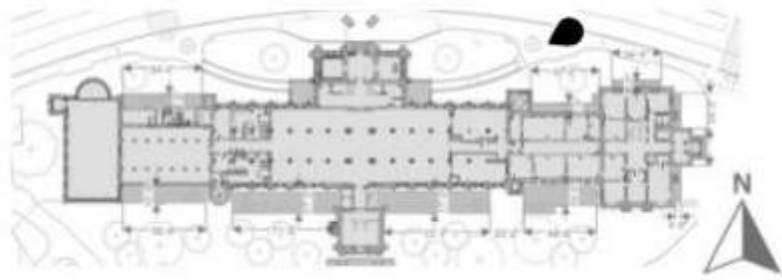
PRESENTED AT CP MEETING #10



**96 SF  
PER PENTHOUSE**

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**  
PERSPECTIVE FROM PATH  
*PRESENTED AT CP MEETING #10*



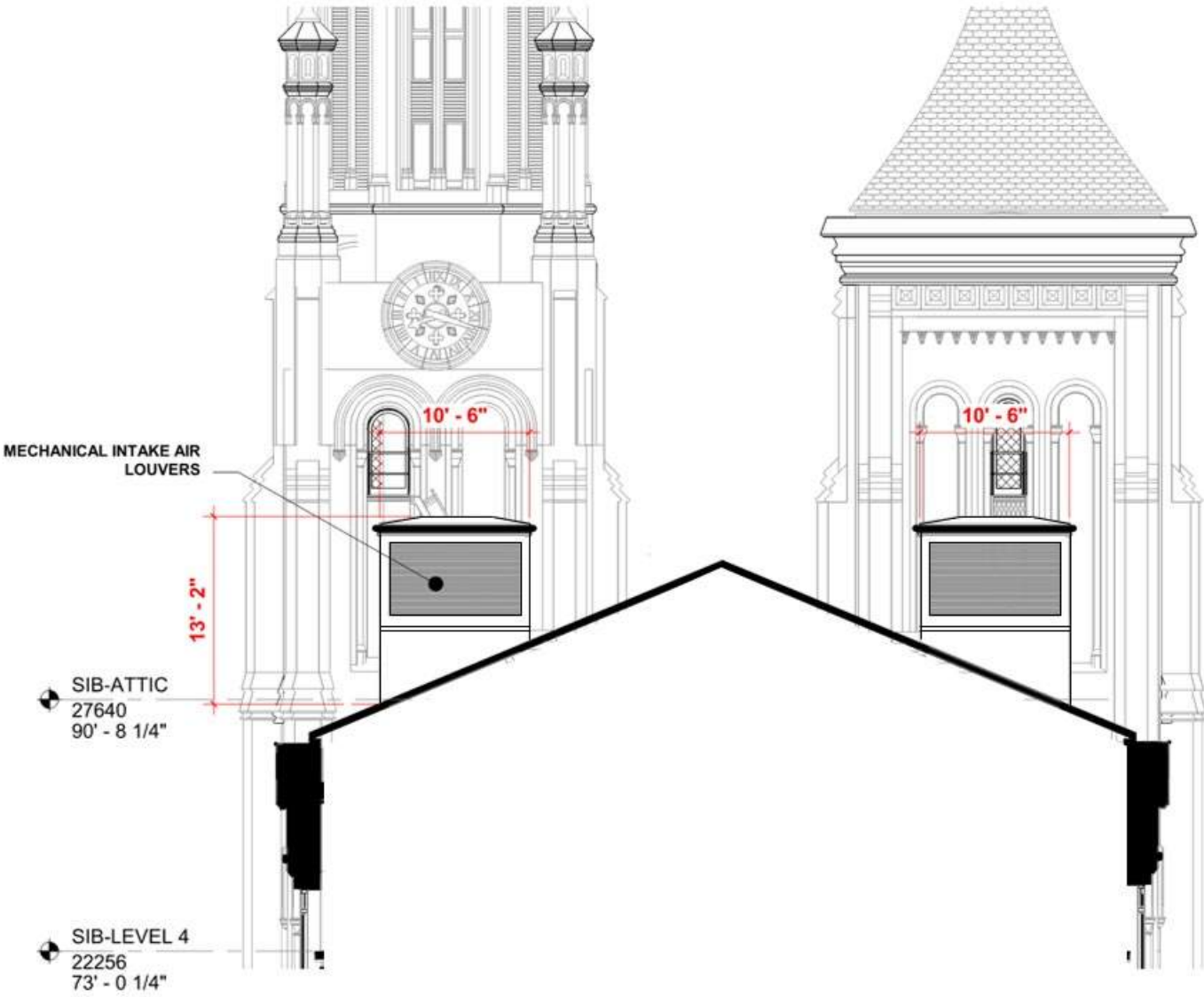
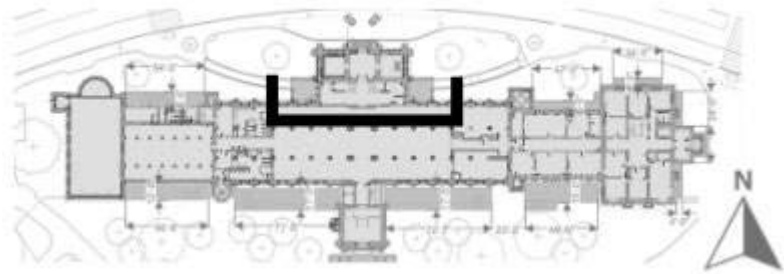
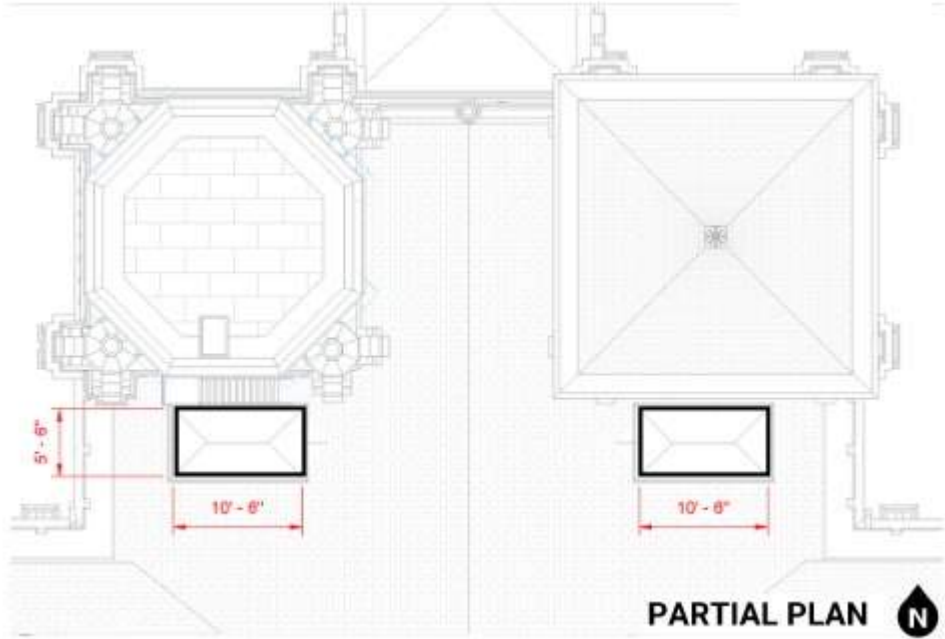
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

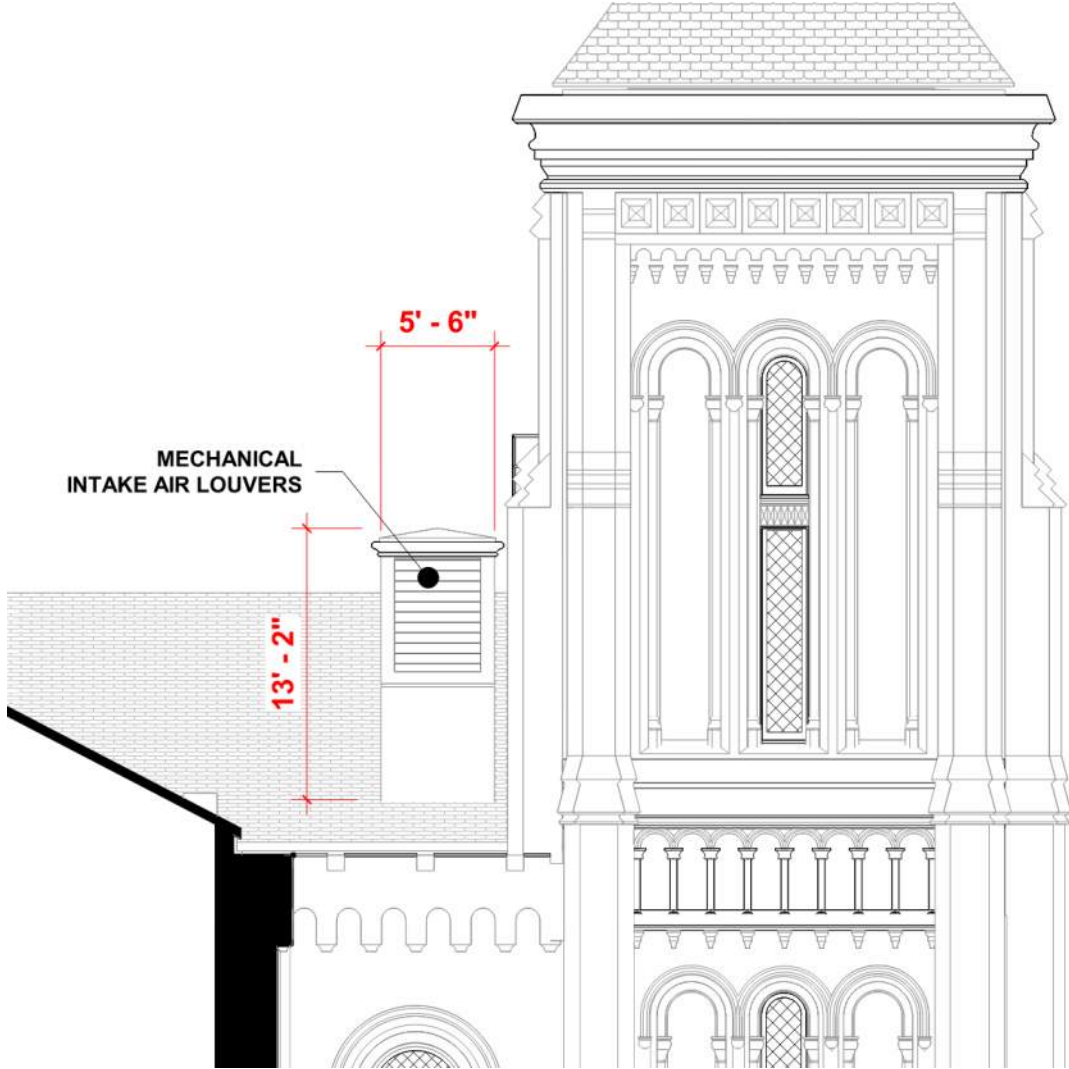
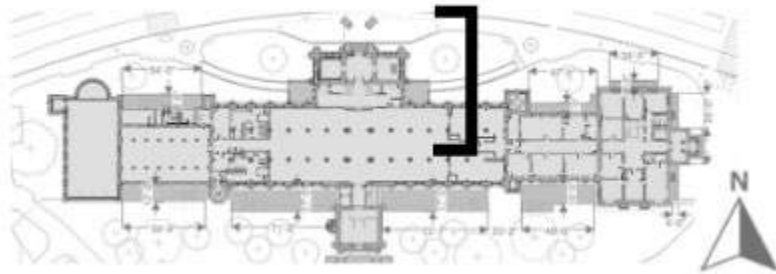
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (HIP ROOF)**  
ROOF PLAN + SOUTH ELEVATION  
PRESENTED AT CP MEETING #10



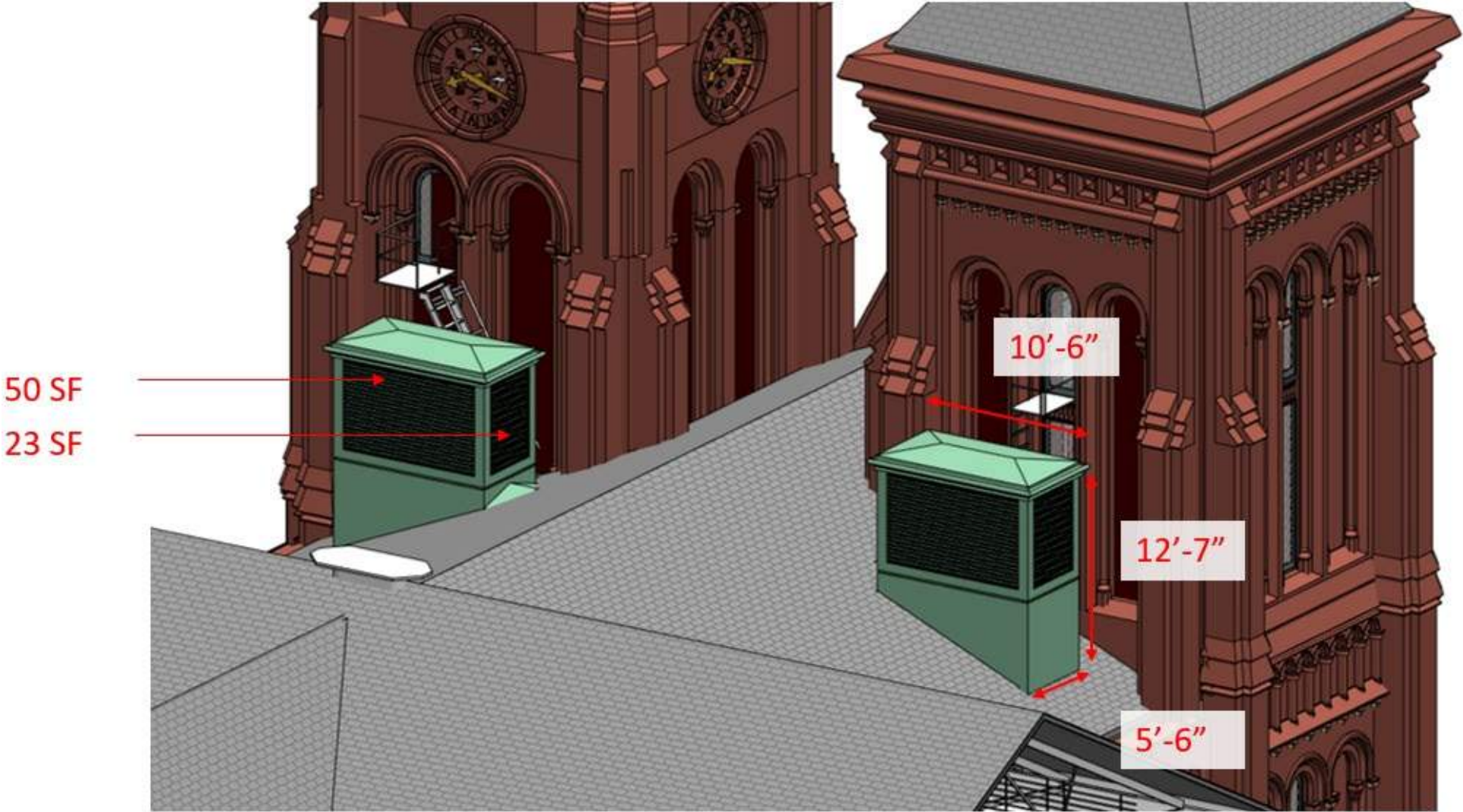
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (HIP ROOF)**  
EAST ELEVATION  
*PRESENTED AT CP MEETING #10*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

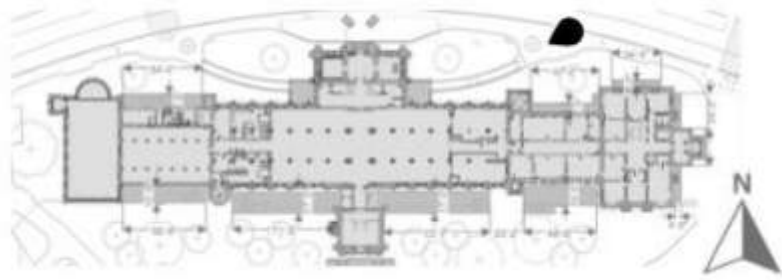
**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (HIP ROOF)**  
VISUALIZATION  
PRESENTED AT CP MEETING #10



**96 SF  
PER PENTHOUSE**

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (HIP ROOF)**  
PERSPECTIVE FROM PATH  
*PRESENTED AT CP MEETING #10*



EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

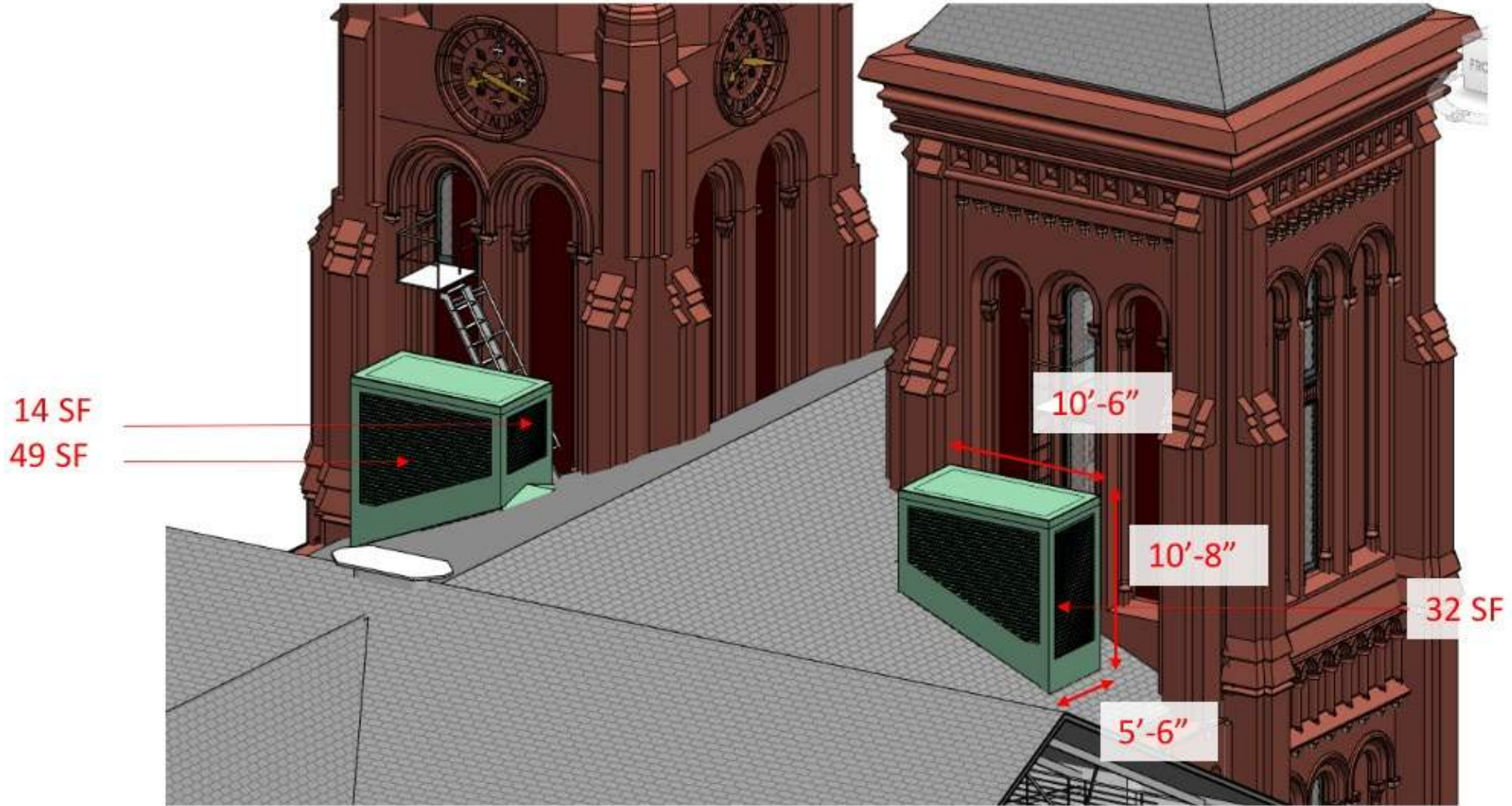


# ROOF MECHANICAL ELEMENTS ADDITIONAL OPTIONS

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION ALTERNATIVE – OPTION 1

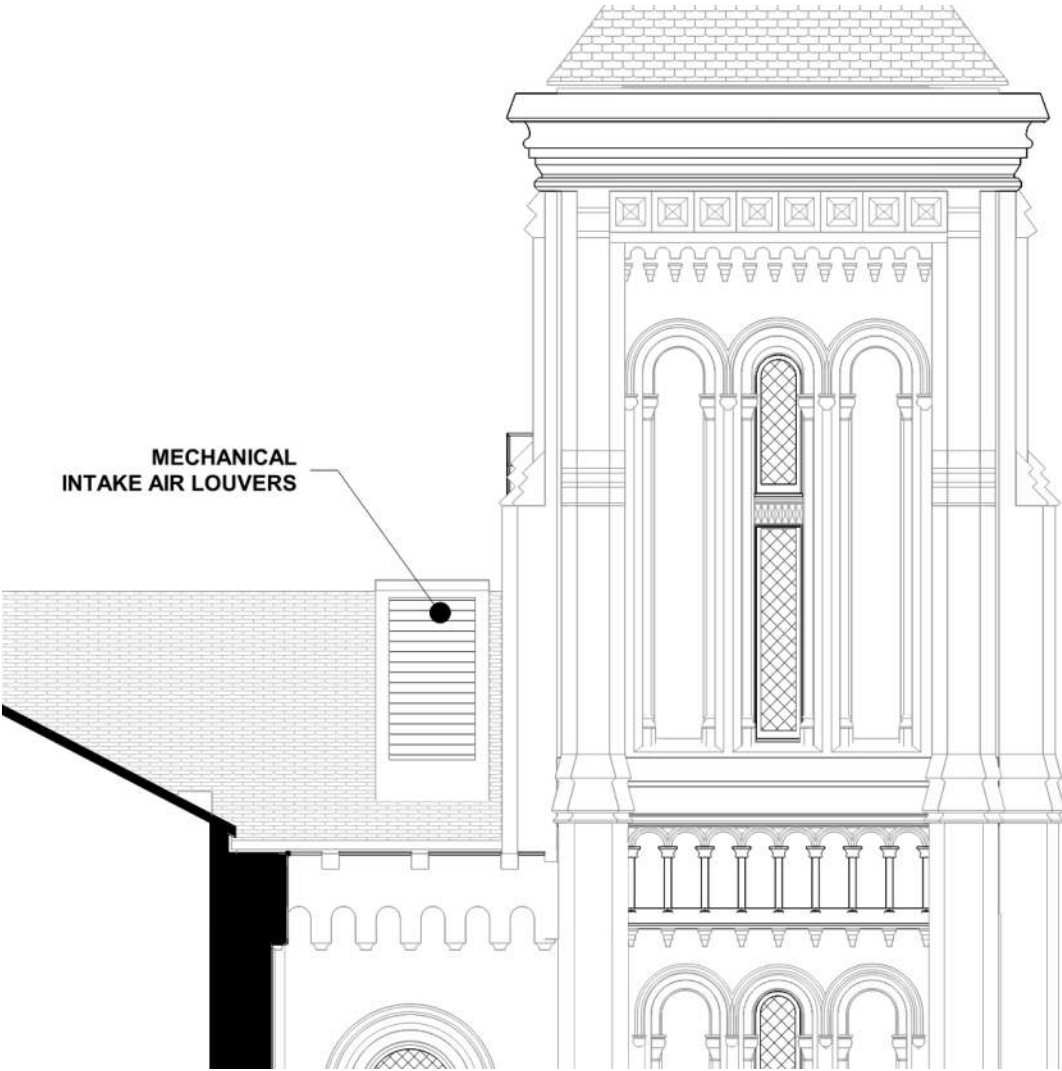
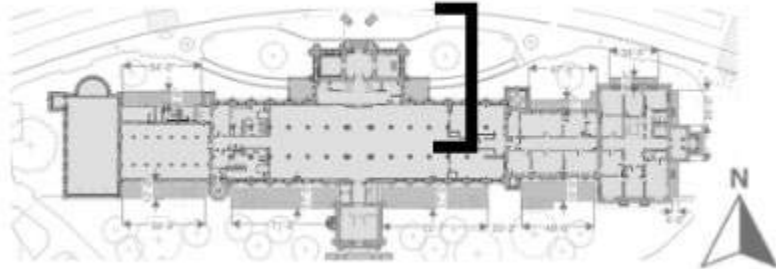
- louvers match roof slope
- reduces height by approx. 2'-0"



**95 SF  
PER PENTHOUSE**

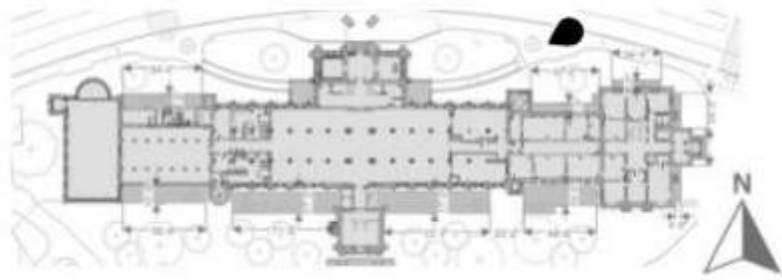
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 1*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 1*



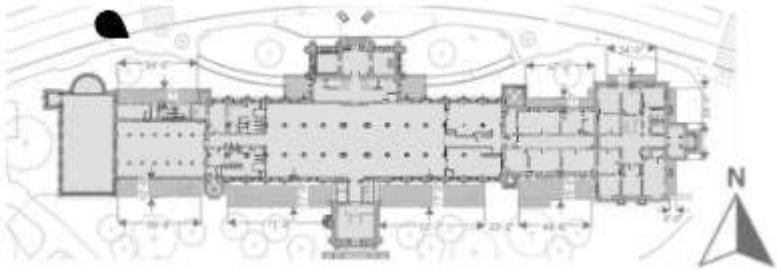
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 1*



EXISTING VIEW FROM PATH

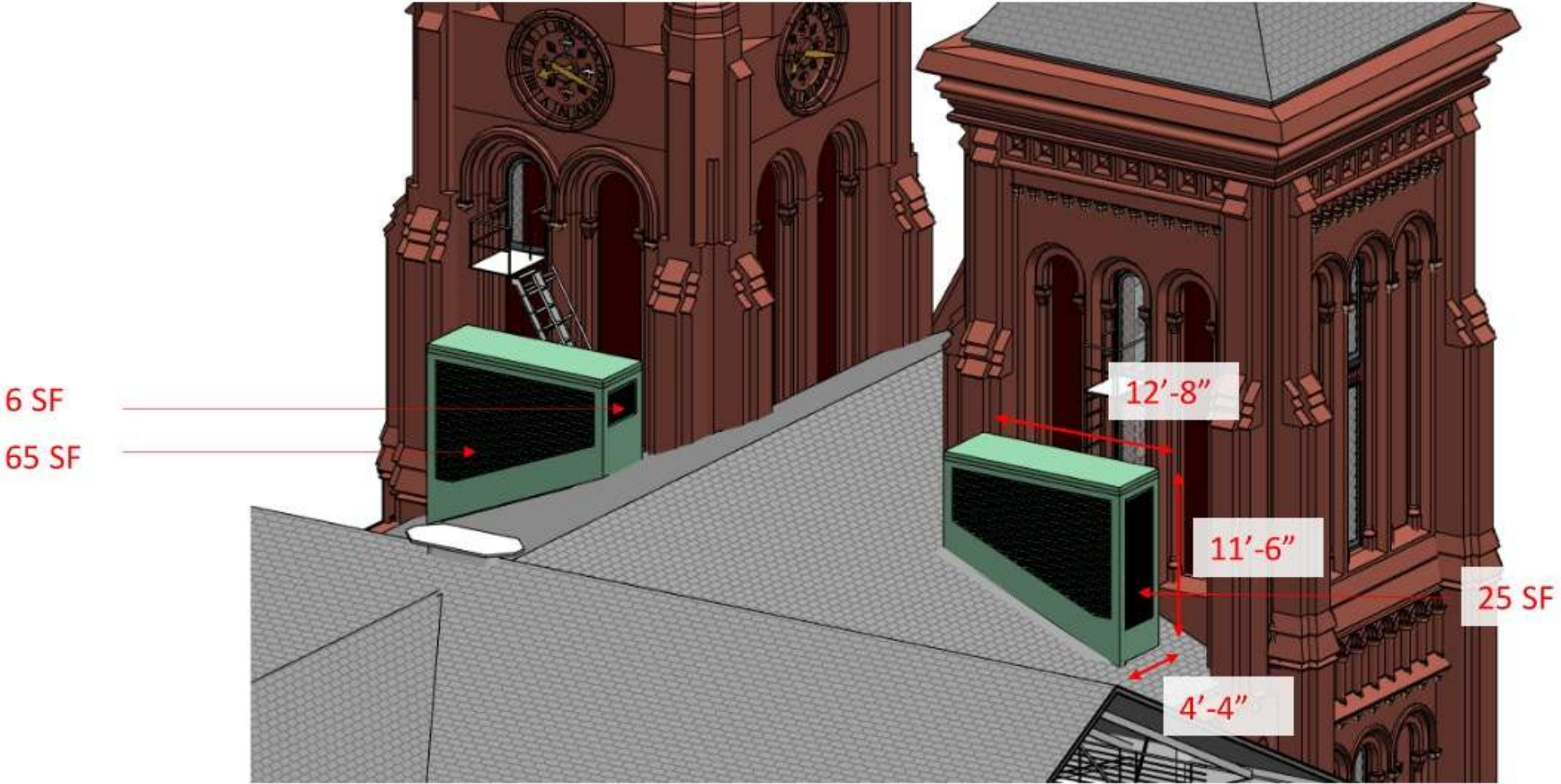


PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION ALTERNATIVE – OPTION 2

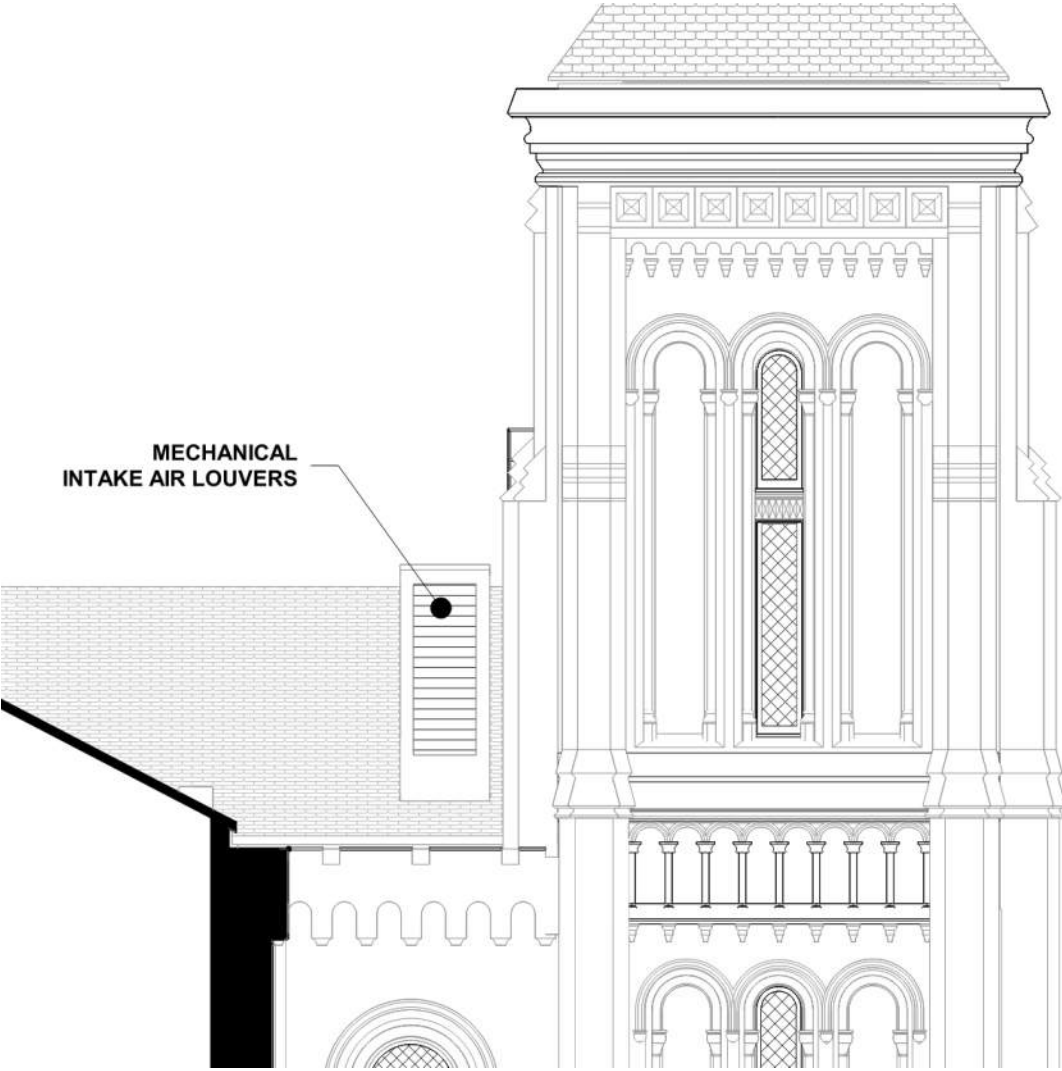
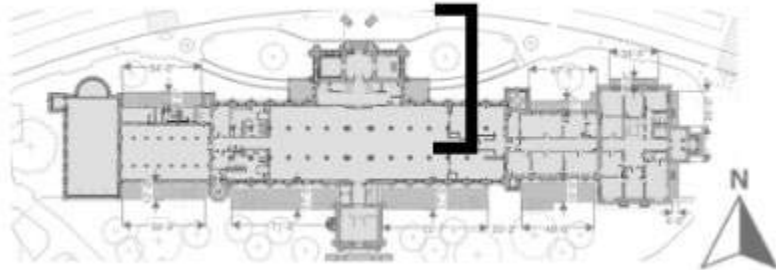
- louvers match roof slope
- reduces width by approx. 1'-2"
- reduces height by approx. 1'-0"



**96 SF  
PER PENTHOUSE**

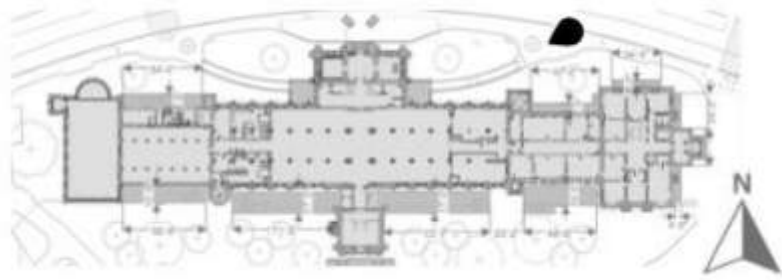
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 2*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 2*



EXISTING VIEW FROM PATH

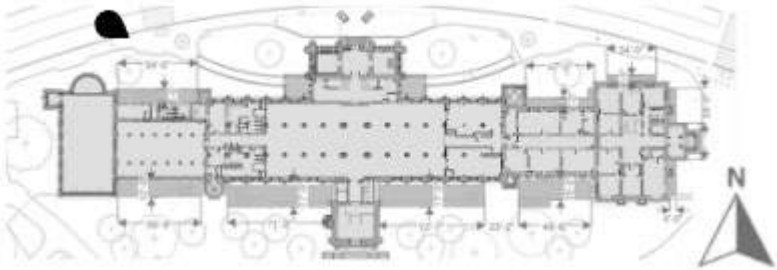


PROPOSED VIEW FROM PATH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 2*



EXISTING VIEW FROM PATH

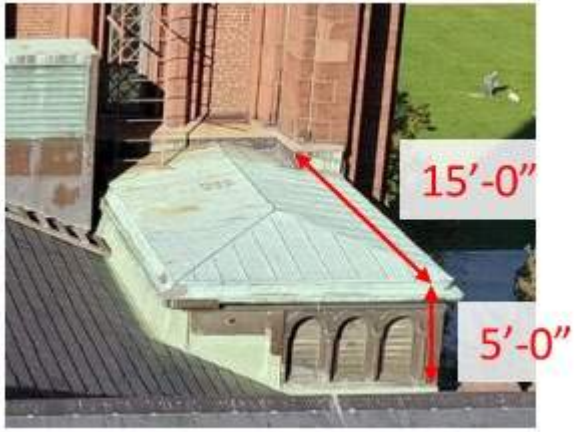


PROPOSED VIEW FROM PATH

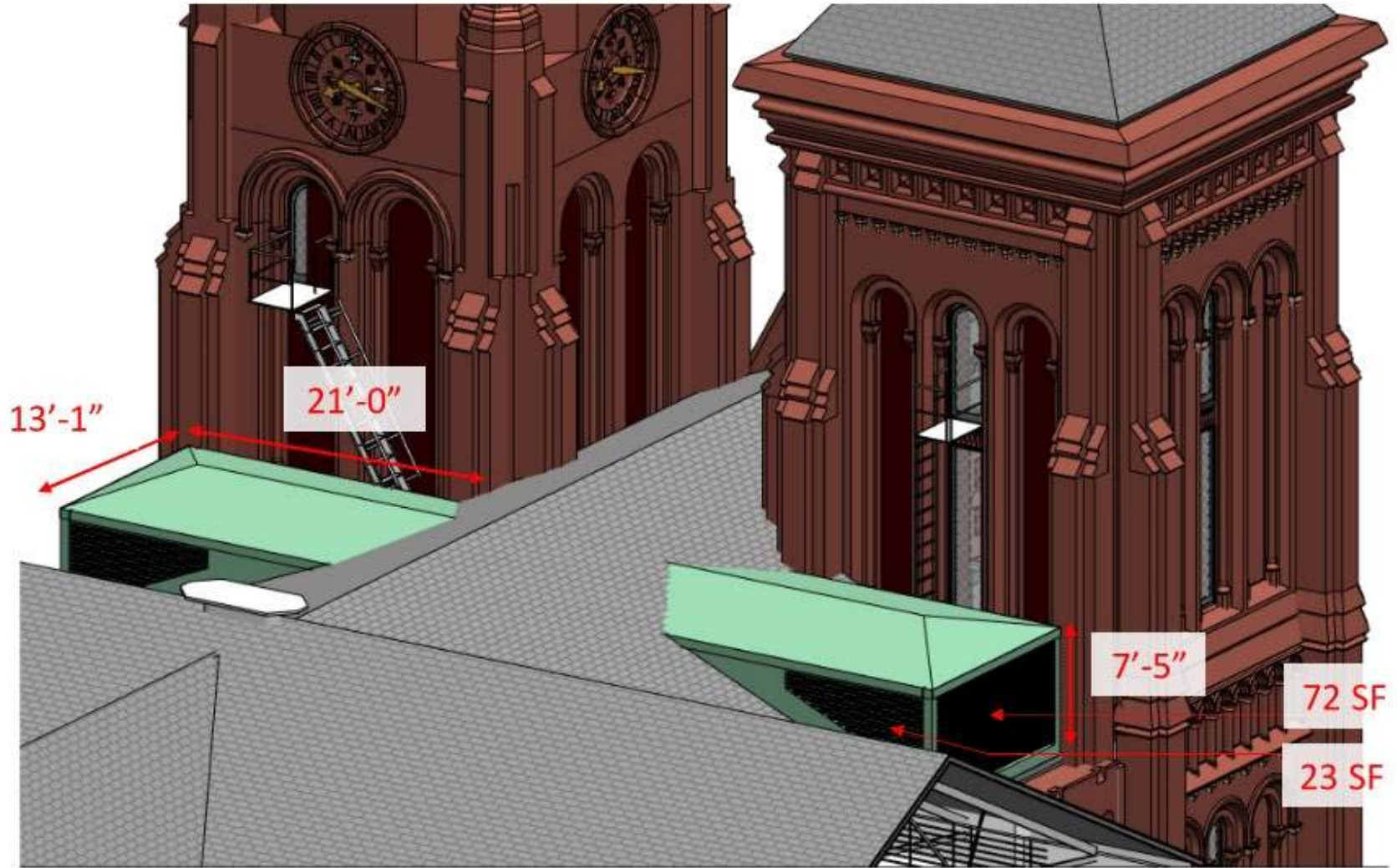
# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES  
VISUALIZATION  
ALTERNATIVE – OPTION 3

- Penthouse design driven by existing elevator overrun
- increases width of CP10 design by approx. 7'-7"
- reduces height by approx. 5'-0"

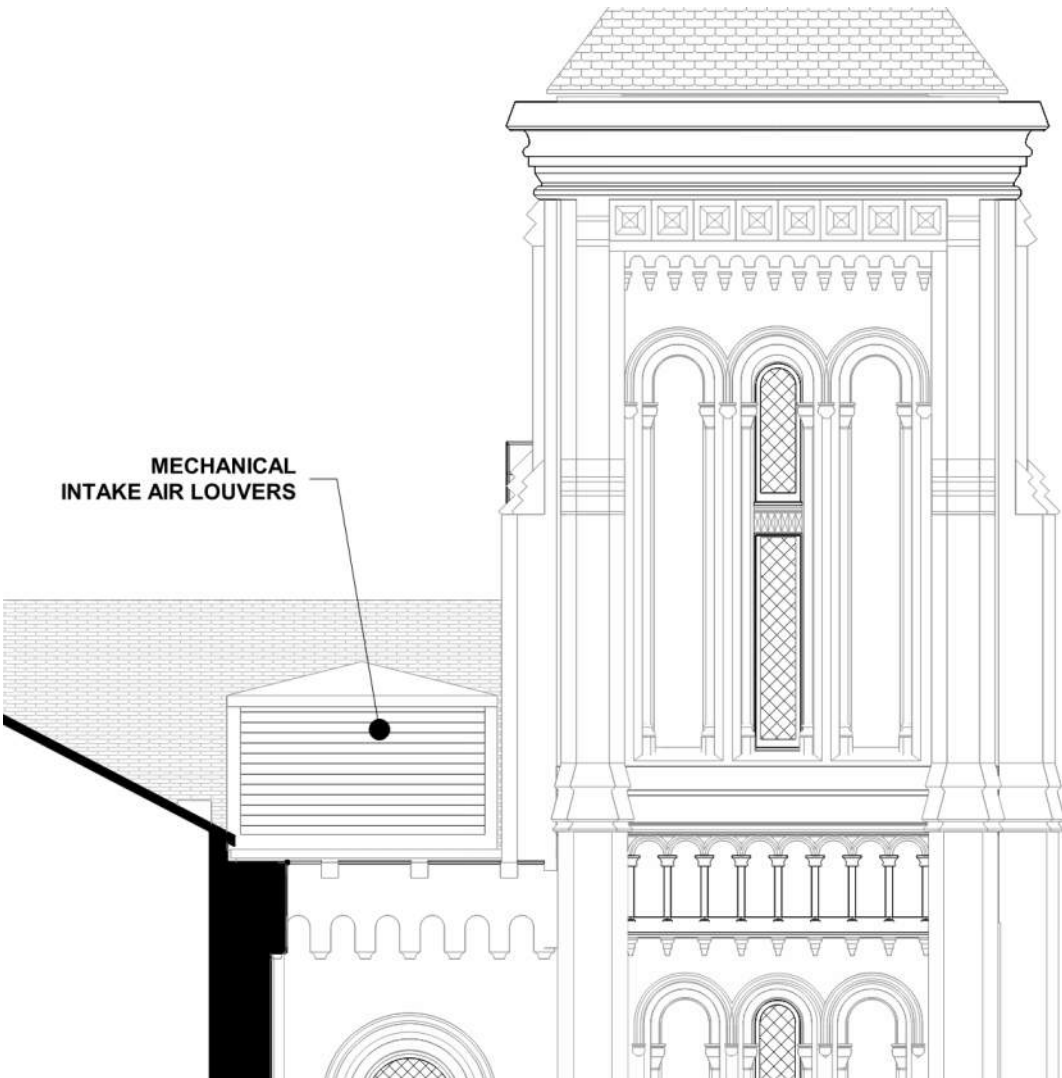
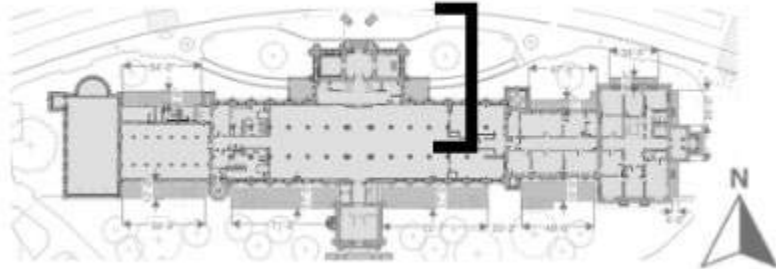


**96 SF  
PER PENTHOUSE**



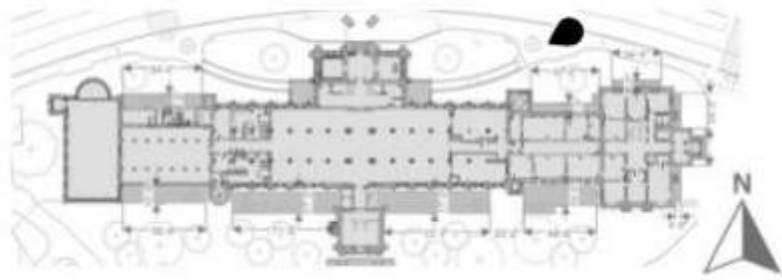
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 3*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 3*



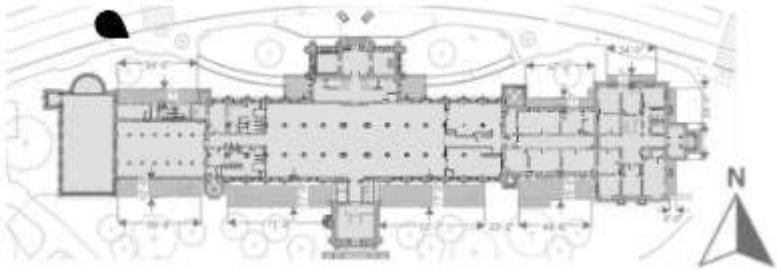
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 3*



EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

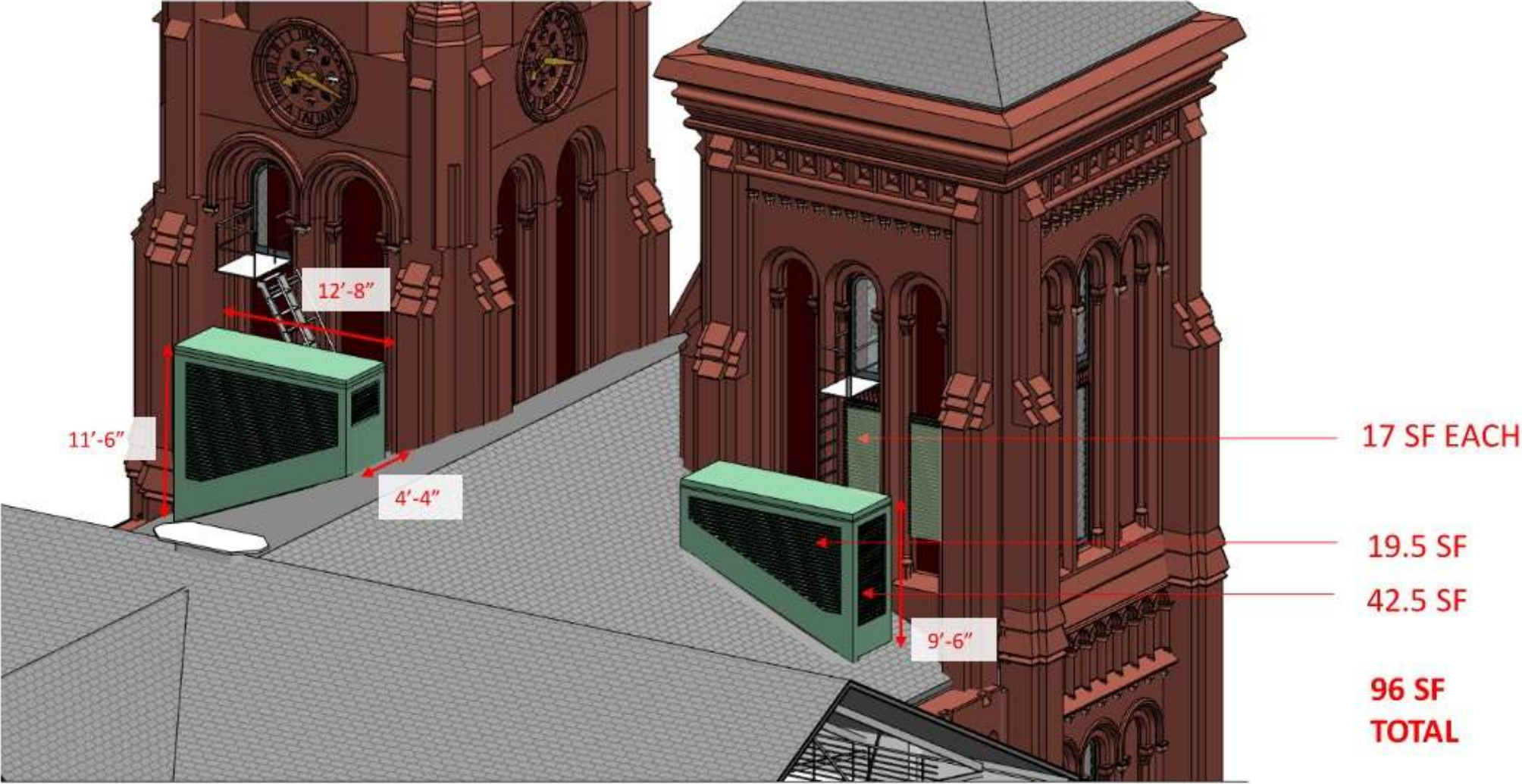
# ROOF MECHANICAL ELEMENTS

ADDITIONAL OPPORTUNITIES TO MINIMIZE  
VISIBILITY OF LOUVER AREA

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
ALTERNATIVE – OPTION 4

- Louvers placed between levels 6 & 7
- Reduces east penthouse height by 2'-0"

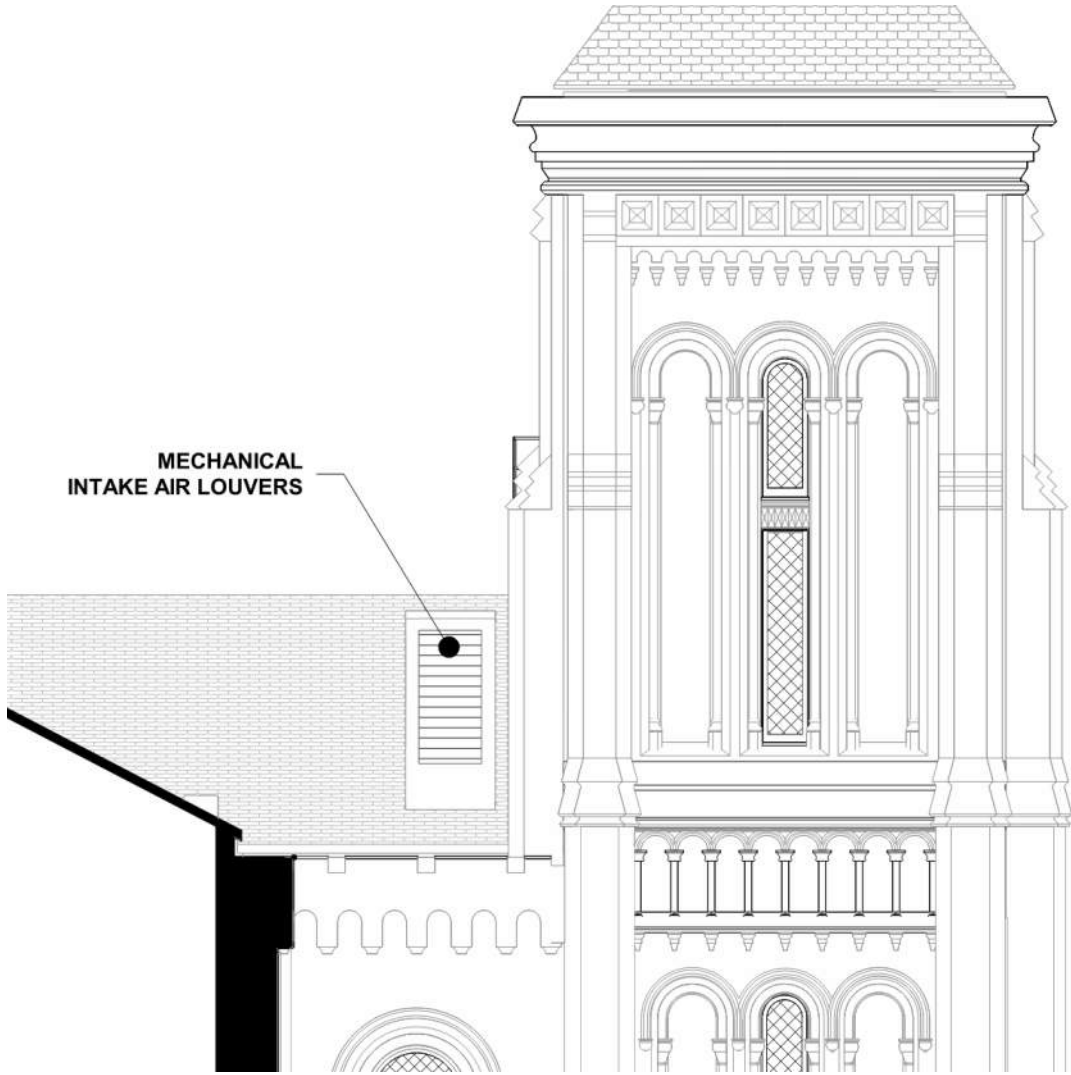
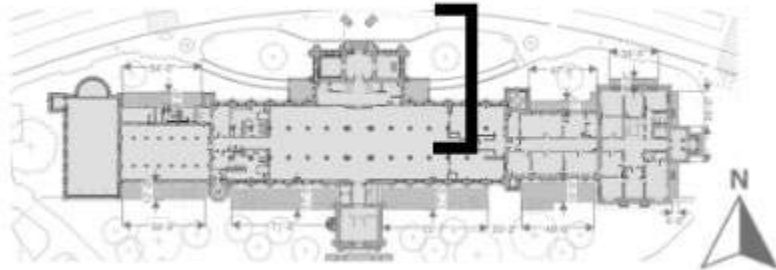


**96 SF  
TOTAL**

**17 SF EACH**  
**19.5 SF**  
**42.5 SF**  
**96 SF  
TOTAL**

# SMITHSONIAN INSTITUTION BUILDING (SIB)

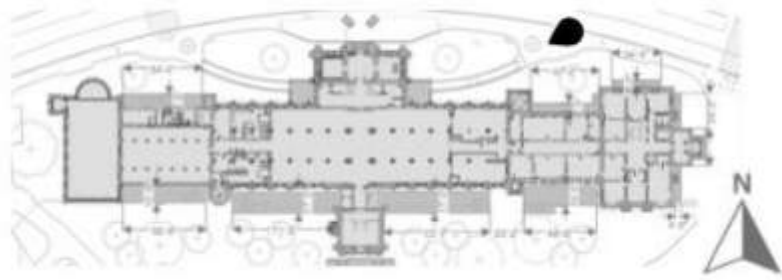
**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 4*





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 4*



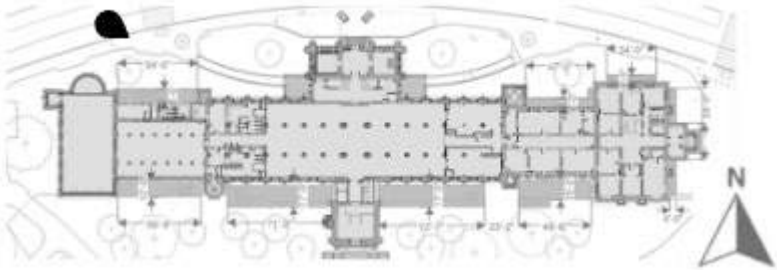
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 4*



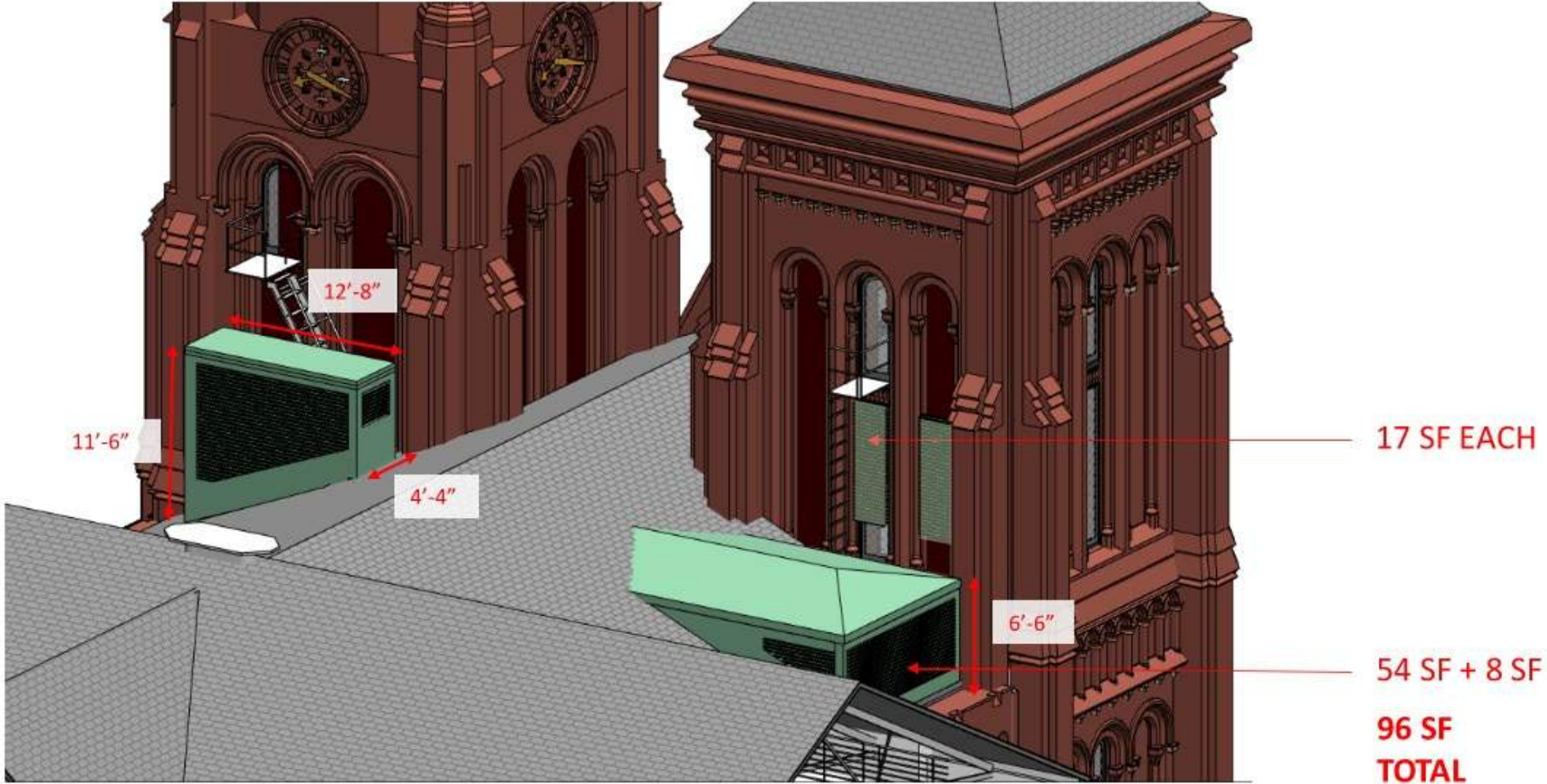
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
ALTERNATIVE – OPTION 5

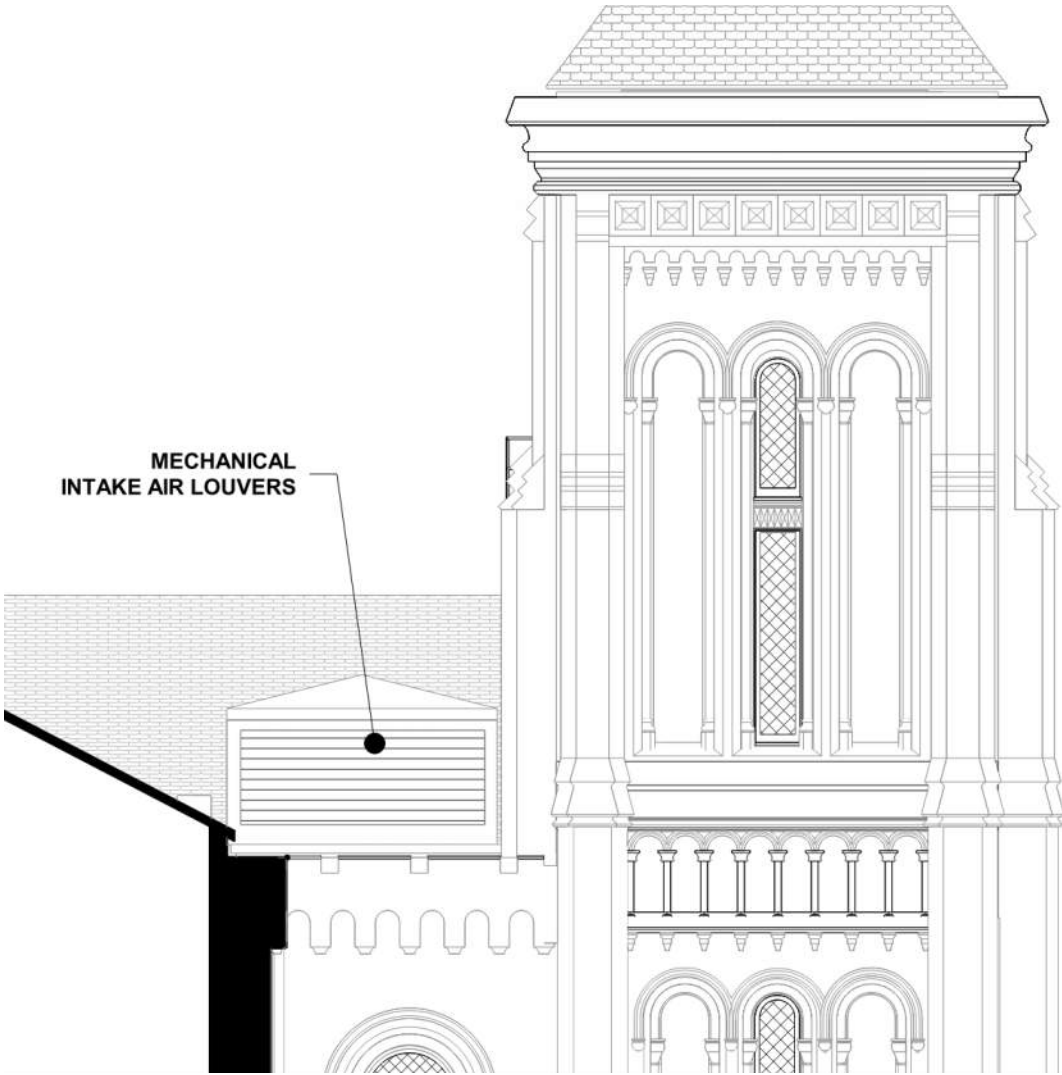
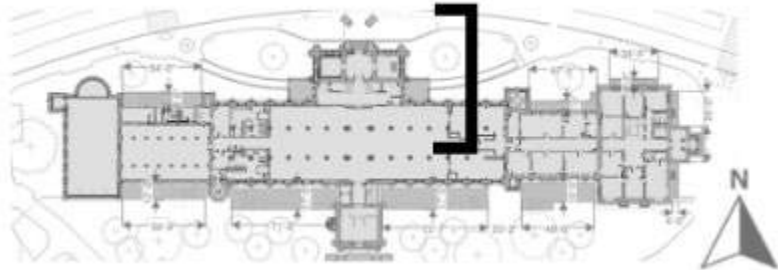
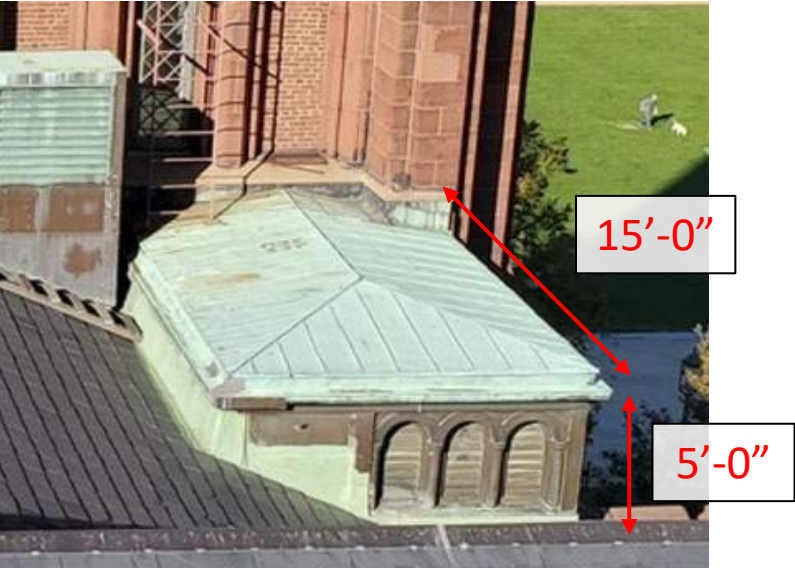


Louvers placed between levels 6 & 7  
Reduces east penthouse height by 6'-0"

**96 SF  
TOTAL**

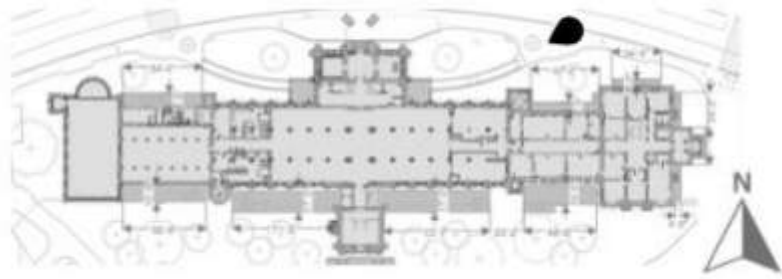
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
ALTERNATIVE – OPTION 5



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 5*



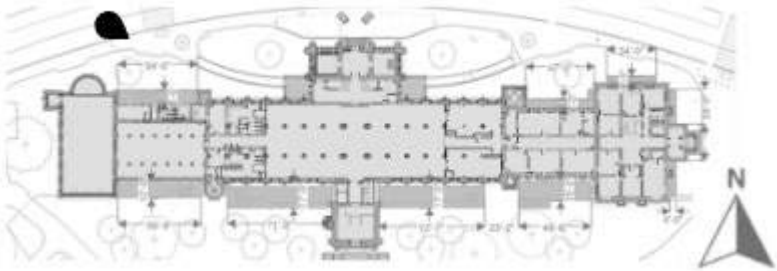
EXISTING VIEW FROM PATH



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*ALTERNATIVE – OPTION 5*



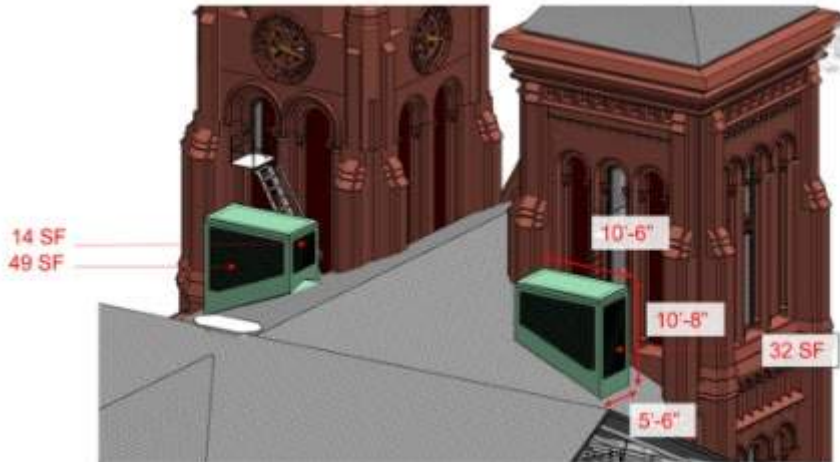
EXISTING VIEW FROM PATH



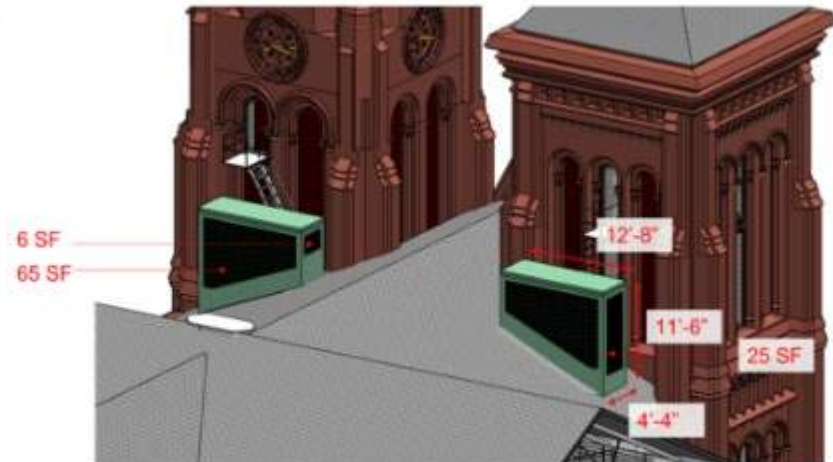
PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

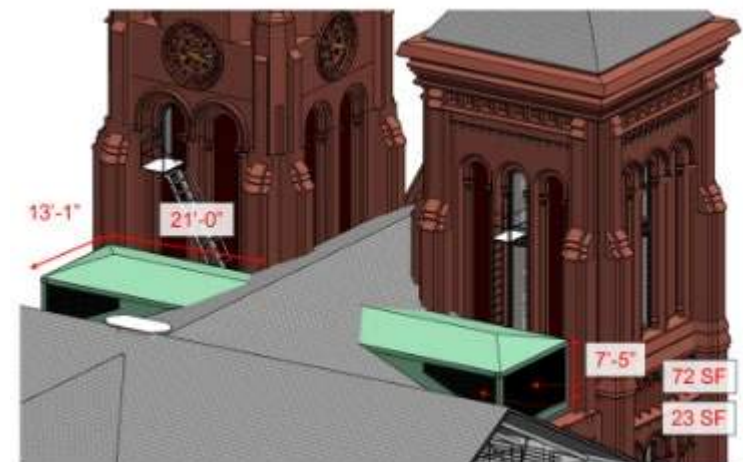
**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
 VISUALIZATION  
 COMPARISON OF OPTIONS



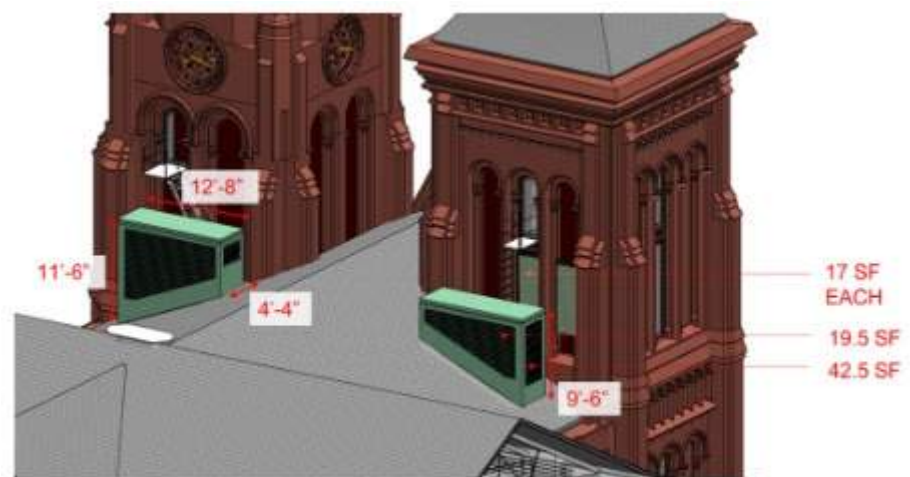
OPTION 1



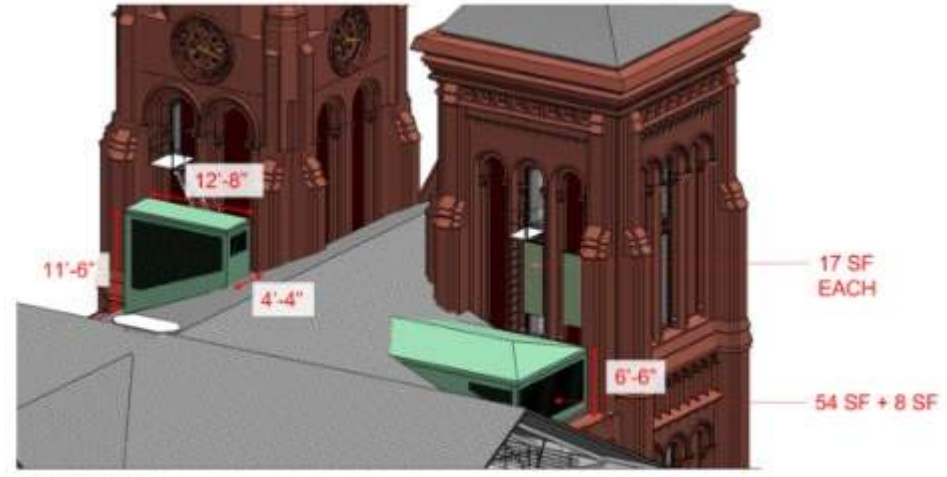
OPTION 2



OPTION 3



OPTION 4



OPTION 5

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
COMPARISON OF OPTIONS



OPTION 1



OPTION 2



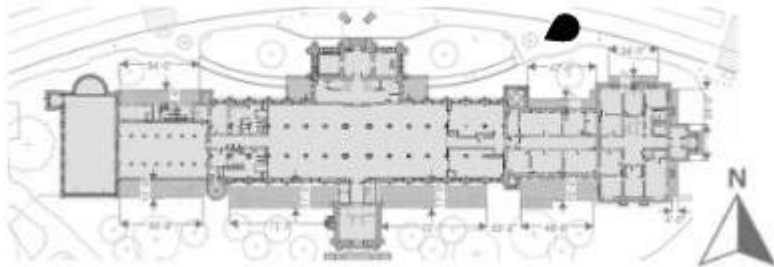
OPTION 3



OPTION 4



OPTION 5





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*COMPARISON OF OPTIONS*



OPTION 1



OPTION 2



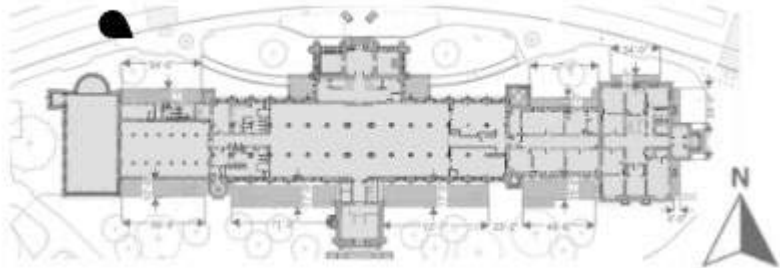
OPTION 3



OPTION 4



OPTION 5



# LIGHTNING PROTECTION

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LIGHTNING PROTECTION | EXISTING

Lightning protection was implemented with the original design of the SIB in the form of wrought-iron lightning rods on the Flag Tower, Campanile, Octagon Tower, West Tower, and the Southeast Tower. The rods were 10' taller than the tower tops furnished with elbows, glass thimbles, and platina points. The only remaining material from the system are the metal support loopholes found on the West Tower and East Tower chimney, as noted in the 2009 Historic Structure Report. In 2005, the Southeast Tower required reconstruction after being struck by lightning. Existing lightning protection is focused on the Flag Tower, Southeast Tower, and East Wing.



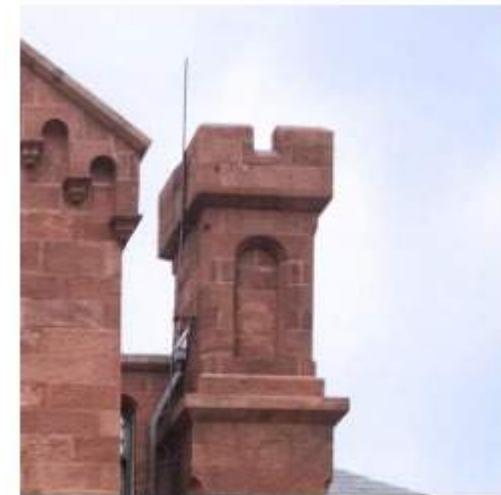
*Image from 1862 of the East Wing showing an air terminal on the tower. Image from the Smithsonian Archives.*



*Image of the West Tower with lightning protection running up to an air terminal taken ca. 1930. Image from the Smithsonian Institution Archives.*



*Image of the Octagon Tower damage from a lightning strike in 2005. Photo taken by Rick Stamm.*



*Images of the northeast tower on the east façade with lightning protection running up to an air terminal.*

# Upcoming Section 106 Consultation Meetings

Milestone	Date	Meeting Content *
Site Visit	April 12 OR April 19, 2023 (Separate invitation will be sent via email)	Site Visit at the Castle to review: <ul style="list-style-type: none"> <li>• Sandstone alternates</li> <li>• Seismic Control Joint materials</li> </ul>
Consulting Parties Meeting #12	April 26, 2023	<ul style="list-style-type: none"> <li>• Finishes and Railings for Areaways and Window Wells</li> <li>• Lighting</li> <li>• TBD</li> </ul>
Consulting Parties Meeting #13	May 24, 2023	<ul style="list-style-type: none"> <li>• Windows (and Interior Effects)</li> <li>• TBD</li> </ul>

## Phase 2 Section 106 Consultation Continues through 2023

*Assessment of Effects on Historic Resources Report will be revised through consultation for Phase 2 actions*

\* Subject to Change



## RoHC Revitalize Castle – Next Steps

- Phase 1 Final Submission approved by the Commission of Fine Arts on February 16, 2023
- Phase 1 Final Submission reviewed by the National Capital Planning Commission on April 6, 2023
- Consulting Parties will be notified when the PA is final and executed
- Consultation on this project isn't going to stop. Please stay with us for Phase 2.
- Thank for your support and assistance with this critical project!
  
- Comments are welcoming in writing anytime to: [BondC@si.edu](mailto:BondC@si.edu)
- Contact Carly with questions or any trouble with the recurring Zoom Webinar.



Please visit the project webpage:

<https://www.sifacilities.si.edu/historic-core>



# Questions or Comments

## MODERATOR

**Carly Bond**, Historic Preservation Specialist

## PRESENTERS / PANELISTS

**Brenda Sanchez**, FAIA, Sr. Design Manager

**Christopher Lethbridge**, Architect/Program Manager

**Beth Ziebarth**, Director, Accessibility Program

**Lauren Brandes**, RLA, ASLA, Smithsonian Gardens

**Matthew Chalifoux**, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC

**Anthony Bochicchio**, AIA, Project Manager, EYP-Loring, LLC

**Faye Harwell**, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)



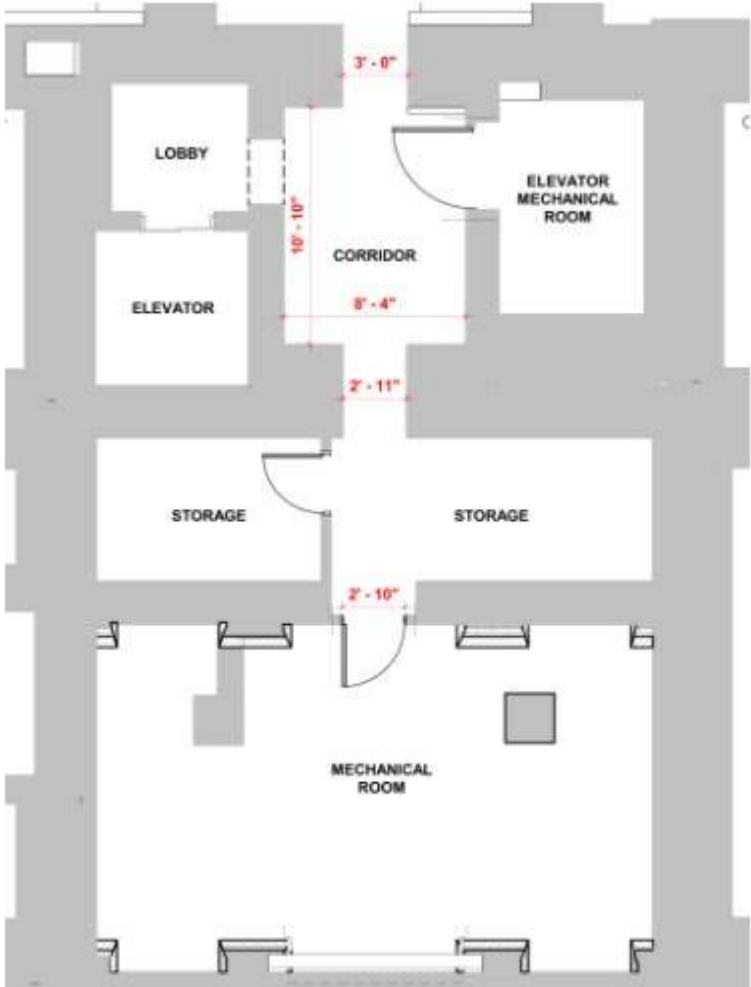


Smithsonian Institution

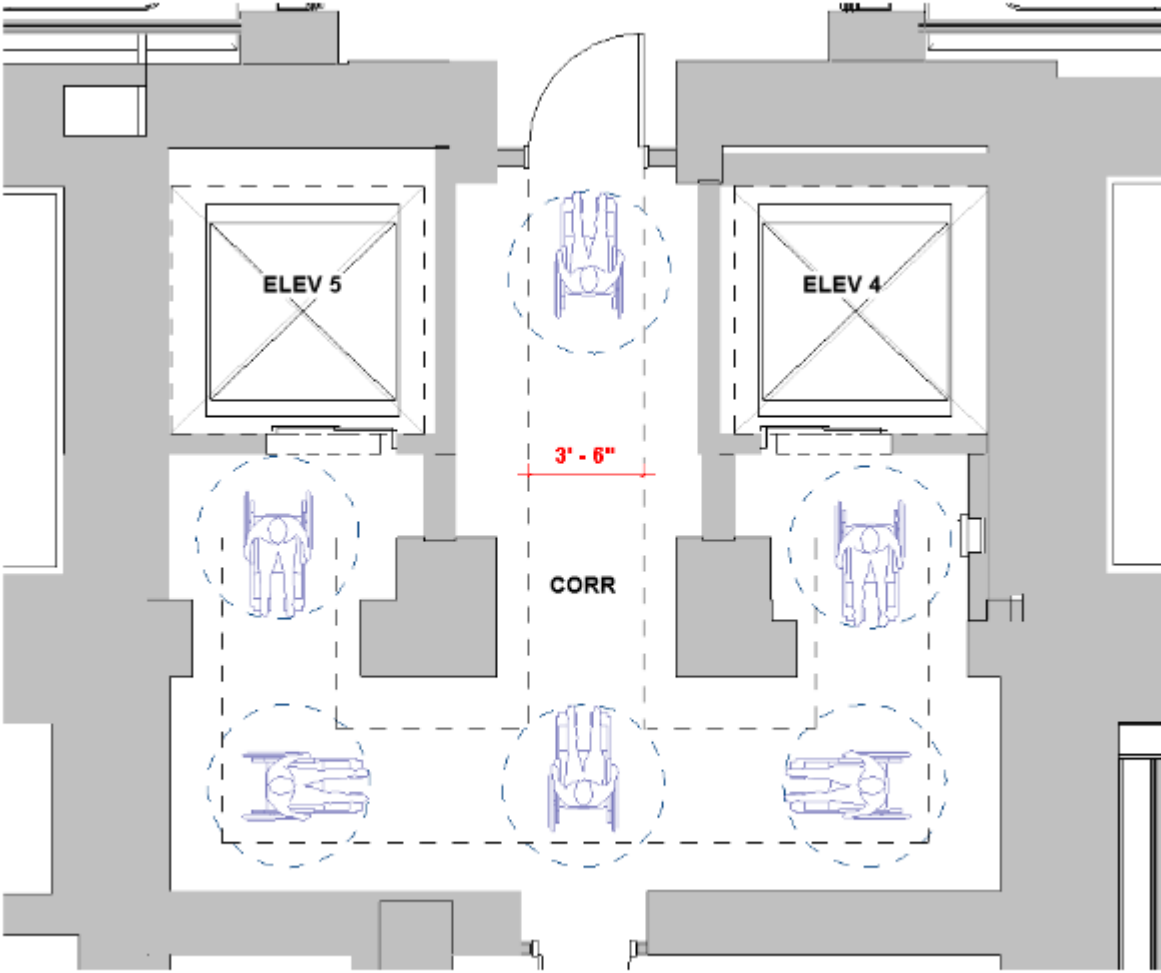


# SMITHSONIAN INSTITUTION BUILDING (SIB)

**SOUTH TOWER ELEVATOR** | INTERIOR EFFECTS  
ADDITIONAL INFORMATION ON BASEMENT ACCESSIBILITY



EXISTING PLAN



PROPOSED PLAN