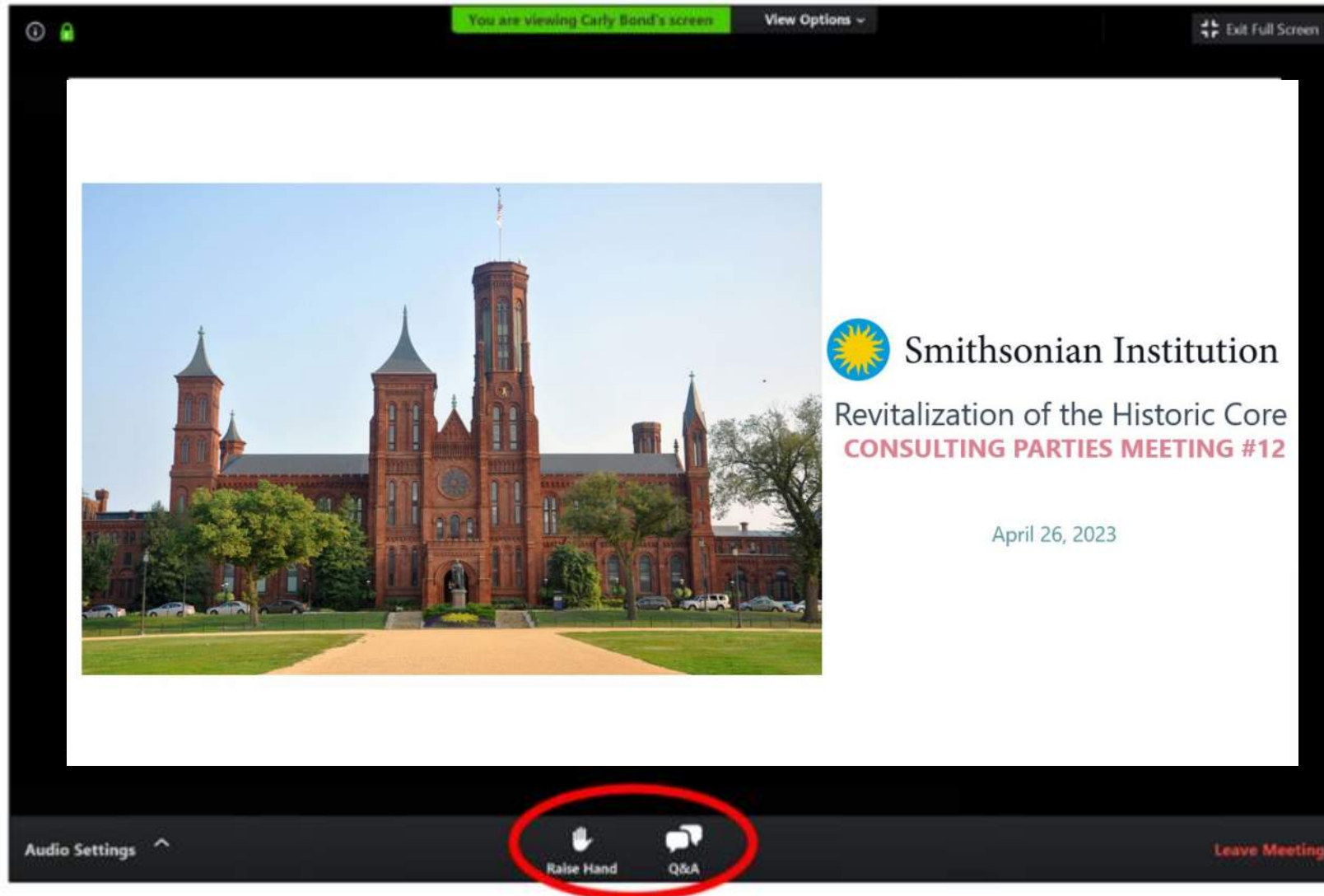


# Welcome!

The meeting will begin momentarily.



The image shows a Zoom meeting interface. At the top, there is a green status bar that says "You are viewing Carly Bond's screen". To the right of this bar are "View Options" and "Exit Full Screen" buttons. The main content area displays a slide with a photograph of the Smithsonian Institution building on the left. To the right of the photo is the text: "Smithsonian Institution" with the logo, "Revitalization of the Historic Core", "CONSULTING PARTIES MEETING #12", and "April 26, 2023". At the bottom of the Zoom window, there is a dark bar with "Audio Settings", "Raise Hand", "Q&A", and "Leave Meeting" buttons. The "Raise Hand" and "Q&A" buttons 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 #12**

April 26, 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**
  - **Roof Mechanical Elements**
    - **North Entry Hyphen - Louvered Penthouses**
  - **South Tower Elevator**
    - **Interior Effects**
  - **Windows**
    - **Extent of Existing Masonry Removals**
  - **Landscape – South Entry Ramp, Railings**
  - **Replacement Materials**
    - **Sandstone, Roofing Slate**
  - **Seismic Joint Cover**
    - **Stone Options**
- **Next Steps**

## 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.





# 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



# RoHC Revitalize Castle – Status of Design Review Items

RoHC Revitalize the Castle- Phase 2 Section 106 Consultation Design Issues				
Topic	Key Design Issues	Status	Proposed Effect Determination	CP Meeting
<b>SITE AND LANDSCAPE</b>				
New Landscape Planting Plan	Planting Plan Paving Systems	Reviewed and accepted	No Adverse Effect	CP 11
Perimeter Security	Overall layout Bollards Hardened furnishings and signs	Reviewed and accepted		CP7, CP8
Site Lighting	Jefferson Drive- Olmsted Fixtures Layout	Options reviewed		CP4
Seismic Control Joint - Finishes	Metal Finish Infill- Stone, Concrete, Pavers	Options reviewed Options reviewed		CP8 CP8
South Entrance	Plan Layout Materials Kick Rail	Options reviewed- preferences provided Preliminary presentation Preliminary presentation		CP11 CP11 CP11
North Entrance	Plan Layout Materials Railings	Reviewed and accepted Preliminary presentation Preliminary presentation	Adverse Effect	CP7, CP8  CP11
<b>ROOF AREA</b>				
South Tower Elevators- Exterior	Overrun penthouses	Reviewed and accepted	Adverse Effect	CP10
South Tower Elevators- Interior Effects	Narrowing of the center corridor North wall of Children's Room Elevator doors and devices Mosaic Tile Floor at Regents' Room Entry	Preliminary presentation Preliminary presentation Reviewed - preferences provided Preliminary presentation		CP11 CP11 CP11 CP11
Replacement of Roof Materials	Slate- match for existing (historic?)			
Roof Modifications- Energy Improvements	Dimensional changes at edges due to roof			
Rooftop Mechanical Penthouses	Location and sizes Visibility	All presented- north penthouses not resolved		CP10, CP11 CP10, CP11
East Wing 4th Floor Egress	Guardrail Changes to existing windows (East and West)			
Lightning Protection	Layout Device details	Reviewed and accepted Reviewed and accepted	No Adverse Effect	CP10, CP11 CP10
Fall Protection	Layout Device details			



# RoHC Revitalize Castle – Status of Design Review Items

RoHC Revitalize the Castle- Phase 2 Section 106 Consultation Design Issues				
Topic	Key Design Issues	Status	Proposed Effect Determination	CP Meeting
<b>EXTERIOR WALLS</b>				
Replacement and Restoration of Windows	Replacement- visual appearance, details Restoration- interior safety panels- details			
Replacement of Windows- Interior Effects	Impacts to interior historic finishes (plaster)			
Exterior Masonry Restoration	Replacement materials	Preliminary presentation		CP10
New Basement Windows	Location and size Window style Effect on exterior sandstone	Preliminary presentation		CP4
Basement Egress Doors	Location and size Door style Effect on exterior sandstone	Preliminary presentation		CP4
Basement Level Interior Alterations (Effects)	Impacts to interior historic finishes			
Exterior Lighting (Building)	Visual effect Location of light sources			
<b>AREAWAYS AND WINDOW WELLS</b>				
Areaways and Window Wells- Finishes	Below Seneca sandstone Flooring and seismic joint Concrete retaining wall Stairs			
Emergency Generator	Visibility	Reviewed and accepted	Adverse Effect	CP10

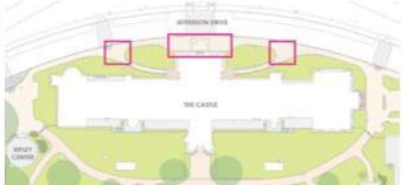

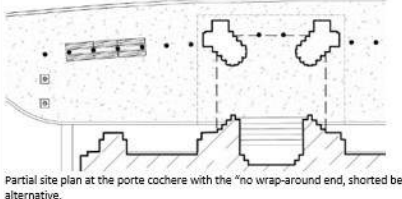


# RoHC Revitalize Castle – Status of Design Review Items


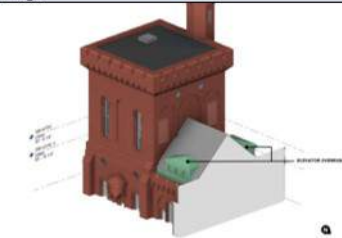
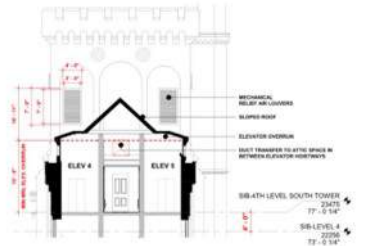
- Assessment of Effects Report to be updated as we move through consultation and reach consensus on design actions
- Updated AOE sections will be appended to the Meeting Minutes after each Consulting Parties Meeting and posted to the project webpage.

RoHC Revitalize Castle Assessment of Effects on Historic Resources		April 2023
<b>Assessment of Effects on Historic Resources – Phase 2</b>		
<p>The following provides an assessment of effects of each feature or action of Phase 2 of the RoHC Revitalize Castle. The effect determination is based on the criteria of adverse effect. For more images and information on each action and assessment, please refer to the presentation materials from past Section 106 Consulting Parties meetings available on the project webpage. Phase 2 contains the remaining design actions for consultation to complete the RoHC Revitalize Castle project. Certain design actions were determined to have an adverse effect during Phase 1 consultation, with additional consultation required on minimization measures during Phase 2 consultation.</p>		
Site		
Feature/Action	Design Details	
<p>New Landscape Planting Plan</p>  <p>Existing landscape character, south of the Castle.</p>	<ul style="list-style-type: none"> <li>- Hardscape displaced by the project limit of disturbance will be replaced in-kind.</li> <li>- Paths and sidewalks adjacent to Jefferson Drive will have aggregate concrete to match the National Mall standard.</li> <li>- Paths within the Haupt Garden and Folger Rose Garden will have red brick. Granite pavers will be used at the north entrance landings.</li> <li>- Character of the landscape will be maintained, through the same diversity of plant typology and heights and number of trees.</li> <li>- Tree plantings will be slightly setback to prevent biological growth and damage to the Castle's sandstone. This setback will be minimal enough to maintain the character of the landscape setting.</li> </ul>	
Images		Additional Information
 <p>Final landscape plan – To be updated in Phase 2 consultation.</p>		<ul style="list-style-type: none"> <li>- Setting of the Castle is a character defining feature.</li> <li>- Haupt Garden is documented in the National Mall Historic District nomination as part of the landscape setting, not as a contributing element.</li> <li>- Current tree plantings are immediately adjacent to and touch the Castle. This results in dense shade conditions causing biological growth on the Seneca sandstone. Setting the trees back slightly from the Castle eliminates dense shade conditions against the stone.</li> <li>- Landscape setting features a mix of large structural trees (evergreen and deciduous), large shrubs/small trees, low shrubs, and groundcover. Diversity and hierarchy of plantings will be maintained.</li> <li>- Refer to "Accessible Walkways at the North Entrance" and "Alterations at the South Entrance to Improve Accessibility" for related changes.</li> <li>- Changes to the landscape and replacement of hardscape will not alter the character of the Castle's setting.</li> </ul>

15

RoHC Revitalize Castle Assessment of Effects on Historic Resources		April 2023
Site		
Feature/Action	Design Details	
<p>Perimeter Security</p>  <p>Castle and partial Haupt Garden site plan. Locations that require perimeter security are noted with pink outlines.</p>	<ul style="list-style-type: none"> <li>- Secure perimeter is required at building entrances and visitor queuing areas.</li> <li>- Design is a combination of hardened metal bollards (fixed and retractable), landscape wall features, and benches.</li> <li>- Two fixed bollards will be aligned with the second colonnette of the porte cochere arch.</li> <li>- Design alternatives are in development for Phase 2 of consultation, including: size and placement of the integral bollard benches; bollard finish; granite material; integral bollard bench designs; placement of bollards within the porte cochere piers; and size of wall benches adjacent to the accessible walkways.</li> </ul>	
Images		Additional Information
 <p>Proposed perimeter security elements at north entry along Jefferson Drive.</p>  <p>Partial site plan at the porte cochere with the "no wrap-around end, shorted bench" alternative.</p>		<ul style="list-style-type: none"> <li>- Setting is a character defining feature.</li> <li>- Castle porte cochere is less than 4' from the roadbed curb.</li> <li>- At the beginning of consultation, perimeter security proposed a continuous line of bollards and site walls to create a barrier along the Jefferson Drive curb. This design had significant adverse effects on the Castle and National Mall settings, and was revised to focus on three building entrance locations on Jefferson Drive and minimize the use of bollards.</li> <li>- Phase 1 of Section 106 consultation considered various combinations of hardened metal bollards (fixed and retractable), landscape wall features, and benches. There was consensus for the length, size, and placement of the integral bollard benches adjacent to the porte cochere; and for the length of benches adjacent to the accessible walkway entrances.</li> <li>- Retractable and fixed bollards measure 30" in height and 8" in diameter for visual continuity between the two types.</li> <li>- Contributes to the cumulative adverse effect on the Setting of the Castle and the National Mall Historic District.</li> </ul>

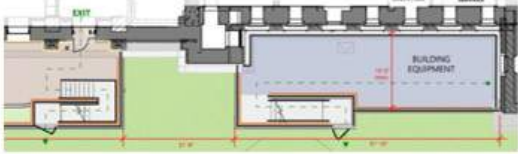
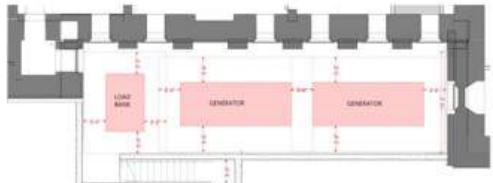
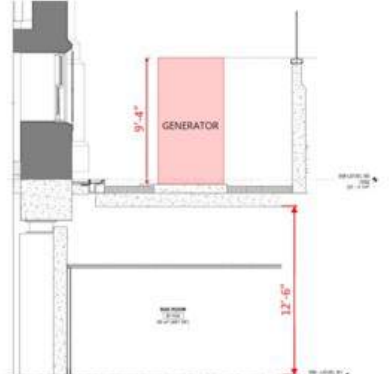
17



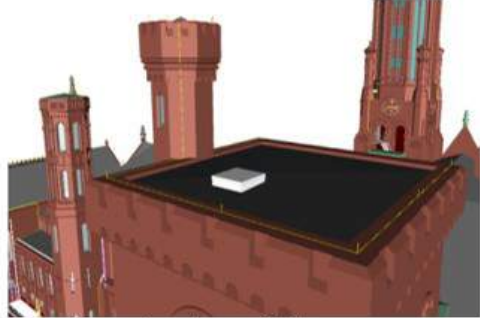
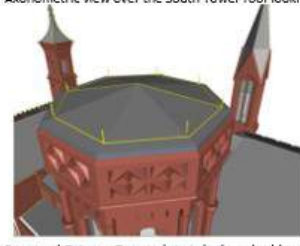
RoHC Revitalize Castle Assessment of Effects on Historic Resources		April 2023
Smithsonian Institution Building		
Feature/Action	Design Details	
<p>South Tower Elevator – Exterior Alterations</p>  <p>Existing condition of the South Tower peaked roof and mechanical bulkhead to be removed, and the blind arches infilled with brick masonry.</p>	<ul style="list-style-type: none"> <li>- Two new elevators replace an existing non-code compliant elevator and stair in the Castle's South Tower.</li> <li>- Proposed elevators are accessible and code compliant, and will be the primary vertical circulation for the public for all levels of the Castle.</li> <li>- Each new elevator requires a visible overrun.</li> <li>- Overruns are 3'7" above the parapet, with a hipped roof, arched detailing, and copper cladding.</li> <li>- Mechanical relief is accomplished with through wall louvers at blind arches at the north elevation of the South Tower. Louvers will require the removal of historic brick. Louvers will be finished to match the brick. Louvers cannot be centered within the blind arches due an existing stair and proposed ductwork.</li> </ul>	
Images		Additional Information
 <p>Partial axonometric view of the South Tower.</p>  <p>Section elevation depicting the size of the through wall louvers and extent of brick removal.</p>		<ul style="list-style-type: none"> <li>- Roof Profile is a character defining feature. South Tower has a steep peaked roof clad in slate shingles.</li> <li>- Proposed work enables the removal of the existing non-code compliant elevator and its visible elevator overrun from the North Tower.</li> <li>- Existing elevator mechanical relief bulkhead is visible from the east and west of the South Tower.</li> <li>- Proposed elevators use Machine Room Less technology, which does not require overhead mechanical equipment above the elevator shaft. If this technology was not used, the elevator overruns would be significantly taller.</li> <li>- Alternate locations for these public elevators cannot be considered to avoid adverse effects to the South Tower exterior and interior. This is because the Adolf Closs modifications inserted additional levels creating quarter level height differences between the finish floors of the South Tower and the Main Building.</li> <li>- Phase 1 of 106 consultation included a significantly taller mechanical relief bulkhead than the existing condition, found to have significant visual impact and adverse effect. Phase 1 of 106 consultation produced a through wall louver design, with consensus that this solution minimized adverse effect by eliminating visibility of the mechanical relief bulkhead.</li> <li>- Proposed elevator overruns will be visible from the east and west of the South Tower.</li> <li>- Proposed exterior changes have an adverse effect on the Castle's roofline, South Tower massing, and</li> </ul>

20



# RoHC Revitalize Castle – Status of Design Review Items

RoHC Revitalize Castle Assessment of Effects on Historic Resources		April 2023
<b>Smithsonian Institution Building</b>		
<b>Feature/Action</b> Emergency Generator	<b>Design Details</b>	
 <p>Partial southeast areaway plan. Location for the emergency generator noted with blue shading.</p>	<ul style="list-style-type: none"> <li>- Two new emergency generator gas generators and associated equipment will be located within the proposed southeast areaway.</li> <li>- Maximum height of each generator at 9'4" will not exceed the height of the proposed areaway wall.</li> <li>- Emergency generator may be visible within the Castle's setting.</li> </ul>	
<b>Images</b>	<b>Additional Information</b>	
 <p>Southeast areaway detail plan.</p>  <p>Section of southeast areaway above the SIB Extension. Generators do not exceed the height of the areaway wall.</p>	<ul style="list-style-type: none"> <li>- Removal of the Central Utility Plant from the project required alternate placement for the emergency generator.</li> <li>- Emergency generators replace two existing pieces of mechanical equipment, one of which is visible above-grade.</li> <li>- Generators will not be visible within the Haupt Garden and setting, except within the immediate vicinity of the southeast areaway. The southeast areaways are for staff use or building operations and will not have any public function.</li> <li>- Presence of the largely non-visible generators and associated equipment does not intensify the adverse effect from the areaways.</li> </ul>	
<b>Proposed Effect Determination – No Adverse Effect</b>		
26		

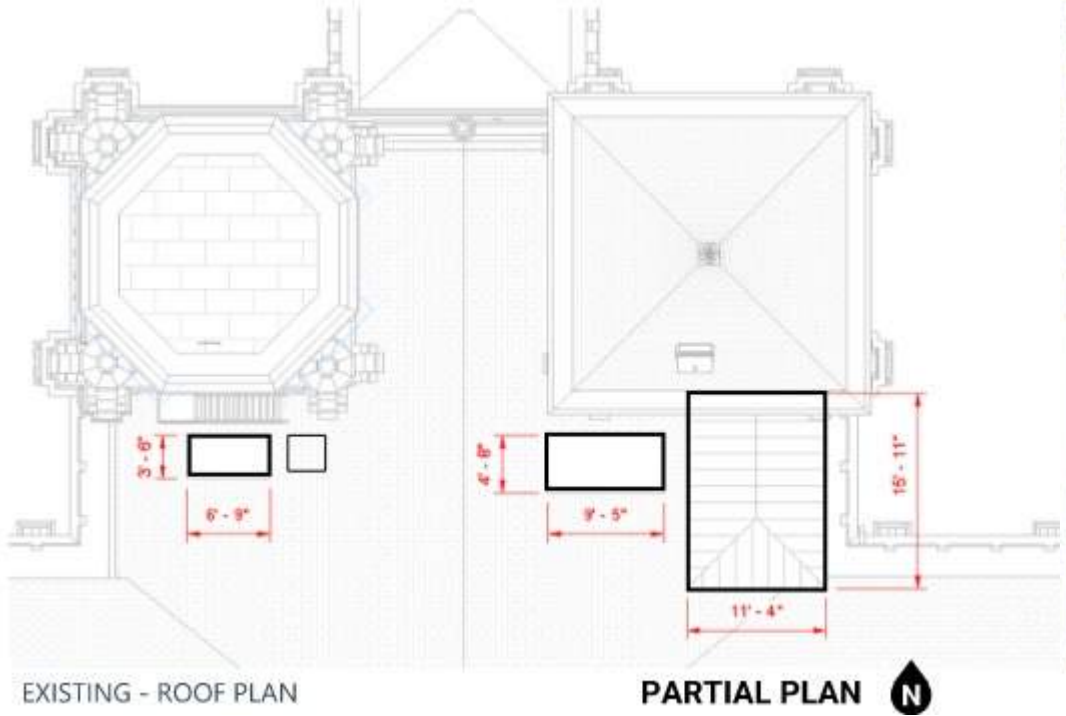
RoHC Revitalize Castle Assessment of Effects on Historic Resources		April 2023
<b>Smithsonian Institution Building</b>		
<b>Feature/Action</b> Installation of Lightning Protection	<b>Design Details</b>	
 <p>Historic image c. 1930 of the West Tower with lightning protection.</p>  <p>Octagon Tower damaged by a lightning strike in 2005.</p>	<ul style="list-style-type: none"> <li>- Lighting protection system will be installed on the perimeter of the Castle roof.</li> <li>- Air terminals (metal rod) projects 10" above rooftop features, placed at the perimeter of the Towers and peak of the East Wing roof.</li> <li>- Air terminals will be clamp to existing features, with grounding cables held in place using metal brackets attached at mortar joints. Some cables will require adhesive mounting at the roof edges.</li> </ul>	
<b>Images</b>	<b>Additional Information</b>	
 <p>Axonometric view over the South Tower roof looking west.</p>  <p>Proposed Octagon Tower air terminals and cables.</p>	<ul style="list-style-type: none"> <li>- Lighting protection was implemented in the original Castle design with wrought iron lighting rods on the Perimeter Towers, originally 10' taller than the various Tower roofs.</li> <li>- In 2005 the Southeast Tower roof was damaged from a <a href="#">lightning</a> strike and restored.</li> <li>- Proposed lighting protection system is in keeping with systems found on historic buildings on the National Mall.</li> <li>- Air terminals will have minimal visibility and the grounding cables will be installed in building recesses or the least obtrusive locations.</li> <li>- Lighting protection system will not damage historic fabric and is fully reversible.</li> </ul>	
<b>Proposed Effect Determination – No Adverse Effect</b>		
28		

# **ROOF MECHANICAL ELEMENTS**

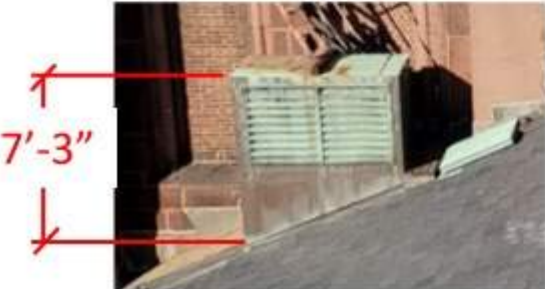
## **REVISIONS BASED ON CP11 COMMENTS**

# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | EXISTING PENTHOUSES  
ROOF PLAN



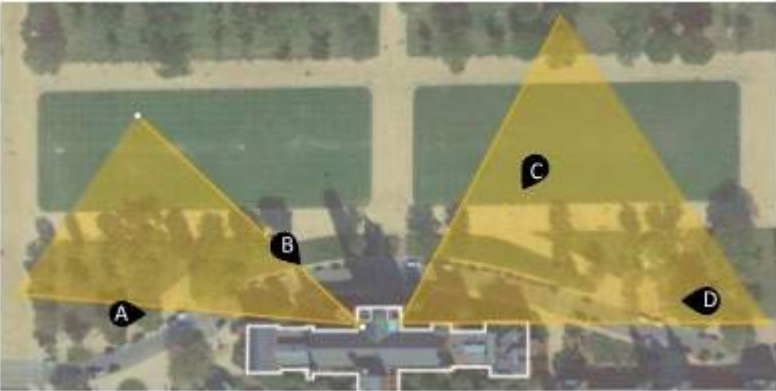
EXISTING - VIEW FROM ROOF





# SMITHSONIAN INSTITUTION BUILDING (SIB)

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



A. Viewed from due west



B. Location where west penthouse is no longer visible



C. Location of elevator penthouse near eave increases visibility



D. Viewed from due east



# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | FINISH MATERIAL  
PATINATED COPPER

## Copper Patina Aging Chart



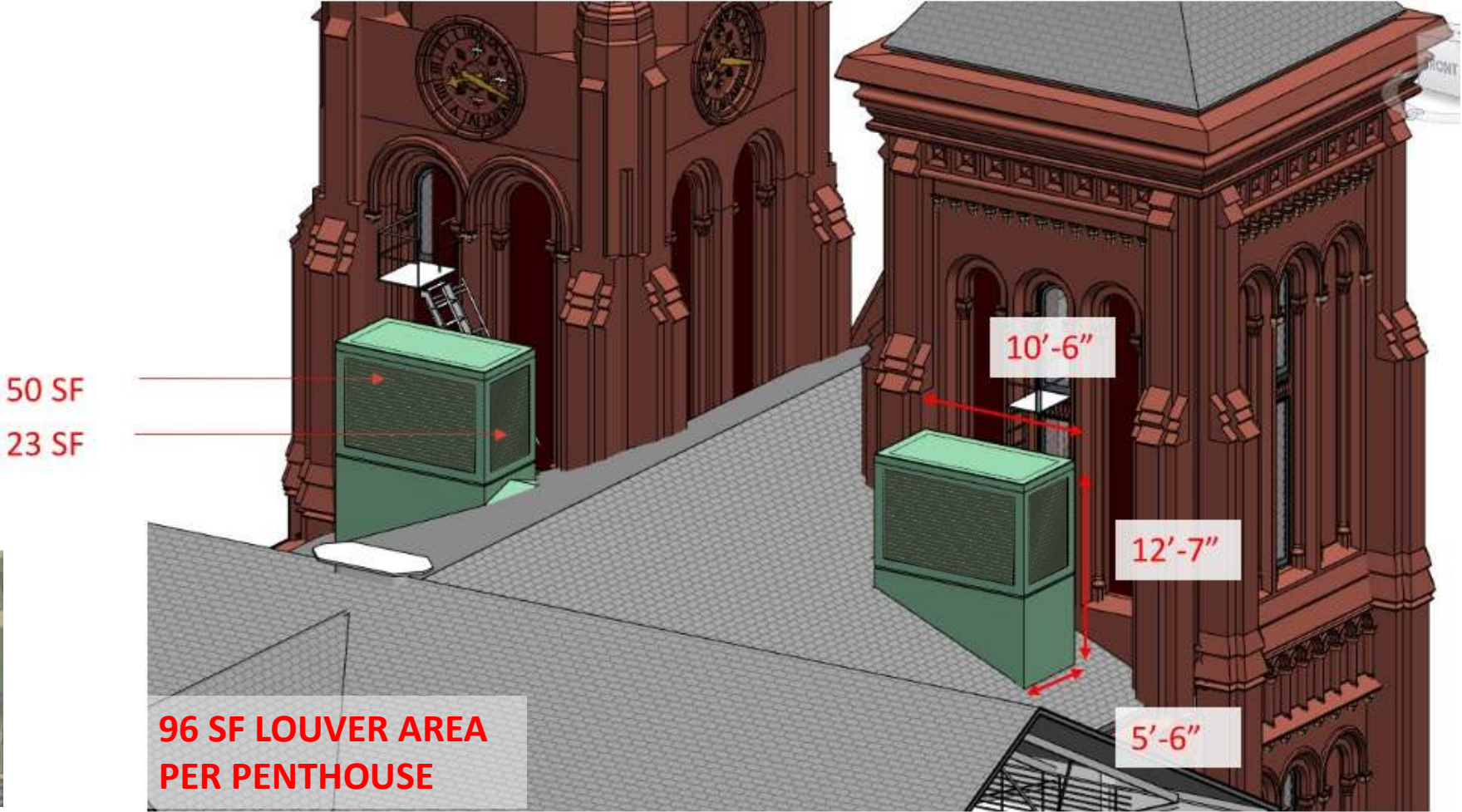
*Note: Colors Approximate*

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**

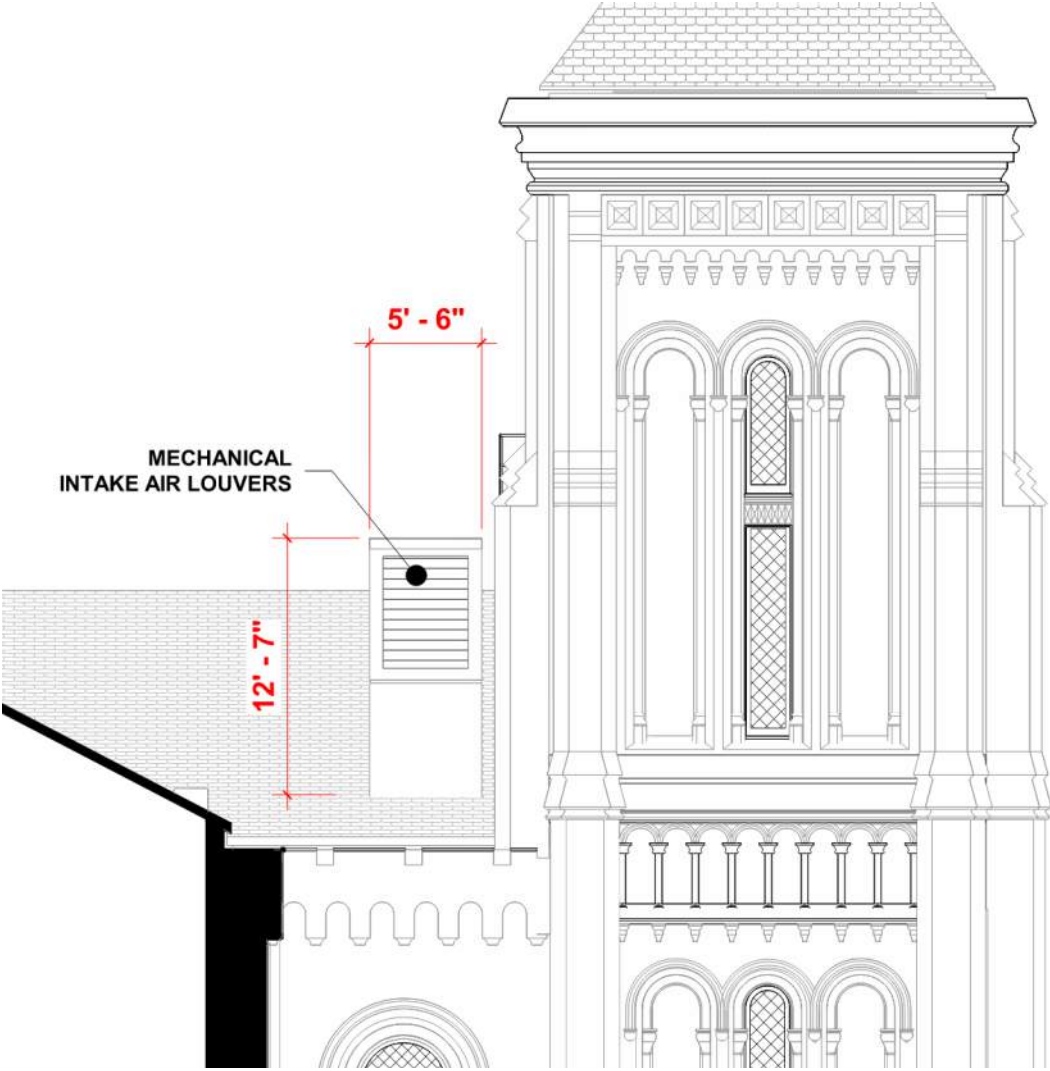
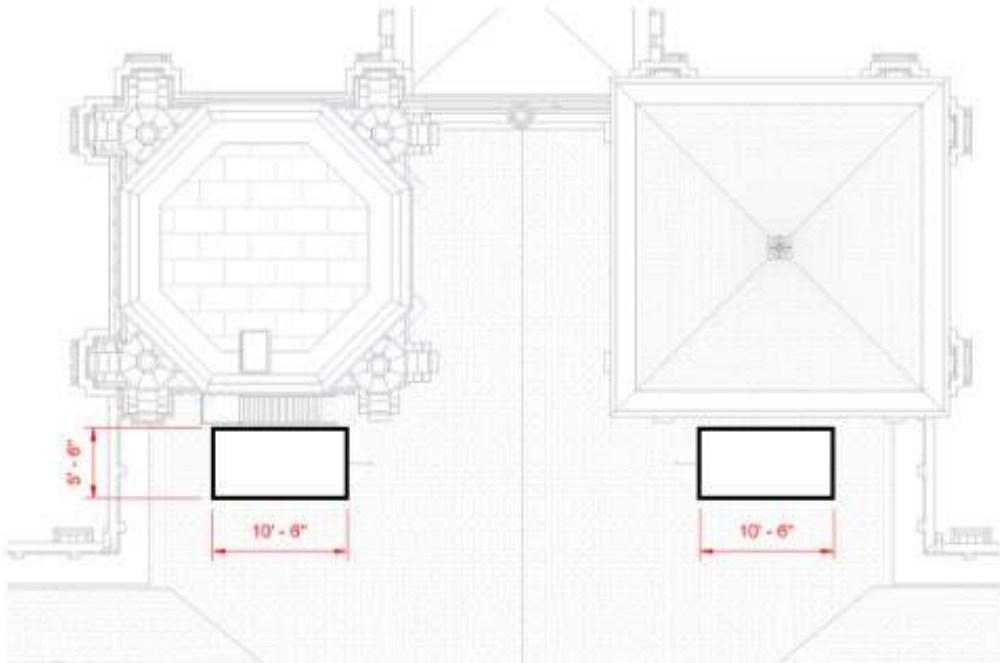
VISUALIZATION

OPTION 1 - PRESENTED AT CP MEETING #10



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**  
ROOF PLAN + EAST ELEVATION  
*OPTION 1 - PRESENTED AT CP MEETING #10*



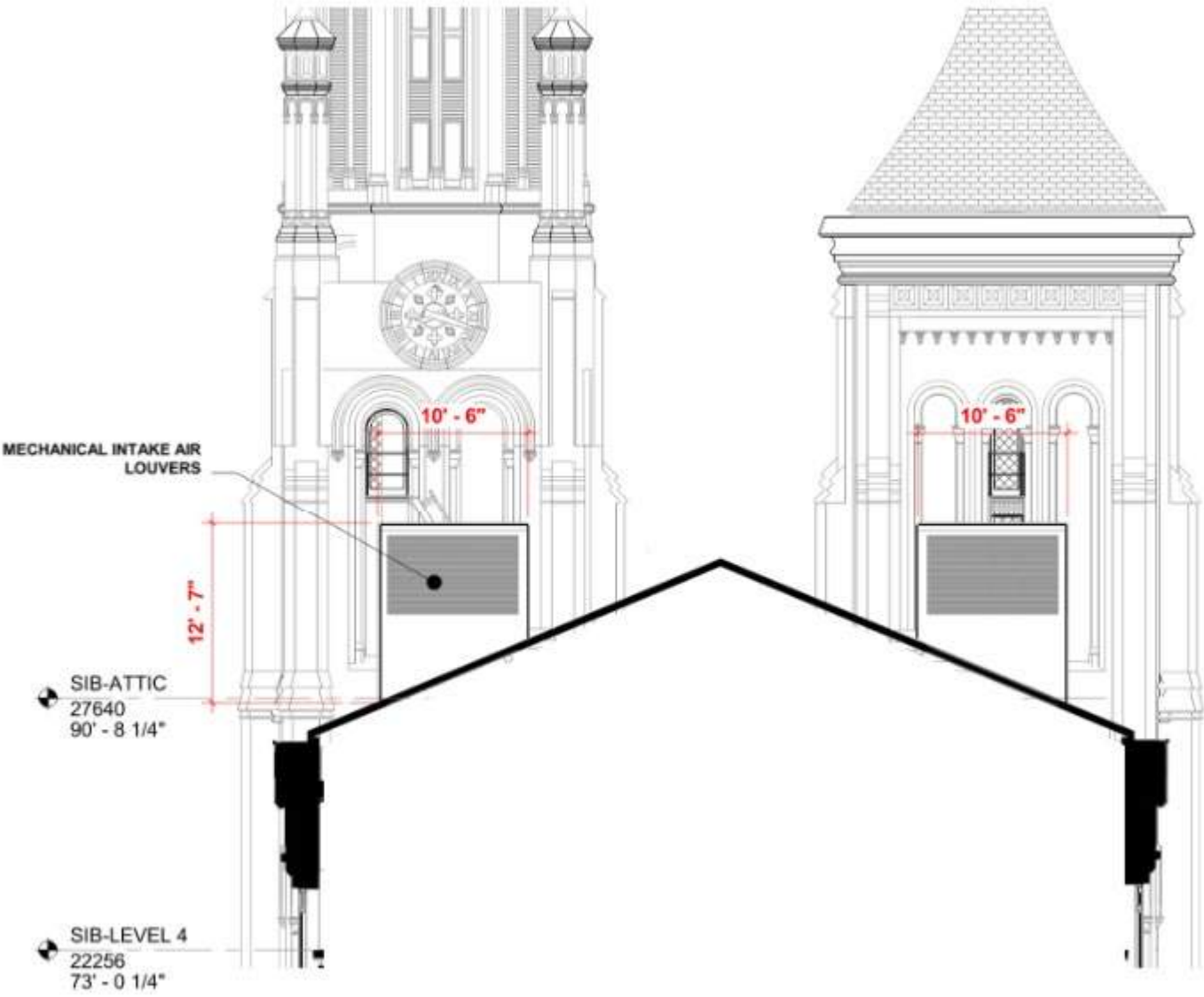
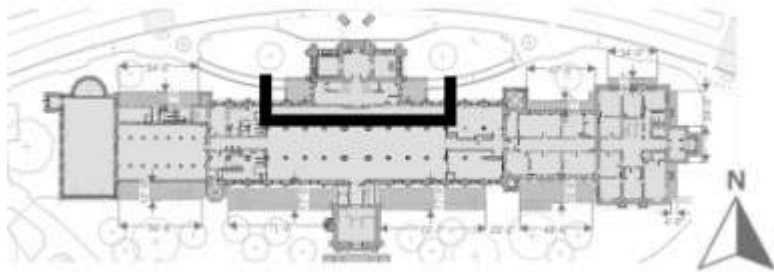


# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF)**

SOUTH ELEVATION

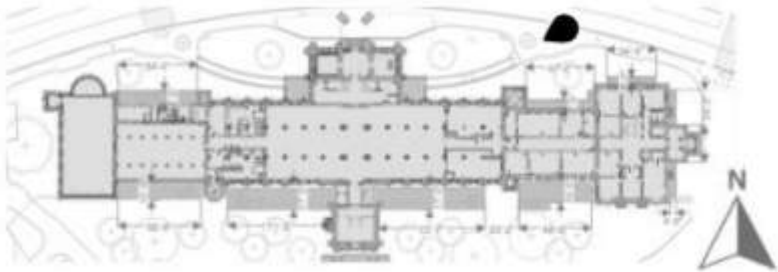
OPTION 1 - PRESENTED AT CP MEETING #10





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 1 - PRESENTED AT CP MEETING #10



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



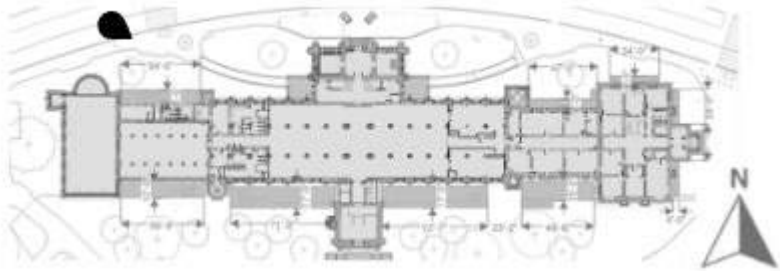
25-30 years



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 1 - PRESENTED AT CP MEETING #10



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years



PROPOSED VIEW FROM PATH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

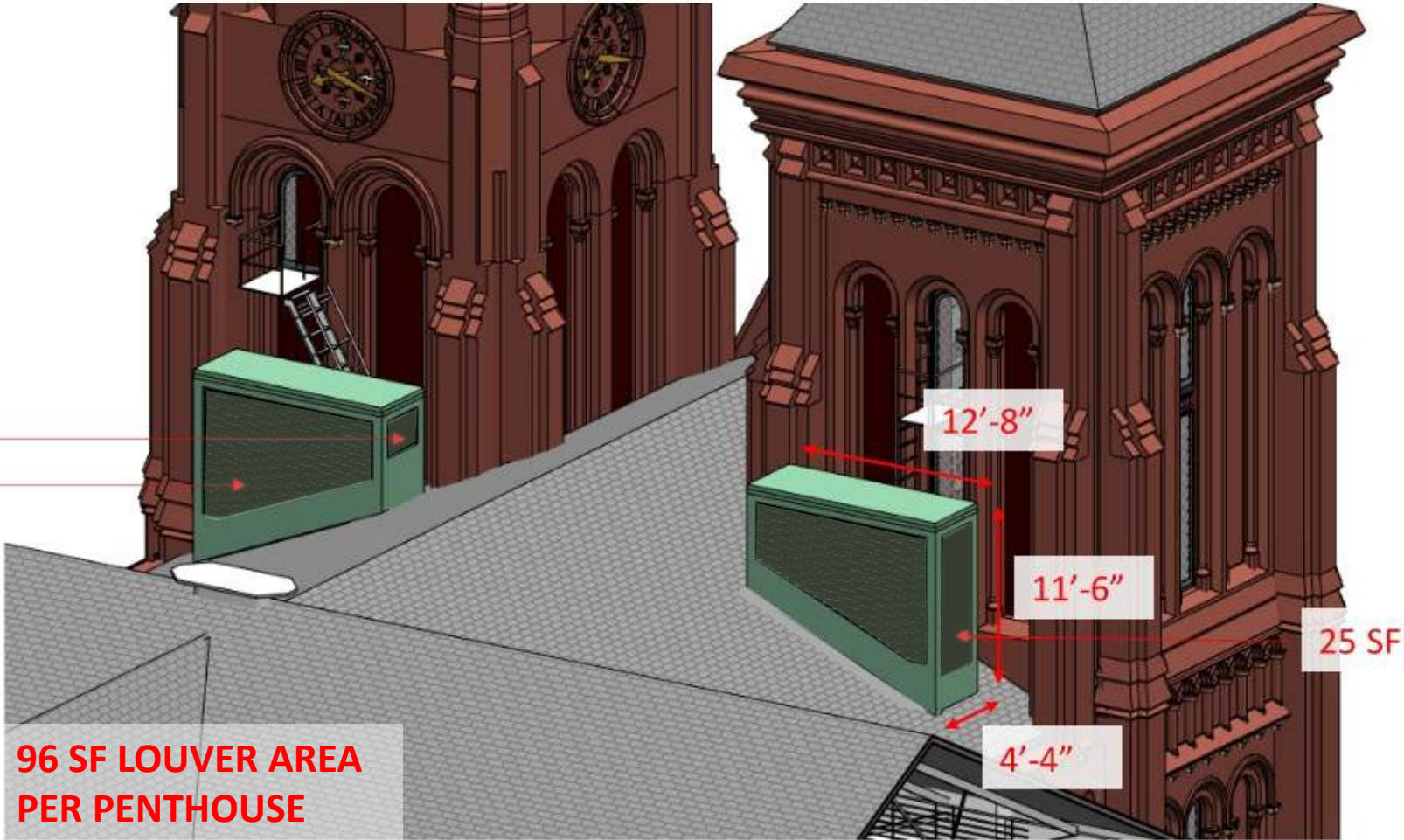
## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION

OPTION 2 - PRESENTED AT CP MEETING #11

- louvers match roof slope
- reduces width of Option 1 by appr
- reduces height of Option 1 by appr

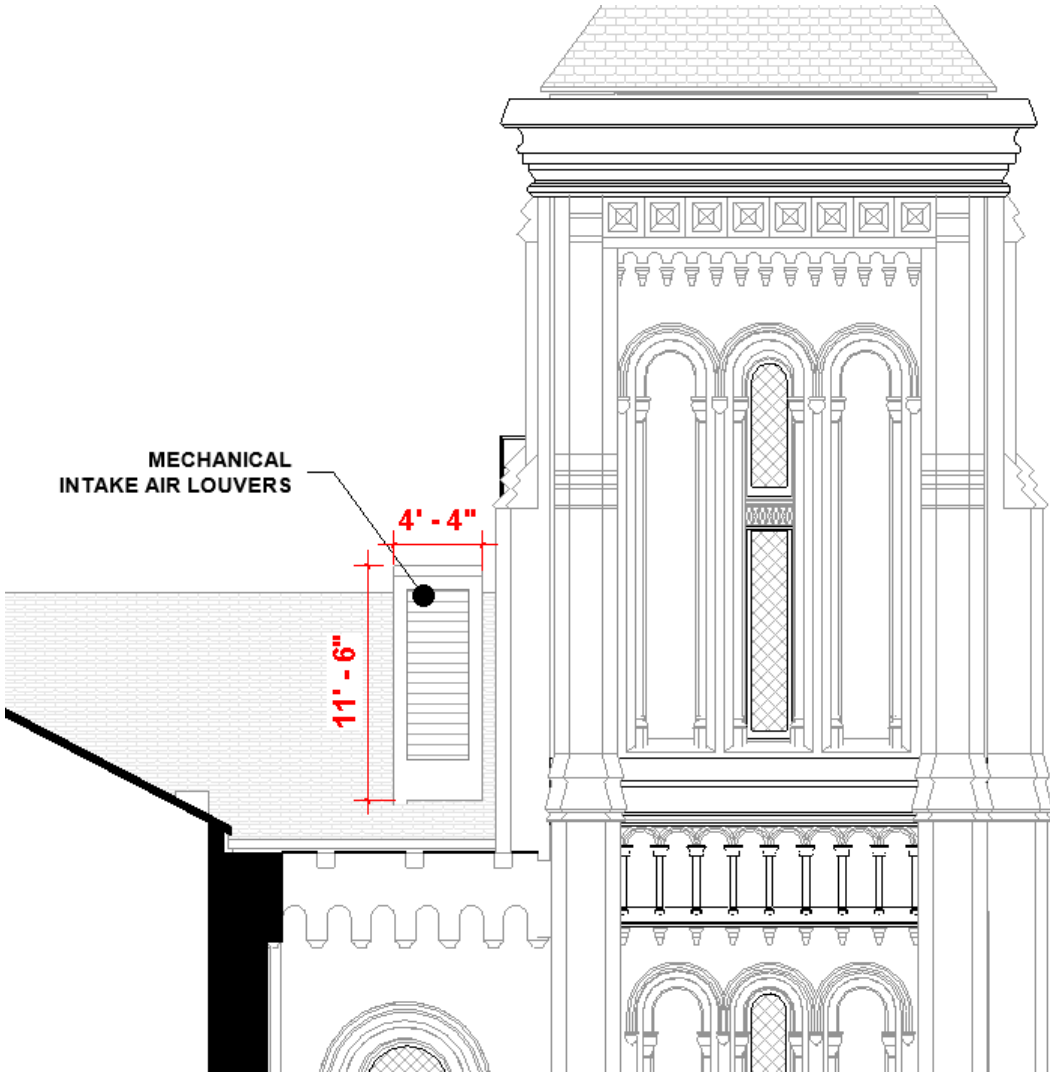
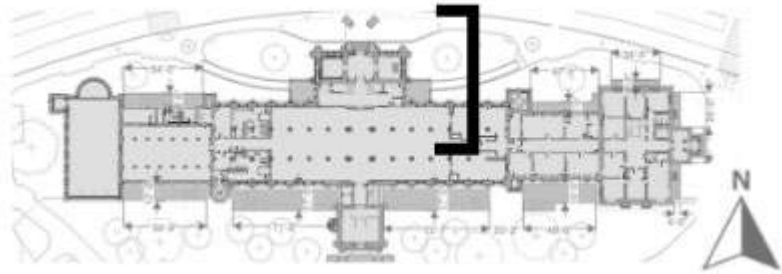
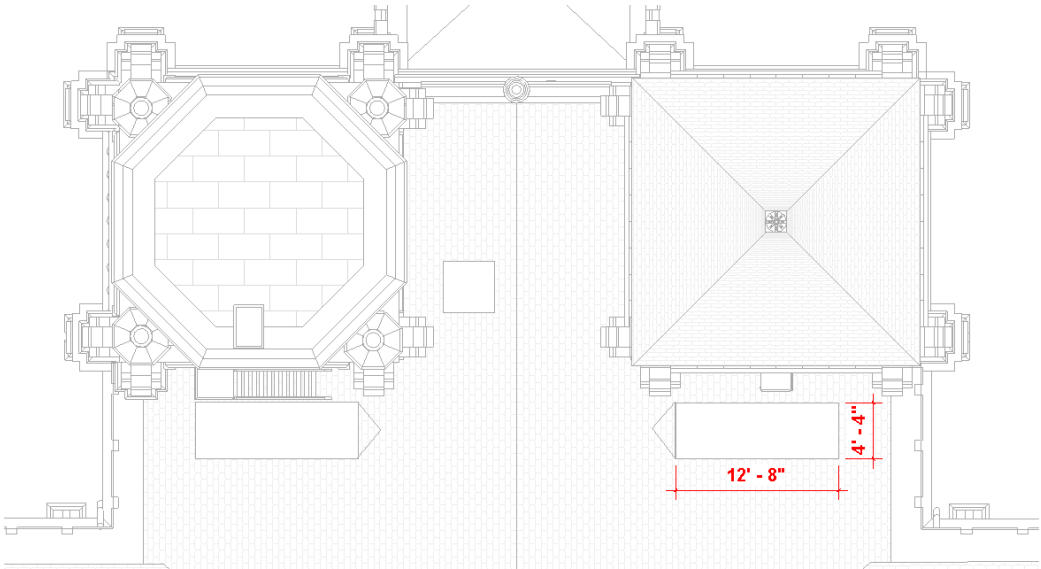


6 SF  
65 SF



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
ROOF PLAN + EAST ELEVATION  
*OPTION 2 - PRESENTED AT CP MEETING #11*

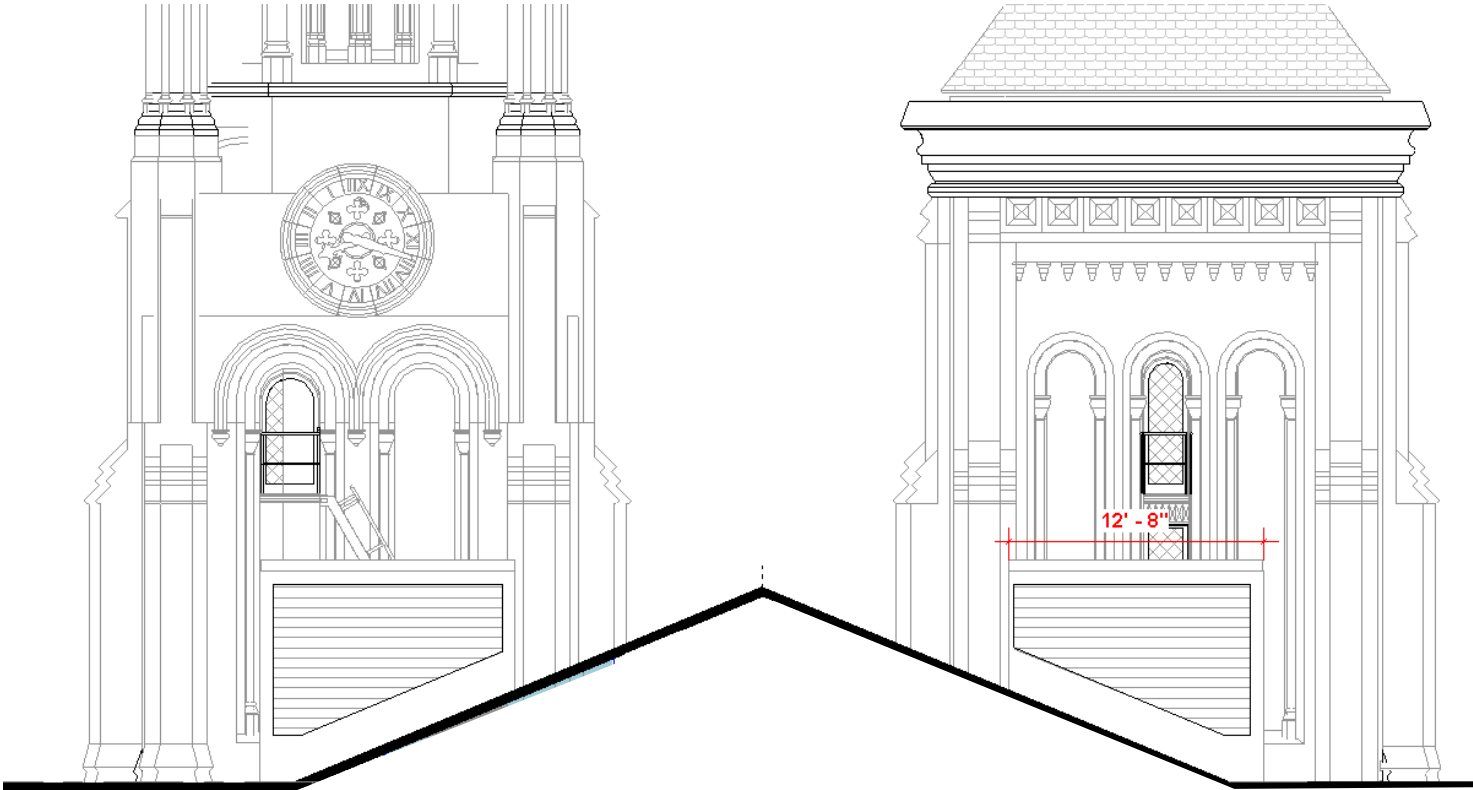
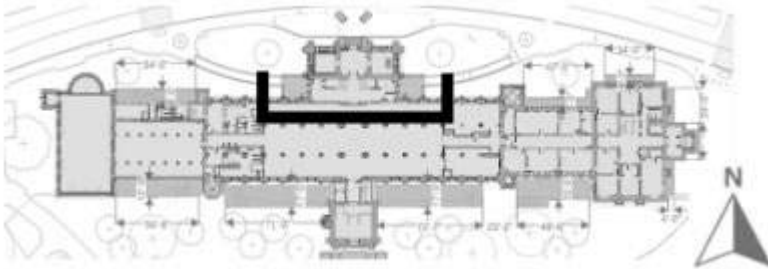




# SMITHSONIAN INSTITUTION BUILDING (SIB)

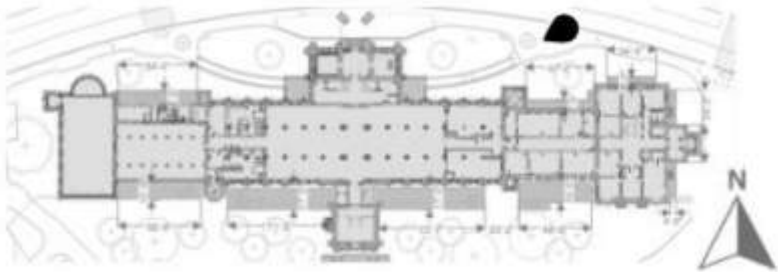
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES  
SOUTH ELEVATION

OPTION 2 - PRESENTED AT CP MEETING #11



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*OPTION 2 - PRESENTED AT CP MEETING #11*



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



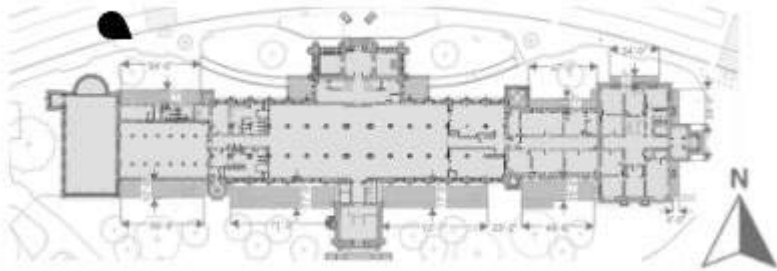
25-30 years



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
*OPTION 2 - PRESENTED AT CP MEETING #11*



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years



PROPOSED VIEW FROM PATH

# **ROOF MECHANICAL ELEMENTS**

## **ADDITIONAL OPTIONS**

### *BASED ON CP11 COMMENTS*



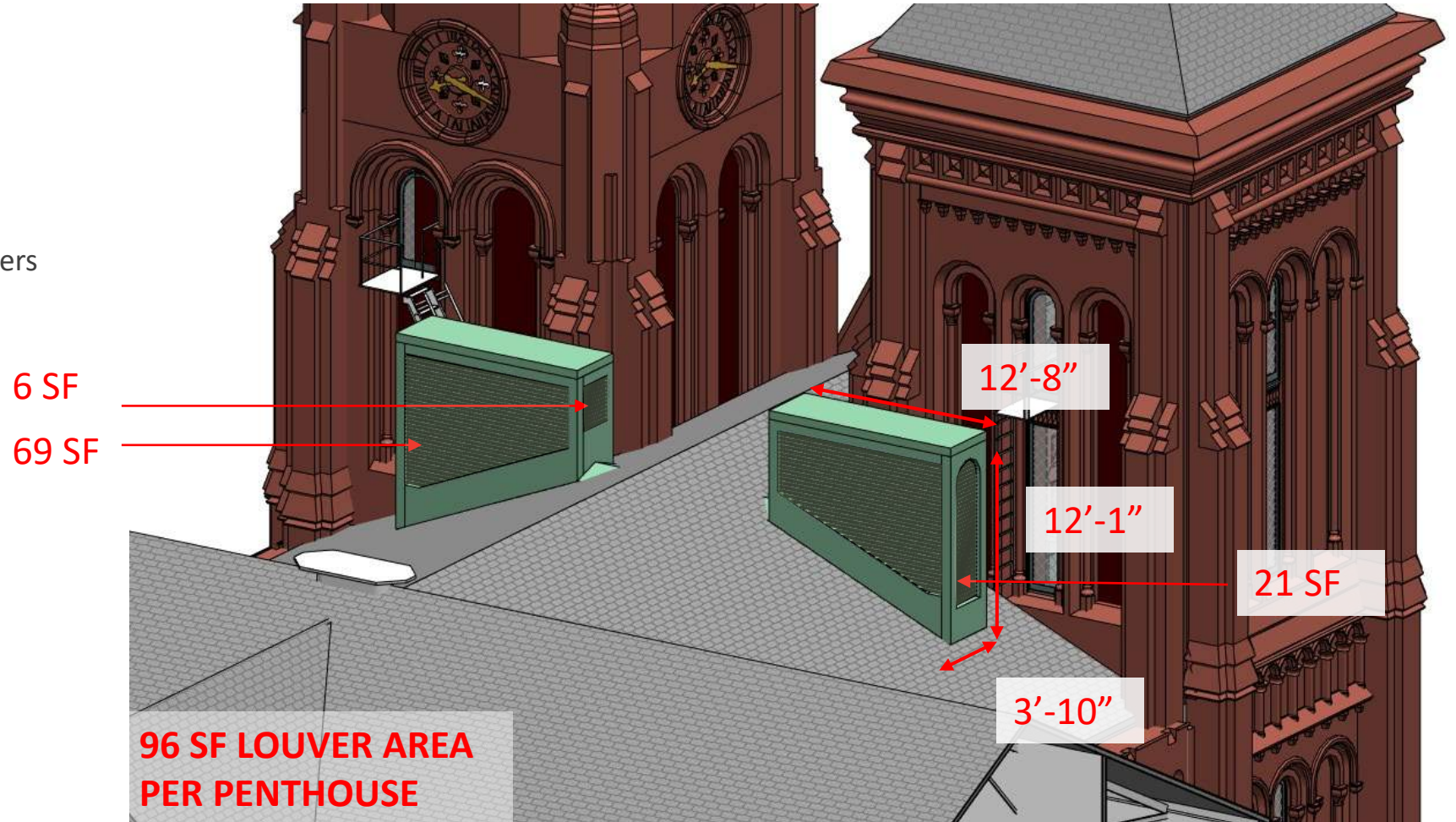
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION OPTION 3 (ITERATION A - preferred)

- Penthouses moved closer to roof ridge, closer to tower
- Option with decorative arch
- Reduces width of Option 1 by approx. 1'-8"
- Reduces height of Option 1 by approx. 0'-6"

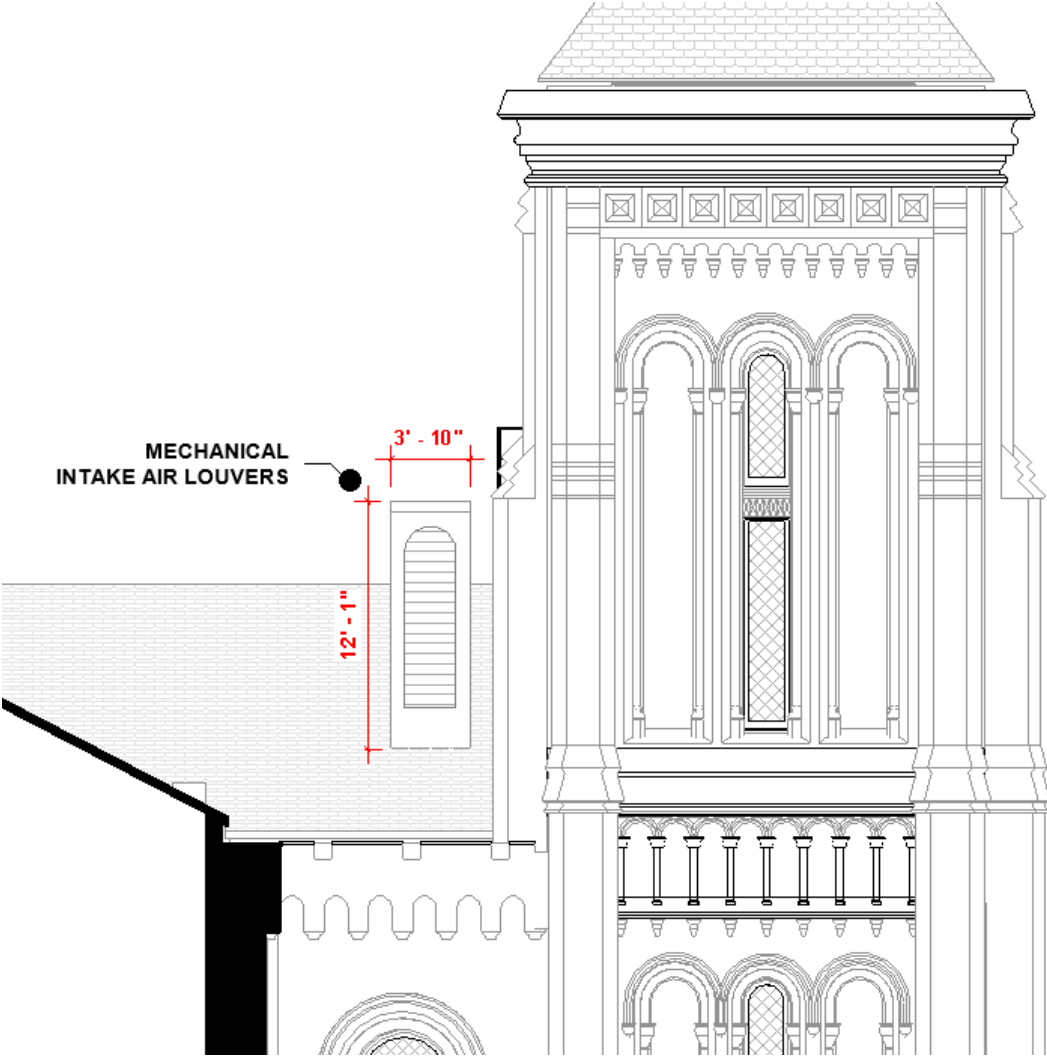
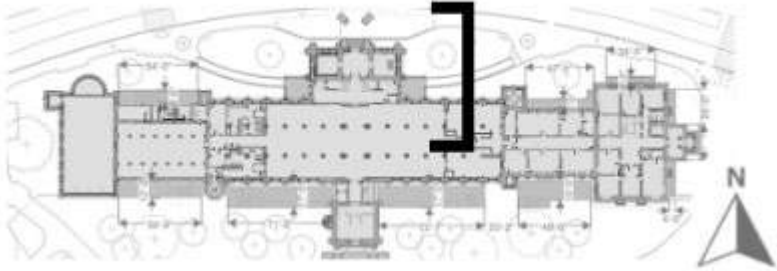
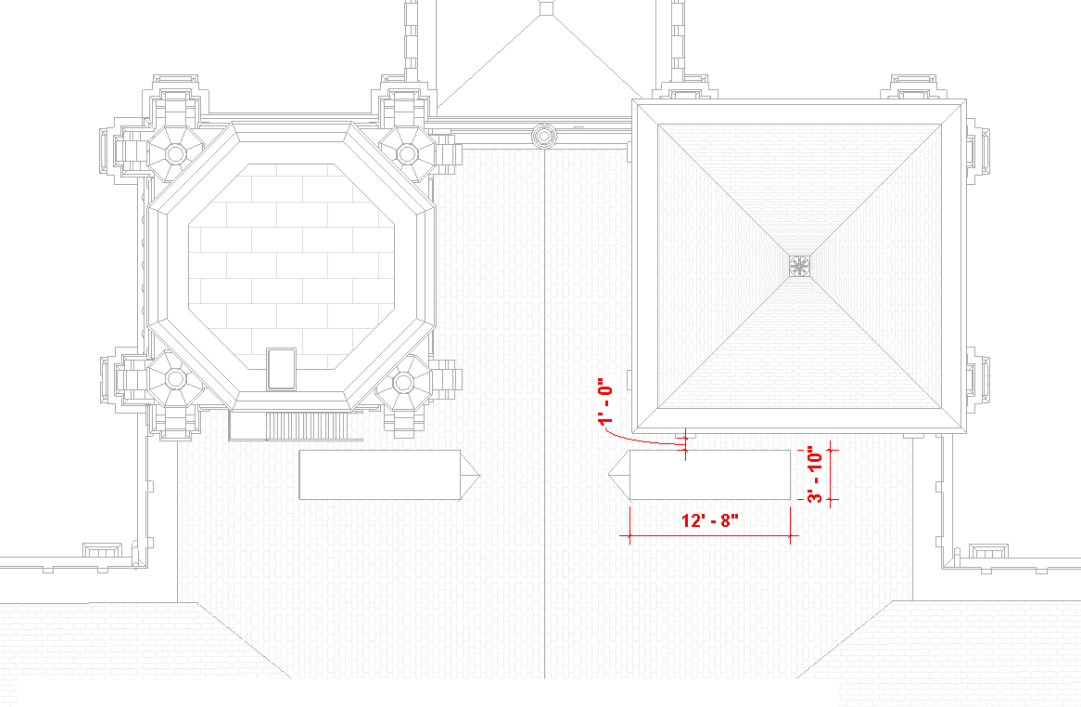
### CHALLENGES

- Limited space between penthouses and towers impacts accessibility and complicates waterproofing



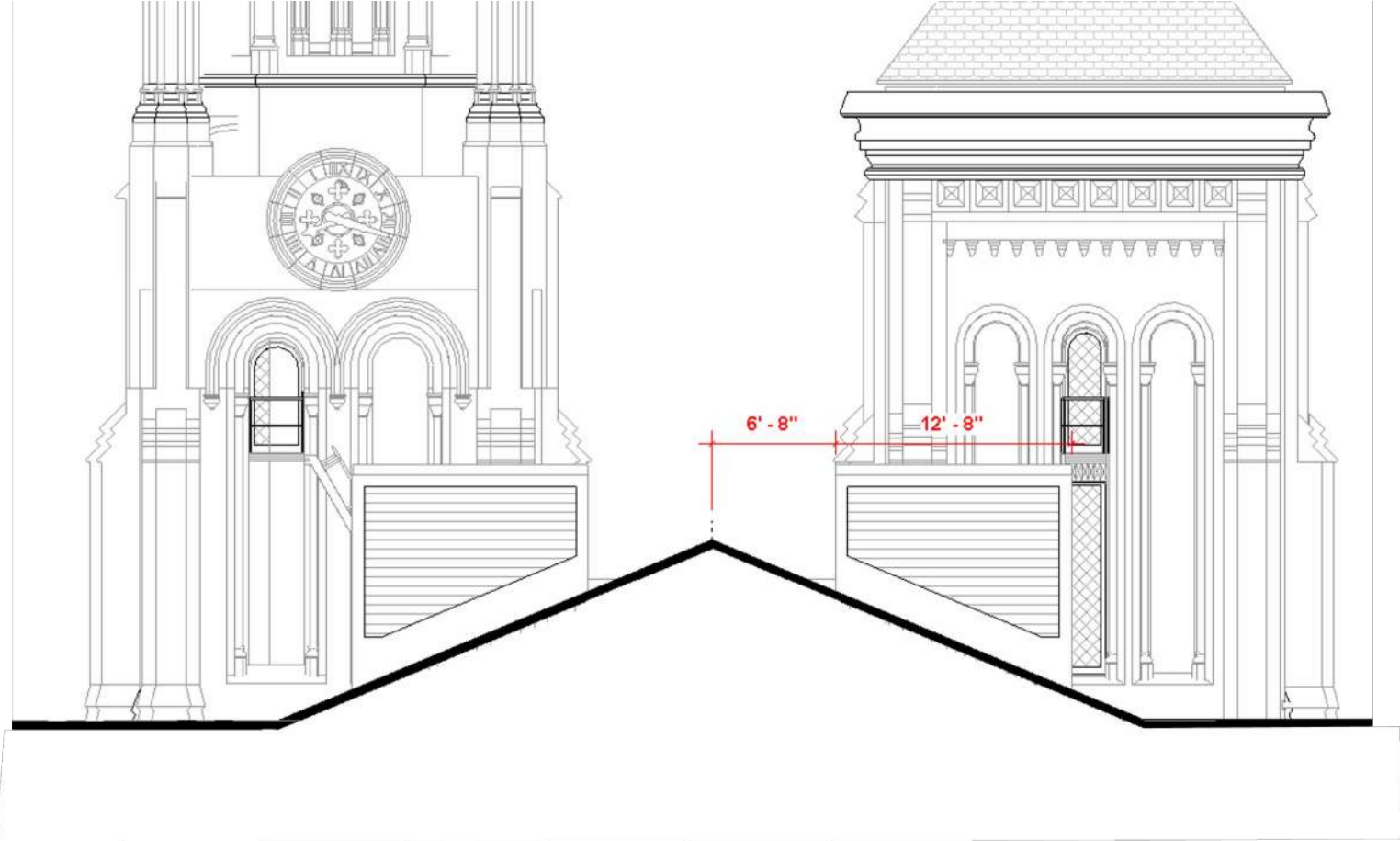
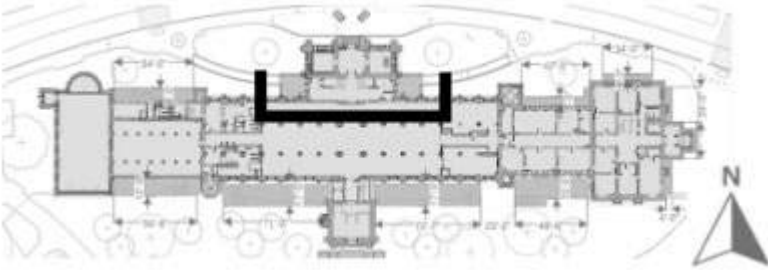
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
ROOF PLAN + EAST ELEVATION  
OPTION 3 (*ITERATION A - preferred*)



# SMITHSONIAN INSTITUTION BUILDING (SIB)

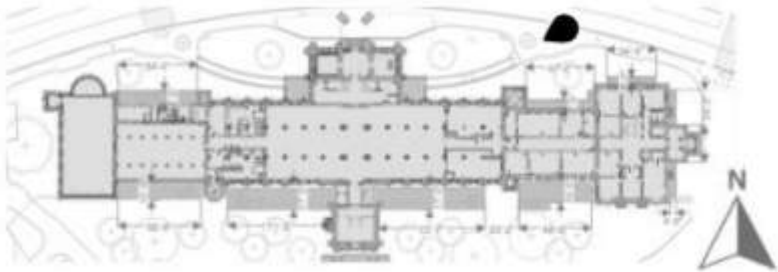
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES  
SOUTH ELEVATION  
OPTION 3 (ITERATION A - preferred)





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (*ITERATION A - preferred*)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years

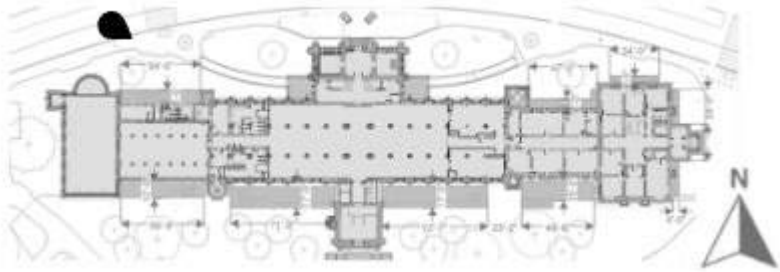


PROPOSED VIEW FROM PATH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (*ITERATION A - preferred*)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years



PROPOSED VIEW FROM PATH

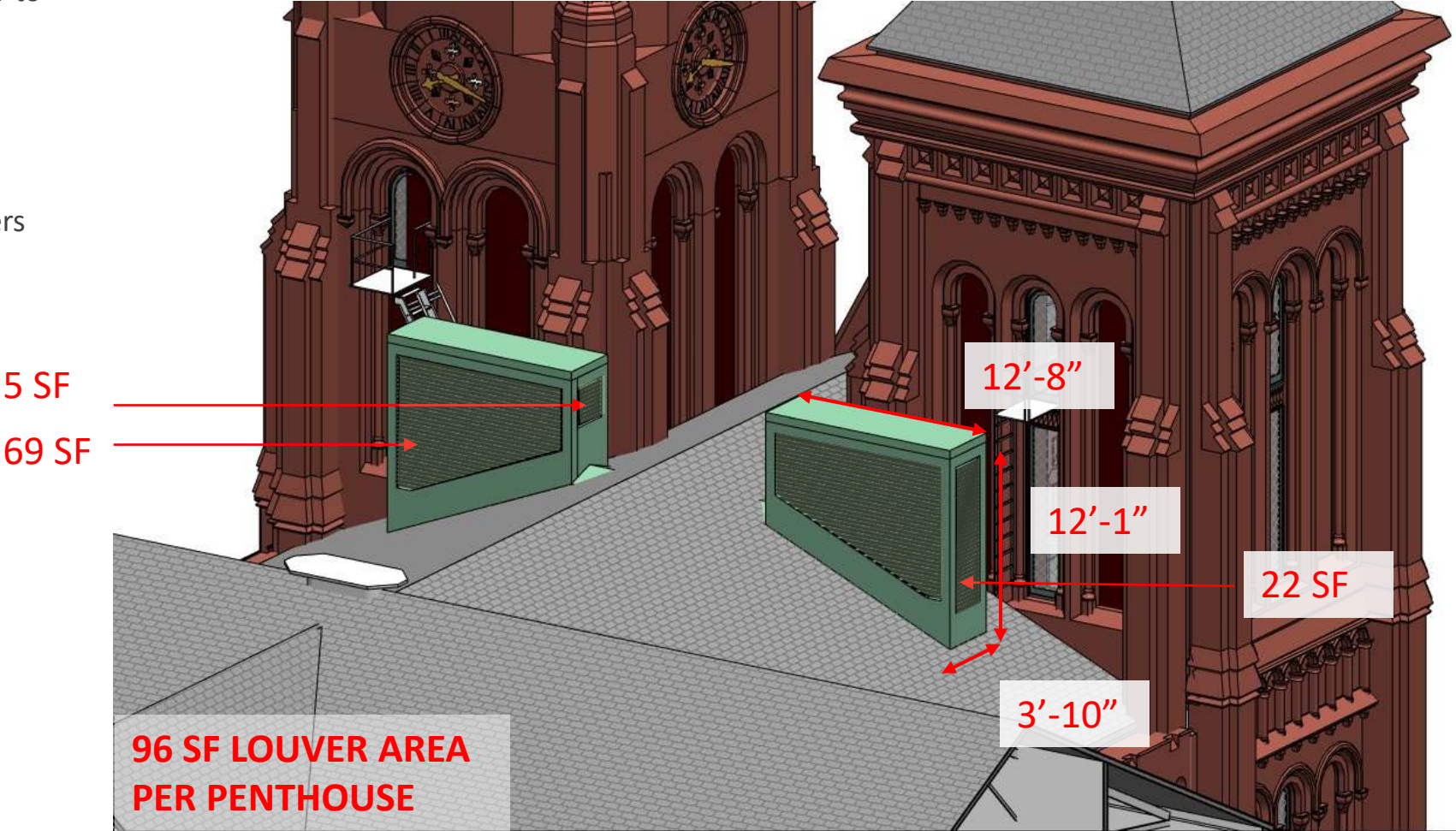
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
 VISUALIZATION  
 OPTION 3 (ITERATION B)

- Penthouses moved closer to roof ridge, closer to tower
- Reduces width of Option 1 by approx. 1'-8"
- Reduces height of Option 1 by approx. 0'-6"

**CHALLENGES**

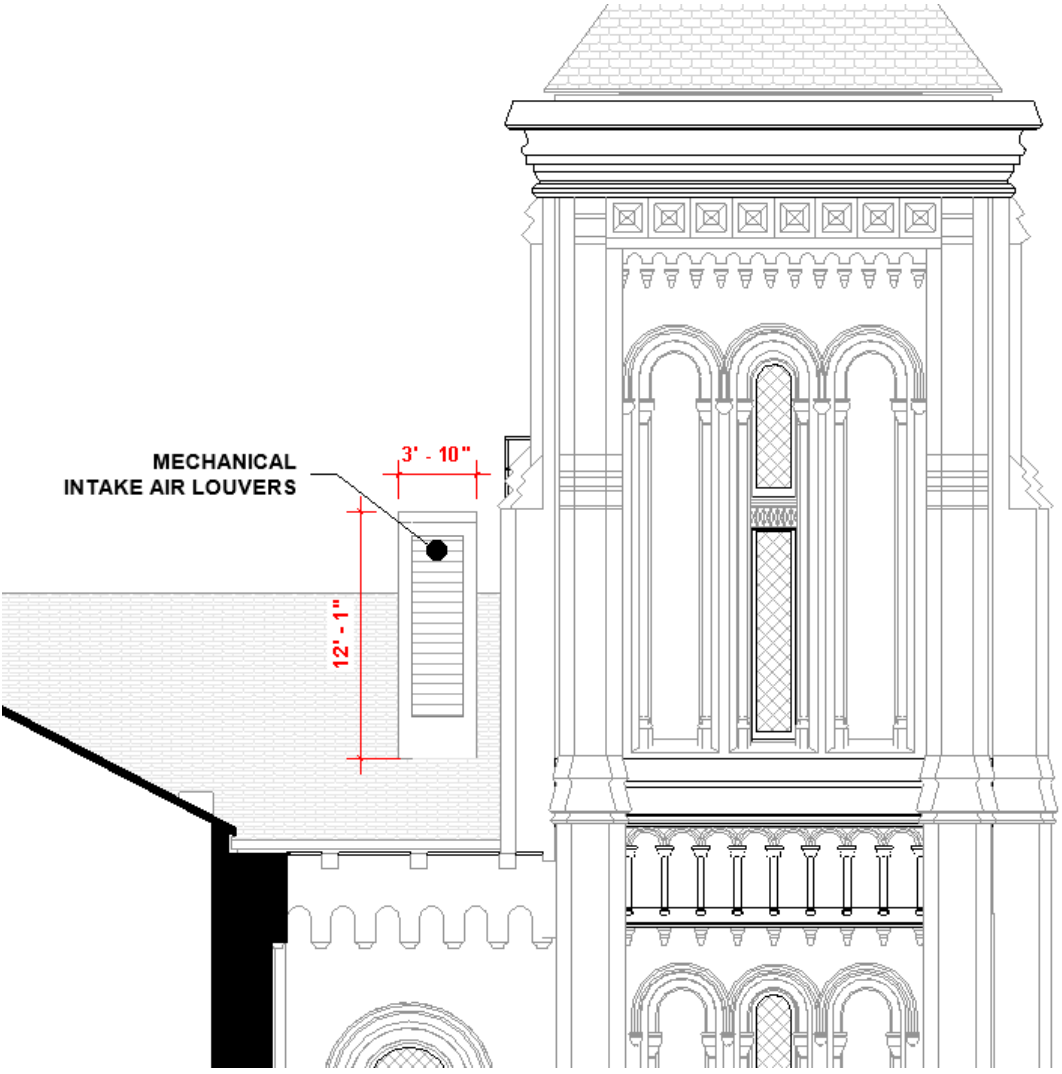
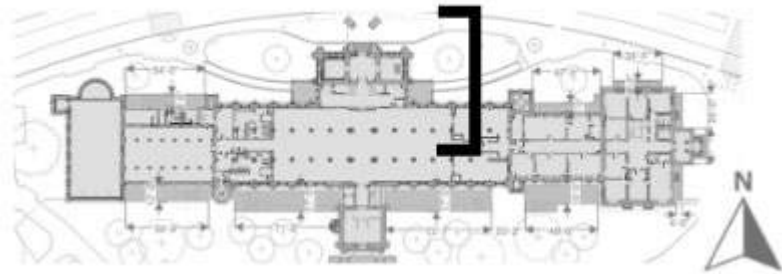
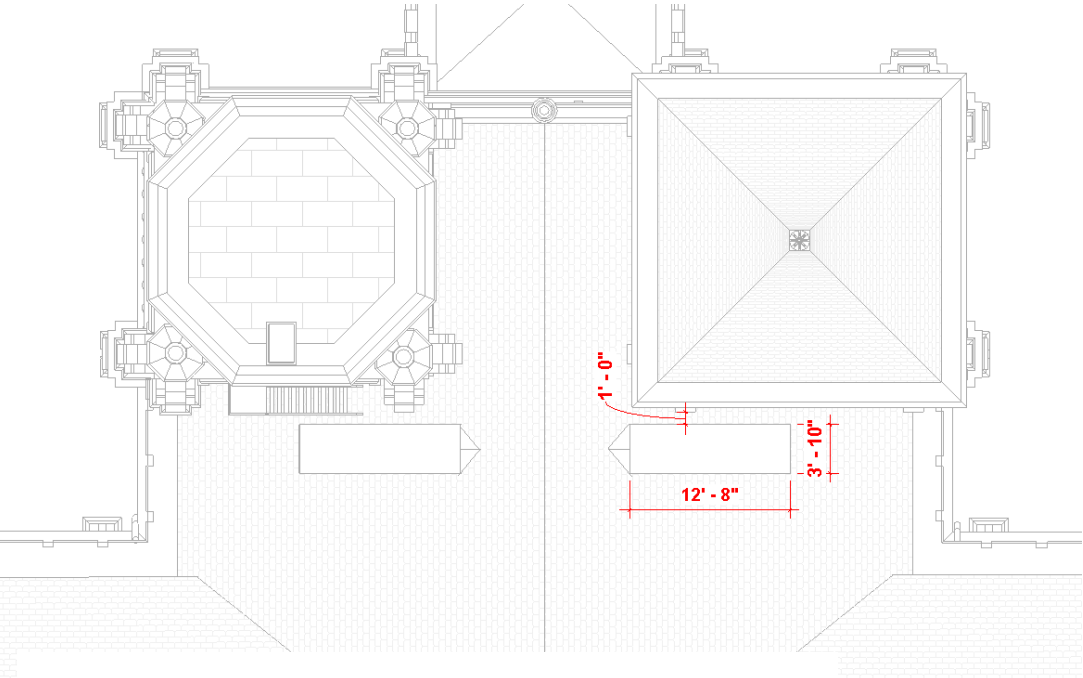
- Limited space between penthouses and towers impacts accessibility and complicates waterproofing





# SMITHSONIAN INSTITUTION BUILDING (SIB)

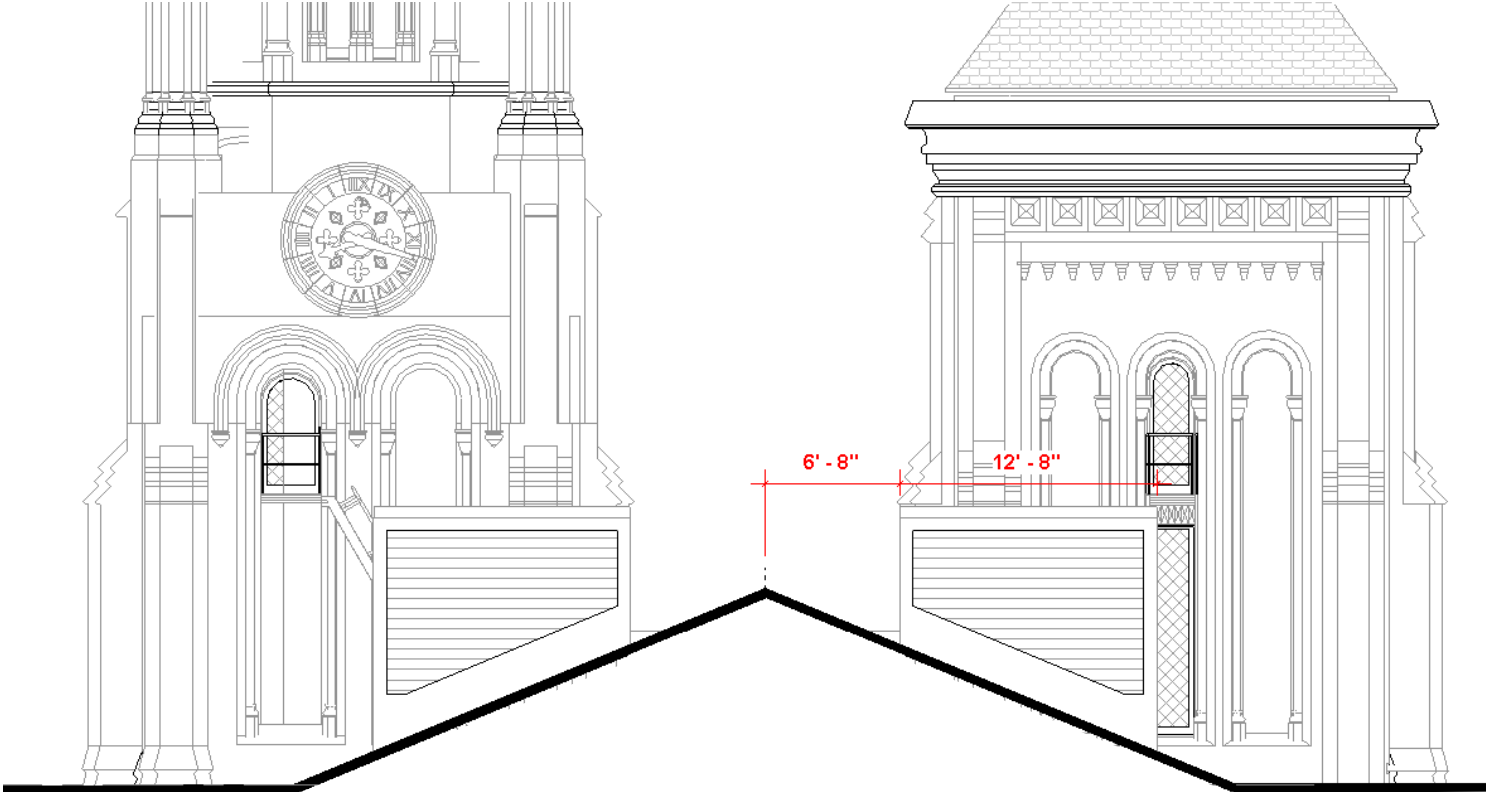
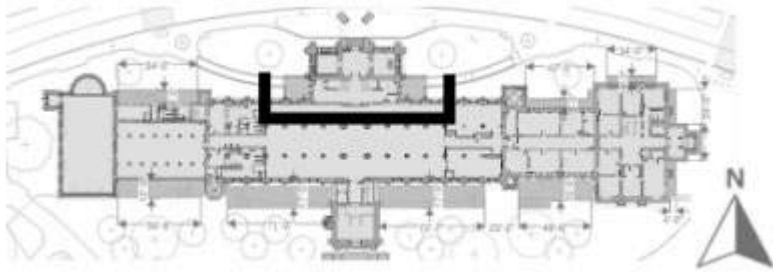
**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
ROOF PLAN + EAST ELEVATION  
*OPTION 3 (ITERATION B)*





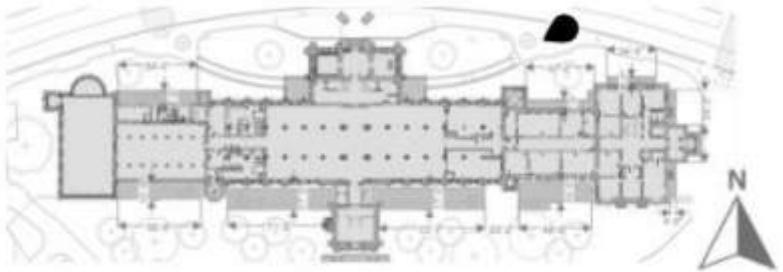
# SMITHSONIAN INSTITUTION BUILDING (SIB)

NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES  
SOUTH ELEVATION  
OPTION 3 (ITERATION B)



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (ITERATION B)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



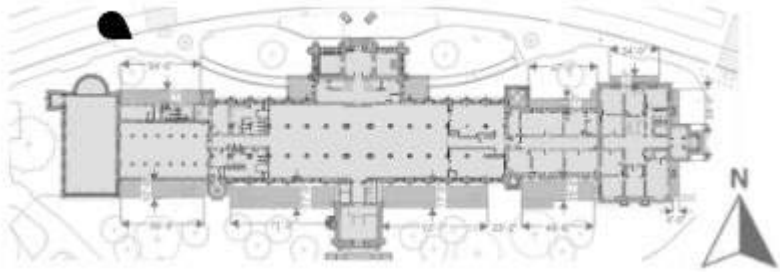
25-30 years



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (ITERATION B)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years



PROPOSED VIEW FROM PATH



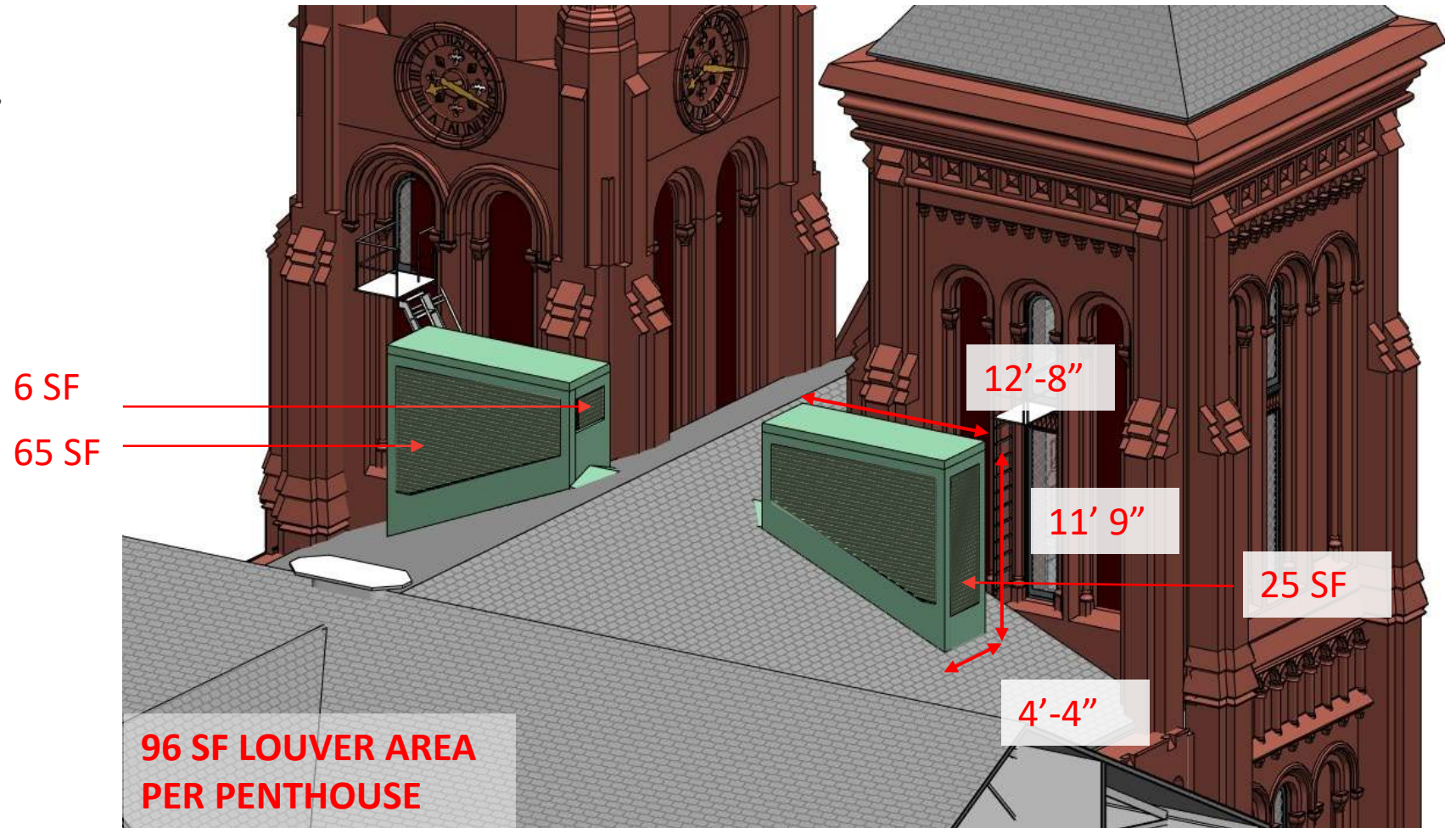
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION OPTION 3 (ITERATION C)

- Penthouses moved closer to roof ridge, closer to tower
- Reduces width of Option 1 by approx. 1'-2"
- Reduces height of Option 1 by approx. 0'-10"

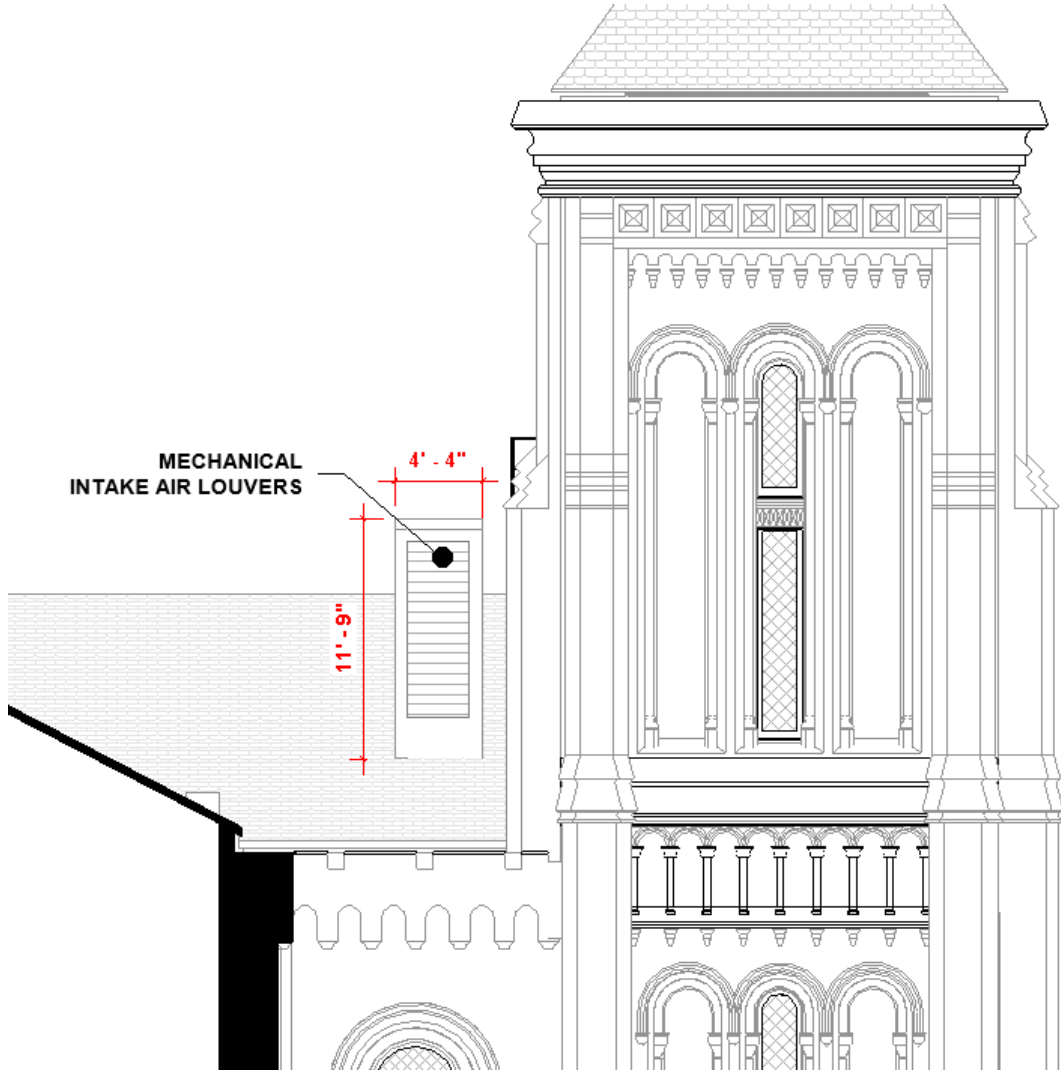
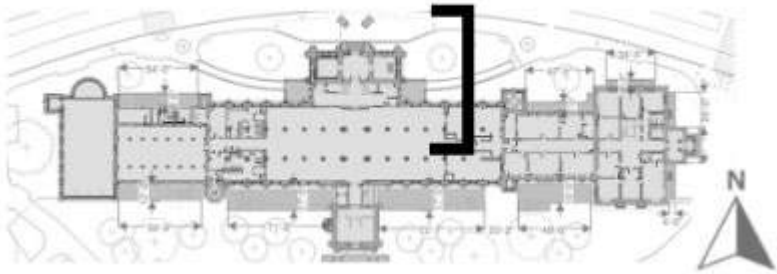
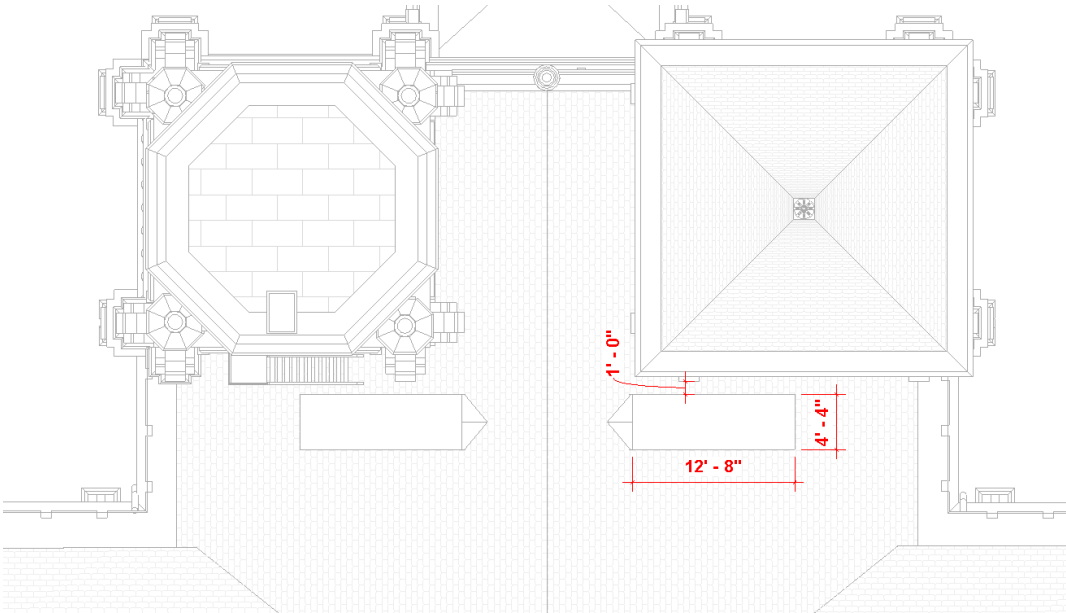
### CHALLENGES

- Limited space between penthouses and towers impacts accessibility and complicates waterproofing



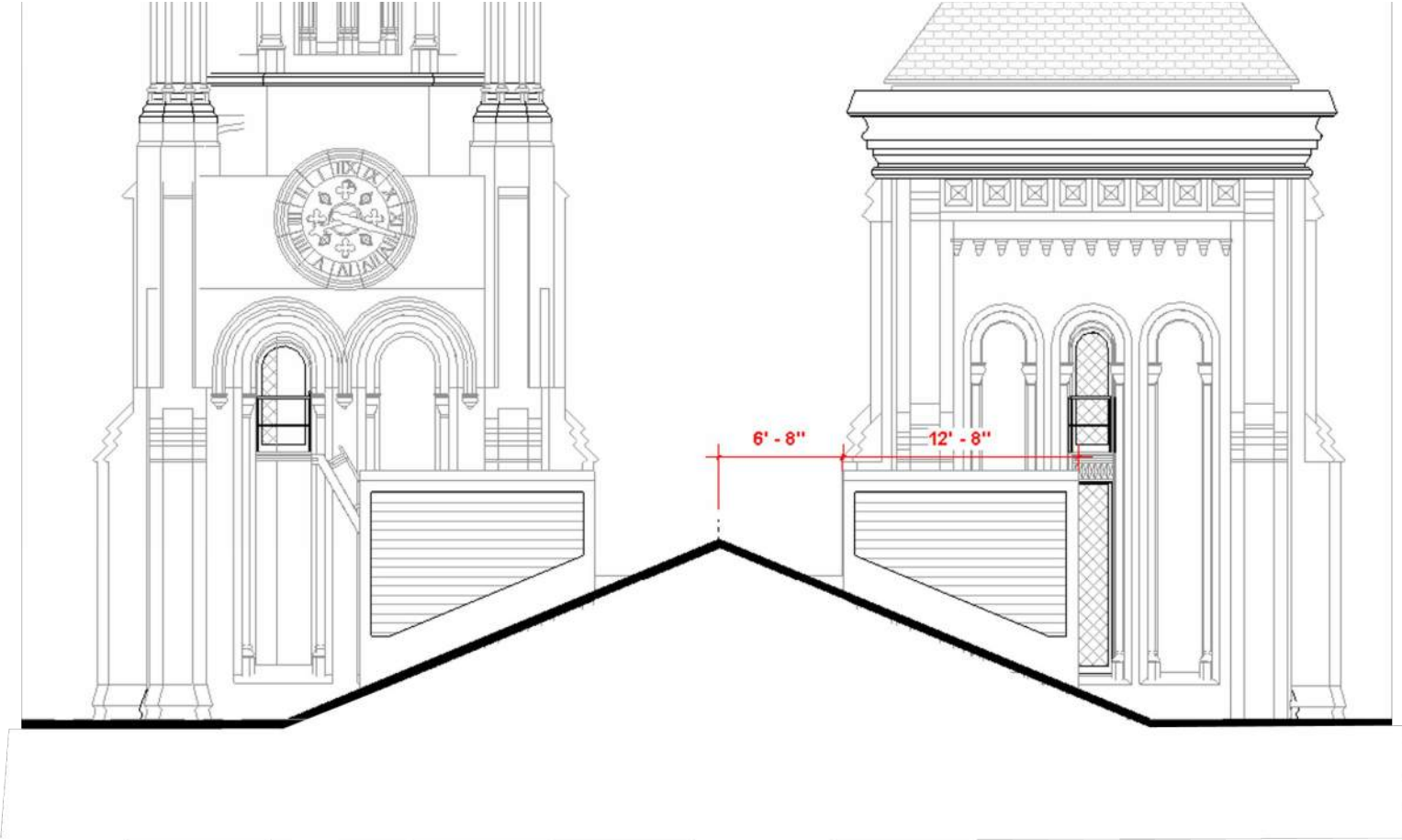
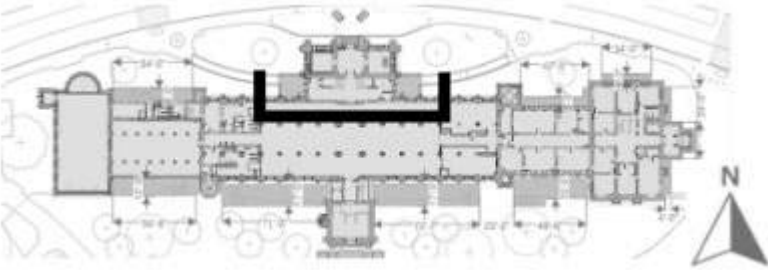
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
ROOF PLAN + EAST ELEVATION  
*OPTION 3 (ITERATION C)*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

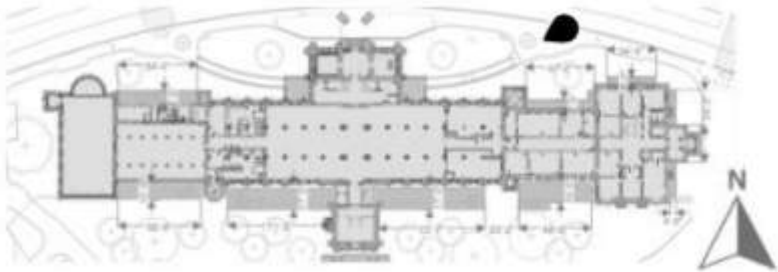
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES  
SOUTH ELEVATION  
OPTION 3 (ITERATION C)





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (ITERATION C)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



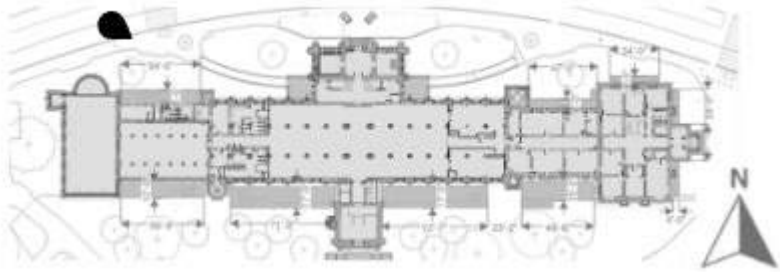
25-30 years



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
VISUALIZATION  
OPTION 3 (ITERATION C)



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years



PROPOSED VIEW FROM PATH



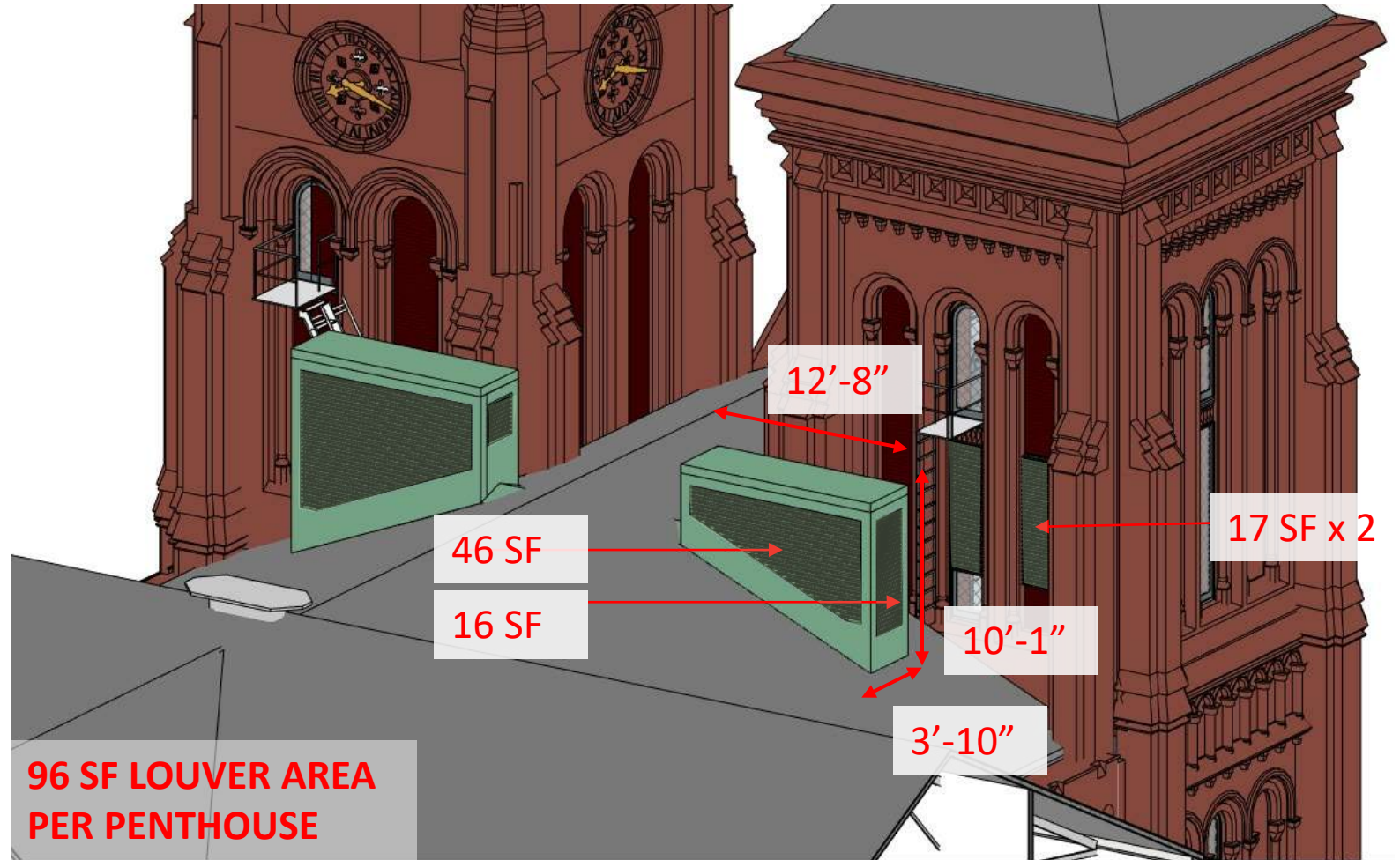
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES VISUALIZATION OPTION 4

- Penthouses moved closer to roof ridge, closer to tower
- Additional louver area distributed to North Tower
- Reduces width of Option 1 by approx. 1'-8"
- Reduces height of Option 1 by approx. 2'-6"

### CHALLENGES

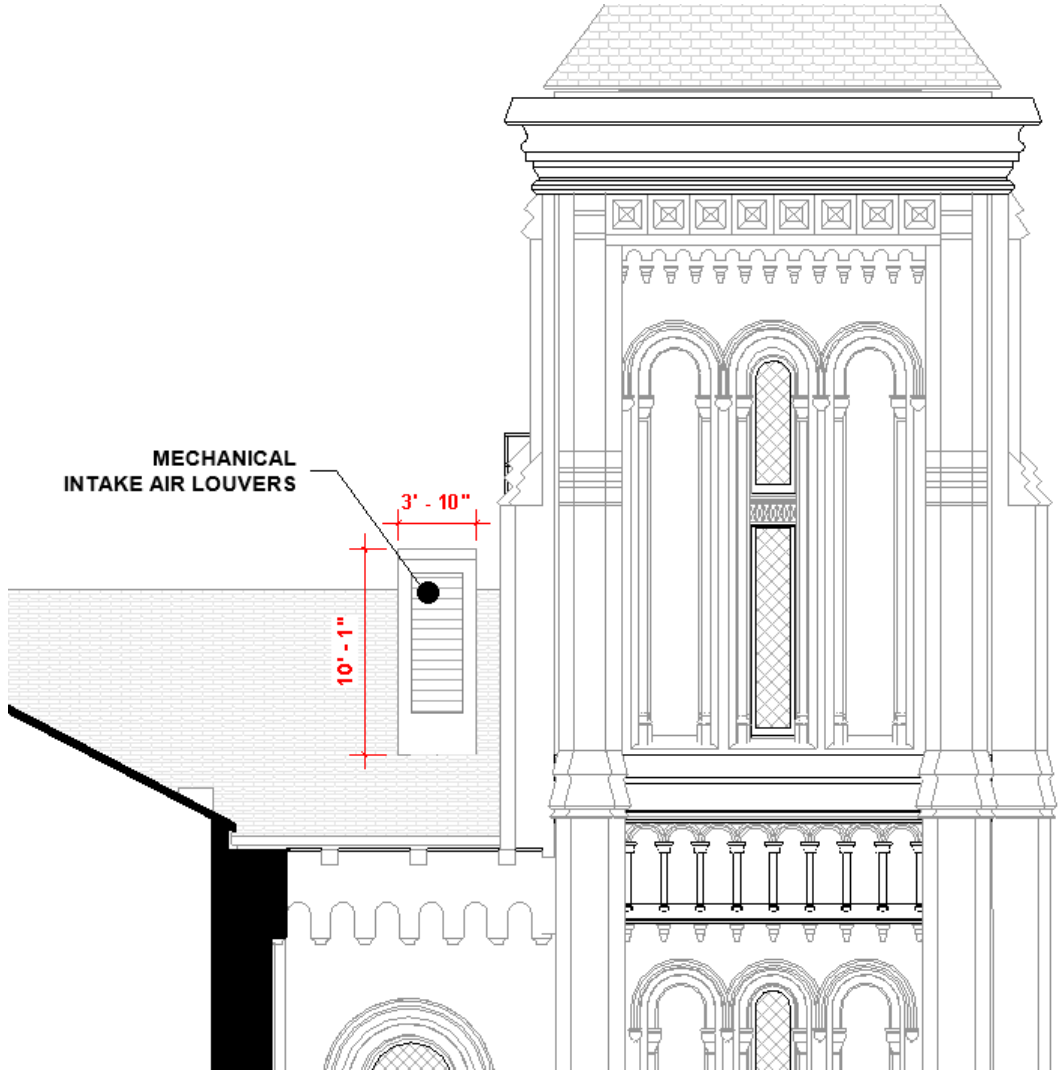
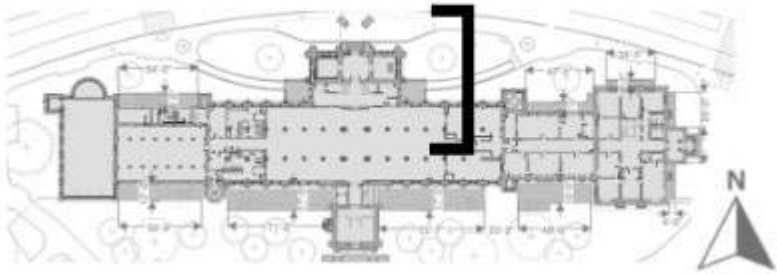
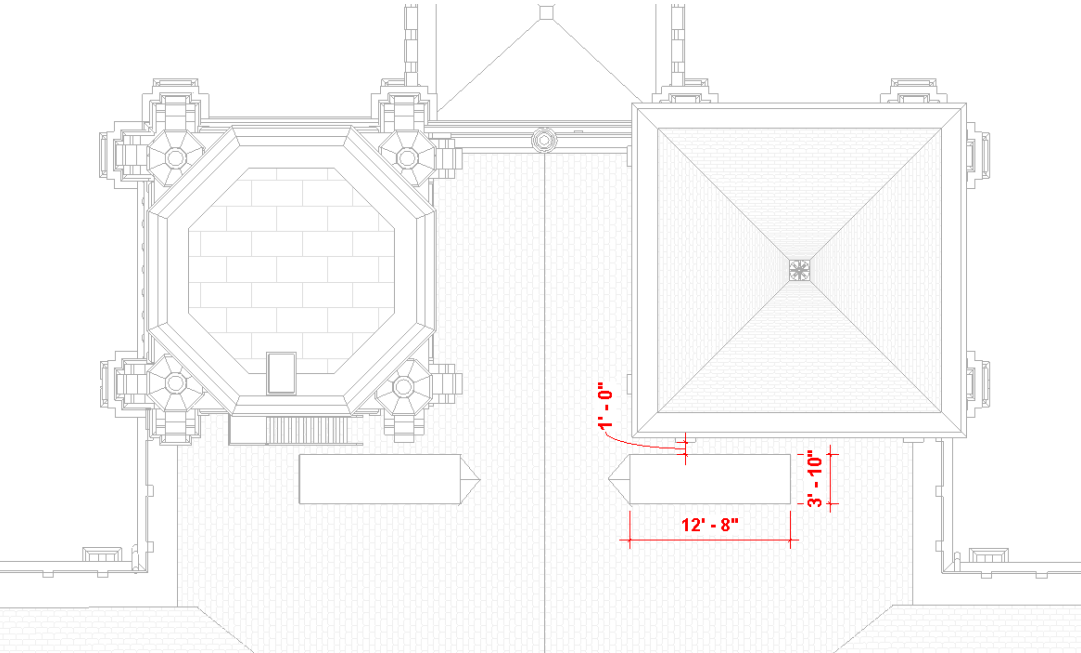
- Routing ductwork from the attic into the North Tower increases risk from seismic events by removing load bearing masonry
- Limited space between penthouses and towers impacts accessibility and complicates waterproofing
- Interior stair reconfiguration requires removal of historic structural elements





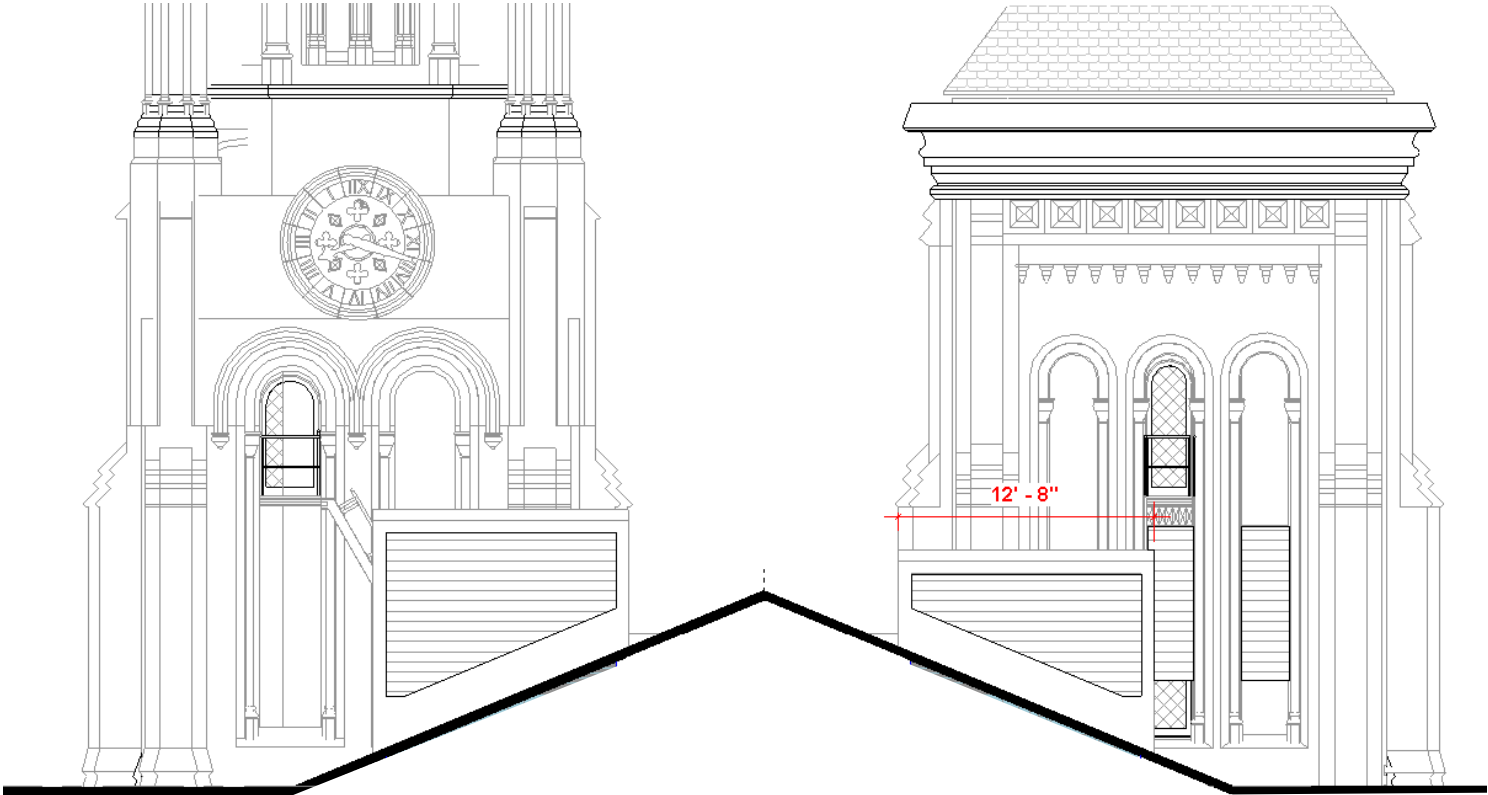
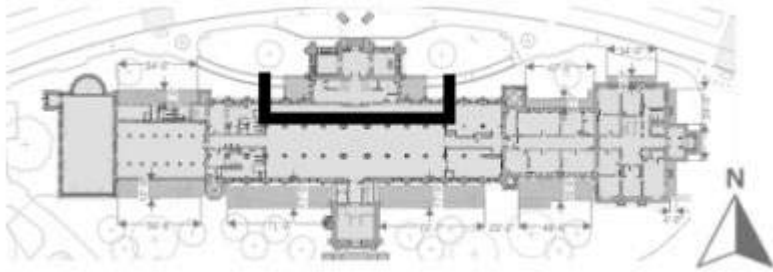
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
ROOF PLAN + EAST ELEVATION  
*OPTION 4*



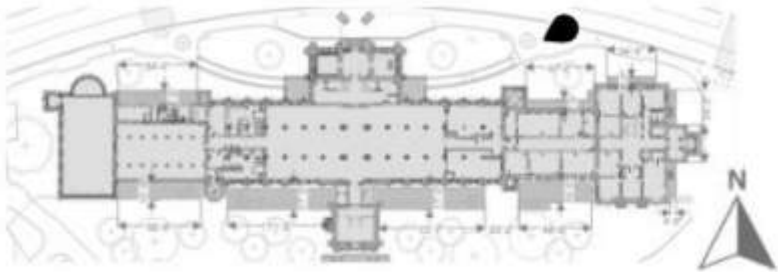
# SMITHSONIAN INSTITUTION BUILDING (SIB)

**NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES**  
SOUTH ELEVATION  
*OPTION 4*



# SMITHSONIAN INSTITUTION BUILDING (SIB)

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



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



25-30 years

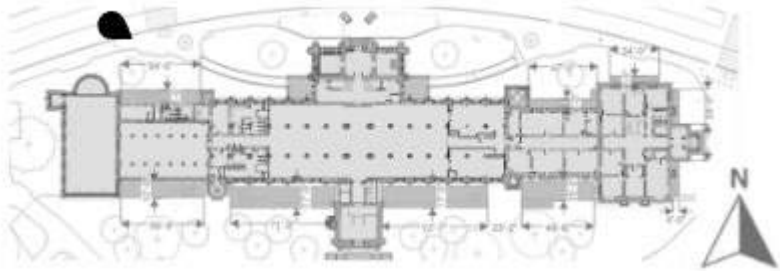


PROPOSED VIEW FROM PATH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

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



EXISTING VIEW FROM PATH



4 months



PROPOSED VIEW FROM PATH



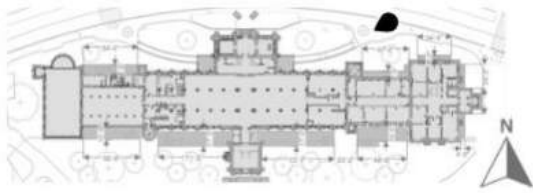
25-30 years



PROPOSED VIEW FROM PATH

# SMITHSONIAN INSTITUTION BUILDING (SIB)

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



OPTION 1 (CP10)



OPTION 2 (CP11)



**OPTION 3a**  
\*preferred



**OPTION 3b**



**OPTION 3c**



**OPTION 4**

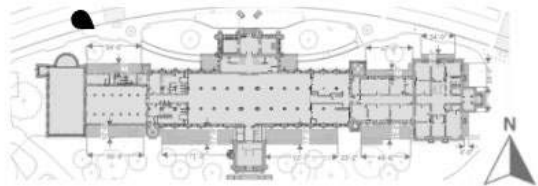


25-30 years



# SMITHSONIAN INSTITUTION BUILDING (SIB)

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



OPTION 1 (CP10)



OPTION 2 (CP11)



**OPTION 3a**  
\*preferred



**OPTION 3b**



**OPTION 3c**



**OPTION 4**



25-30 years



# 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)



# **SOUTH TOWER ELEVATOR** INTERIOR EFFECTS

# 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



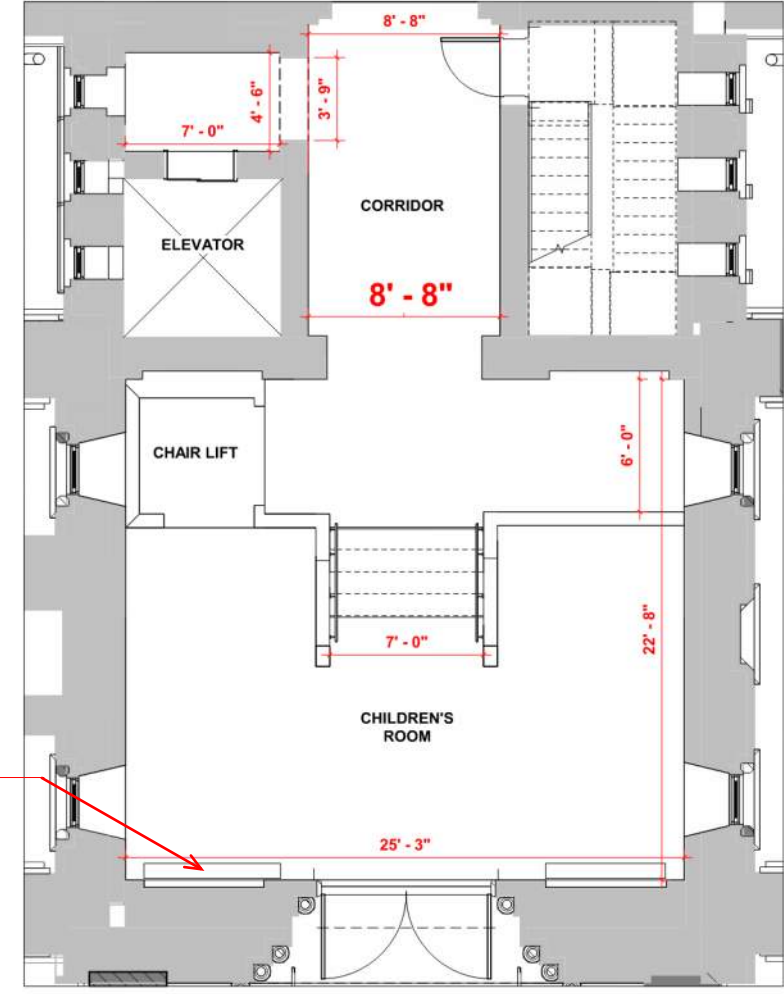
EXISTING CONDITION (looking north)



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



EXISTING CONDITION (looking south)



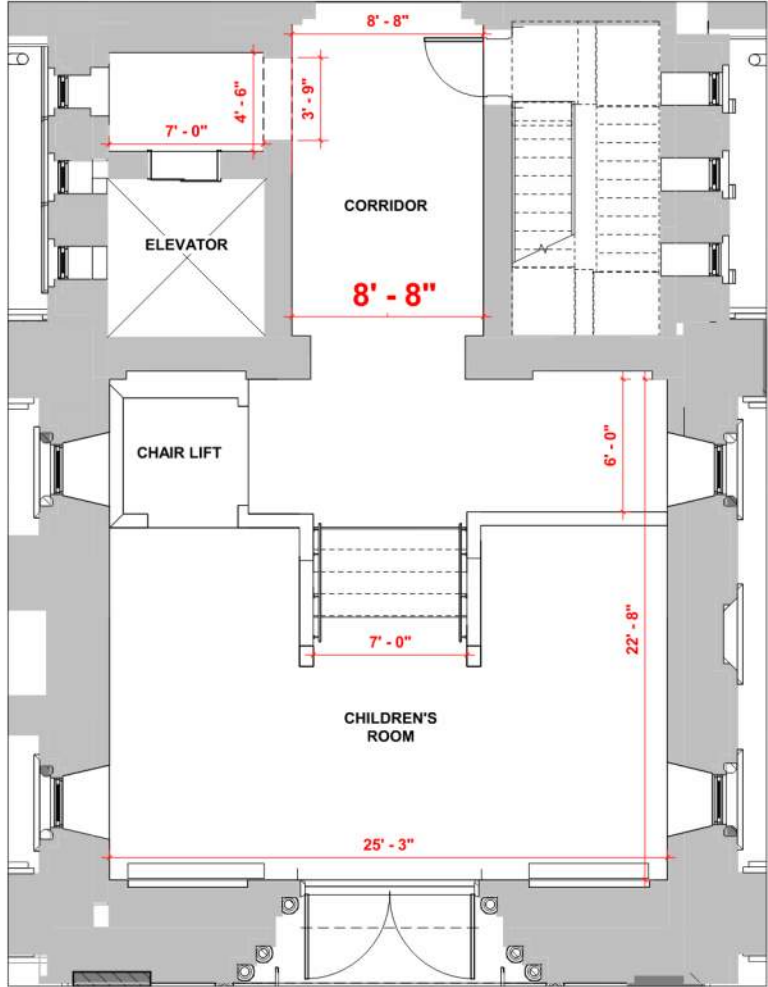
EXISTING PLAN



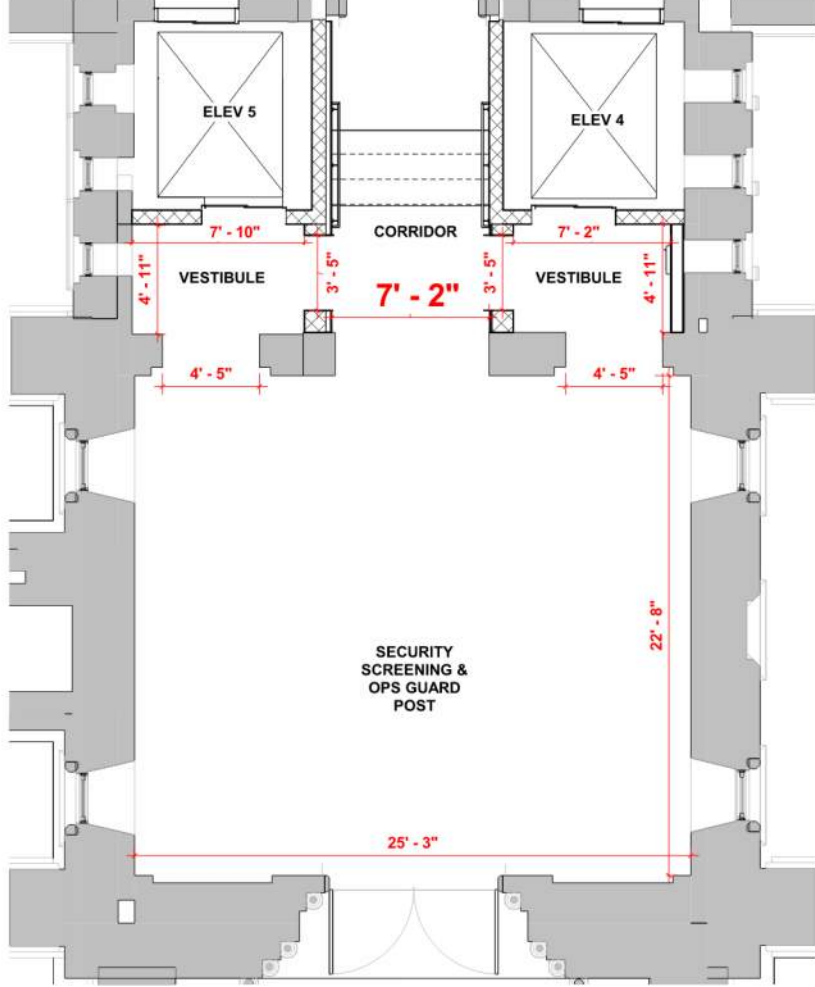
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

LEVEL 1  
PRESENTED FOR CP MEETING #11



EXISTING PLAN



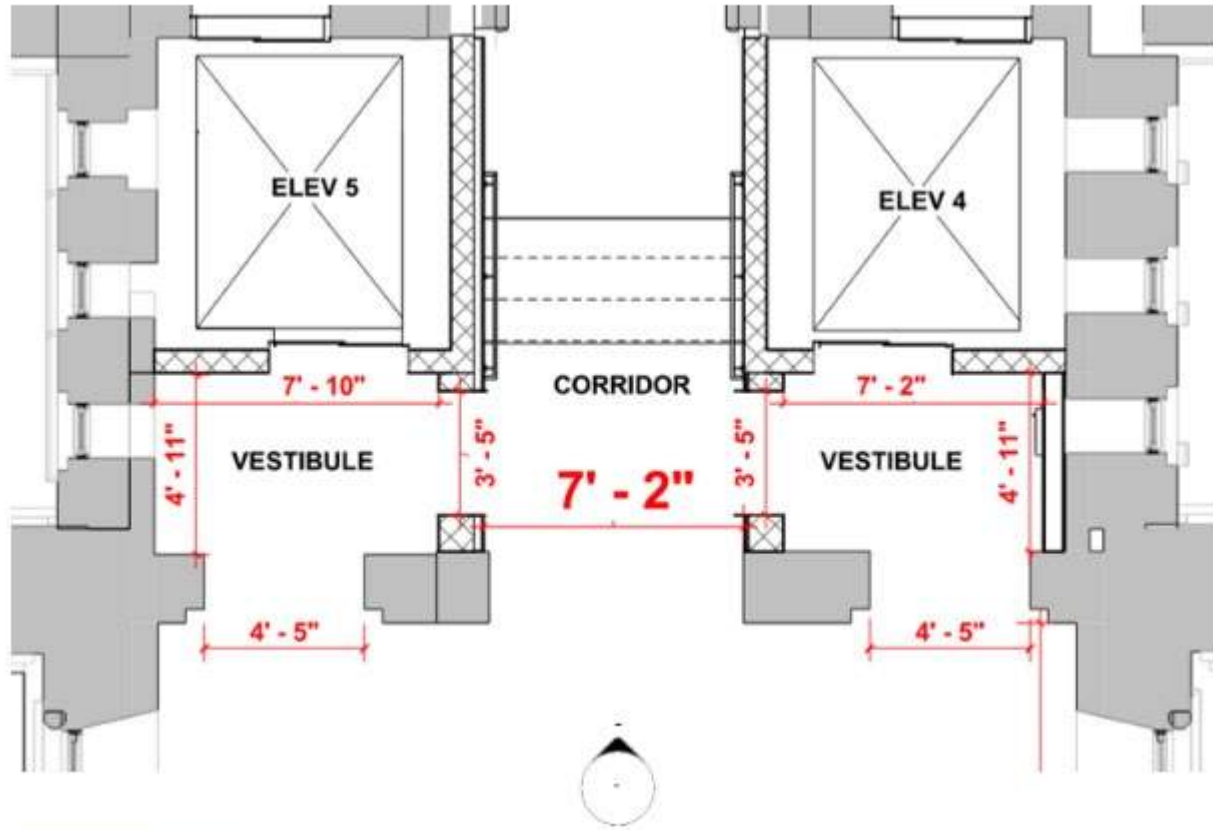
PROPOSED PLAN (CP11)  
CORRIDOR REDUCED BY 1'-6"

# SMITHSONIAN INSTITUTION BUILDING (SIB)

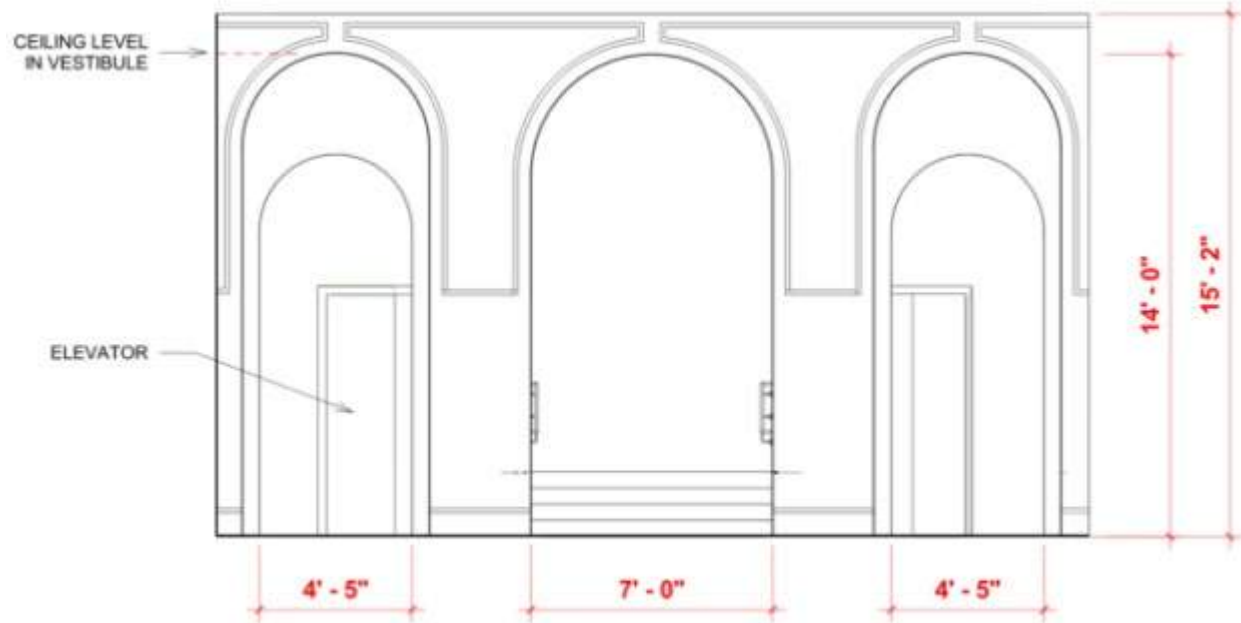
## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

LEVEL 1

PRESENTED FOR CP MEETING #11



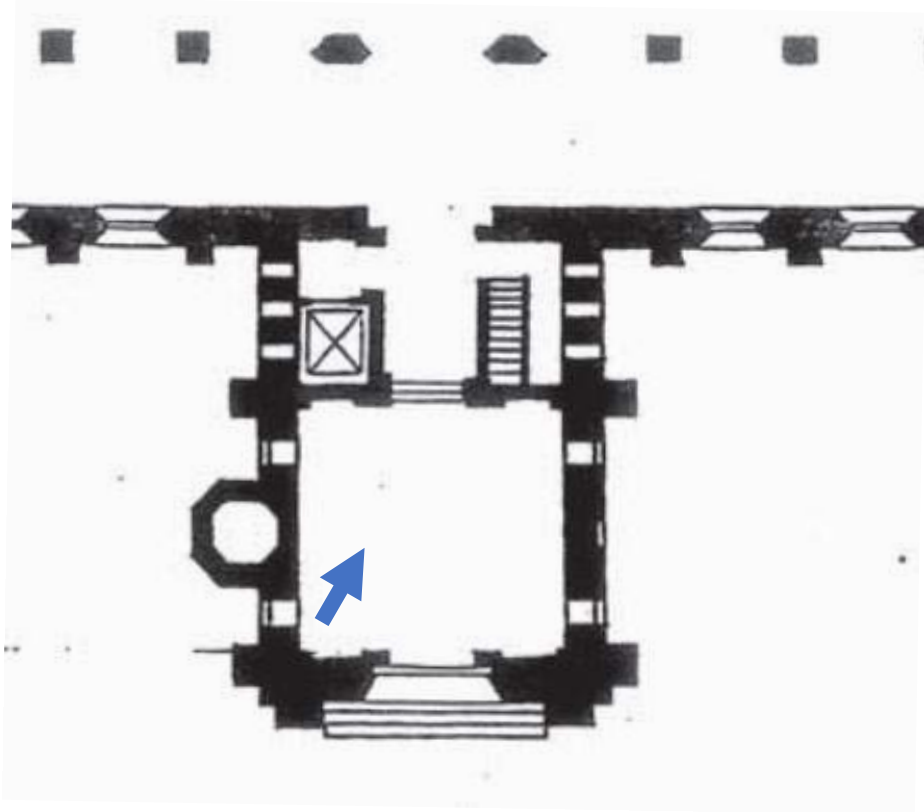
PROPOSED PLAN



PROPOSED ELEVATION - NORTH  
ARCHED OPENING (OPT 1A)

# SMITHSONIAN INSTITUTION BUILDING (SIB)

**SOUTH TOWER ELEVATOR** | INTERIOR EFFECTS  
LEVEL 1 (UPDATE)  
HISTORIC PRECEDENTS



HISTORIC PLAN (1968)

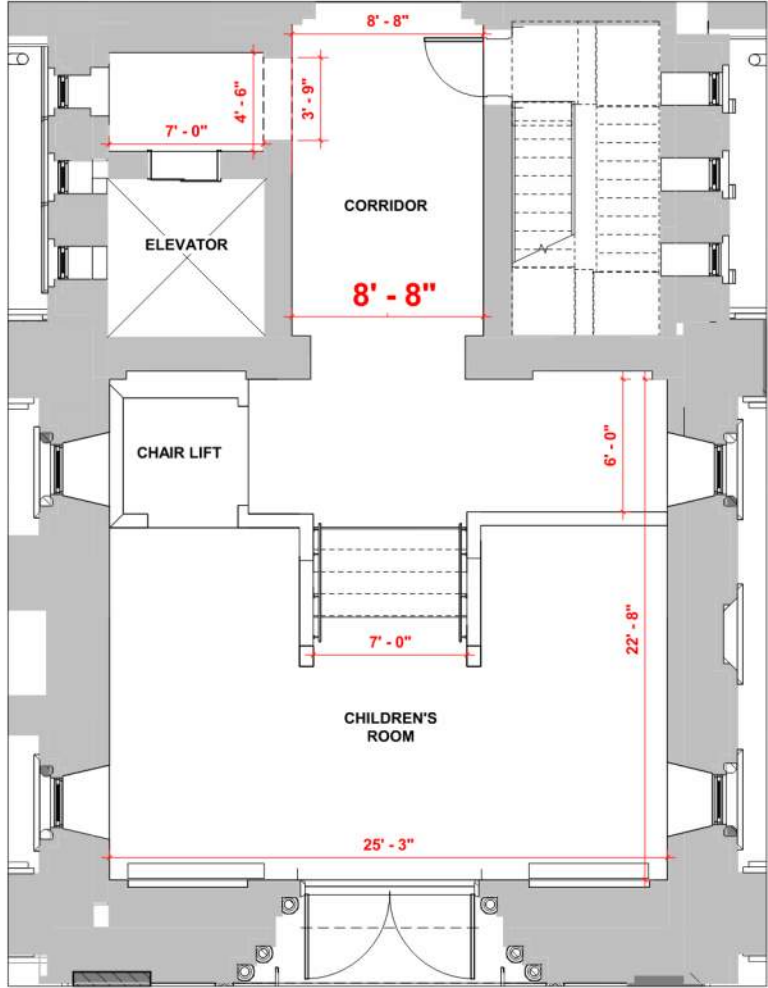


HISTORIC PHOTOGRAPH (LOOKING NORTHEAST))

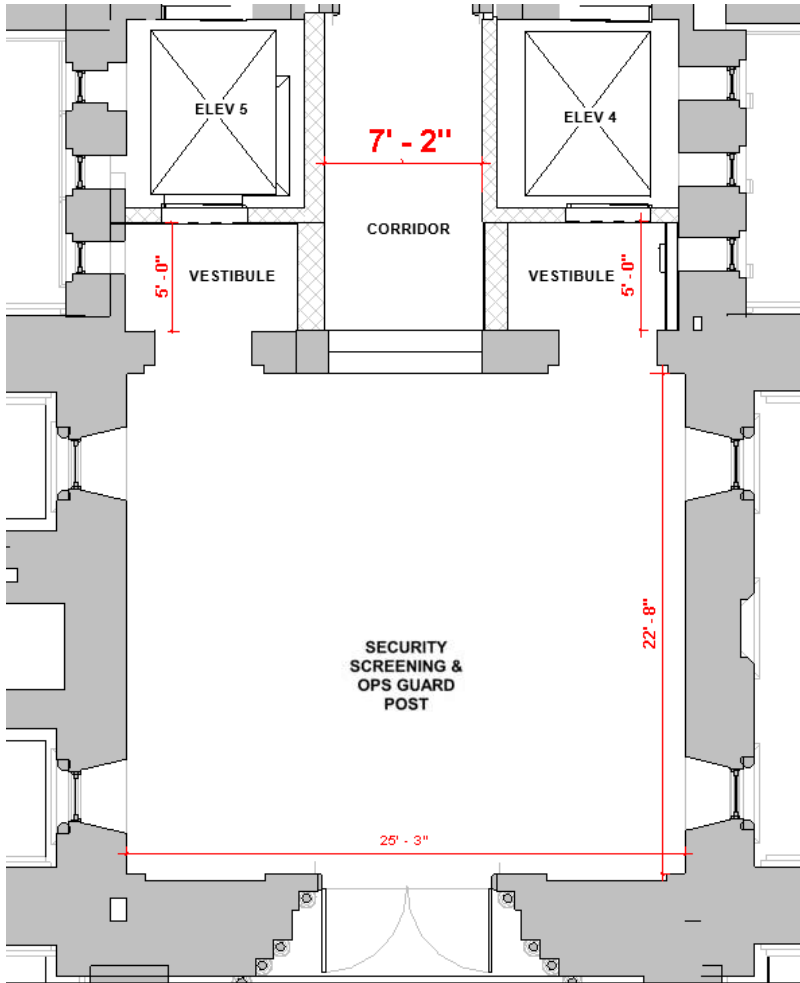


# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 1 (UPDATE)



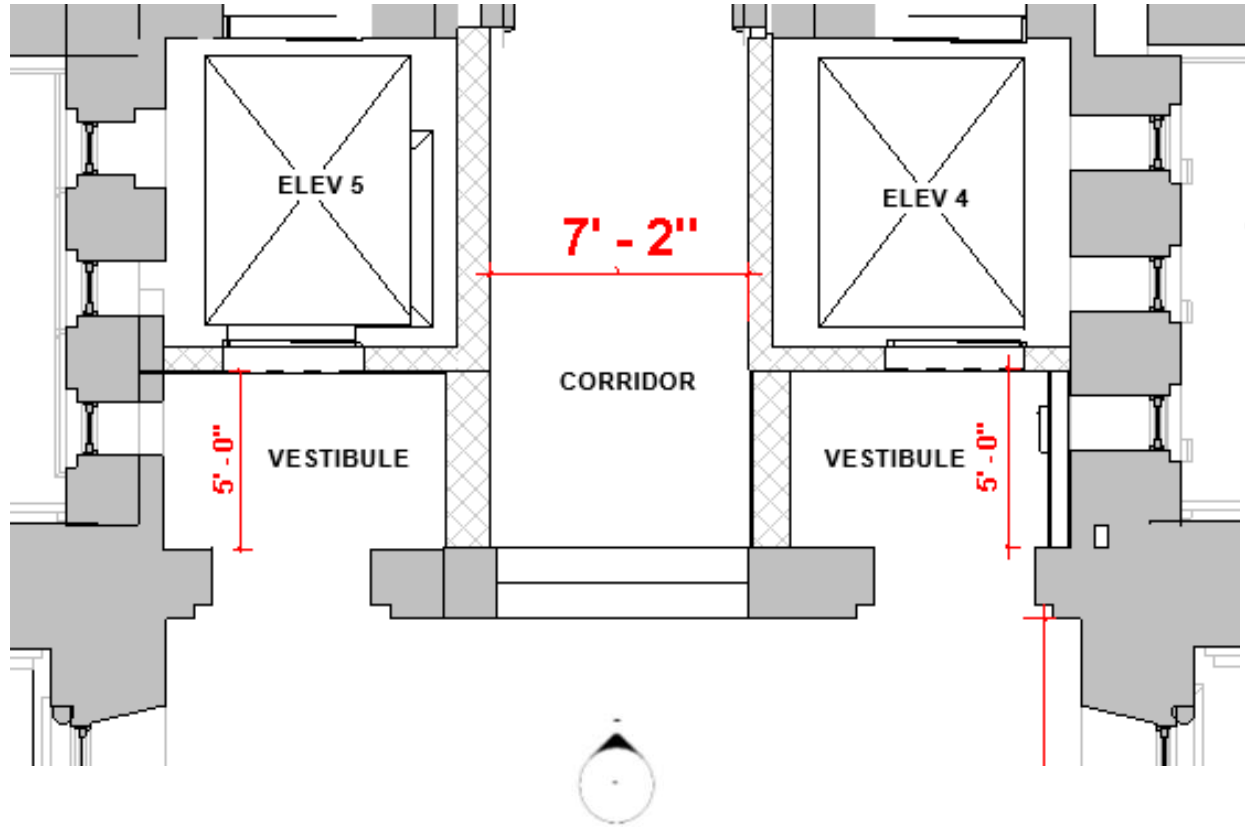
EXISTING PLAN



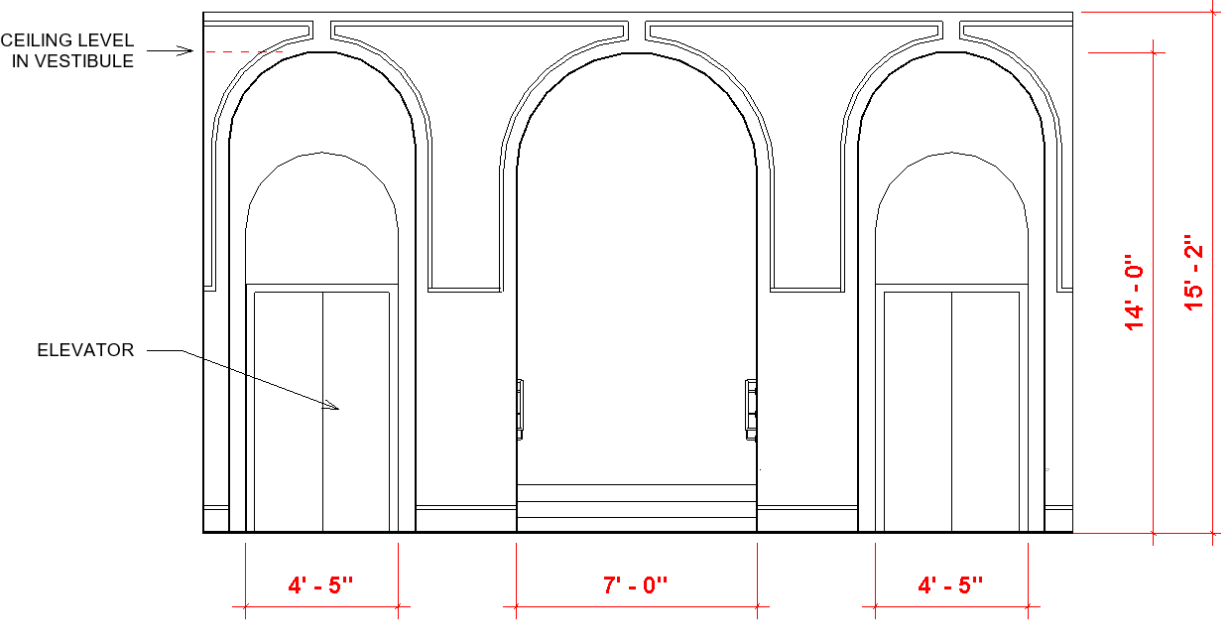
PROPOSED PLAN (UPDATED)  
CORRIDOR REDUCED BY 1'-6"

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS LEVEL 1 (UPDATE)



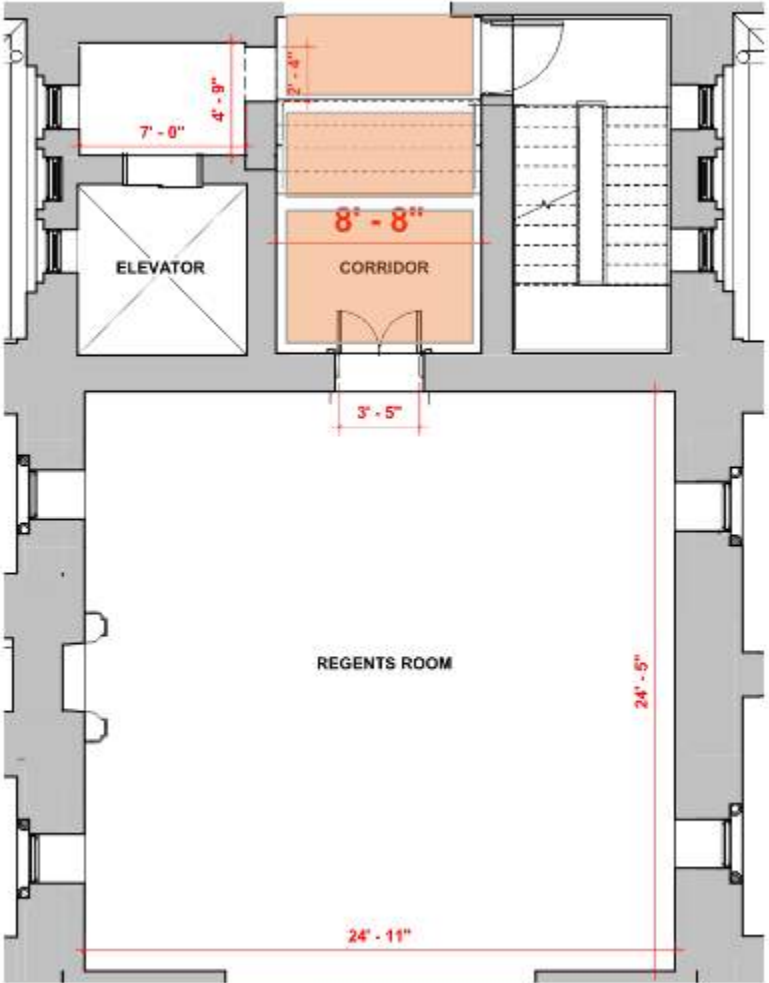
PROPOSED PLAN



PROPOSED ELEVATION

# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
LEVEL 3



LOCATION OF MOSAIC



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



# SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
LEVEL 3



UPPER MOSAIC WITH EMBLEM



DETAIL OF EMBLEM



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

### LEVEL 3

- 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 REMOVAL & SALVAGE (PRESENTED FOR CP11)  
*\*PREFERRED APPROACH*

## UPPER

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

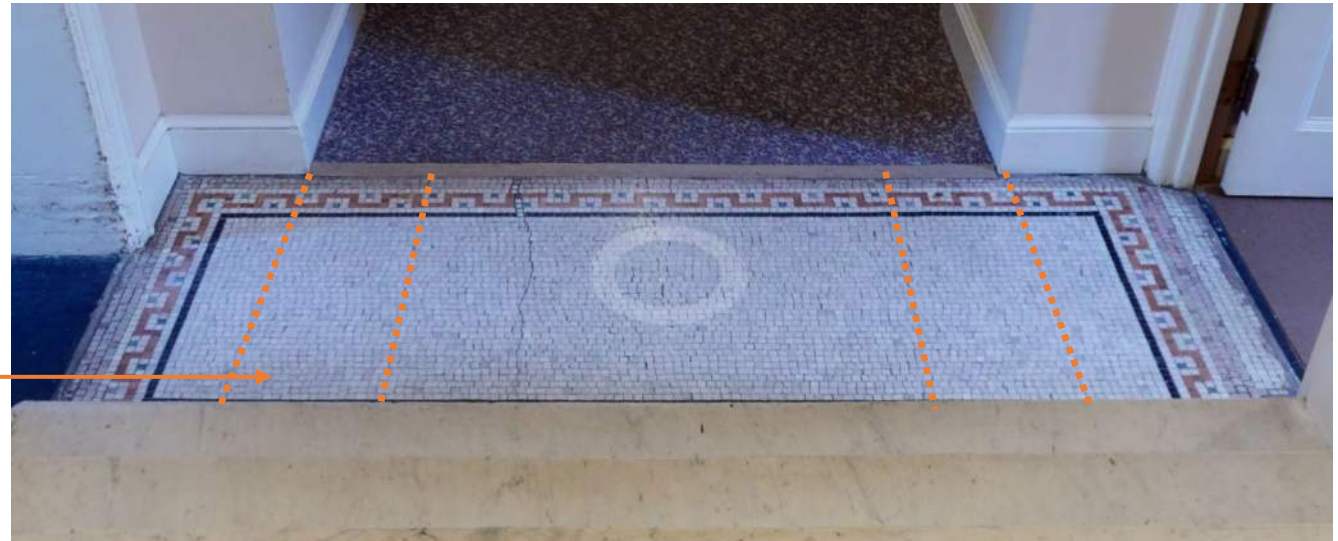


remove &  
salvage

UPPER MOSAIC - AREA OF REMOVAL & SALVAGE

## LOWER

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



remove &  
salvage

LOWER MOSAIC - AREA OF REMOVAL & SALVAGE



# SMITHSONIAN INSTITUTION BUILDING (SIB)

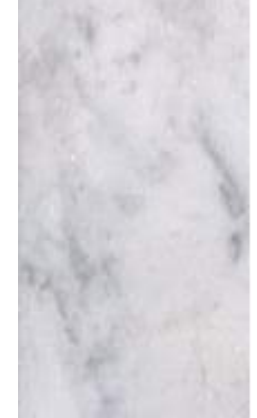
SOUTH TOWER ELEVATOR | INTERIOR EFFECTS  
EXISTING WIDTH



# SMITHSONIAN INSTITUTION BUILDING (SIB)

**SOUTH TOWER ELEVATOR** | INTERIOR EFFECTS  
PROPOSED WIDTH  
*OPTION 1a - MARBLE INFILL (PREFERRED OPTION)*

MARBLE  
INFILL



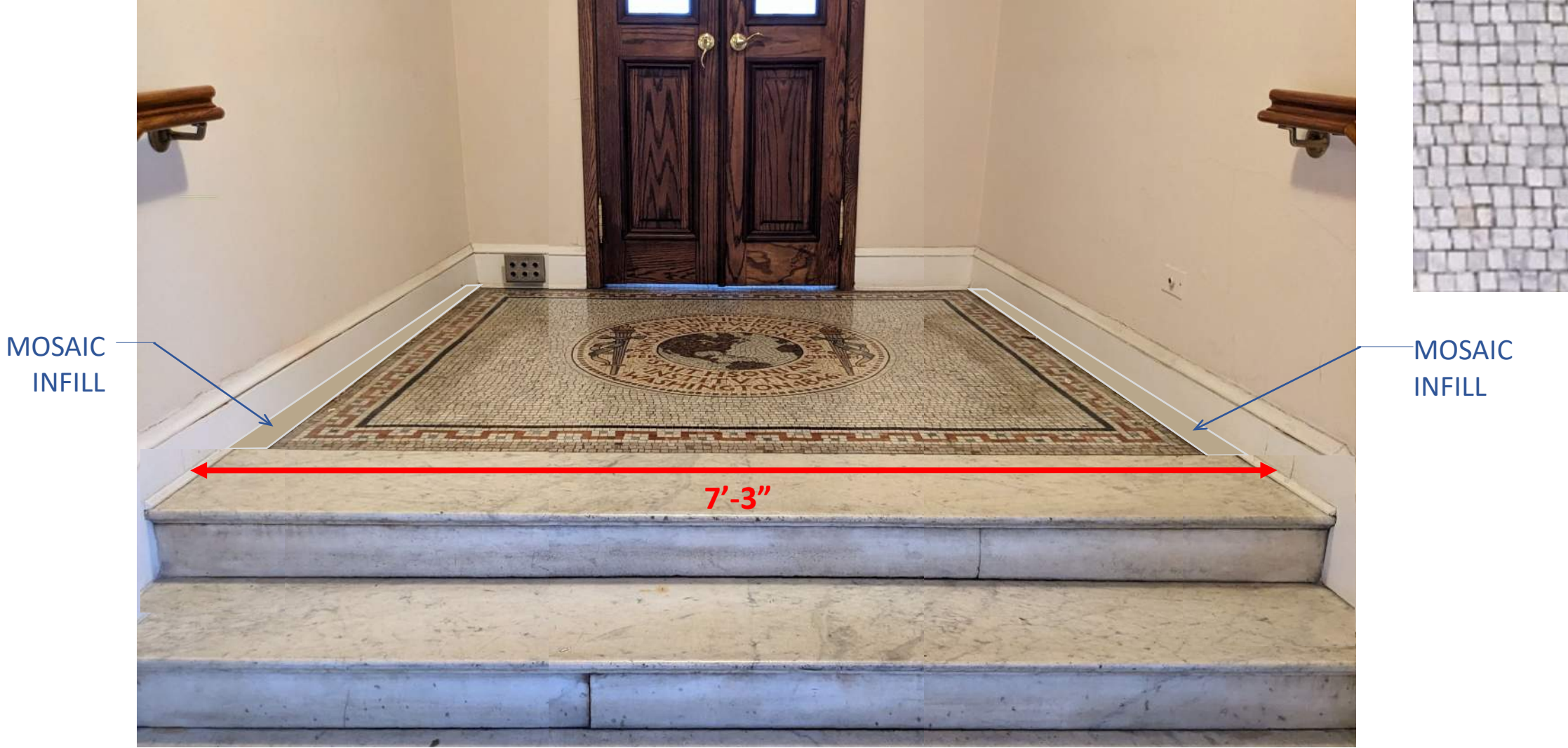
MARBLE  
INFILL



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

PROPOSED WIDTH  
OPTION 1b - MOSAIC INFILL





# SMITHSONIAN INSTITUTION BUILDING (SIB)

## SOUTH TOWER ELEVATOR | INTERIOR EFFECTS

### PROPOSED WIDTH

#### OPTION 2 – REMOVE MOSAIC AT WALL

- 8 ¾" of mosaic to be removed from each side
- Pattern not reconstructed



UPPER MOSAIC

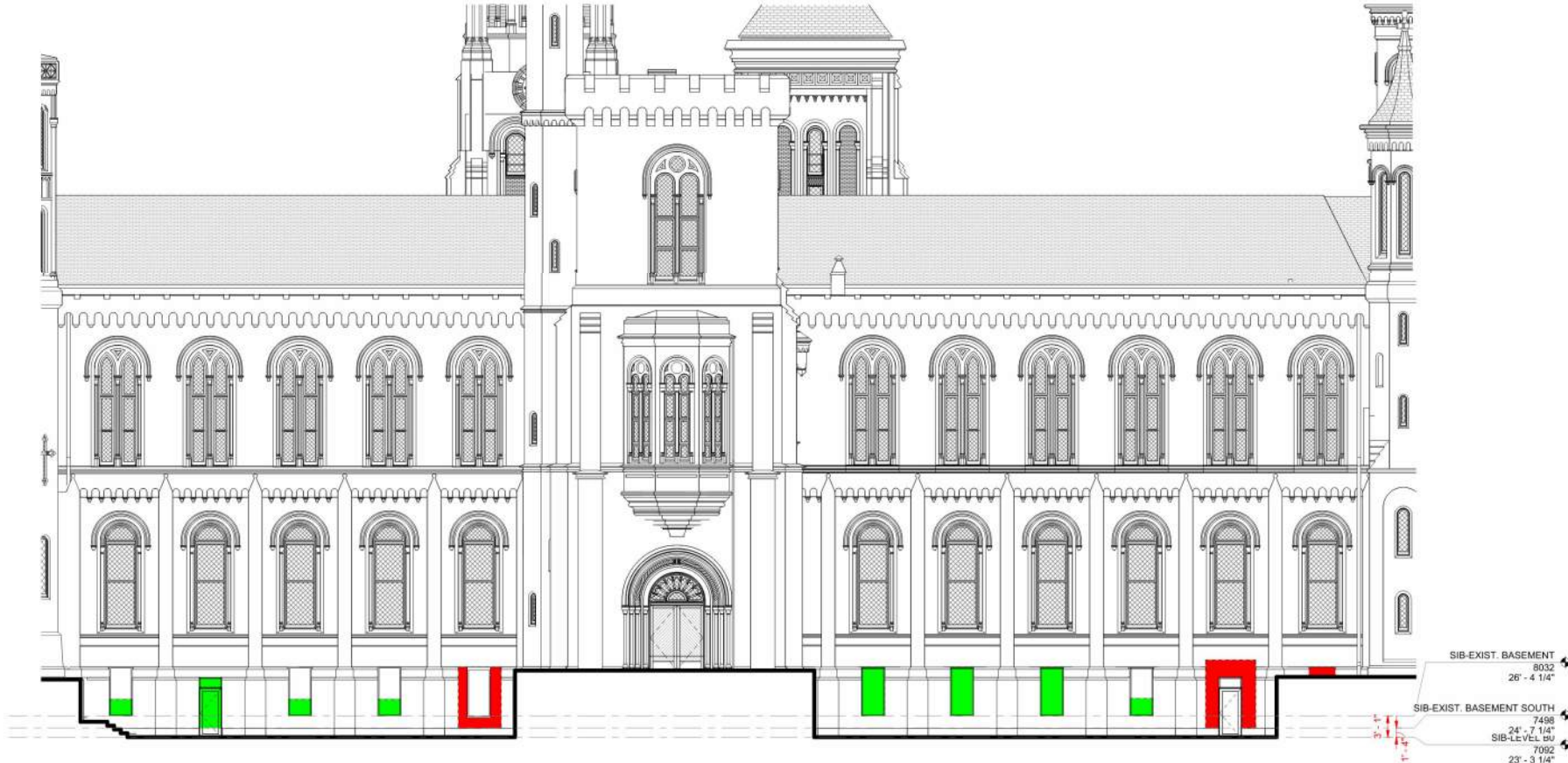
MOSAIC CUT AT WALL

# **BASEMENT WINDOWS AND DOORS**

## EXTENT OF EXISTING MASONRY REMOVALS

# SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS  
SOUTH ELEVATION



- Proposed Removals in Existing Masonry
- Proposed Infills in Existing Masonry



# SMITHSONIAN INSTITUTION BUILDING (SIB)

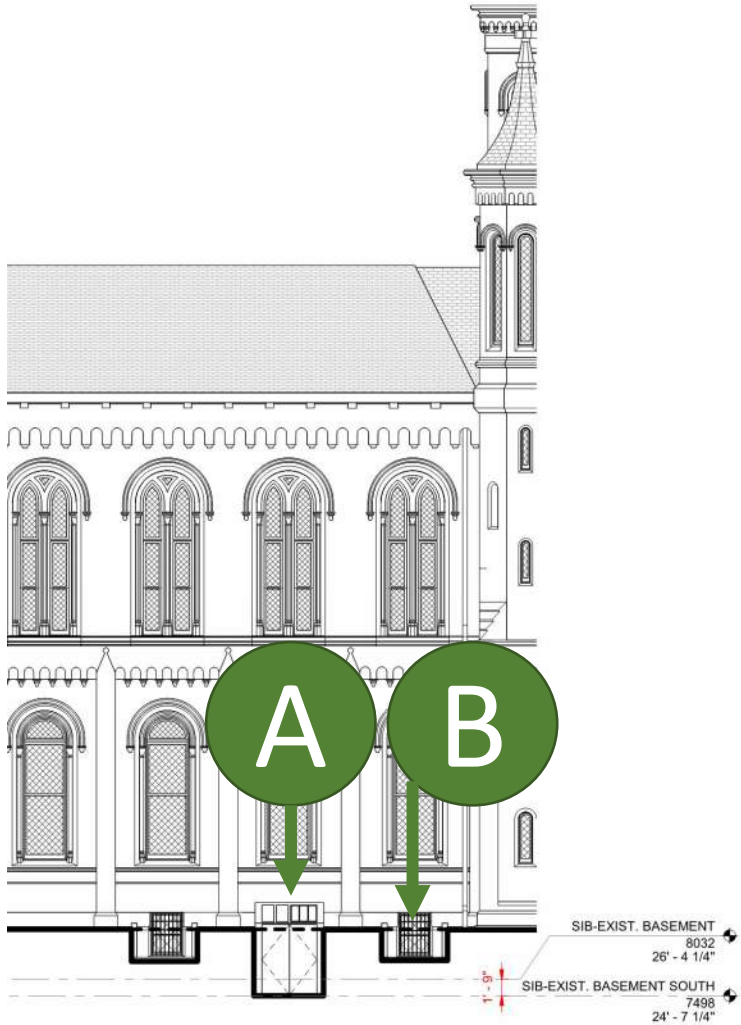
**WINDOWS** | EXTENTS OF EXISTING MASONRY REMOVALS  
EXISTING PHOTOGRAPHS FROM SURVEY



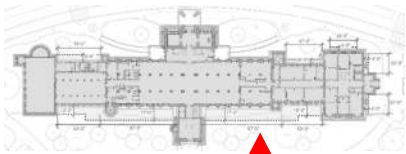
EXISTING DOOR AT SOUTHEAST OF GREAT HALL



EXISTING WINDOW AND AT SOUTHEAST OF GREAT HALL



GREAT HALL SOUTHEAST ELEVATION





# SMITHSONIAN INSTITUTION BUILDING (SIB)

**WINDOWS** | EXTENTS OF EXISTING MASONRY REMOVALS  
EXISTING PHOTOGRAPHS FROM SURVEY

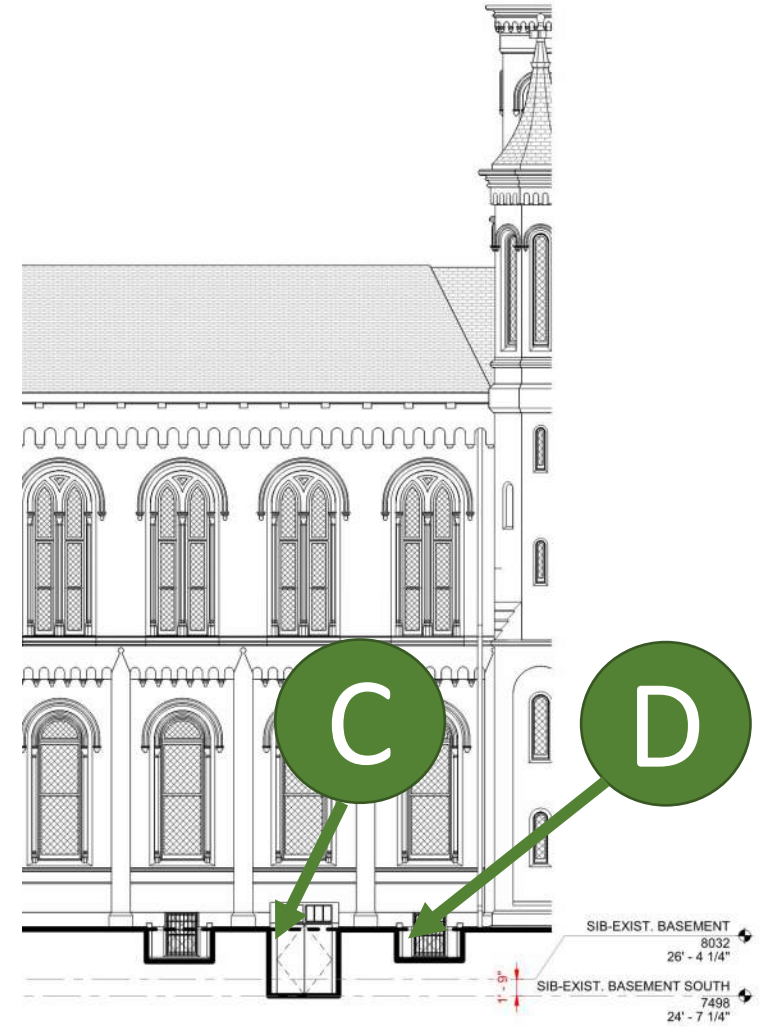


EXISTING DOOR At SOUTHEAST OF GREAT HALL

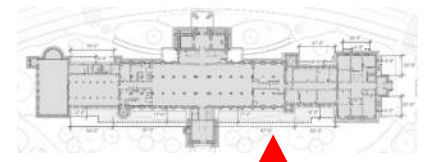


EXISTING WINDOW WELL DEPTH (36" +/-)

EXISTING WINDOW AND AT SOUTHEAST OF GREAT HALL



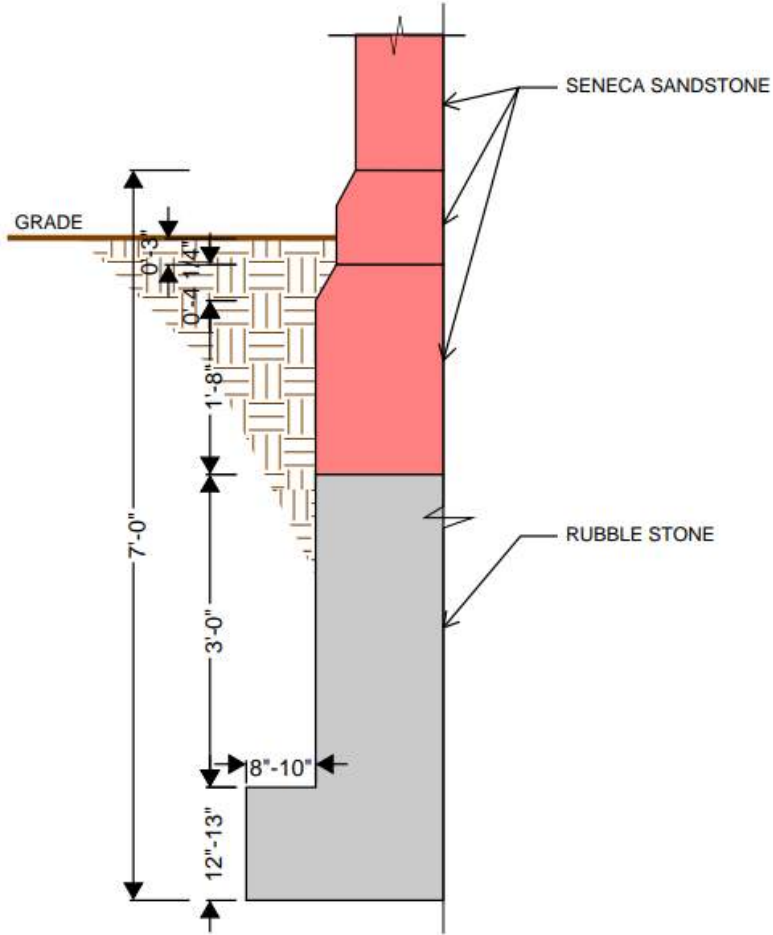
GREAT HALL SOUTHEAST ELEVATION





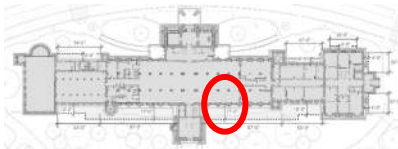
# SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS  
STRUCTURAL TESTPIT FINDINGS



IMAGES FROM STRUCTURAL TESTPIT EXPLORATION

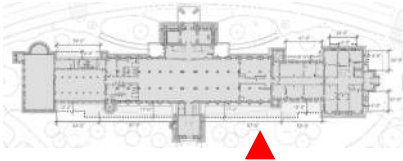
DIAGRAM OF BELOW GRADE EXTERIOR ASSEMBLY





# SMITHSONIAN INSTITUTION BUILDING (SIB)

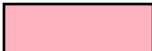
WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS  
GREAT HALL SOUTHEAST ELEVATION




SIB-EXIST. BASEMENT  
8032  
26' - 4 1/4"

SIB-EXIST. BASEMENT SOUTH  
7498  
24' - 7 1/4"

SIB-LEVEL B0  
7092  
23' - 3 1/4"

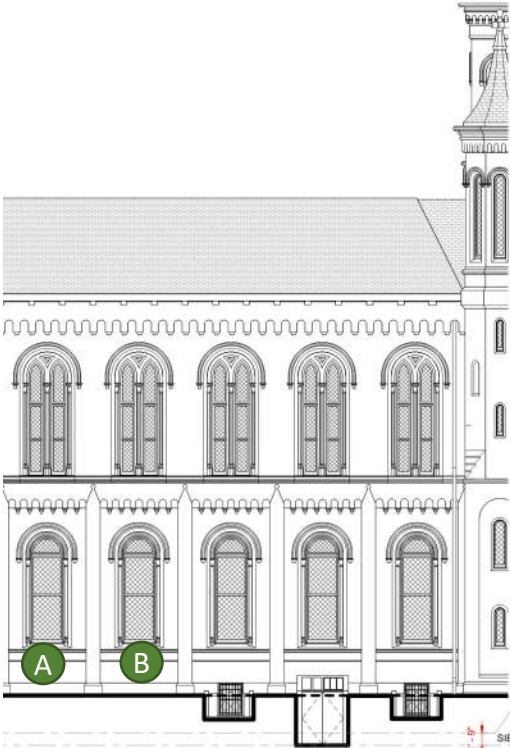
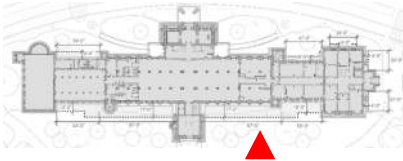
 EXISTING SENECA SANDSTONE UNIT

 EXISTING RUBBLE STONE

 EXISTING BRICK MASONRY

# SMITHSONIAN INSTITUTION BUILDING (SIB)

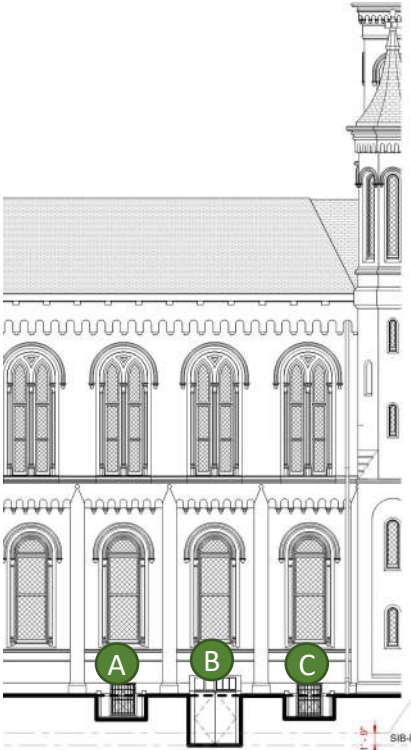
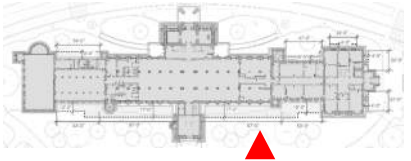
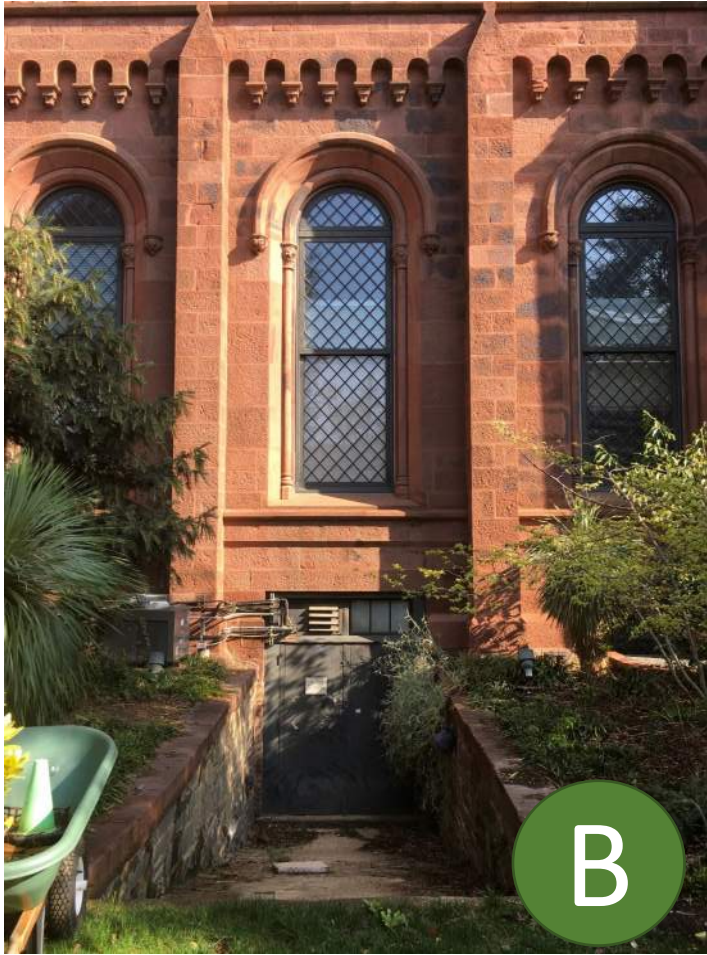
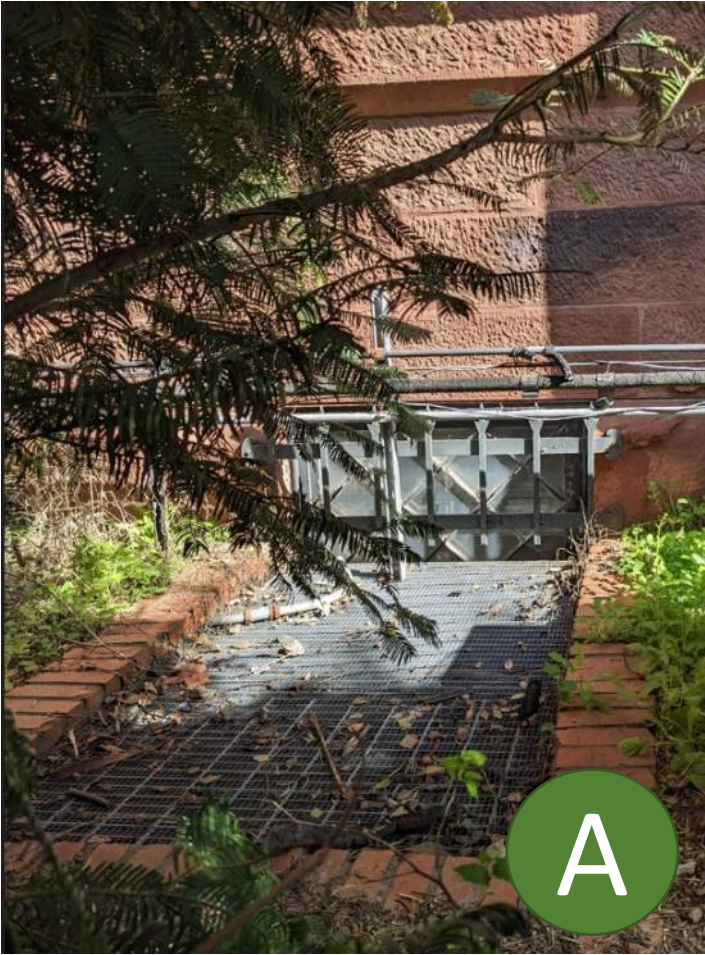
WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS  
GREAT HALL SOUTHEAST ELEVATION





# SMITHSONIAN INSTITUTION BUILDING (SIB)

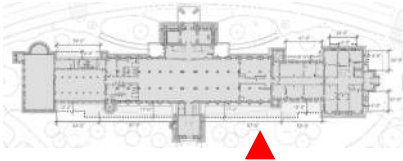
WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS  
GREAT HALL SOUTHEAST ELEVATION






# SMITHSONIAN INSTITUTION BUILDING (SIB)


## WINDOWS | EXTENTS OF EXISTING MASONRY REMOVALS GREAT HALL SOUTHEAST ELEVATION

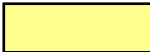


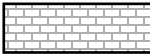
SIB-EXIST. BASEMENT  
8032  
26' - 4 1/4"


SIB-LEVEL B0  
7092  
23' - 3 1/4"

 EXISTING SENECA SANDSTONE UNIT

 EXISTING RUBBLE STONE

 NEW INFILL IN EXISTING OPENINGS

 EXISTING BRICK MASONRY

 EXISTING SENECA SANDSTONE UNITS TO BE REMOVED FOR NEW WINDOW OPENING AND TO BE CUT AND REPLACED.

# 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)



# **LANDSCAPE**

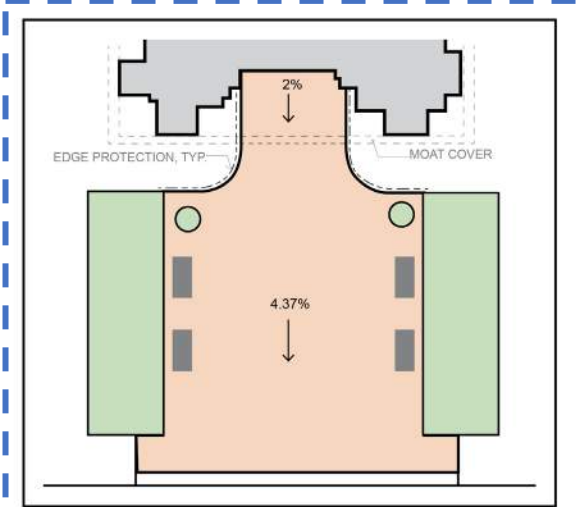
## SOUTH ENTRY RAMP, RAILINGS, PAVING



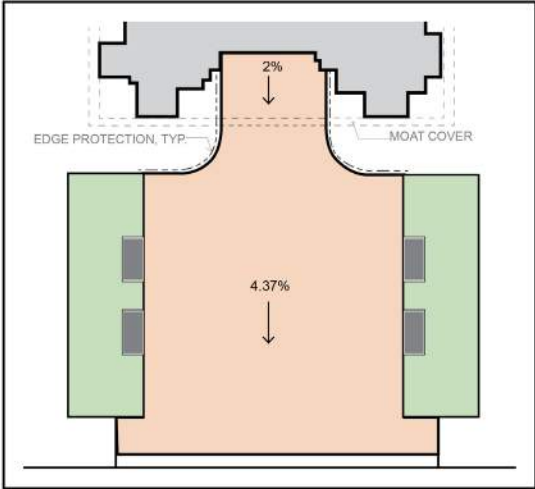
# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | SOUTH ENTRY RAMP PROPOSED OPTIONS

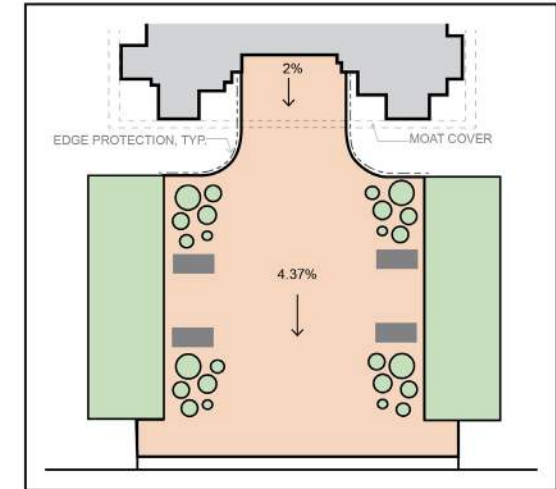
PREFERRED OPTION



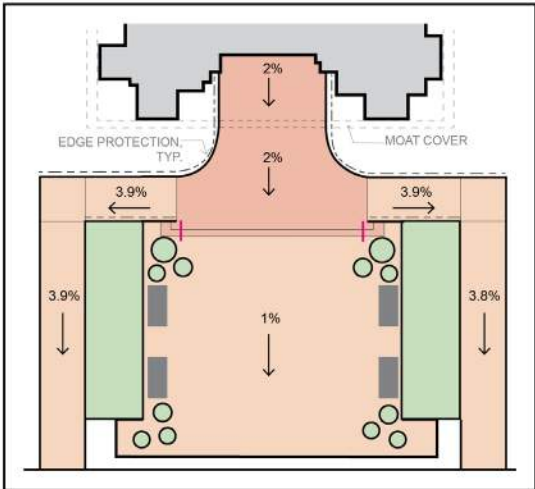
OPTION 1



OPTION 2



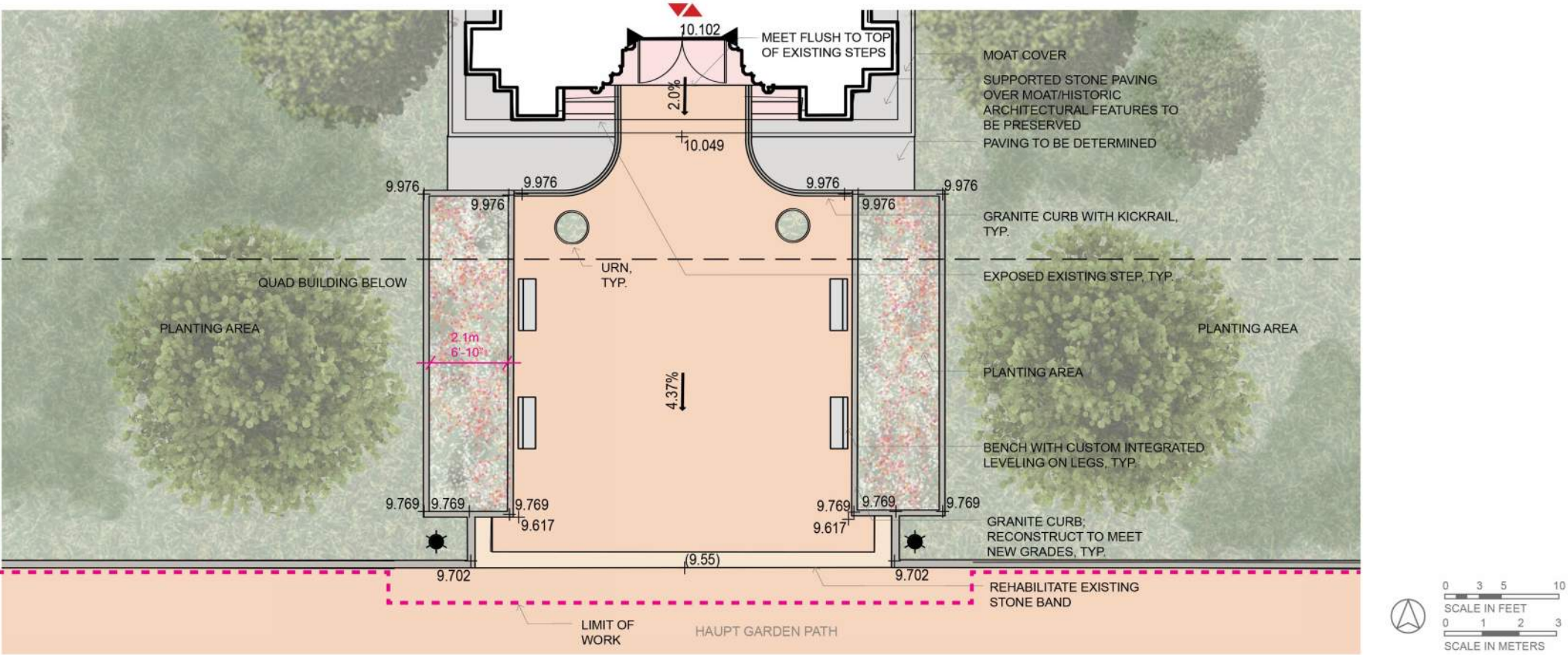
OPTION 3



OPTION 4

# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 1- PLAN  
PREFERRED OPTION





# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | SOUTH ENTRY RAMP  
OPTION 1 - VISUALIZATIONS





# **RAILINGS**

## NORTH RAMPS, AREAWAYS

# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | RAILING  
 RAILING TYPE LOCATIONS  
 PRESENTED AT CP MEETING #11

## GUARDRAIL LOCATIONS

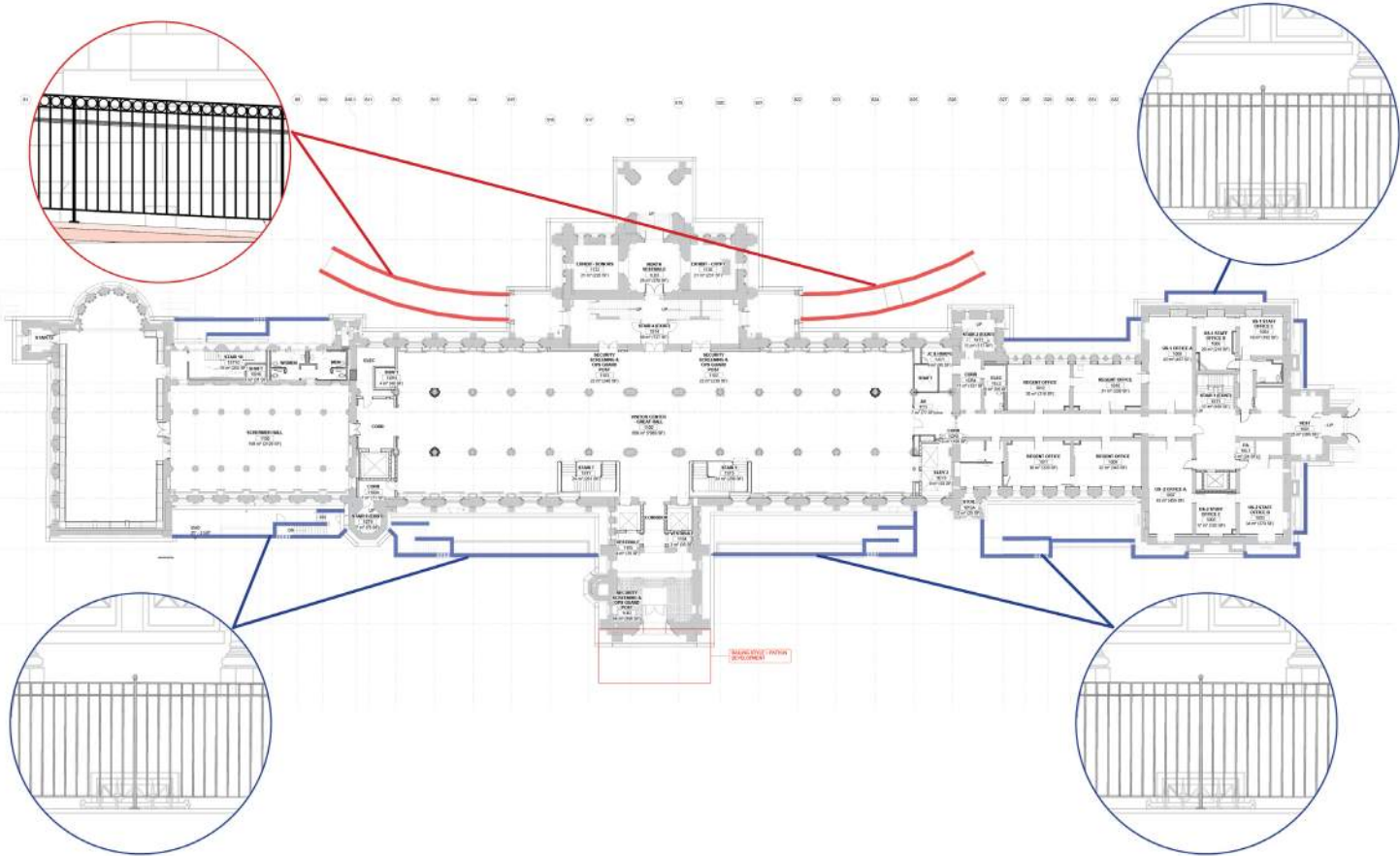
LEVEL 1



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  
RAILING TYPE LOCATIONS  
UPDATED LOCATIONS



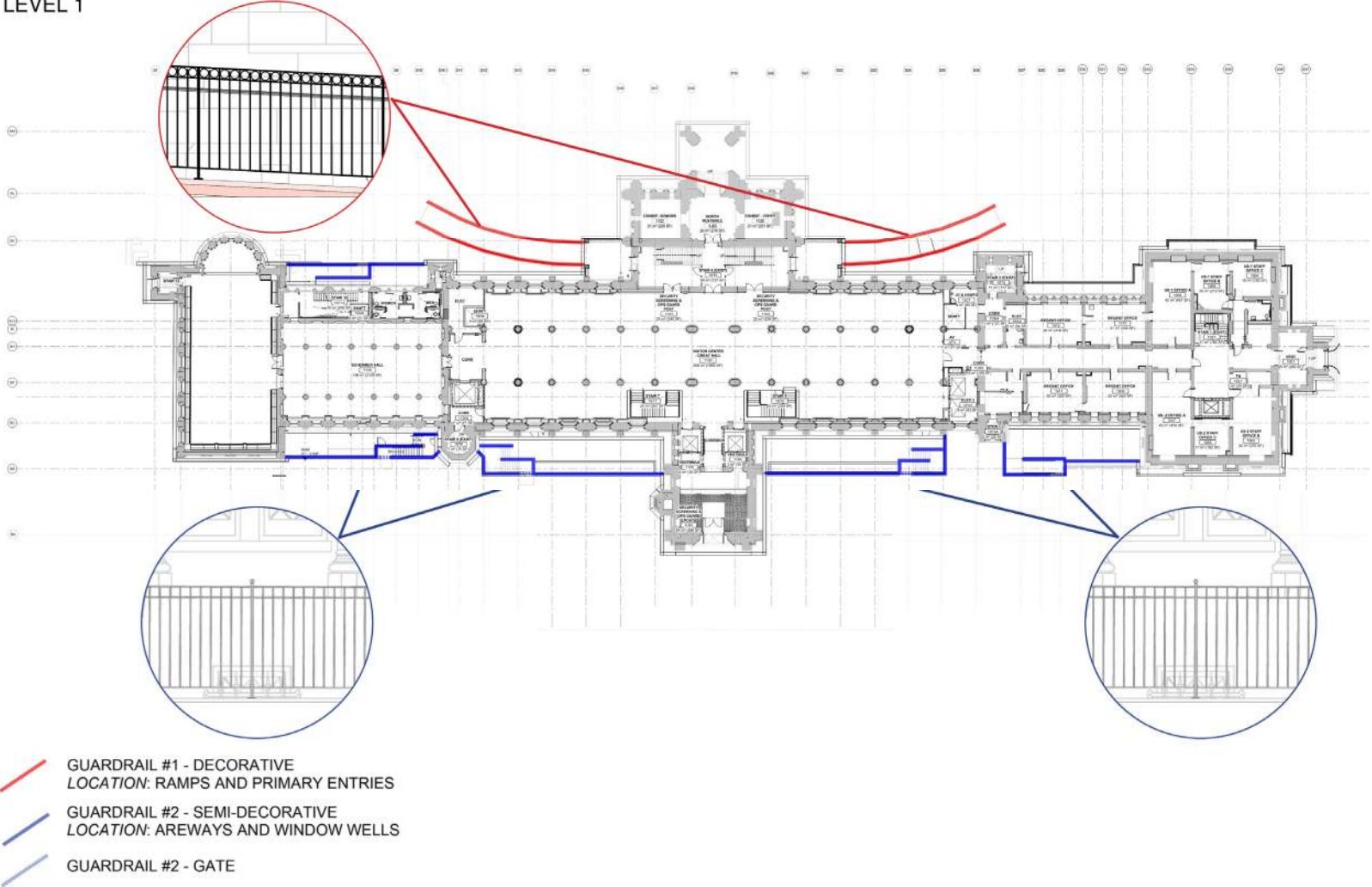
EXISTING SIB NORTH RAMP RAILING



NW HAUPT GARDEN GATE

## GUARDRAIL LOCATIONS

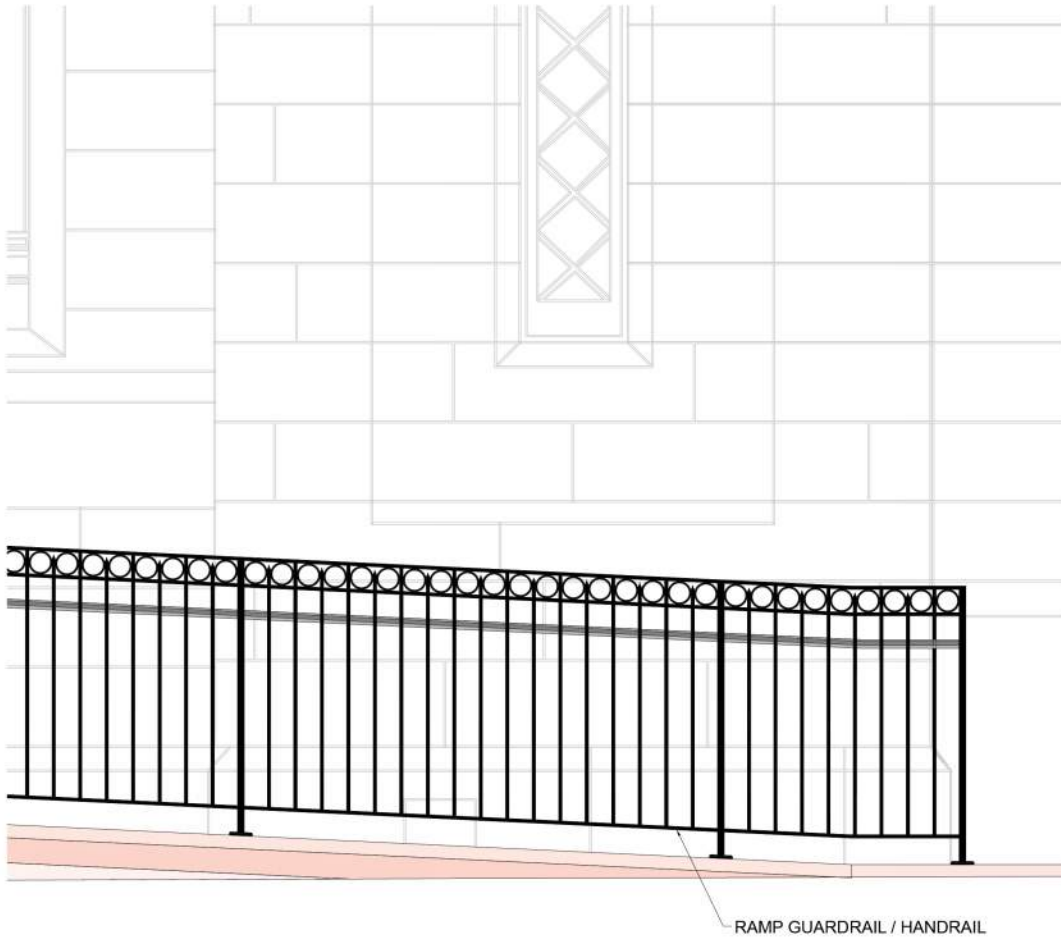
LEVEL 1



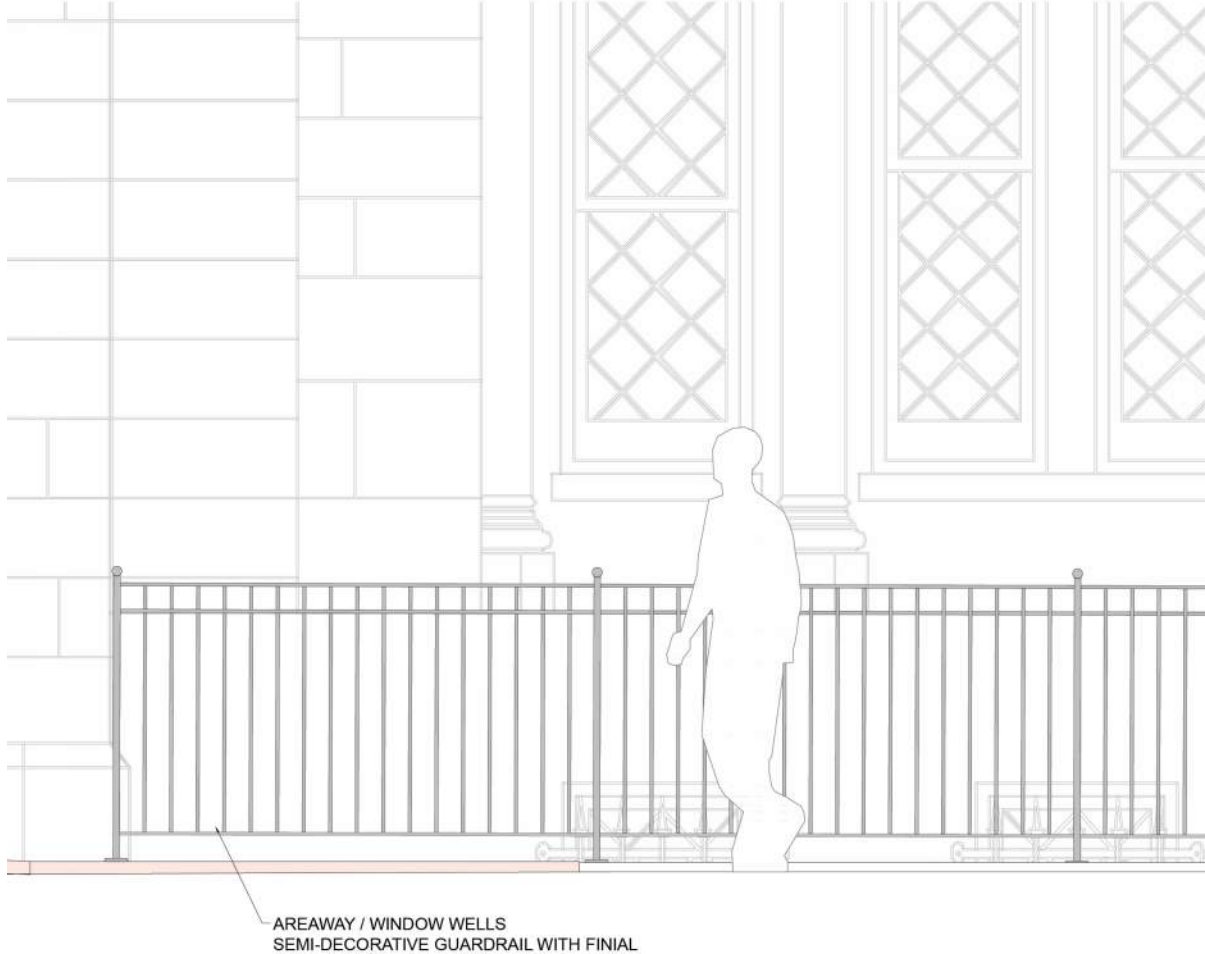


# SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE | RAILING  
TYPICAL ELEVATION



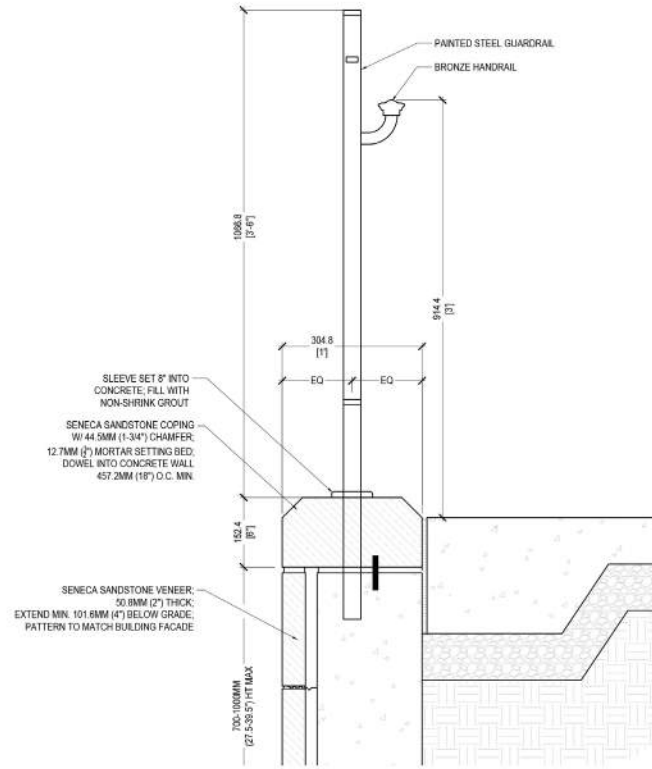
NORTH ENTRY RAMP



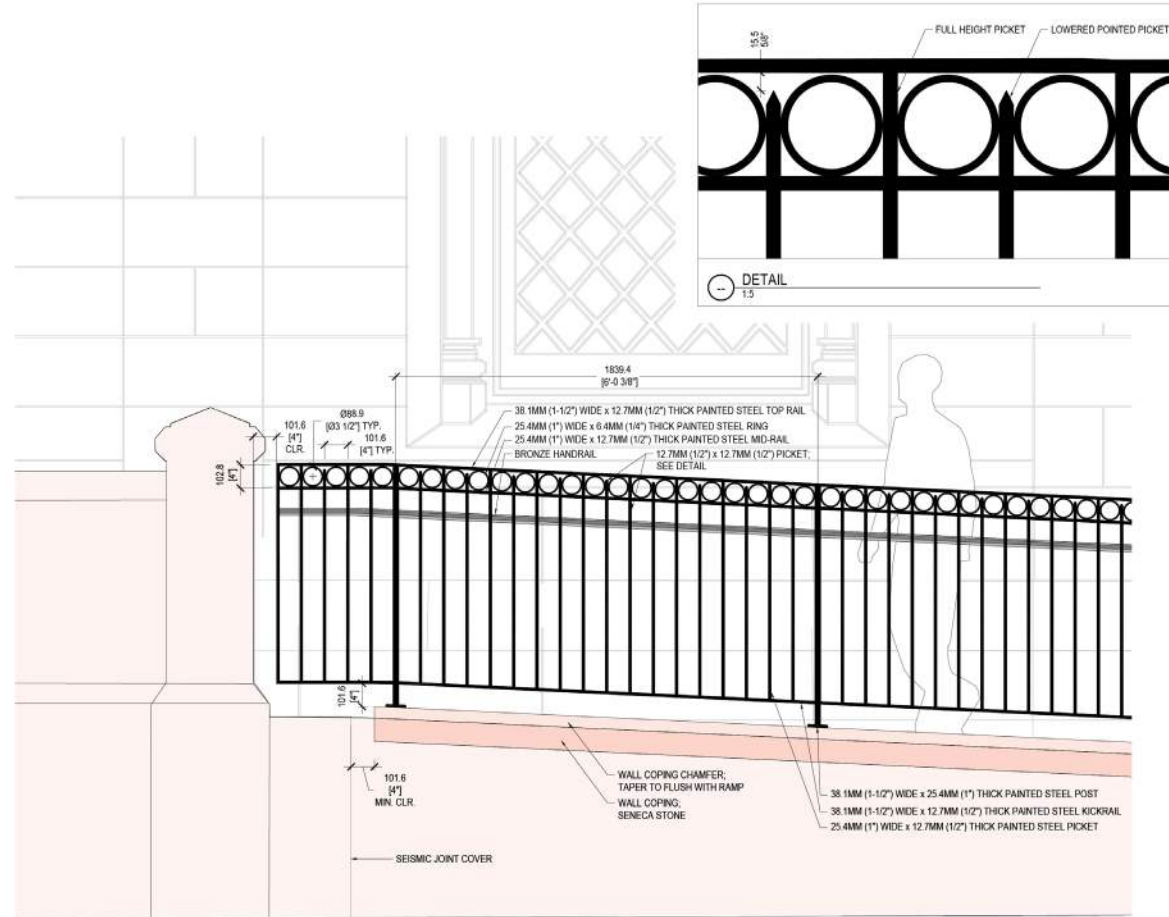
AREAWAYS

# SMITHSONIAN INSTITUTION BUILDING (SIB)

## LANDSCAPE | RAILING NORTH ENTRANCE RAMP



○ HANDRAIL/GUARDRAIL AT NORTH ENTRANCE  
1:10



○ ELEVATION PART A @ RAMP  
1:10

# REPLACEMENT MATERIALS

## SANDSTONE, ROOFING SLATE





# SMITHSONIAN INSTITUTION BUILDING (SIB)

REPLACEMENT MATERIALS | SANDSTONE



L to R: SENECA RED, ST. BEES, LOCHARBRIGGS, LOCHSLEY



ST. BEES



# SMITHSONIAN INSTITUTION BUILDING (SIB)

REPLACEMENT MATERIALS | SLATE



SLATES AVAILABLE FOR REVIEW AND DISCUSSION

# SMITHSONIAN INSTITUTION BUILDING (SIB)

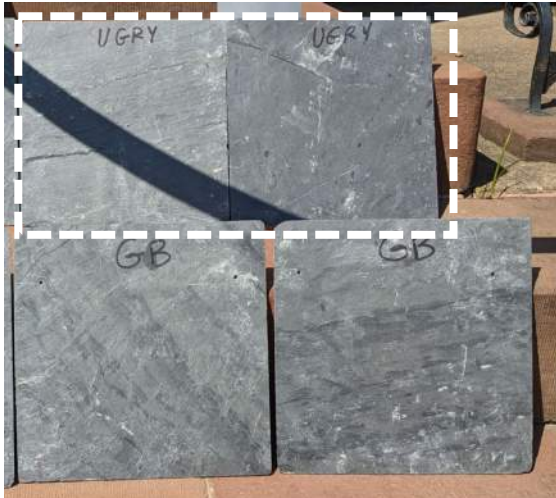
## REPLACEMENT MATERIALS | ROOFING SLATE

SOURCE: HILLTOP SLATE, VERMONT STRUCTURAL SLATE CO.

HILLTOP SLATE



8 AM  
UPPER: **UNFADING GRAY** (PREFERRED)  
LOWER: GRAY BLACK



12 PM  
UPPER: **UNFADING GRAY** (PREFERRED)  
LOWER: GRAY BLACK

VERMONT STRUCTURAL SLATE CO.



8 AM  
LEFT: GRAYSON SLATE  
RIGHT: **HENDRICKS SLATE** (PREFERRED)



12 PM  
LEFT: GRAYSON SLATE  
RIGHT: **HENDRICKS SLATE** (PREFERRED)



# SMITHSONIAN INSTITUTION BUILDING (SIB)

REPLACEMENT MATERIALS | ROOFING SLATE  
SOURCE: EVERGREEN SLATE CO.



8 AM  
LEFT: **VERMONT BLACK** (PREFERRED)  
RIGHT: MOTTLED GRAY-BLACK



12 PM  
LEFT: **VERMONT BLACK** (PREFERRED)  
RIGHT: MOTTLED GRAY-BLACK



# SMITHSONIAN INSTITUTION BUILDING (SIB)

REPLACEMENT MATERIALS | ROOFING SLATE  
EXISTING CONDITION



MAIN BUILDING LOOKING NORTH



WEST RANGE LOOKING NORTHWEST

# SEISMIC JOINT COVER STONE OPTIONS



# SMITHSONIAN INSTITUTION BUILDING (SIB)

## JOINT COVER MATERIALS | COMPARISON OF GRANITES AND BLUESTONE



SAMPLES AGAINST SANDSTONE: (L to R) ACADEMY BLACK, VIRGINIA MIST, OLYMPIC BLACK, JET MIST, BLUESTONE



**OLYMPIC BLACK (PREFERRED)**



SAMPLES AGAINST PLANTING BED: (L to R) ACADEMY BLACK, VIRGINIA MIST, OLYMPIC BLACK, JET MIST, BLUESTONE



**OLYMPIC BLACK (PREFERRED)**



# Upcoming Section 106 Consultation Meetings

Milestone	Date	Meeting Content *
Consulting Parties Meeting #13	May 24, 2023	<ul style="list-style-type: none"> <li>• Roof Modifications</li> <li>• Emergency Egress (East Range)</li> <li>• Roof Access</li> <li>• Perimeter Security</li> </ul>
Consulting Parties Meeting #14	June 28, 2023	<ul style="list-style-type: none"> <li>• Areaway               <ul style="list-style-type: none"> <li>• Materials</li> <li>• Interior Impact</li> </ul> </li> <li>• Windows (and Interior Effects)</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
- Programmatic Agreement executed March 29, 2023
- 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

