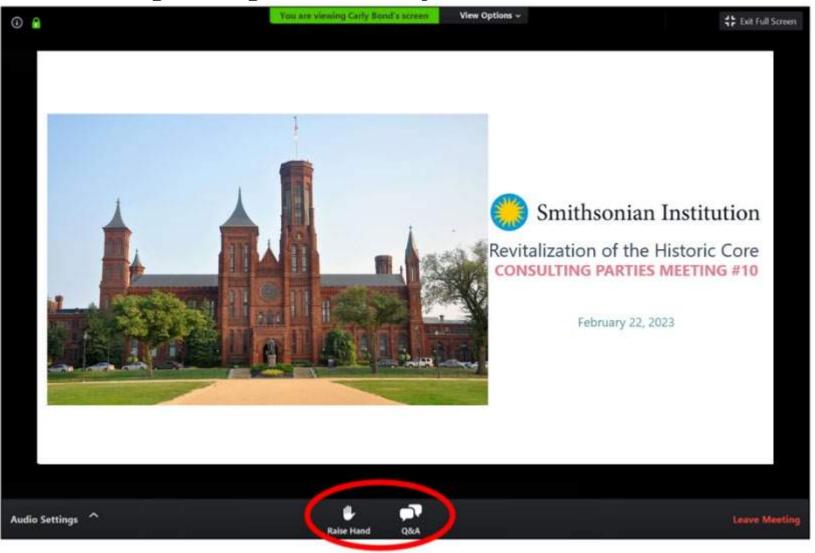
# Welcome!

The meeting will begin momentarily.



### **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 #10** 

February 22, 2023

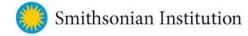
### PANEL OF SPEAKERS

### MODERATOR

**Carly Bond**, Historic Preservation Specialist

## PRESENTERS / PANELISTS

Brenda Sanchez, FAIA, Sr. Design Manager Christopher Lethbridge, Architect/Program Manager Matthew Chalifoux, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC Anthony Bochicchio, AIA, Project Manager, EYP-Loring, LLC J. Michael Galway, PE, Lead Mechanical Engineer, EYP-Loring, LLC



### **AGENDA**

- **Updates**
- **Review Phase 2 Items** 
  - **Roof Mechanical Elements** 
    - **South Tower Louvers**
    - **South Tower Hyphen Elevator Overrun**
    - **North Entry Hyphen Louvered Penthouses**
    - **West Range Louvered Penthouses**
  - **Lightning Protection**
  - **Emergency Generator**
  - **Exterior Masonry Restoration- Alternative Sandstone**
- **Next Steps**

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# **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 4th 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

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 \_\_\_ 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

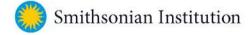
WHEREAS, the Castle is a National Historic Landmark (designated January 12, 1965), and is individually listed in the National Register of Historic Places and the DC Inventory of Historic Sites. The Castle is a contributing element of the National Mall Historic District listed in the National Register,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

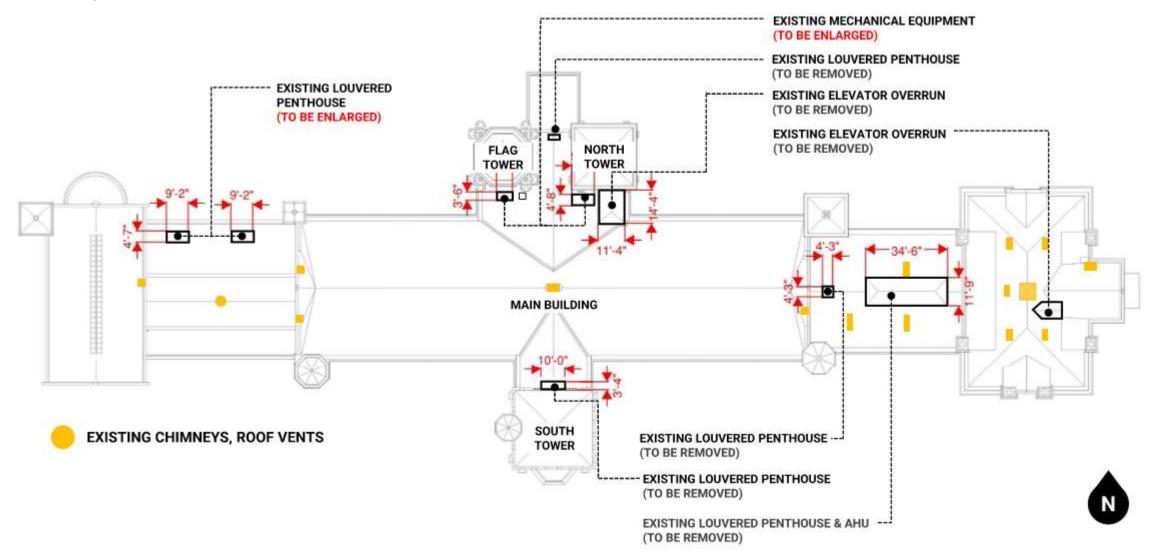
WHEREAS, the Area of Potential Effects for the Project was defined as the same established in the Programmatic Agreement for the South Mall Campus Master Plan; and

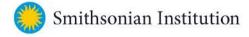
WHEREAS, at the third Consulting Parties meeting on December 14, 2021 (Exhibit A - List of Consulting Parties Meetings), an Assessment of Effects on Historic Resources (Exhibit F) report was reviewed, and the Project was preliminarily determined to potentially result in "adverse effects" on the Castle,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



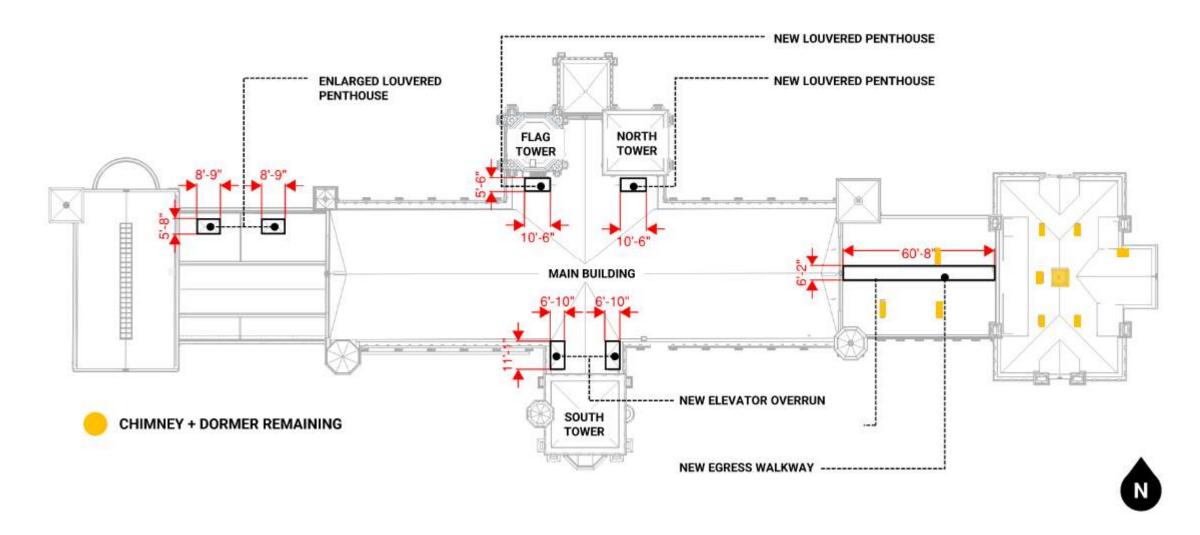
# **ROOF MECHANICAL ELEMENTS**

**SIB ROOF PLAN** | EXISTING

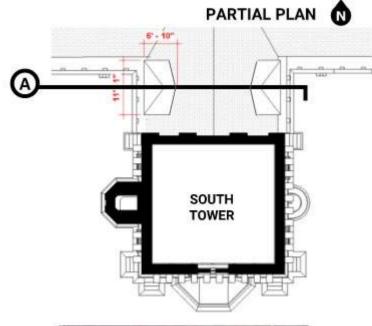




**SIB ROOF PLAN** | PROPOSED

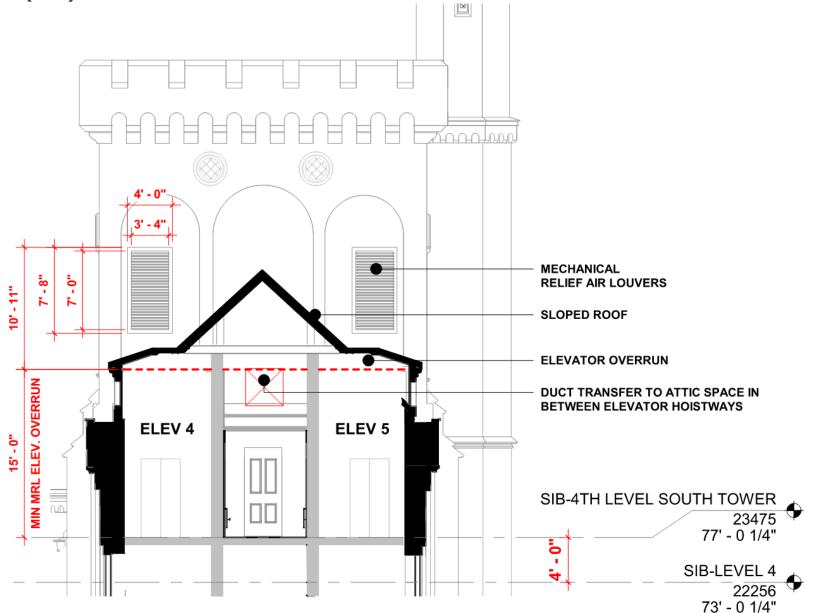


**SOUTH TOWER** | IN-WALL LOUVERS NORTH ELEVATION

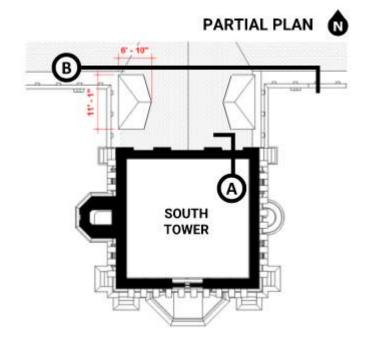


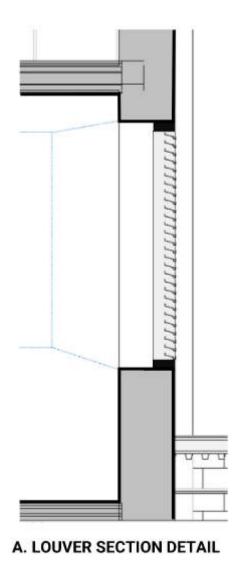


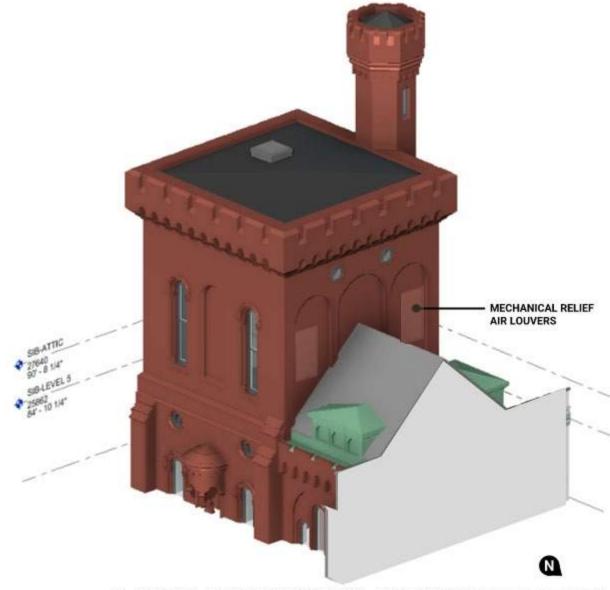
**EXISTING CONDITION** 



**SOUTH TOWER** | IN-WALL LOUVERS **VISUALIZATION** 

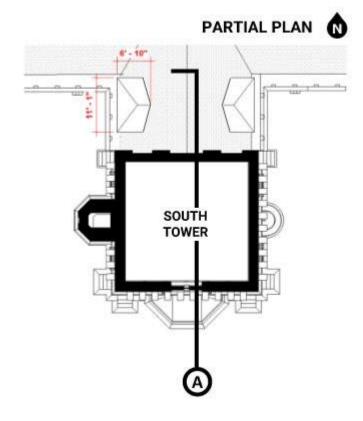


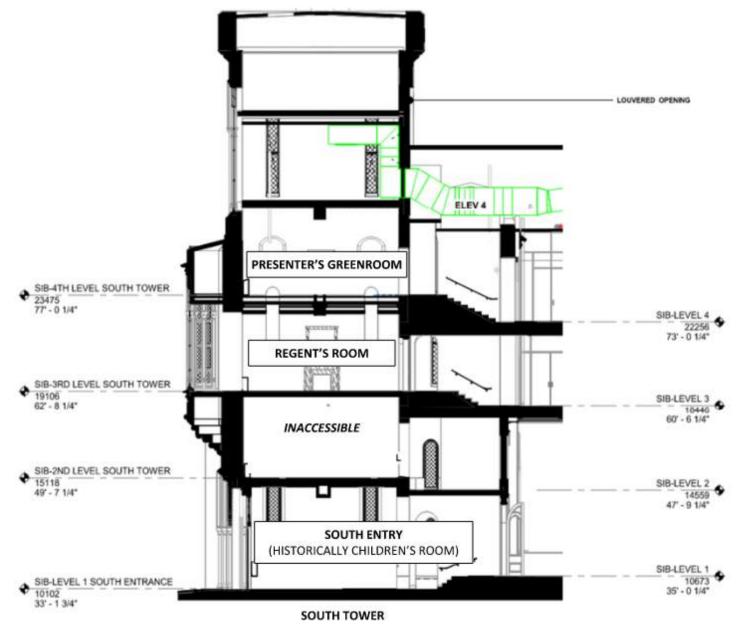




B. PARTIAL AXONOMETRIC VIEW - LOOKING SW (WALL LOUVERS)

**SOUTH TOWER** | IN-WALL LOUVERS **SECTION** 





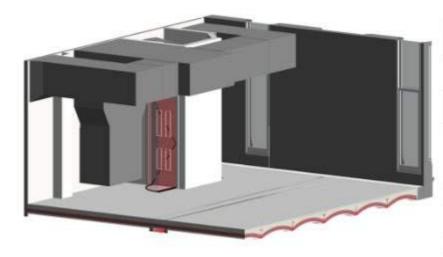


**SOUTH TOWER** | IN-WALL LOUVERS

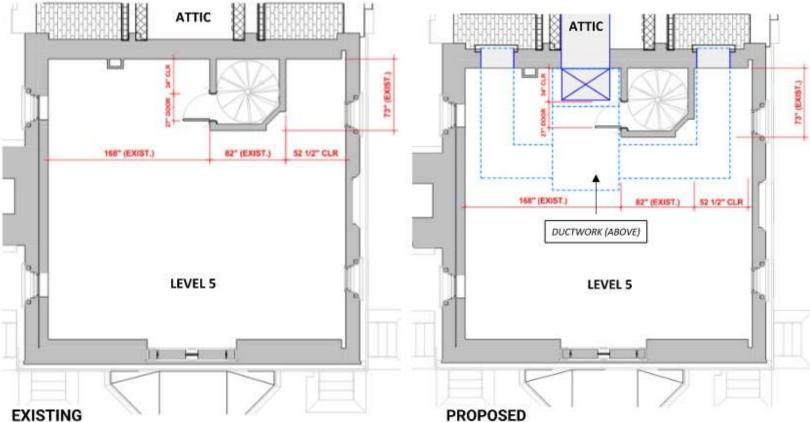
LEVEL 5 PLAN

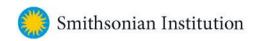


**EXISTING CONDITION** 



PROPOSED CONDITION

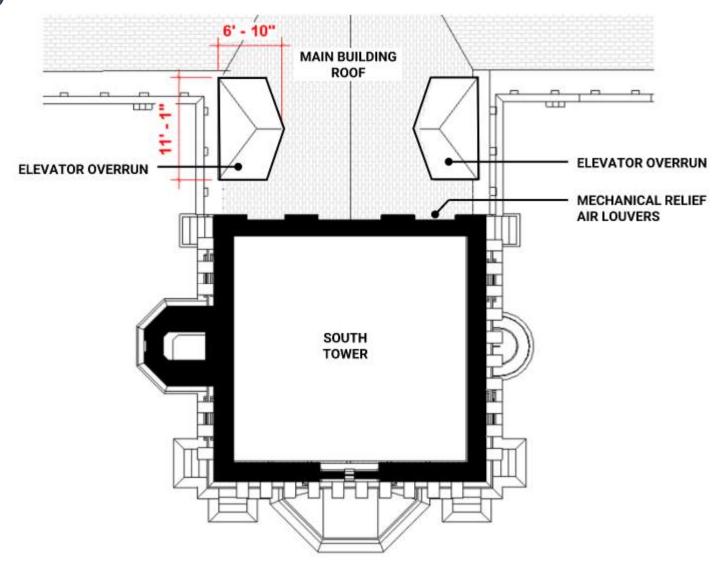




**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) **ROOF PLAN** 

### **FEATURES**

- FINAL STOP FOR ELEVATORS IN THE SOUTH TOWER IS FOUR FEET ABOVE LEVEL 4 IN THE MAIN BUILDING.
- **ELEVATOR OVERRUNS ARE AS SMALL AS** POSSIBLE.
- VERTICAL CIRCULATION IS CLEAR FOR VISITORS WITH ALL ELEVATORS SERVING ALL OCCUPIED **FLOORS**

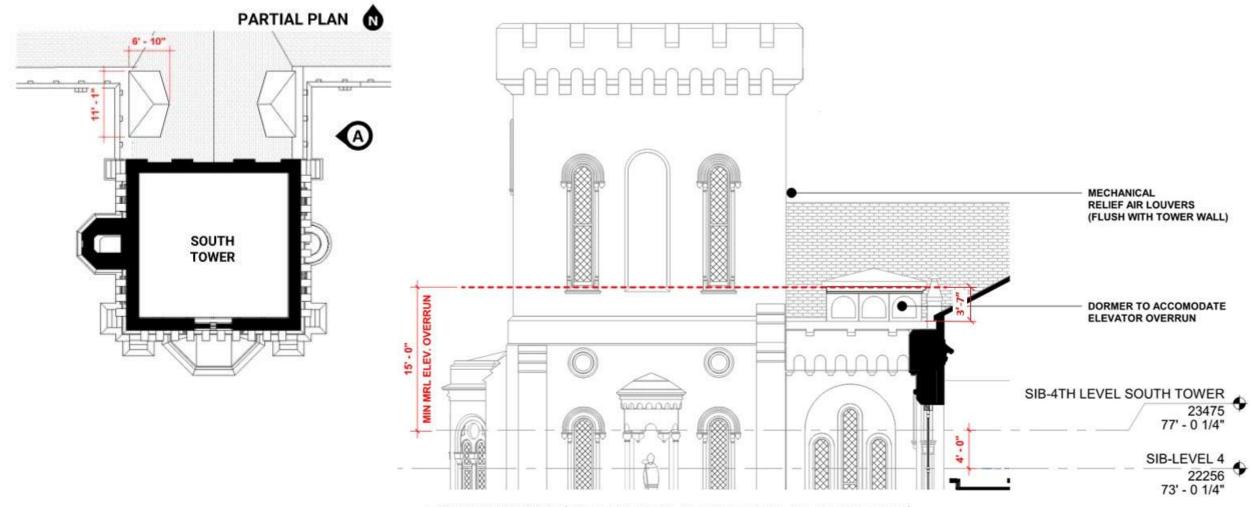


ENLARGED PLAN (AIR LOUVERS THROUGH SOUTH TOWER WALL) N

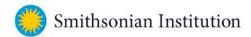




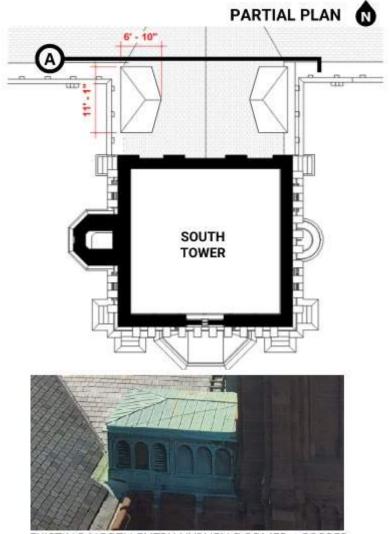
**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) **EAST ELEVATION** 



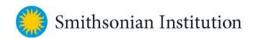


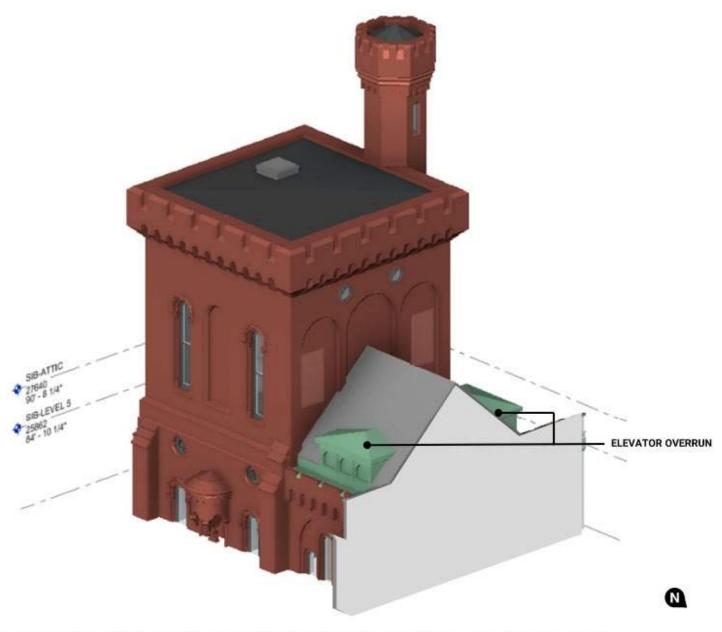


**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) **COPPER FINISH** 



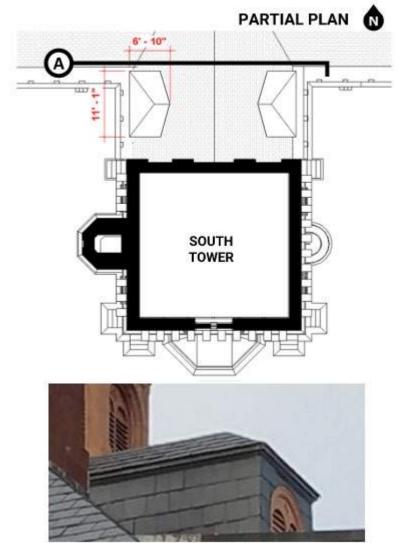




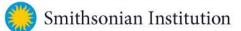


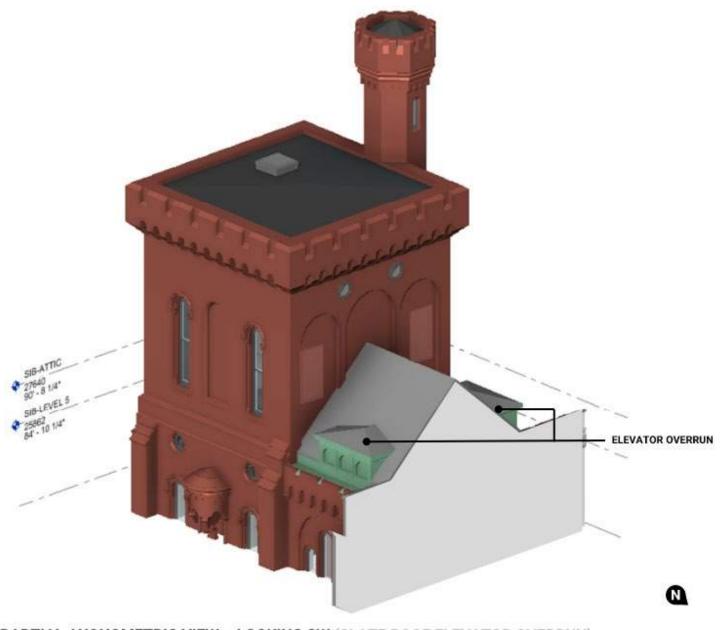
PARTIAL AXONOMETRIC VIEW - LOOKING SW (COPPER ROOF ELEVATOR OVERRUN)

**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) SLATE FINISH



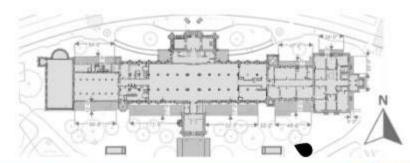
**EXISTING EAST WING DORMER - SLATE** 





PARTIAL AXONOMETRIC VIEW - LOOKING SW (SLATE ROOF ELEVATOR OVERRUN)

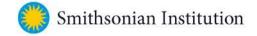
**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) PERSPECTIVE FROM GROUND



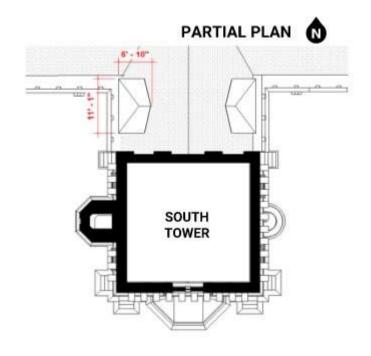


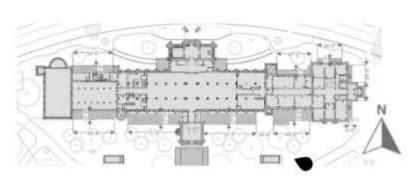
**ELEVATOR OVERRUN - SLATE ROOF** 

ELEVATOR OVERRUN - COPPER ROOF



**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) PERSPECTIVE FROM GROUND



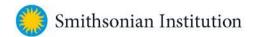




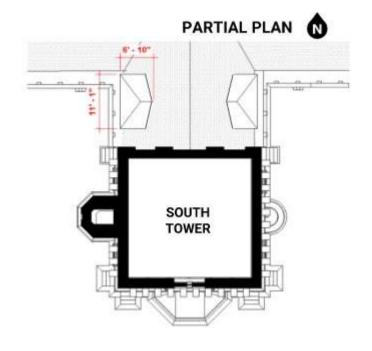
EXISTING VIEW FROM GRADE - LOOKING NW

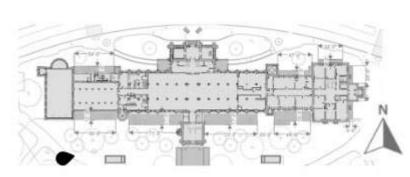


PROPOSED VIEW FROM GRADE - LOOKING NW



**SOUTH TOWER** | ELEVATOR OVERRUN (HIP ROOF) PERSPECTIVE FROM GROUND







EXISTING VIEW FROM GRADE - LOOKING NE

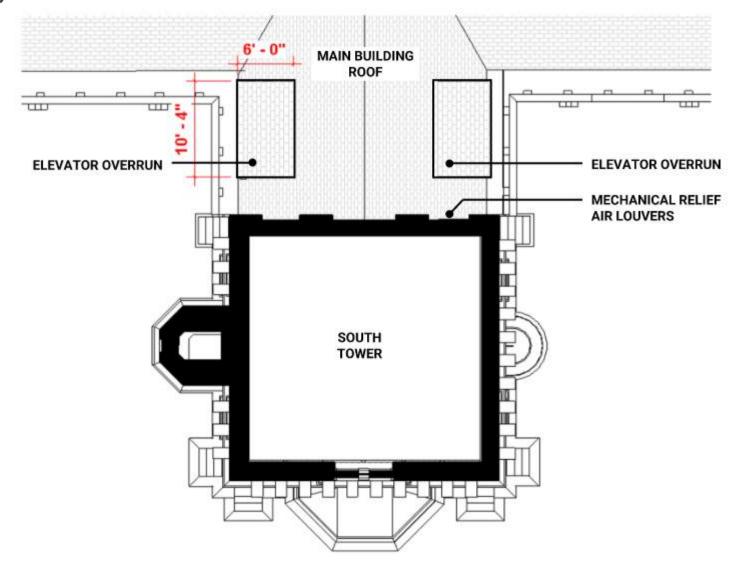


PROPOSED VIEW FROM GRADE - LOOKING NE

**SOUTH TOWER** | ELEVATOR OVERRUN (FLAT ROOF) **ROOF PLAN** 

### **FEATURES**

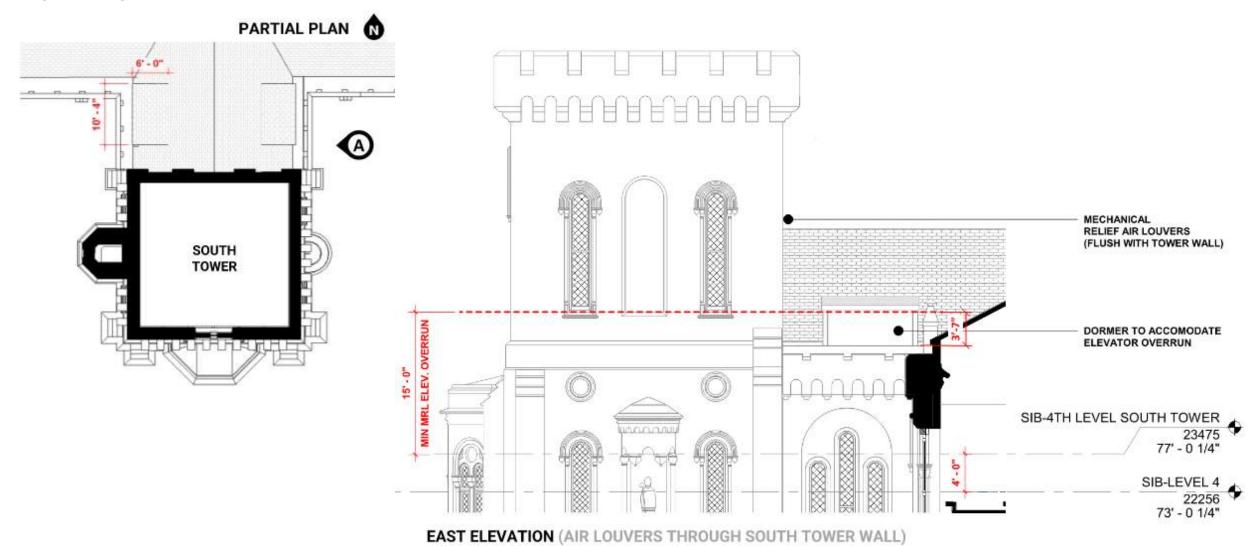
- FINAL STOP FOR ELEVATORS IN THE SOUTH TOWER IS FOUR FEET ABOVE LEVEL 4 IN THE MAIN BUILDING.
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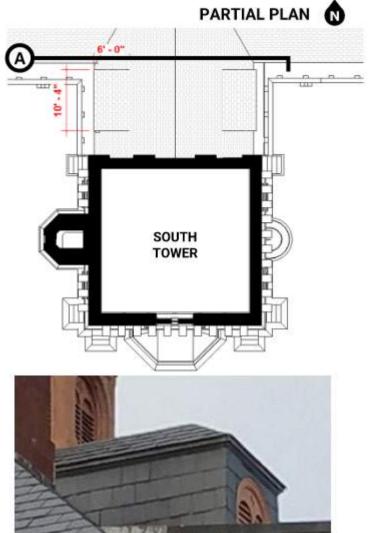
ENLARGED PLAN (AIR LOUVERS THROUGH SOUTH TOWER WALL)



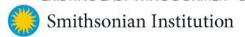
**SOUTH TOWER** | ELEVATOR OVERRUN (FLAT ROOF) **EAST ELEVATION** 

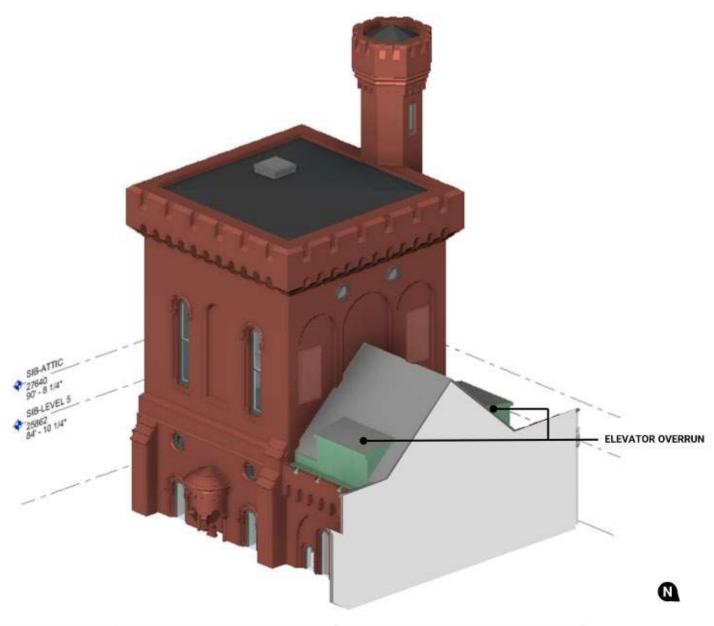


**SOUTH TOWER** | ELEVATOR OVERRUN (FLAT ROOF) SLATE FINISH



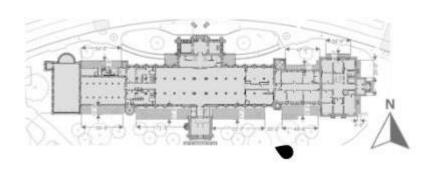






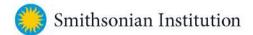
PARTIAL AXONOMETRIC VIEW - LOOKING SW (SLATE ROOF ELEVATOR OVERRUN)

**SOUTH TOWER** | ELEVATOR OVERRUN (FLAT ROOF) PERSPECTIVE FROM GROUND

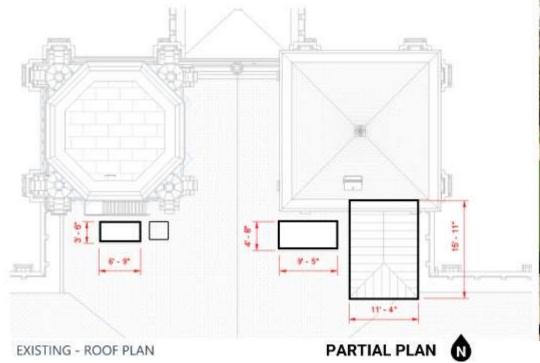




ELEVATOR OVERRUN - SLATE ROOF

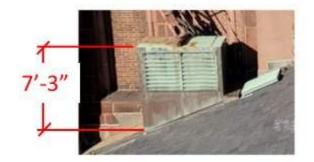


**NORTH ENTRY HYPHEN** | EXISTING PENTHOUSES **ROOF PLAN** 

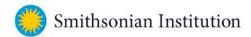




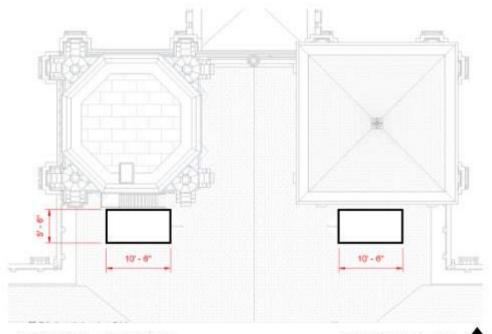
EXISTING - VIEW FROM ROOF





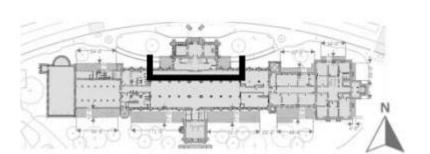


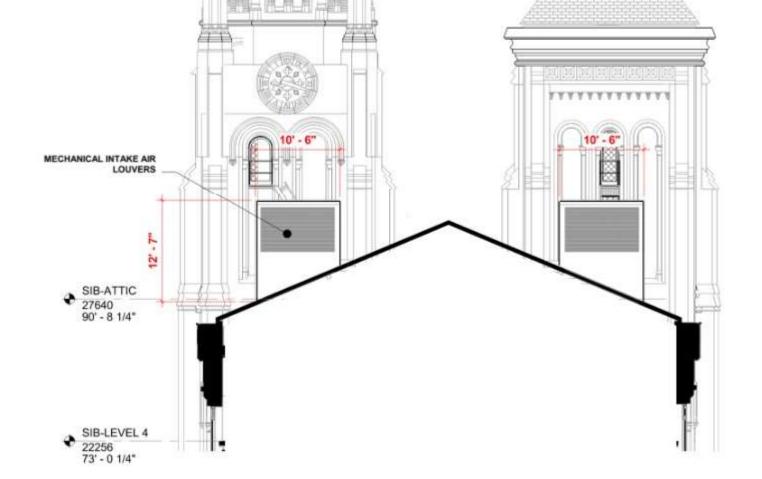
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF) **ROOF PLAN + SOUTH ELEVATION** 

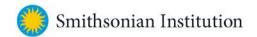




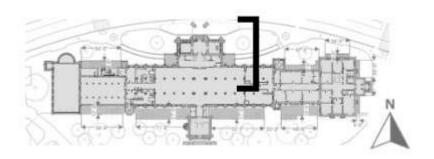


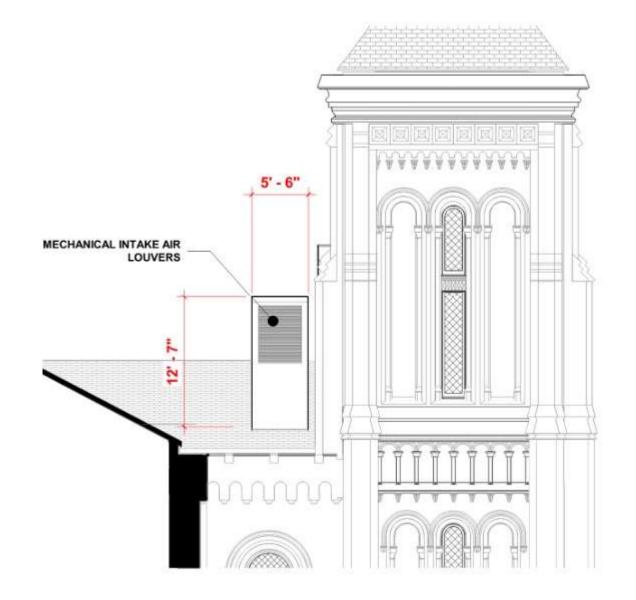


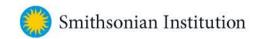




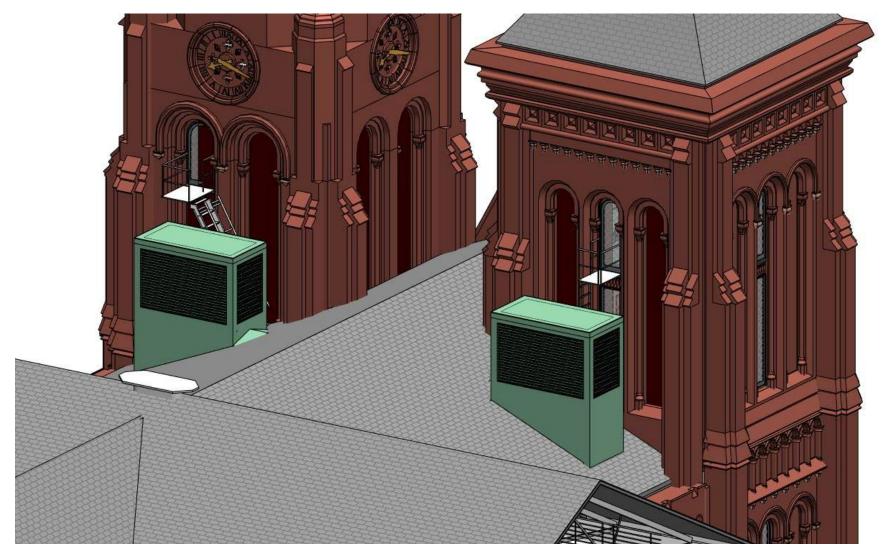
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF) **EAST ELEVATION** 

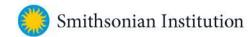






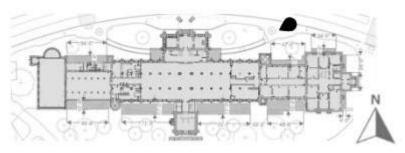
NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (FLAT ROOF) **VISUALIZATION** 





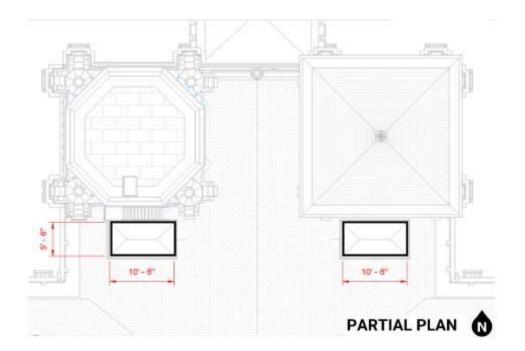
**NORTH ENTRY HYPHEN |** LOUVERED PENTHOUSES (FLAT ROOF) PERSPECTIVE FROM PATH

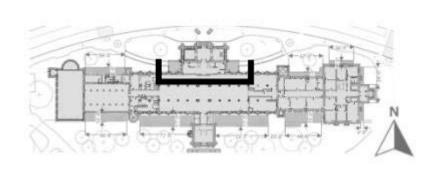


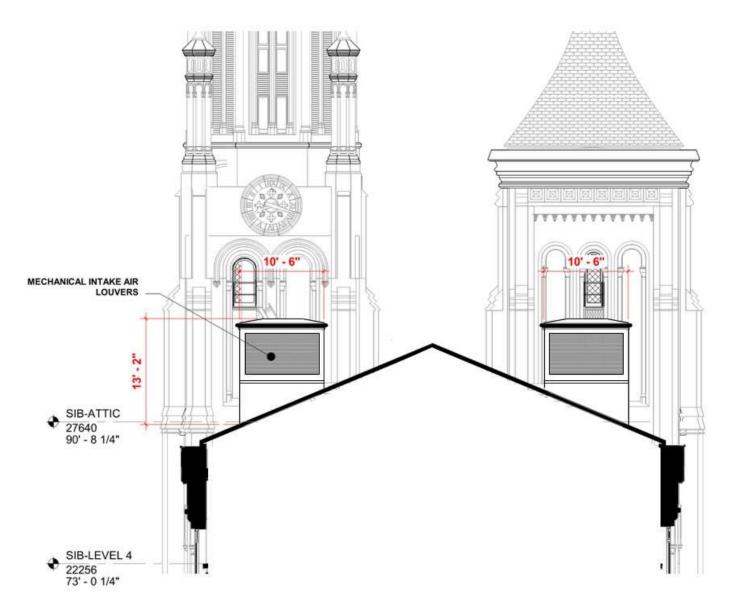


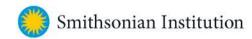


NORTH ENTRY HYPHEN | LOUVERED PENTHOUSES (HIP ROOF) **ROOF PLAN + SOUTH ELEVATION** 

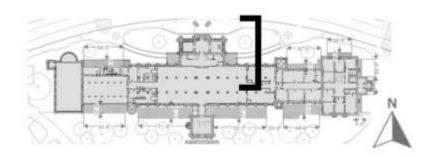


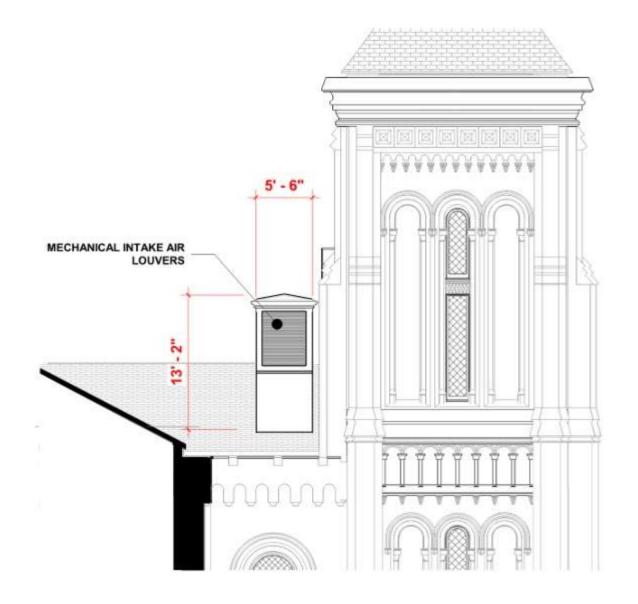




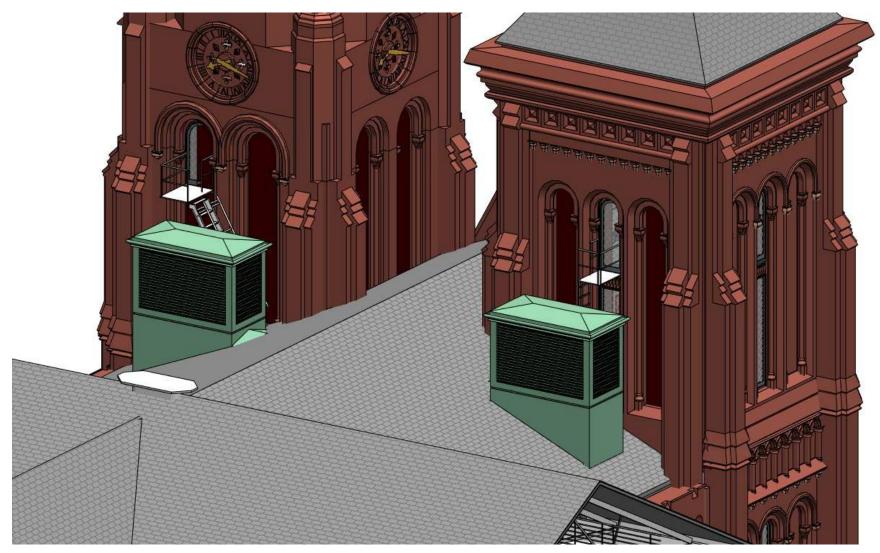


**NORTH ENTRY HYPHEN |** LOUVERED PENTHOUSES (HIP ROOF) EAST ELEVATION



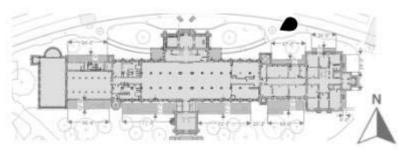


**NORTH ENTRY HYPHEN |** LOUVERED PENTHOUSES (HIP ROOF) VISUALIZATION



**NORTH ENTRY HYPHEN |** LOUVERED PENTHOUSES (HIP ROOF) PERSPECTIVE FROM PATH



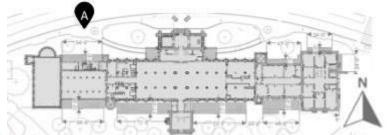




**WEST RANGE** | LOUVERED PENTHOUSES **EXISTING CONDITION** 



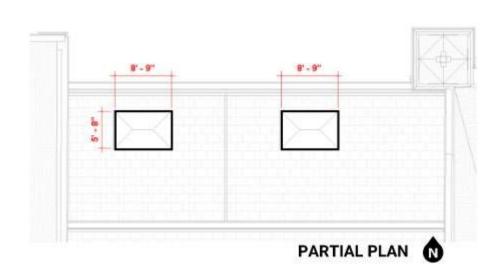
A. EXISTING CONDITION

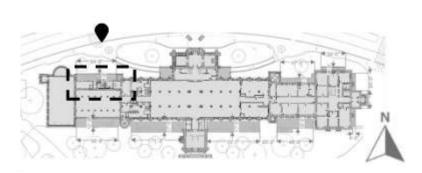


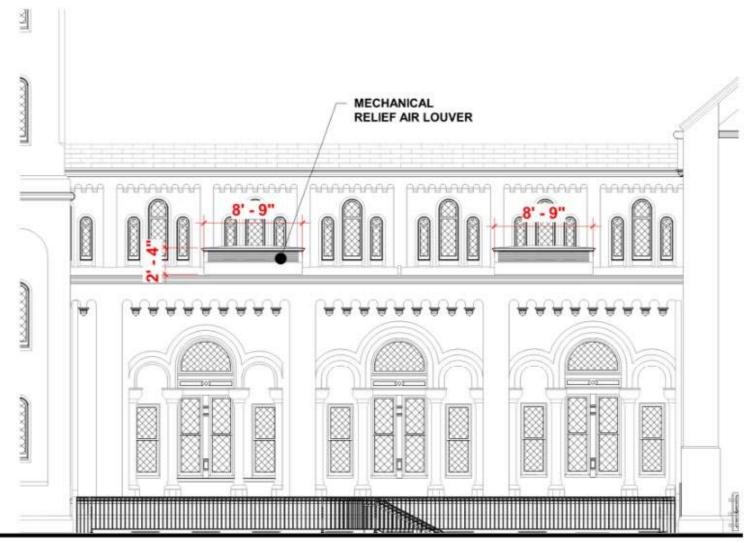
B. EXISTING CONDITION

Mushroom ventilator to be removed

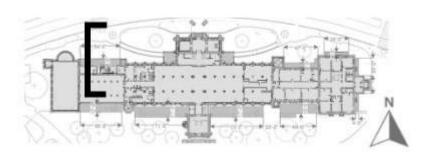
**WEST RANGE** | PROPOSED LOUVERED PENTHOUSES ROOF PLAN + NORTH ELEVATION

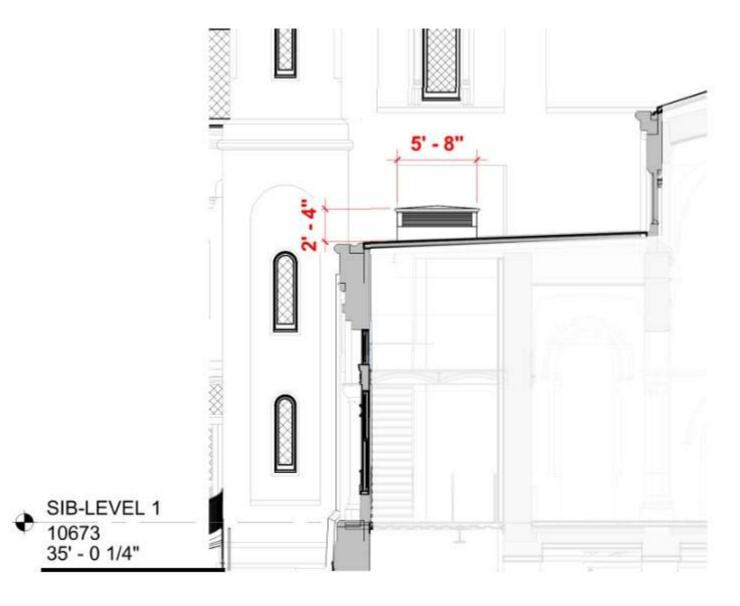




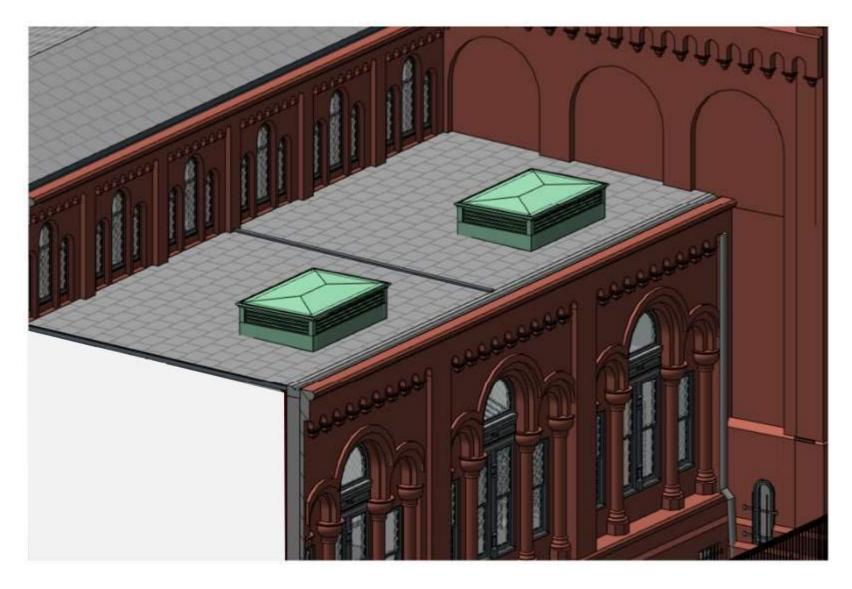


**WEST RANGE** | PROPOSED LOUVERED PENTHOUSES EAST SECTION





**WEST RANGE** | PROPOSED LOUVERED PENTHOUSES VISUALIZATION

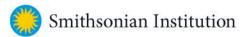


**WEST RANGE** | PROPOSED LOUVERED PENTHOUSES PERSPECTIVE FROM STREET



B. PROPOSED CONDITION

A. EXISTING CONDITION



## **Questions or Comments**

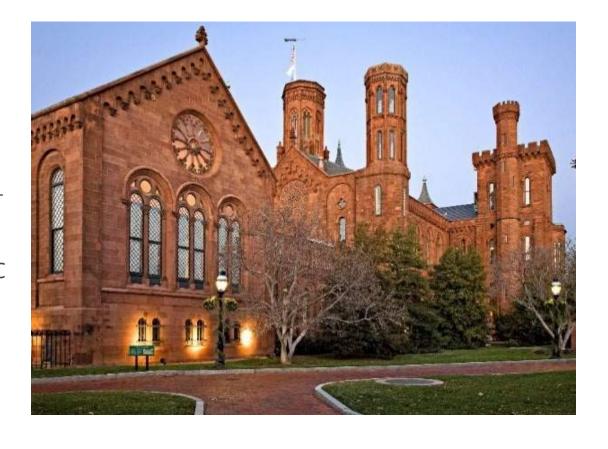
### **MODERATOR**

**Carly Bond**, Historic Preservation Specialist

### PRESENTERS / PANELISTS

Brenda Sanchez, FAIA, Sr. Design Manager Christopher Lethbridge, Architect/Program Manager, Matthew Chalifoux, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC

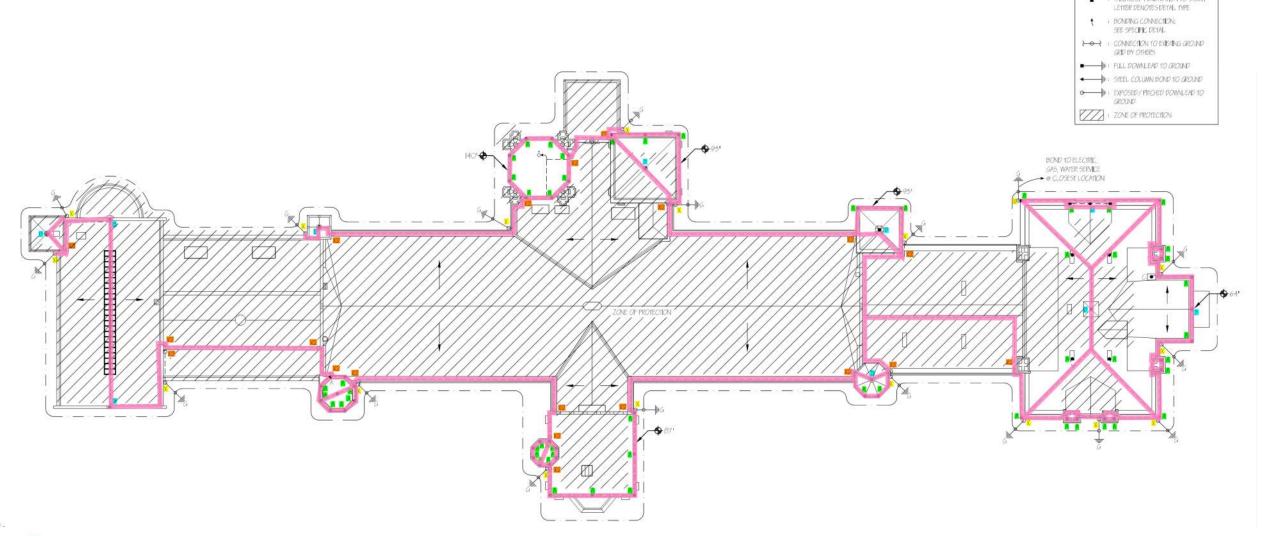
Anthony Bochicchio, AIA, Project Manager, EYP-Loring, LLC J. Michael Galway, PE, Lead Mechanical Engineer, EYP-Loring, LLC



## LIGHTNING PROTECTION

### LIGHTNING PROTECTION ELEMENTS

**ROOF PLAN** 



TYPICAL SYMBOL LEGEND

- · - : COUNTERPOISE / GROUND CABLE

AS/IF APPLICABLE THRUROOF PENETRATION; LETTER DENOTES DETAIL TYPE I THRU ROOF PENETRATION TO STEEL,

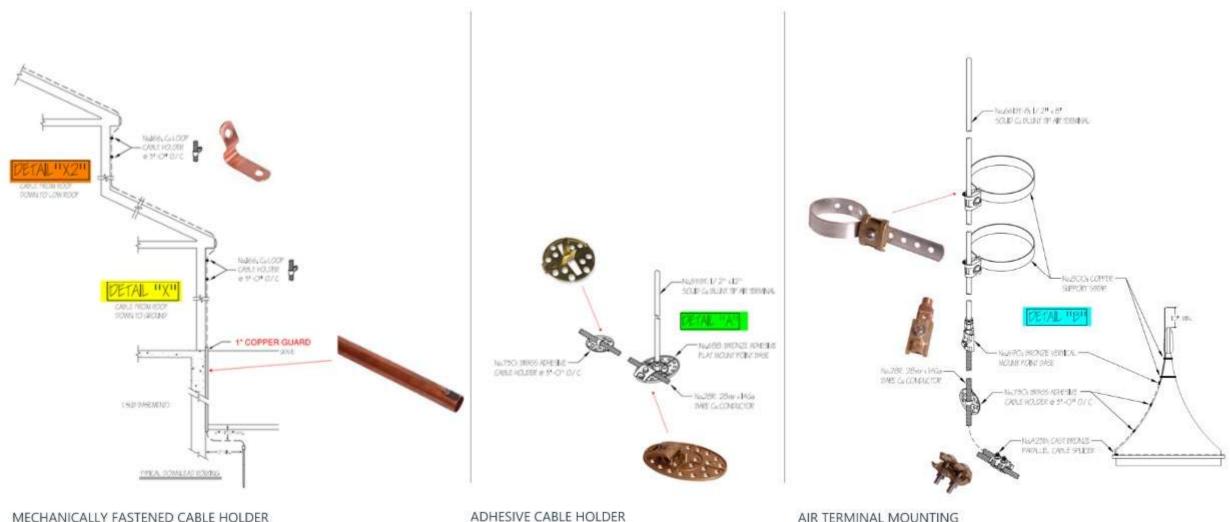
LETTER DENOTES DETAIL TYPE

AR TERMINAL;

---: MAIN CONDUCTOR

### LIGHTNING PROTECTION ELEMENTS

**DETAILS** 



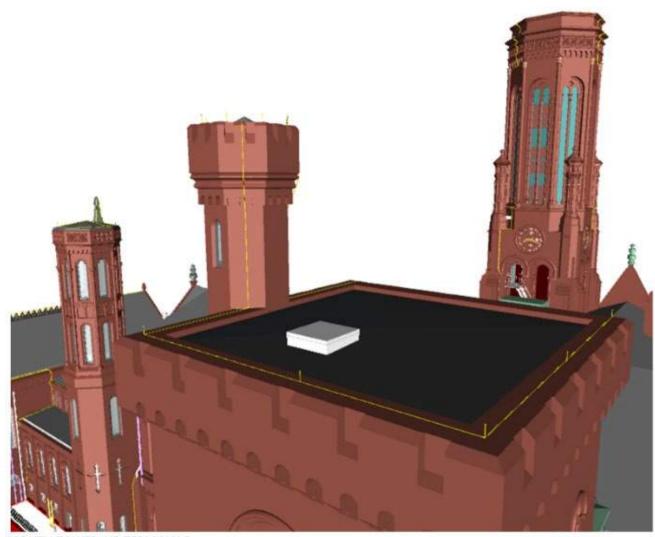
Smithsonian Institution

MECHANICALLY FASTENED CABLE HOLDER

AIR TERMINAL MOUNTING

### **LIGHTNING PROTECTION ELEMENTS**

**VISUALIZATIONS** 

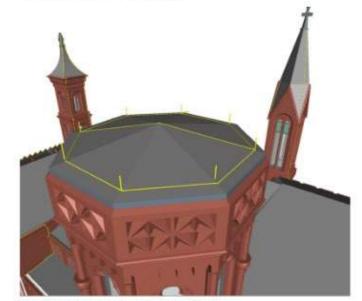


SOUTH TOWER AIR TERMINALS





VERTICAL RUN TO GROUND



OCTAGON TOWER AIR TERMINALS

### **EXAMPLE OF LIGHTNING PROTECTION**

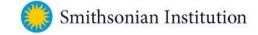
**VIEW FROM GRADE** 





AIB LIGHTNING PROTECTION

AIB LIGHTNING PROTECTION

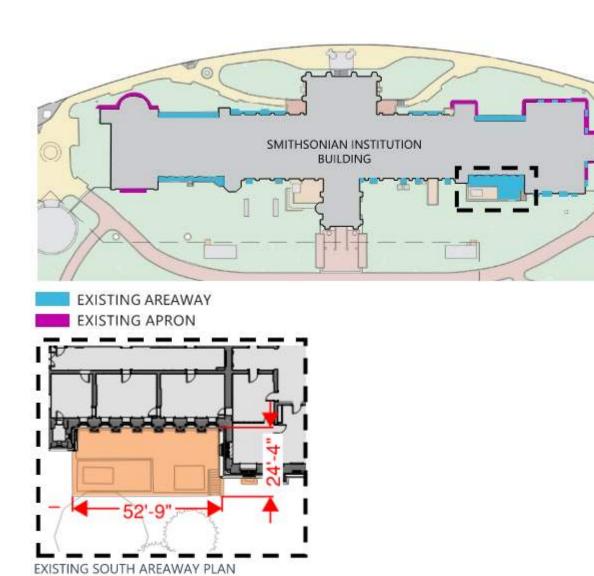


## **EMERGENCY GENERATOR**

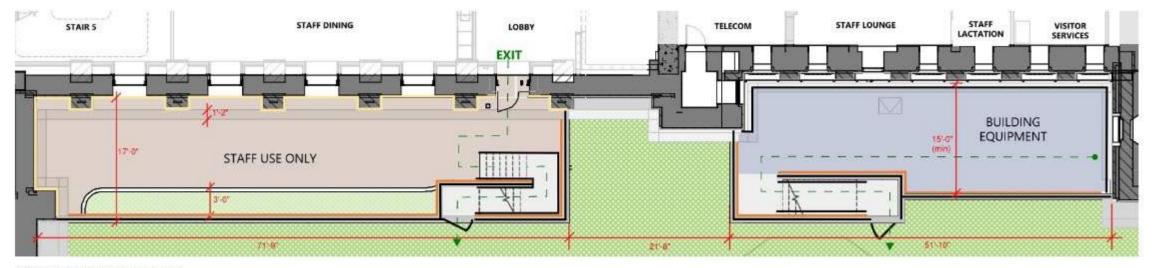
### **SOUTHEAST AREAWAY** | EXISTING CONDITION



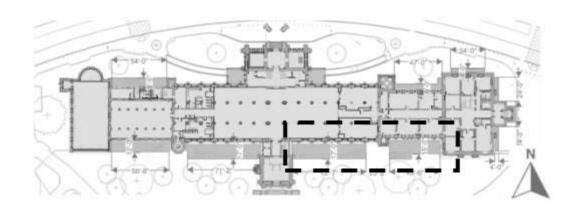
VIEW OF EXISTING MECHANICAL AREAWAY



### **SOUTHEAST AREAWAYS** | DESIGN STUDIES

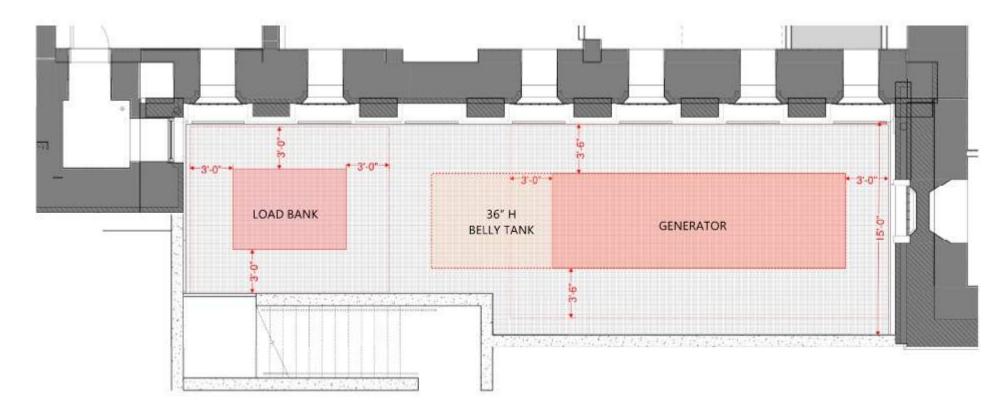


SOUTHEAST AREAWAYS



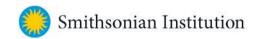
## DIESEL GENERATOR OPTION

**DIESEL GENERATOR - OPTION 1 (36" HIGH BELLY TANK)** 

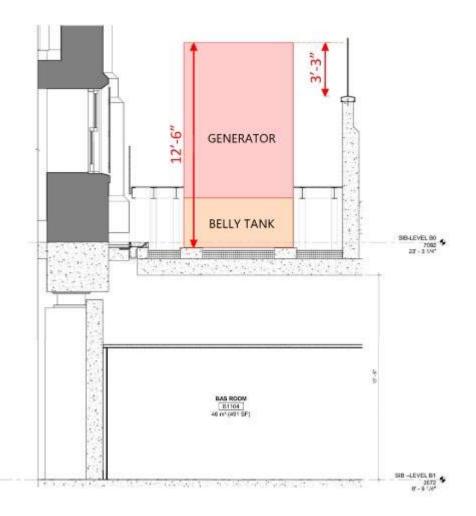


#### **FEATURES**

- 36" HIGH BELLY TANK
- 75dBA @ 7 m (23') SOUND ENCLOSURE
- AMPLE CLEARANCE AROUND EQUIPMENT
- 2000 GALLONS OF DIESEL MUST BE TREATED EVERY 3 YEARS
- PLATFORM REQUIRED FOR GENERATOR ACCESS

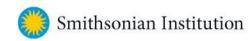


### **DIESEL GENERATOR - OPTION 1 (36" HIGH BELLY TANK)**



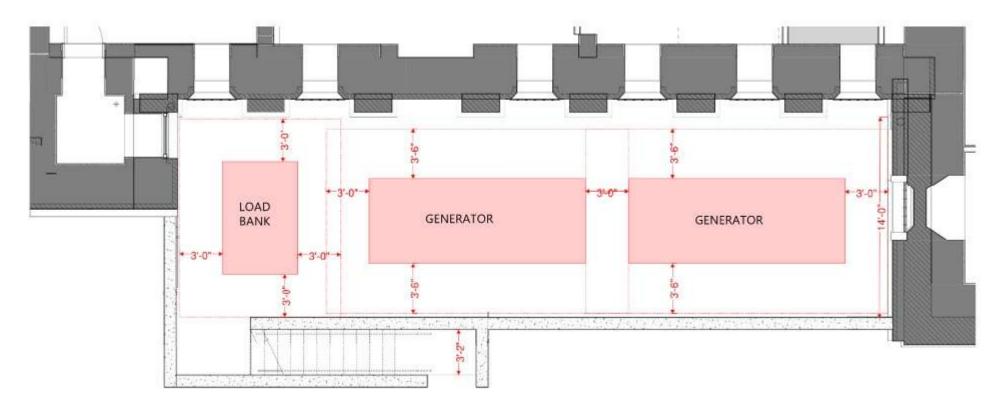
### **OPTION 1: BASE DESIGN**

- 36" HIGH BELLY TANK
- 75dBA @ 7 m (23') SOUND ENCLOSURE



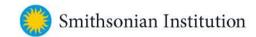
## **GAS GENERATOR OPTION**

GAS GENERATOR - OPTION 1 (2x 300kW)

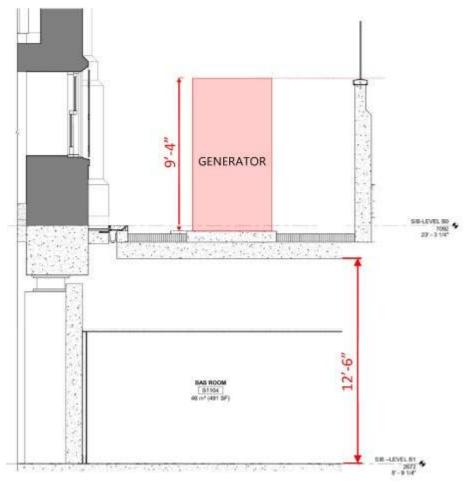


### **FEATURES**:

- 76 dBA @ 7 m (23') SOUND ENCLOSURE
- NO GAS AVAILABLE ON SITE, GAS SERVICE TO BE PROVIDED FROM INDEPENDENCE AVE
- NO DIESEL FUEL TO MAINTAIN
- LOSS OF ONE GENERATOR STILL ALLOWS LIFE SAFETY AND LEGALLY REQUIRED LOADS TO RUN



### GAS GENERATOR – OPTION 1 (2x 300kW)



#### **OPTION 1:**

- NO BELLY TANK, NO CATWALK
- 76dBA @ 7 m (23') SOUND ENCLOSURE
- DROPPED SLAB NOT REQUIRED





## **EXTERIOR MASONRY RESTORATION**

#### **EXTERIOR MASONRY RESTORATION**

VISIT TO GARBER STORAGE FACILITY – SANDSTONE STOCKPILE FEBRUARY 10, 2023







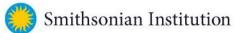
### **EXTERIOR MASONRY RESTORATION**

ON-SITE COMPARISON OF HISTORIC STONE & ALTERNATIVE STONES FEBRUARY 10, 2023









### **EXTERIOR MASONRY RESTORATION**

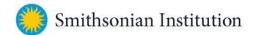
ON-SITE COMPARISON OF HISTORIC STONE & ALTERNATIVE STONES FEBRUARY 10, 2023



LOCHSLEY



ST. BEES



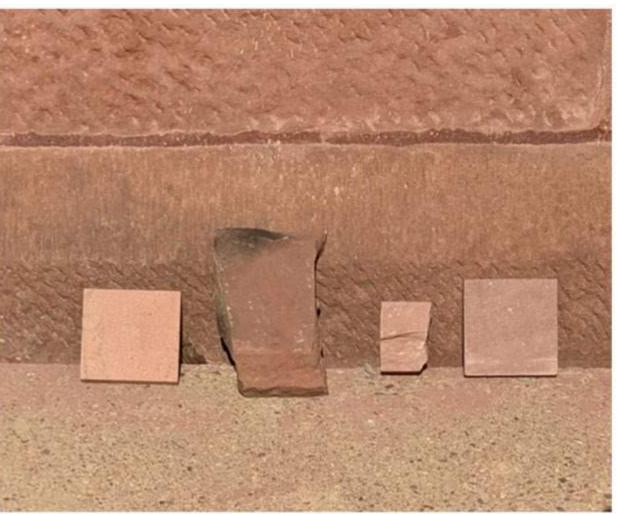
### **EXTERIOR MASONRY RESTORATION**

ON-SITE COMPARISON OF HISTORIC STONE & ALTERNATIVE STONES FEBRUARY 10, 2023

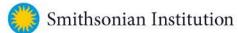








L to R: LAZONBY, SENECA RED, LOCHSLEY, ST. BEES



## **Upcoming Section 106 Consultation Meetings**

Milestone	Date	Meeting Content *
Consulting Parties Meeting #11	March 22, 2023	<ul> <li>Seismic Control Joint Finishes</li> <li>South Tower Elevator Interior Effects</li> <li>Landscape</li> <li>Basement Windows and Egress Doors (and Interior Effects)</li> </ul>
	April 12 <b>OR</b> April 19, 2023 (Separate invitation will be sent via email)	<ul><li>Site Visit at the Castle to review:</li><li>Sandstone alternates</li><li>Seismic Control Joint Finishes</li></ul>
Consulting Parties Meeting #12	April 26, 2023	<ul> <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><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

<sup>\*</sup> Subject to Change



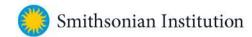
## **RoHC Revitalize Castle – Next Steps**

- 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
- 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**

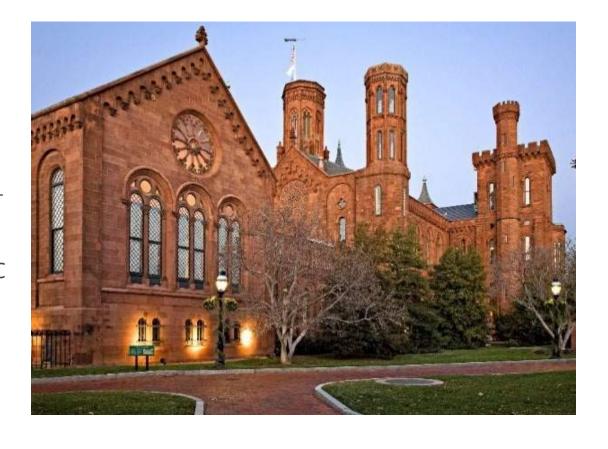
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# Smithsonian Institution

