

The current proposal is:

Preservation Department - Item 6, LPC-21-04144

1000 Fifth Avenue – Metropolitan Museum of Art, Borough of Manhattan

How to Testify Via Zoom:

https://us02web.zoom.us/j/87273483259?pwd=QXpwMTlkSU1TZHNoalhRWDRKTE44UT09

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THE METROPOLITAN MUSEUM OF ART

ROCKEFELLER WING
SLOPED GLAZING
PROPOSED REPLACEMENT

DESIGN OF POTENTIAL FUTURE
REPLACEMENT OF TEMPLE OF
DENDUR WING SLOPED GLAZING
AND ROCKEFELLER AND TEMPLE
OF DENDUR WING SKYLGHTS

SUBMISSION TO LANDMARKS PRESERVATION COMMISSION

BEYER BLINDER BELLE

FEBRUARY 1, 2021 REVISION 3

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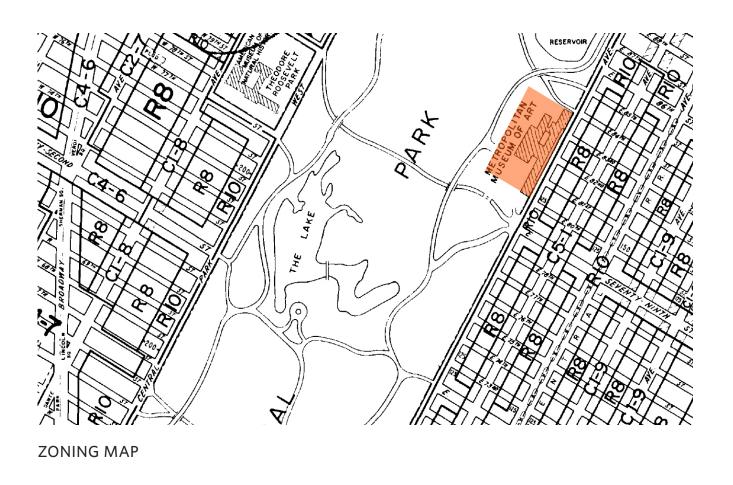
- 1. Location and Context
- 2. Rockefeller Wing Sloped Glazing Replacement Design
- 3. Appendices
 - 3a. Design of Potential Future Wing S Sloped Glazing Replacement
 - 3b. Design of Potential Future Wing S and Rockefeller Wings Skylight Replacement
 - 3c. Precedent: ABC Wings Skylight Replacement

BBB DESIGN TEAM

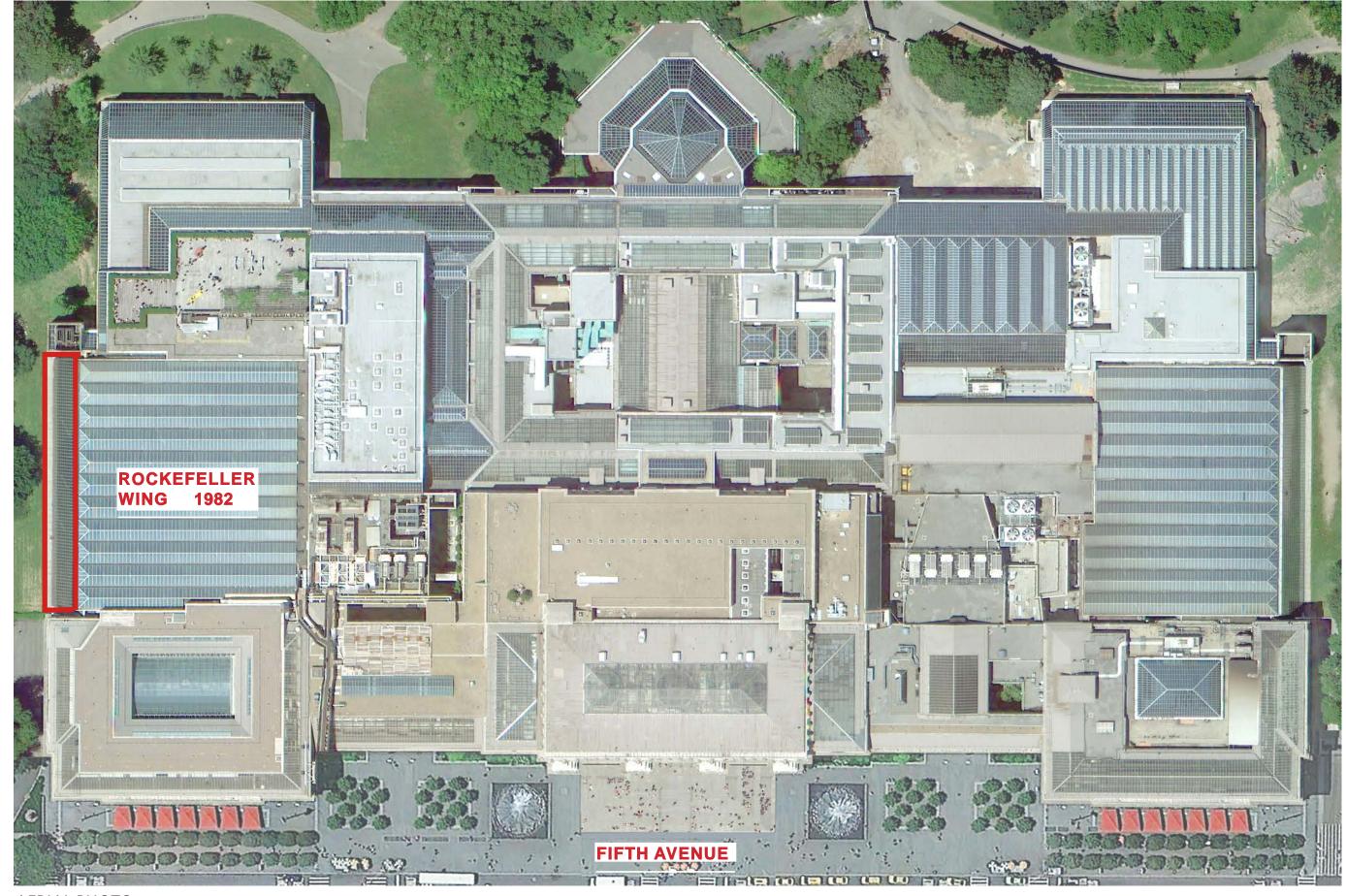
Beyer Blinder Belle Architects & Planners, LLP Architecture and Planning

ArupFacade and Daylighting

Kohler Ronan, LLC Mechanical, Electrical, Plumbing, and Fire Protection Engineers (MEP/FP), Energy Modeling Wiss, Janney, Elstner Associates (WJE), Inc. Exterior Building Envelope, Roofing, Masonry Repair and Restoration, Waterproofing **Thornton Tomasetti** Structural Engineers **wHY** Exhibit Design Architect

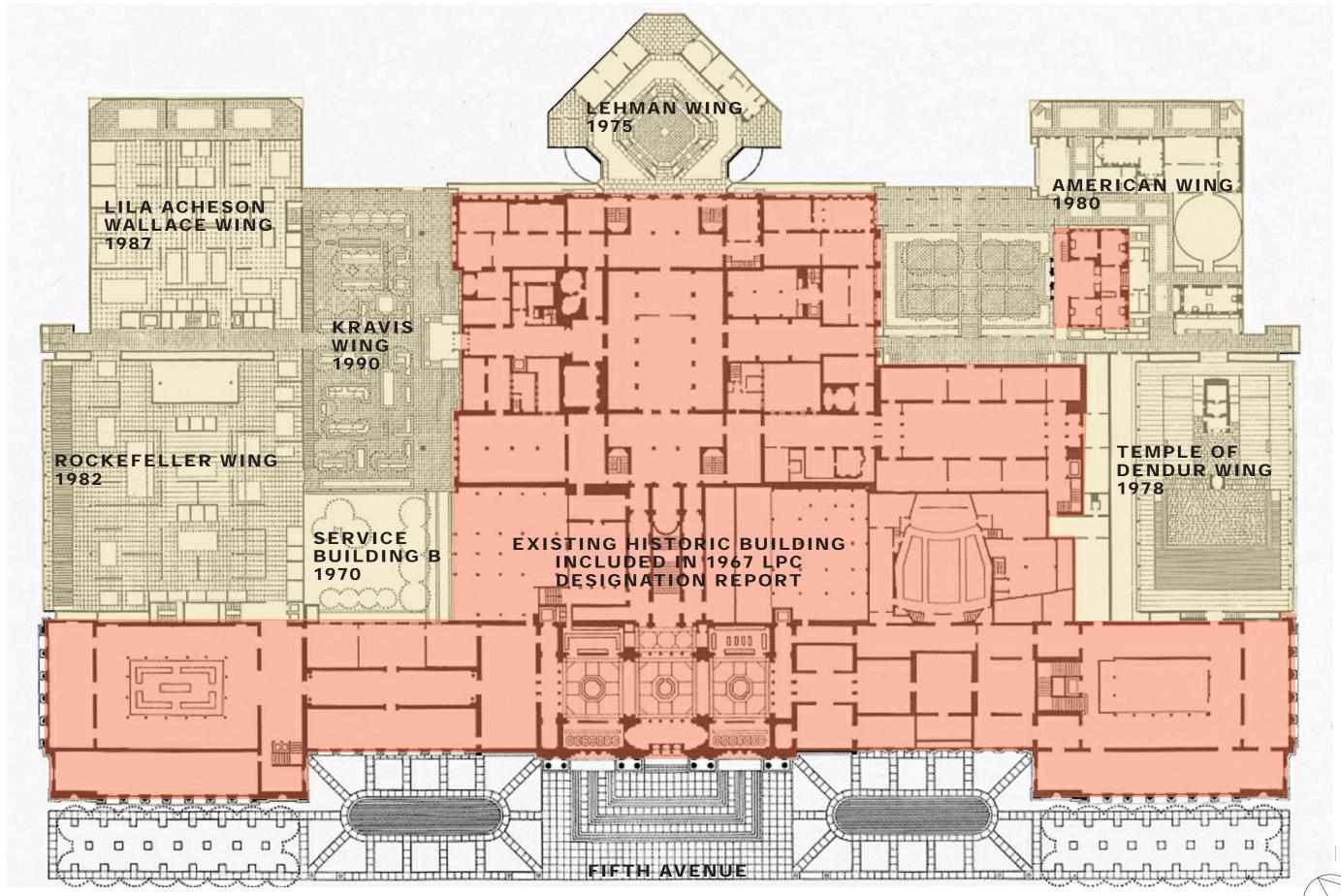


1. LOCATION AND CONTEXT

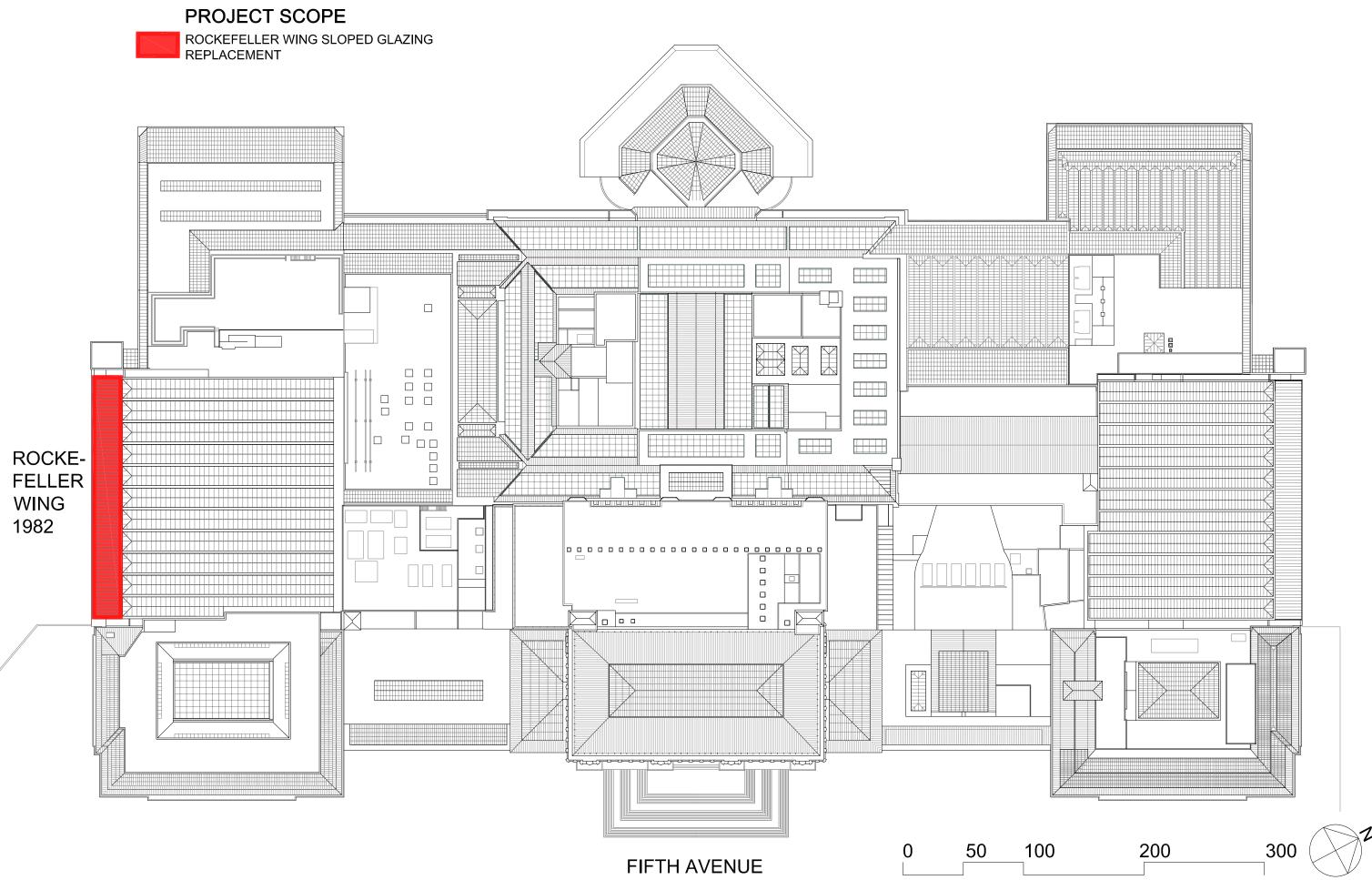








1970 MASTER PLAN SHOWING ADDITIONS IN YELLOW (KEVIN ROCHE JOHN DINKELOO AND ASSOCIATES)

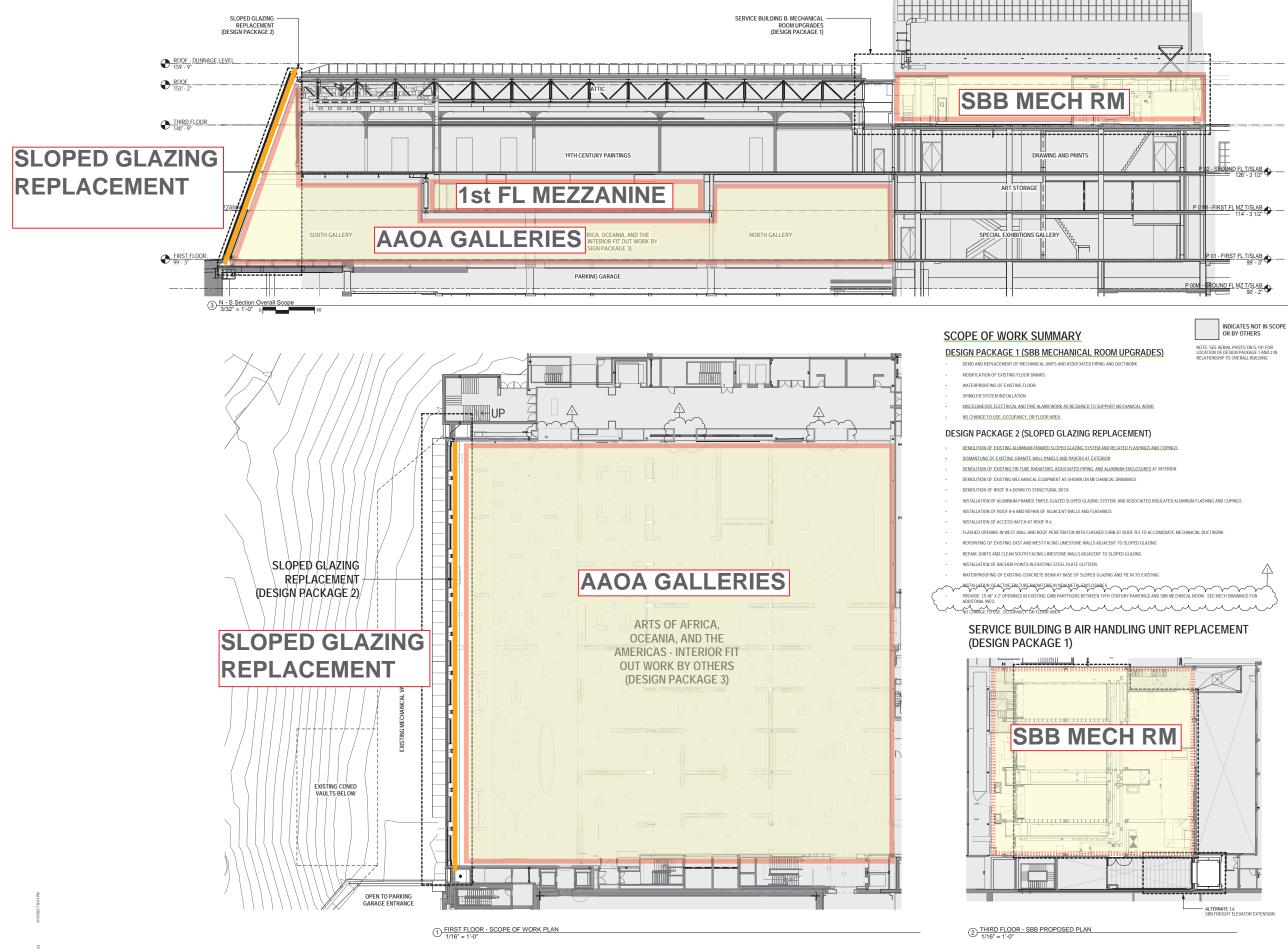


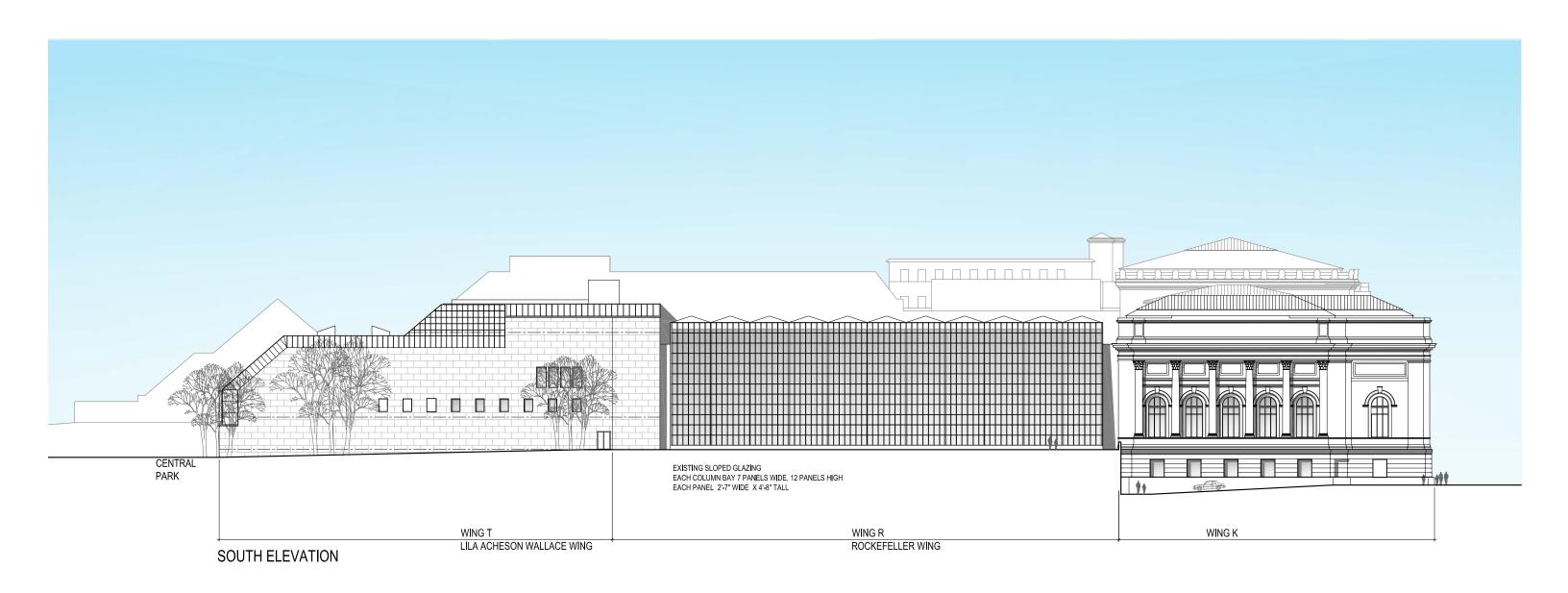


AERIAL PHOTO SHOWING LOCATION OF PROJECT

ROCKEFELLER WING SLOPED GLAZING

2. ROCKEFELLER WING SLOPED GLAZING REPLACEMENT DESIGN





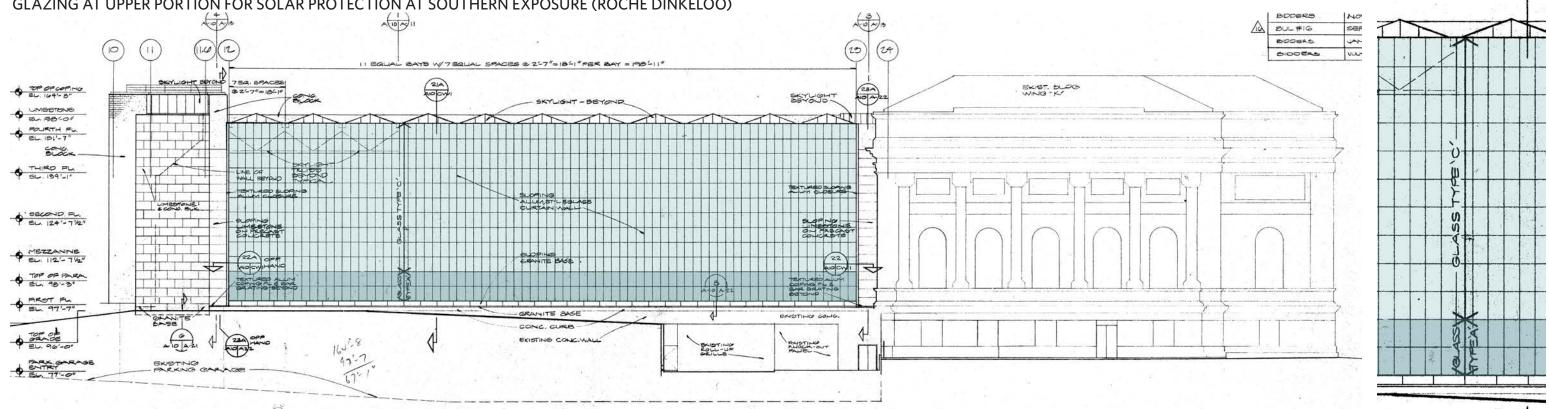
MET MUSEUM EXISTING SOUTH ELEVATION



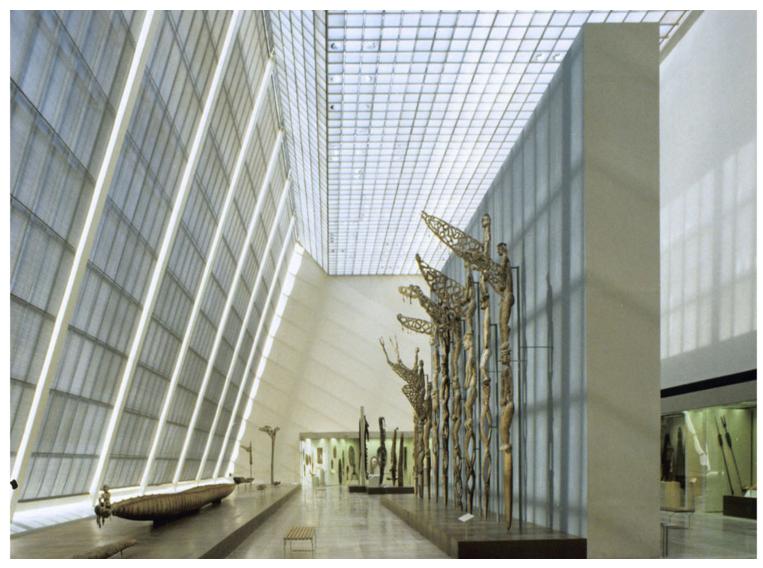




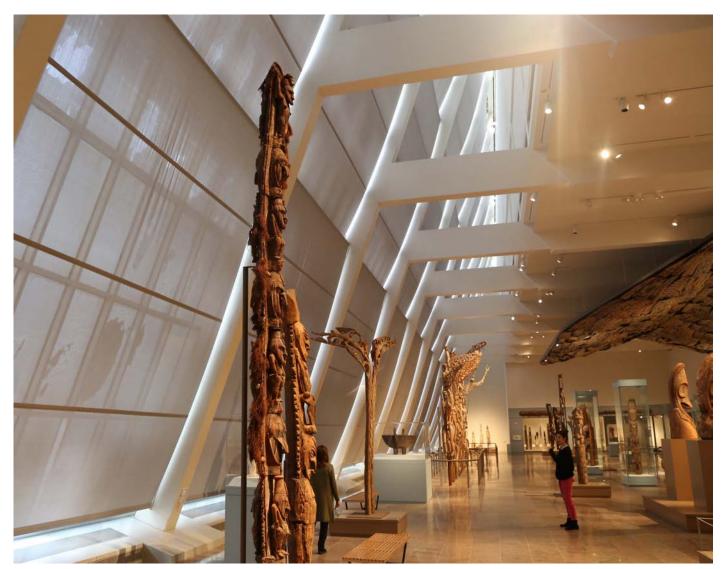
PHOTO OF ORIGINAL CONDITION, 1980'S



ROCKEFELLER WING SOUTH ELEVATION DRAWING (1975) SHOWING LOWER GLASS (FOR VISION) AND UPPER GLASS (MORE TRANSLUCENT TO CUT SOLAR HEAT GAIN AND LIGHT LEVELS.



ROCKEFELLER WING AAOA (ARTS OF AFRICA, OCEANIA, AND THE AMERICAS) GALLERIES ORIGINAL CONDITION 1982 - SOUTH EXPOSURE



ROCKEFELLER WING AAOA GALLERIES EXISTING CONDITIONS AFTER 2005 MODIFICATIONS



Existing condition: exterior with deteriorating tinted plastic film on glass



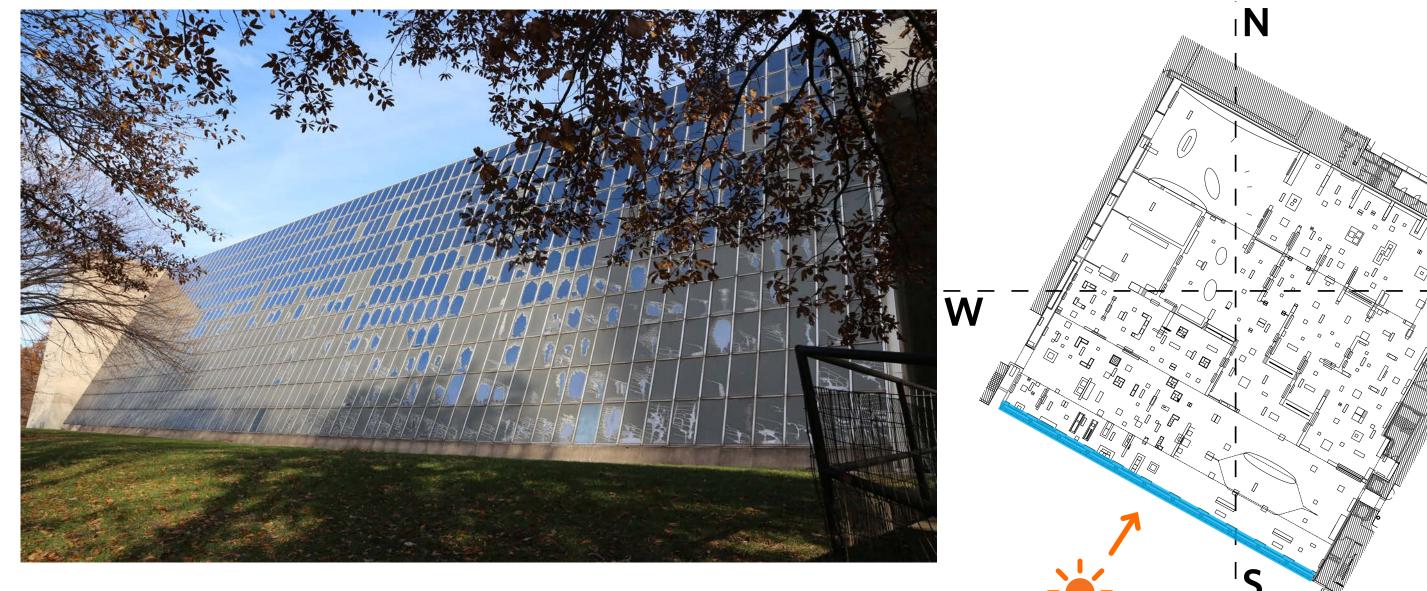
Exterior detai: deteriorating plastic film and corroding curtain wall framing



Interior detail of with deteriorating plastic film



Interior: deteriorated film visible through mesh roller shades.

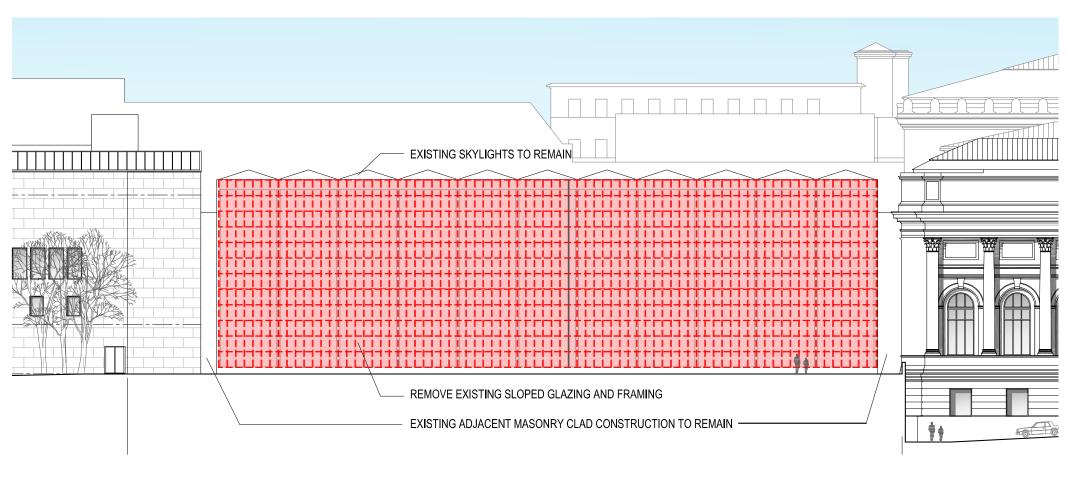


Existing Condition View from South of Rockefeller Sloped Glazing
Sloped glazing is 200 feet long, 60 feet high and at a 70 degree slope with a surface area of approximately 12,000 square feet.

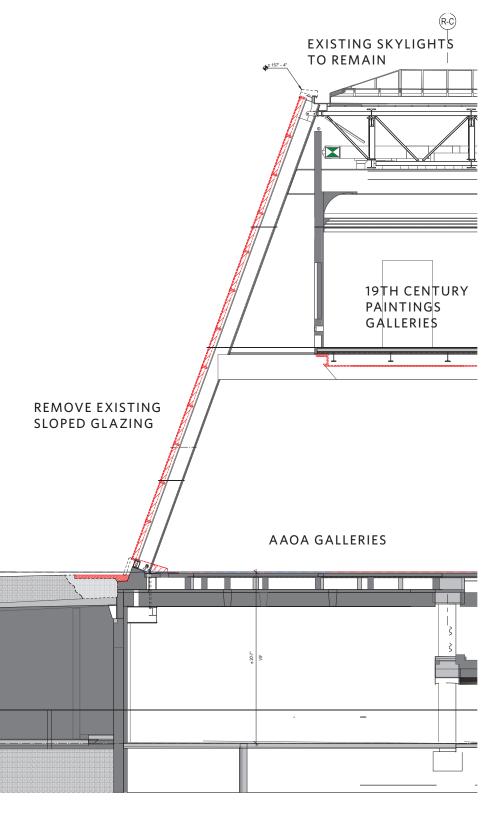
AAOA GALLERY PLAN

PROPOSED SLOPED GLAZING SYSTEM IMPROVEMENTS:

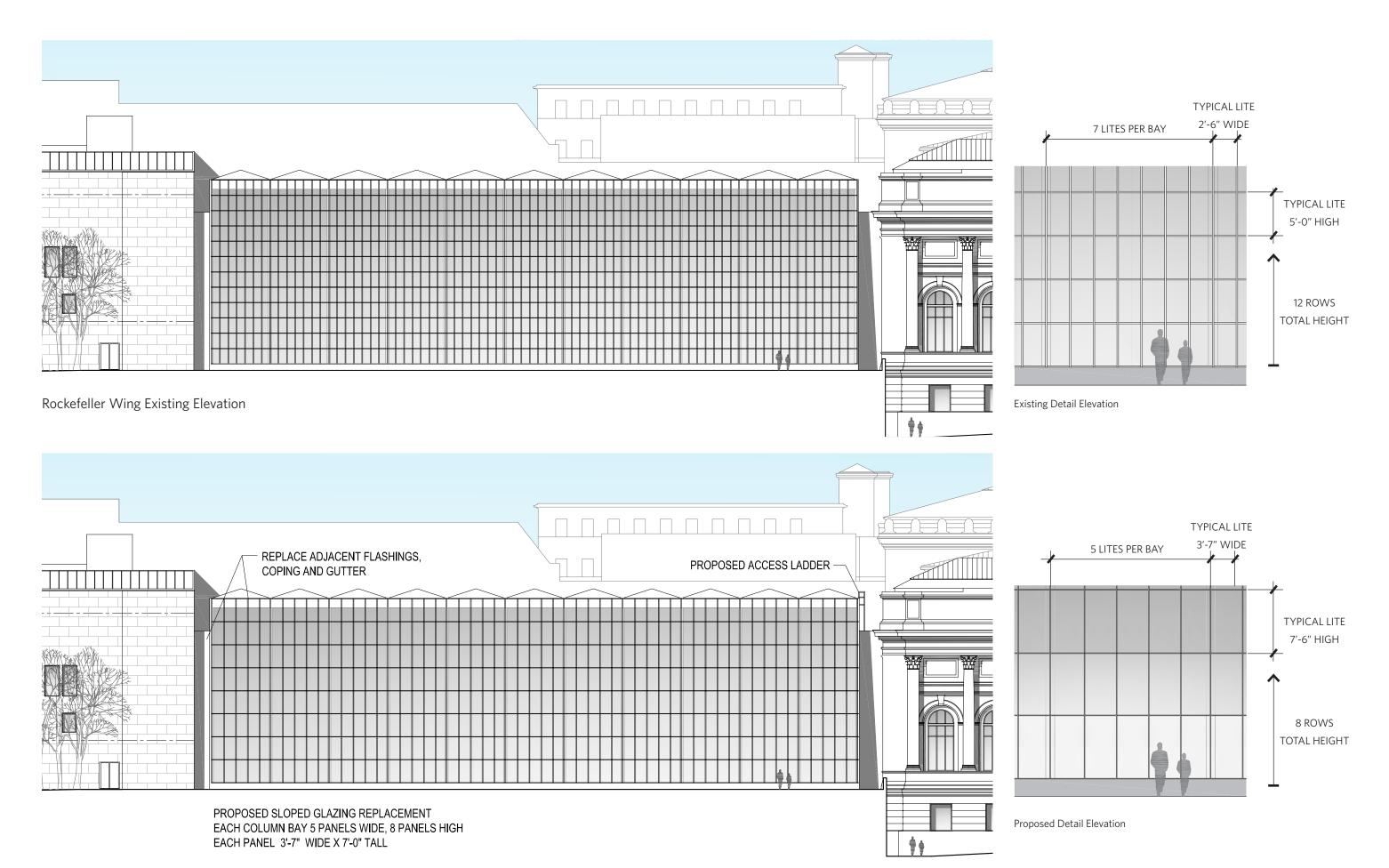
- State of the art sloped glazing assembly, which has been custom designed to meet the needs of the Met Museum's collection and environment.
- Greater resistance to condenstion, which is critical for humidified museum conditions. The current system is not sufficent and condensation is an on-going issue for the curators.
- Four-sided structurally glazed cassettes which eliminate thermal bridges between interior and exterior improving energy efficiency.
- Improved glass with solar and thermal control layers including low-E and solar control coatings, triple glazing, and argon fill.
- Natural daylight and visual connection to Central Park from within the AAOA collections to complement the contemporary exhibition design being developed in parallel to this project by wHY architects. The existing glazing system is not able to mitigate the daylighting coming in to the south-facing glass, and as a result the shades are always deployed.
- Provides the quality and quantity of daylight desired by curators for visitor experience and optimal appreciation of the art. The existing glazing system does not meet the conservators requirements for daylighting.
- Provides bird safe glass with visual frit pattern to avoid bird collisions.
- Also address other problematic areas of the exterior envelope: gutters, flashing, and connection to adjacent masonry walls.
- The mechanical system adjacent to the sloped glazing will also be updated in order to provide additional protection against condensation.



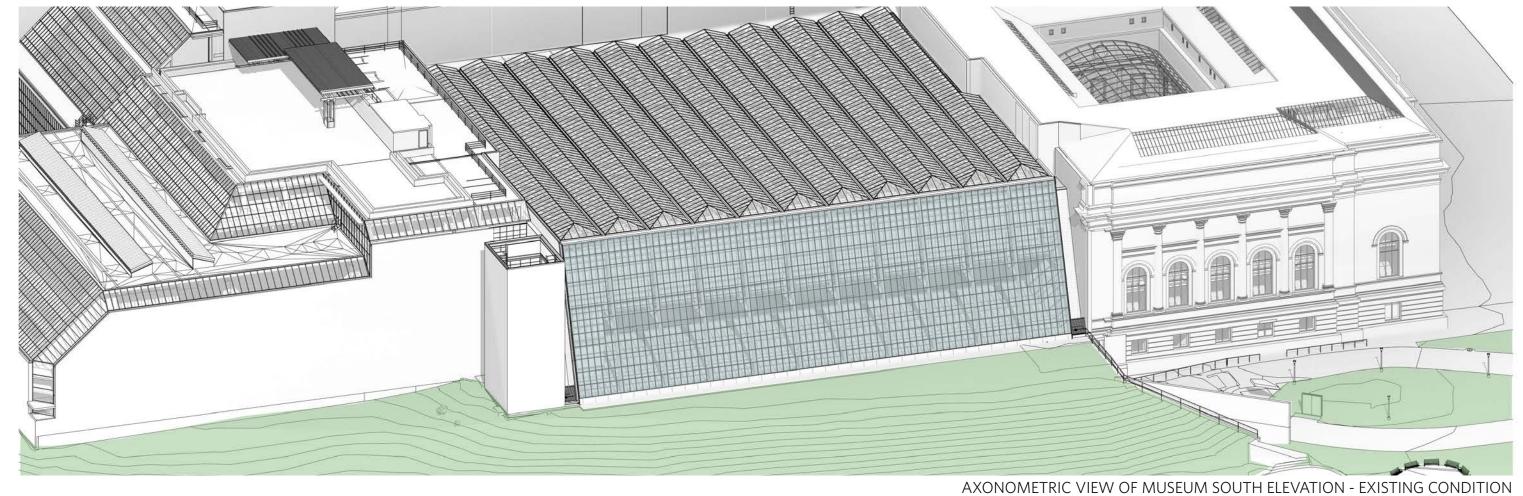
ROCKEFELLER WING SOUTH ELEVATION: SELECTIVE REMOVALS INDICATED IN RED

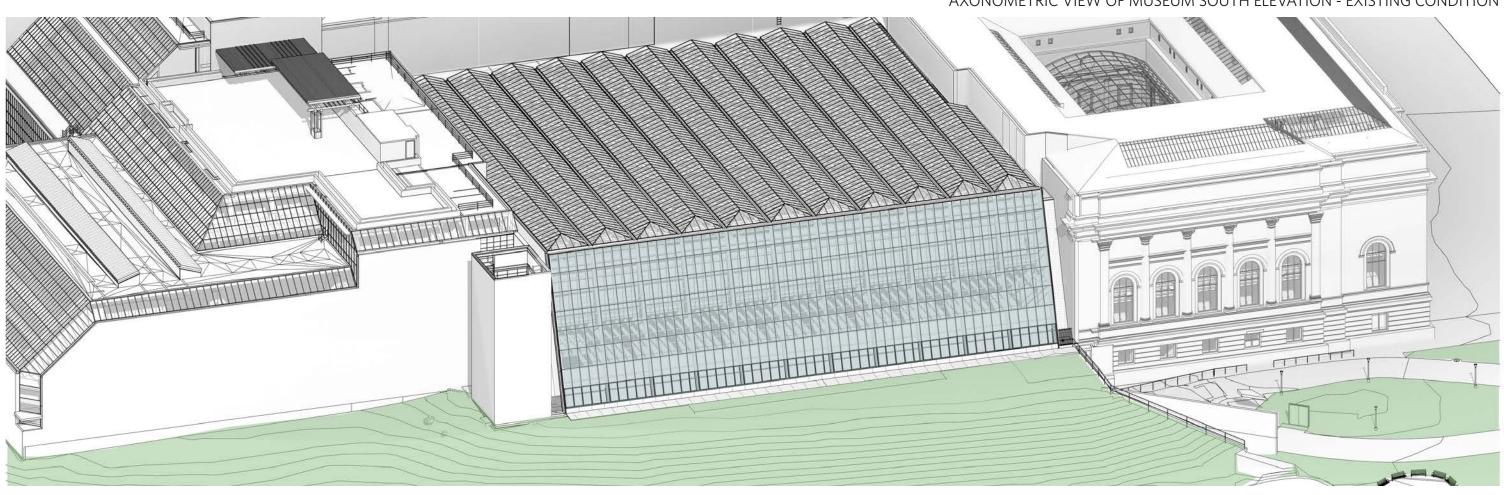


SECTION AT SLOPED GLAZING: SELECTIVE REMOVALS INDICATED IN RED

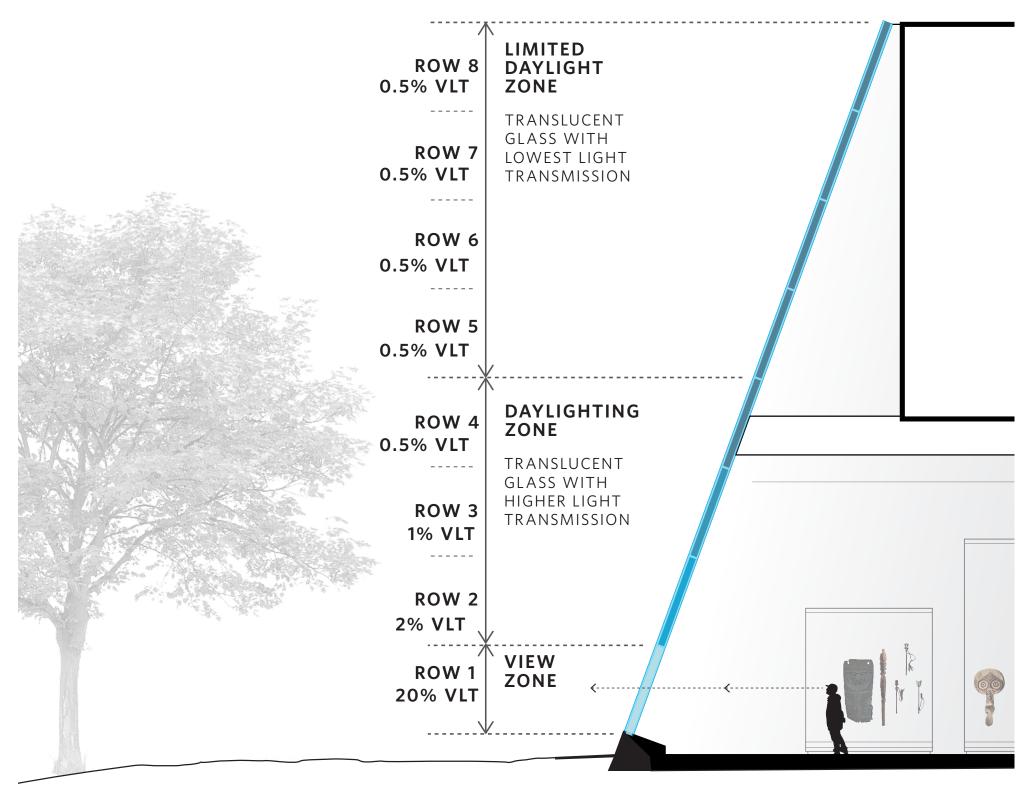


Rockefeller Wing Proposed Elevation

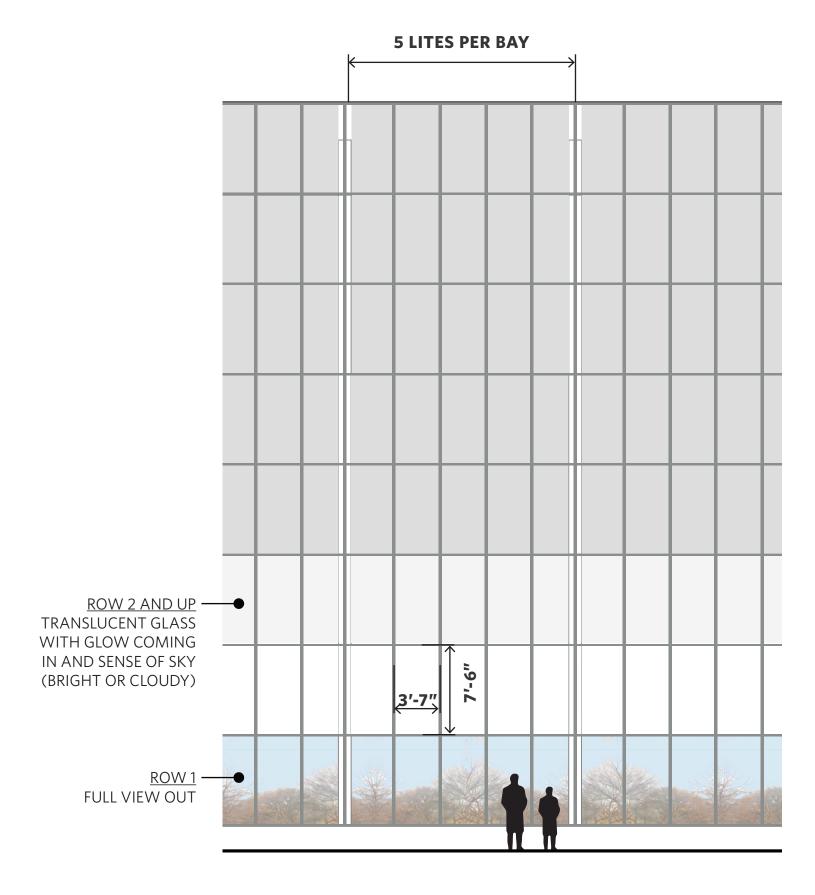




NOTE: VLT (Visible Light Transmittance) is subject to refinement as the glass build-up is finalized



SECTION DIAGRAM OF SOUTH GALLERY LOOKING WEST



INTERIOR ELEVATION OF SOUTH GALLERY LOOKING SOUTH

GLASS ASSEMBLY SOLAR CONTROL LAYERS

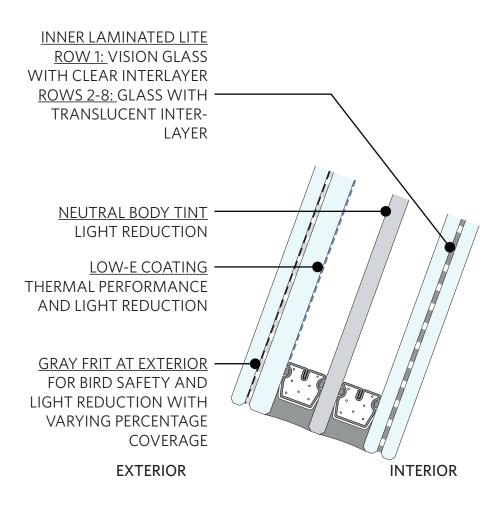


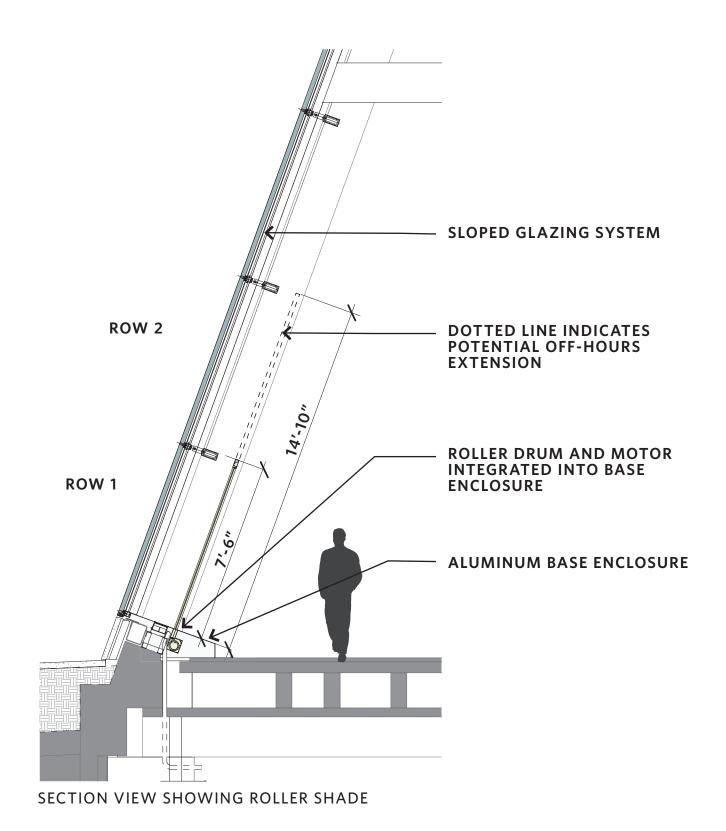
DIAGRAM OF TRIPLE-PANE GLAZING UNIT

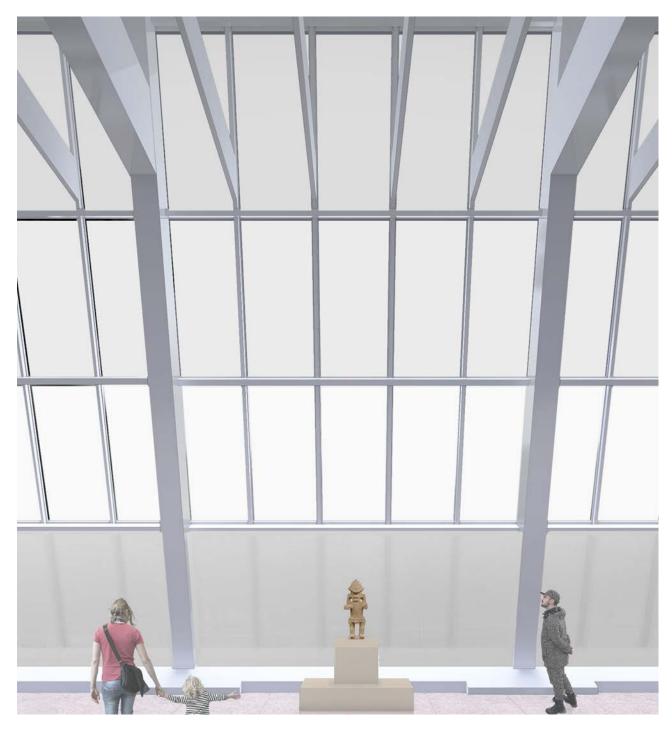


EXISTING CONDITION VIEW FROM FIRST FLOOR INTERIOR OF AAOA GALLERIES



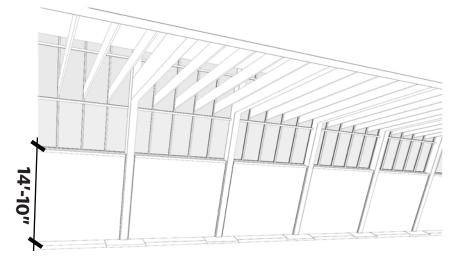
PROPOSED VIEW FROM FIRST FLOOR INTERIOR OF AAOA GALLERIES



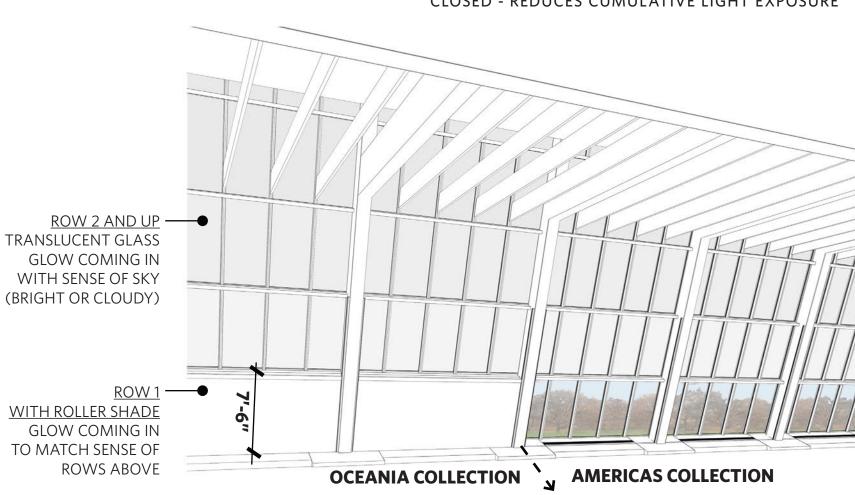


PROPOSED VIEW FROM FIRST FLOOR INTERIOR OF AAOA GALLERIES - WITH SHADE DEPLOYED

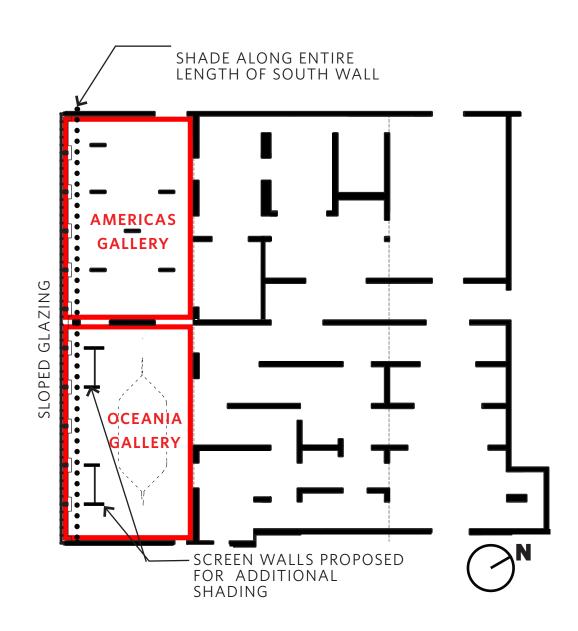
INTERIOR ROLLER SHADES



ROLLER SHADES DEPLOYED UP TO THE SECOND ROW OF GLASS ACROSS ALL BAYS WHEN MUSEUM IS CLOSED - REDUCES CUMULATIVE LIGHT EXPOSURE

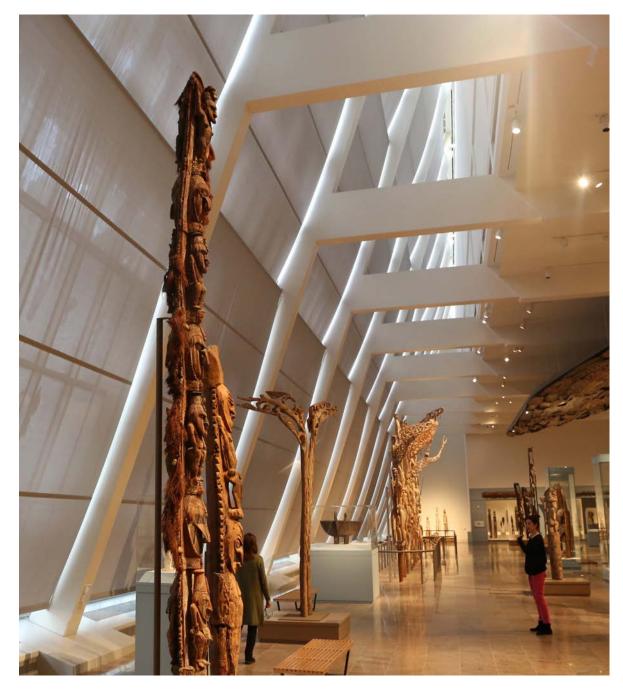


ROLLER SHADES DEPLOYED UP TO THE FIRST ROW OF GLASS AT OCEANIA WHEN THE DAYLIGHT QUANTITY IS HIGH. ARTWORK IN AMERICAS ARE MORE DURABLE, AND DO NOT REQUIRE THE SHADE TO BE DEPLOYED WHEN THE MUSEUM IS OPEN



AAOA GALLERY PLAN SHOWING AREAS WHERE SHADES
ARE NEEDED

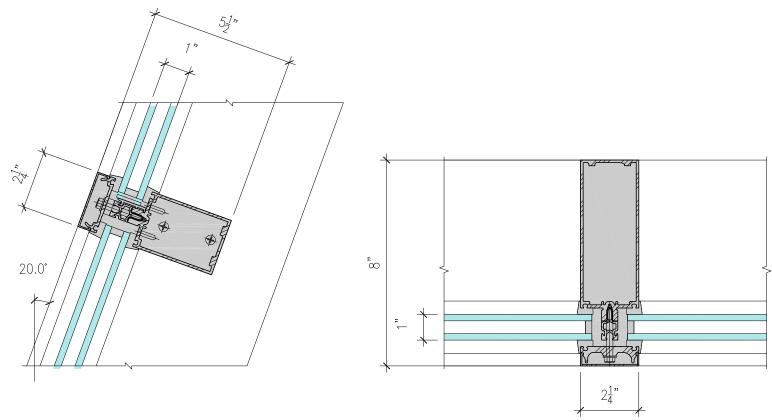
INTERIOR ROLLER SHADES



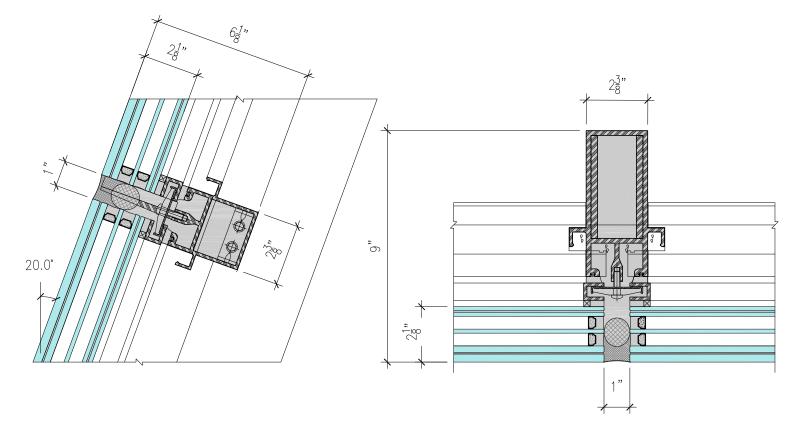
AAOA GALLERIES EXISTING CONDITIONS



ARCHITECTURAL CONCEPT INTENT RENDERING AT SOUTH GALLERY, VIEW EAST

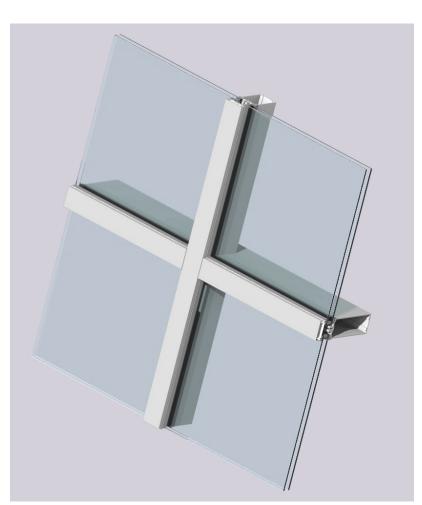


EXISTING DETAILS: HORIZONTAL MULLION AND VERTICAL MULLION CONVENTIONAL INSULATED GLASS UNITS WITH PRESSURE CAPS

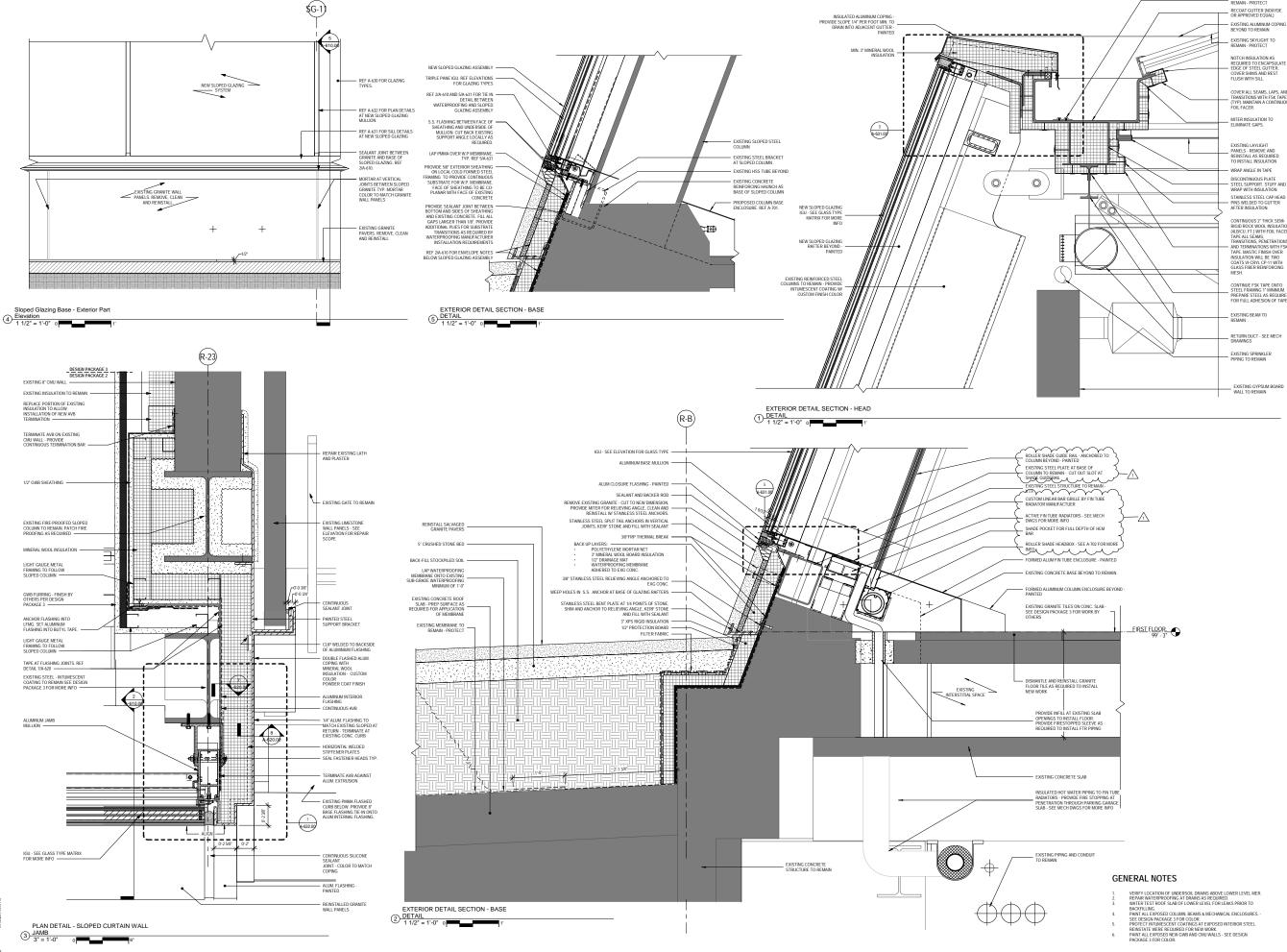


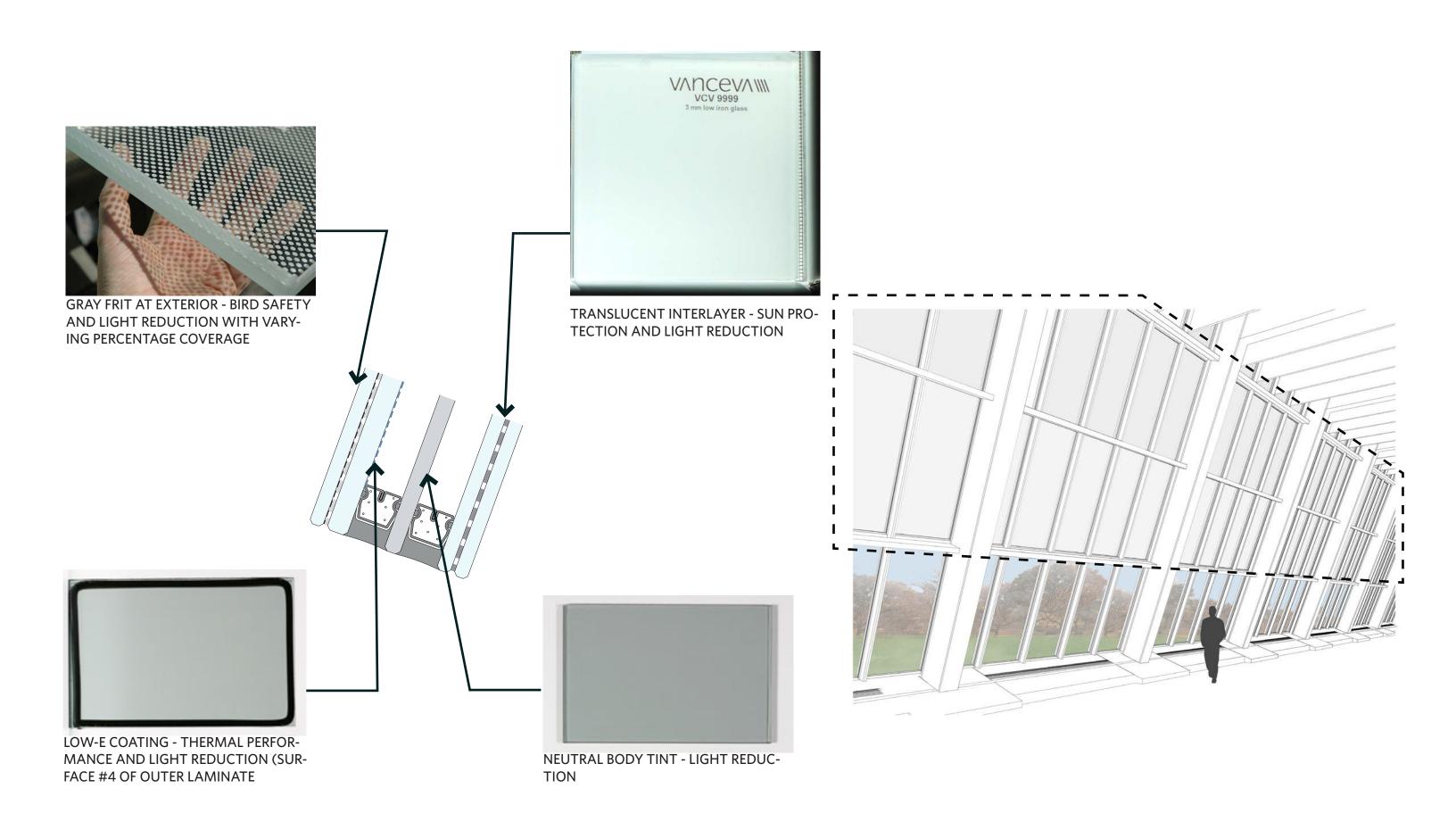
PROPOSED DETAILS: HORIZONTAL MULLION AND VERTICAL MULLION
TRIPLE GLAZING, LAMINATED GLASS, AND STRUCTURAL SILICON GLASS ATTACHMENT FOR
IMPROVED THERMAL AND SOLAR PERFORMANCE, WEATHER TIGHTNESS, AND LONGEVITY











TRANSLUCENT GLASS PANEL ASSEMBLY



GLASS SAMPLE
VIEW OF EXTERIOR FACE: ROW 1

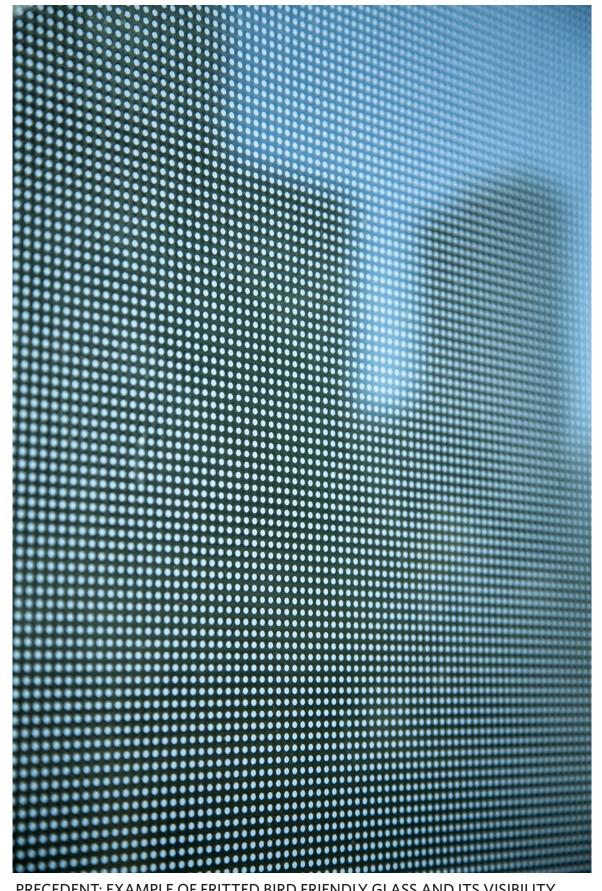


GLASS SAMPLE
VIEW OF EXTERIOR FACE: ROW 4

NOTE: FRITS ARE REQUIRED AS PART OF NYC BUILDING CODE NEW REQUIREMENTS FOR BIRD FRIENDLY GLASS MATERIALS, EFFECTIVE IN 2021







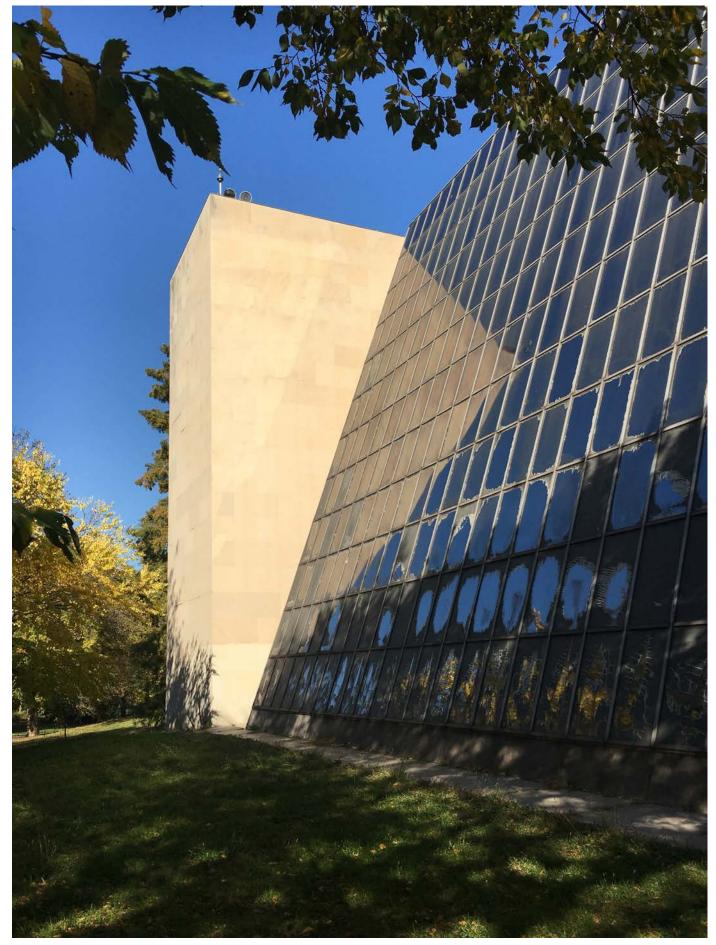
PRECEDENT: EXAMPLE OF FRITTED BIRD FRIENDLY GLASS AND ITS VISIBILITY FROM A DISTANCE: RENOVATION OF JACOB JAVITS CONVENTION CENTER



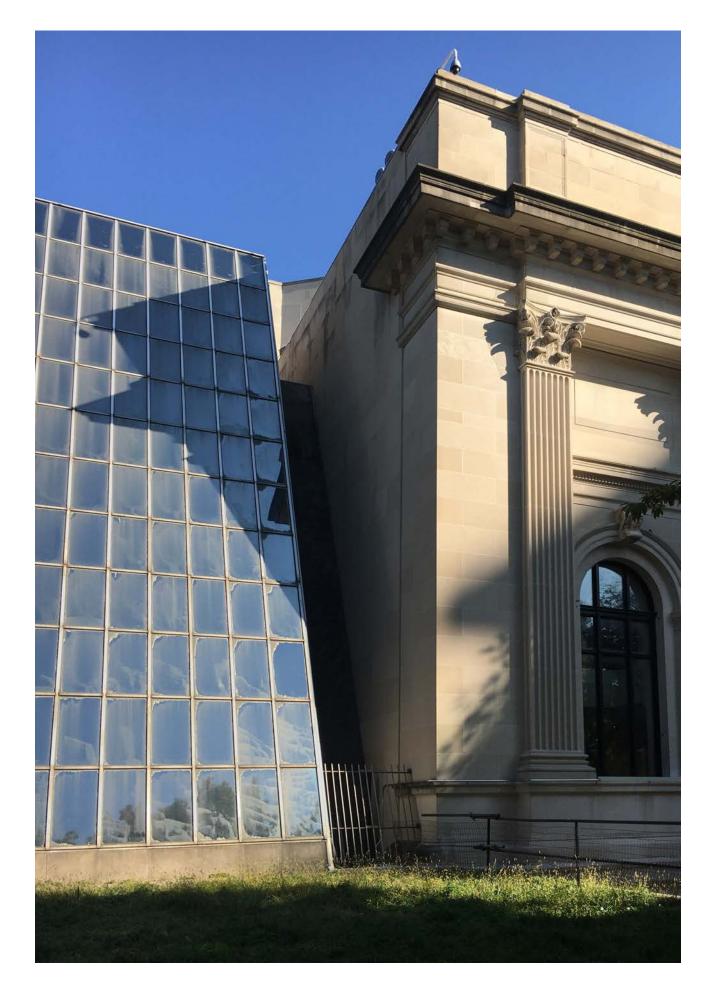
ROCKEFELLER WING - EXISTING CONDITION PHOTO

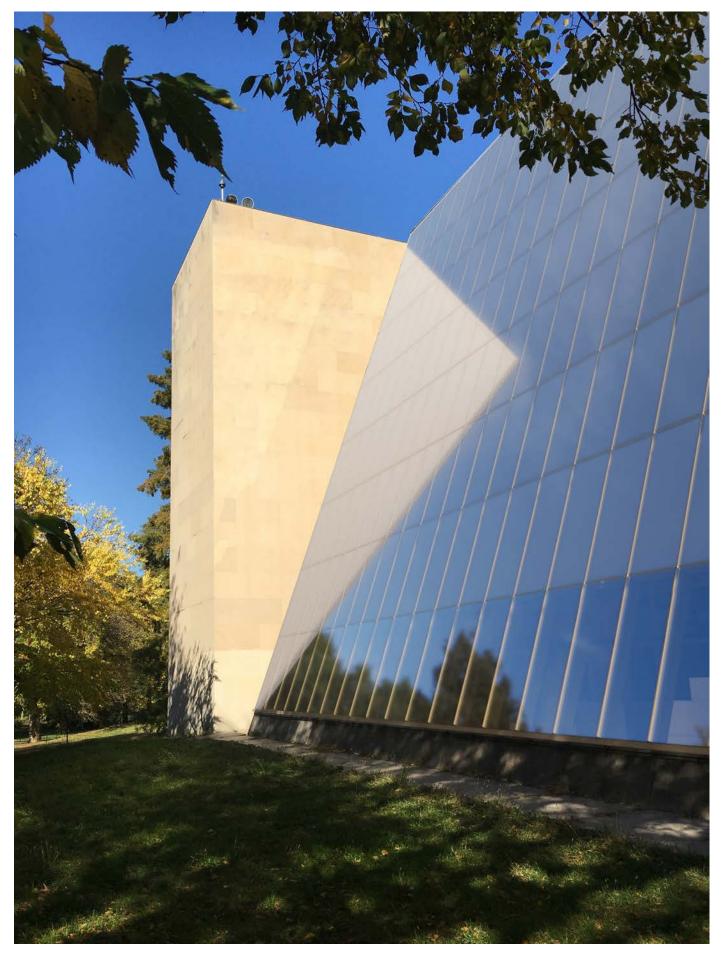


ROCKEFELLER WING PROPOSED SLOPED GLAZING REPLACEMENT - RENDERING

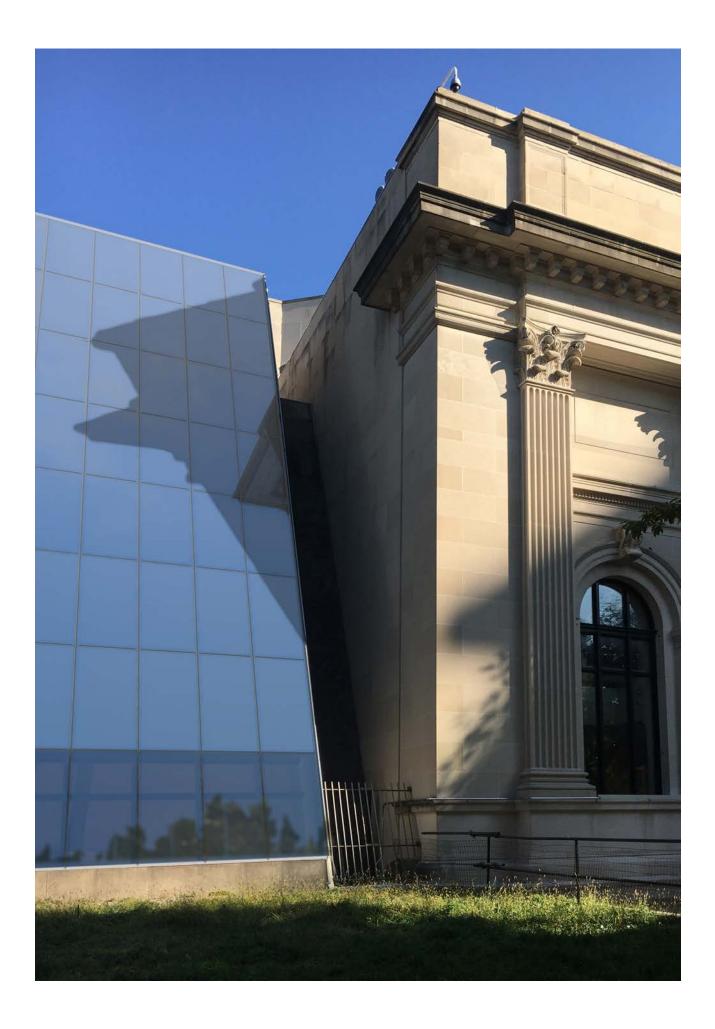


ROCKEFELLER WING - EXISTING CONDITION PHOTOS





ROCKEFELLER WING PROPOSED SLOPED GLAZING REPLACEMENT - RENDERINGS



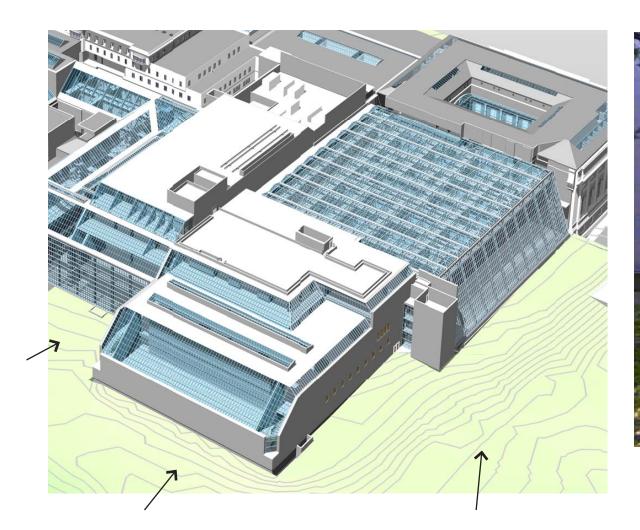




CONTEXT PHOTOS IN CENTRAL PARK



CONTEXT PHOTO: VIEW OF ROCKEFELLER WING SLOPED GLAZING FROM FIFTH AVENUE









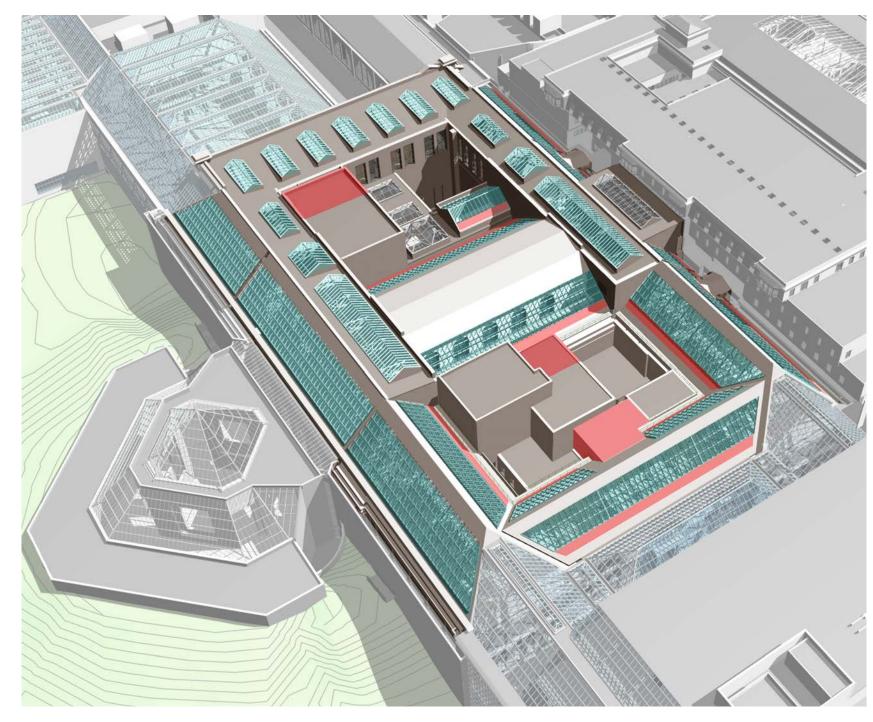
CONTEXT PHOTOS AT SOUTHWEST CORNER OF MUSEUM - VISIBILITY OF ROCKEFELLER WING WITH LILA ACHESON WALLACE WING AND PETRIE COURT



EXISTING CONDITION PHOTO: VIEW OF MET SOUTHWEST WING AND ROCKEFELLER WING

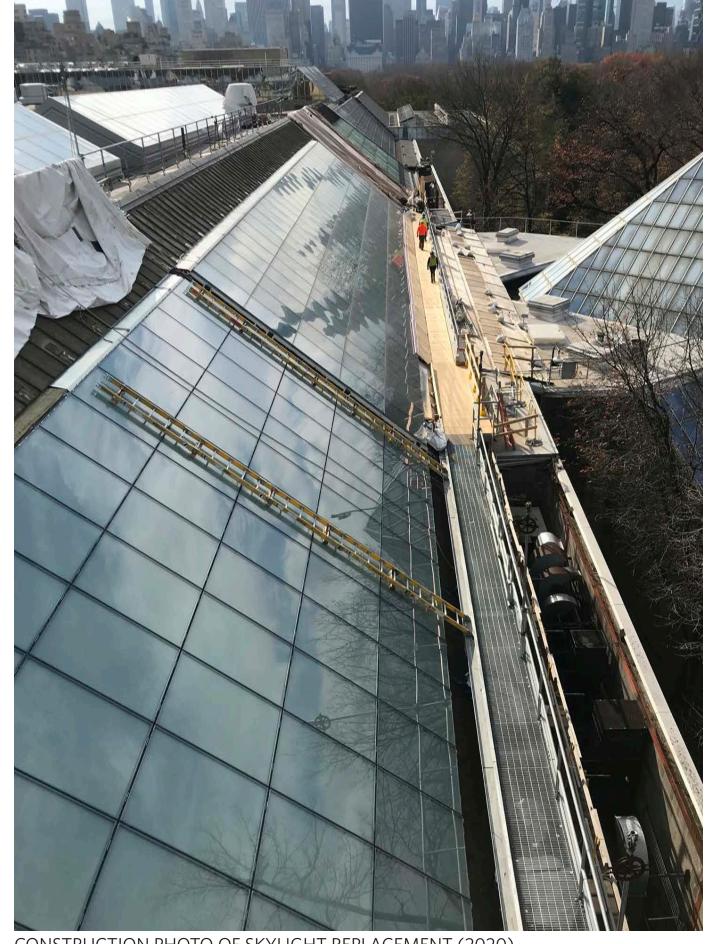


PROPOSED RENDERING: VIEW OF MET SOUTHWEST WING AND ROCKEFELLER WING

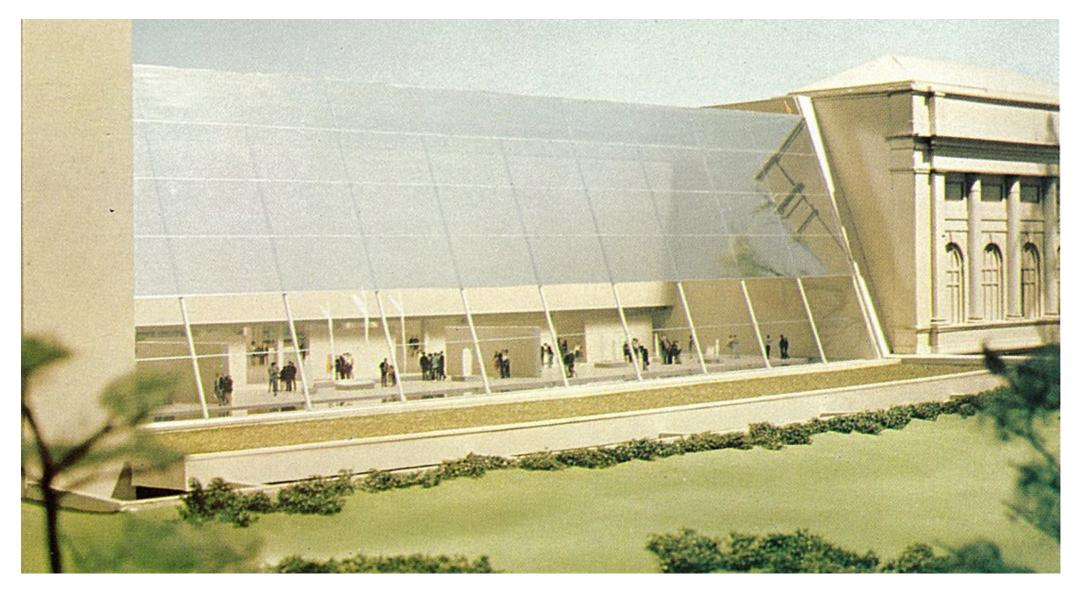


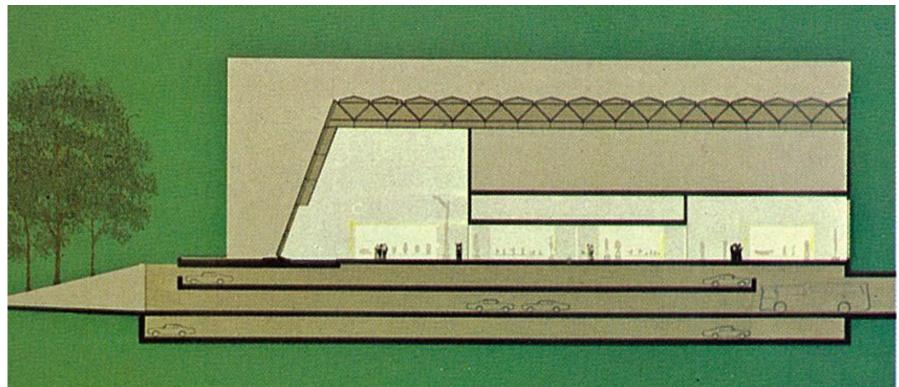
METROPOLITAN MUSEUM PRECEDENT:

WINGS A,B AND C SKYLIGHT REPLACEMENT OVER EUROPEAN PAINTINGS GALLERIES AS APPROVED BY LPC AT STAFF LEVEL IN 2017. THE NEW GLAZING SYSTEM IS SIMILAR TO THAT PROPOSED FOR THE ROCKEFELLER WING.



CONSTRUCTION PHOTO OF SKYLIGHT REPLACEMENT (2020)





KEVIN ROCHE JOHN DINKELOO ASSOCIATES:

MODEL AND SECTION OF OF THE ROCKEFELLER WING, 1970 MASTER PLAN

THE 1970 MODELS SHOW SHEER PLANES OF GLASS WITHOUT THE MULLION GRIDS THAT WERE INCORPORATED INTO THE BUILT PROJECTS USING THE GLASS TECHNOLOGY AVAILABLE IN THE 1970'S AND EARLY 1980'S.



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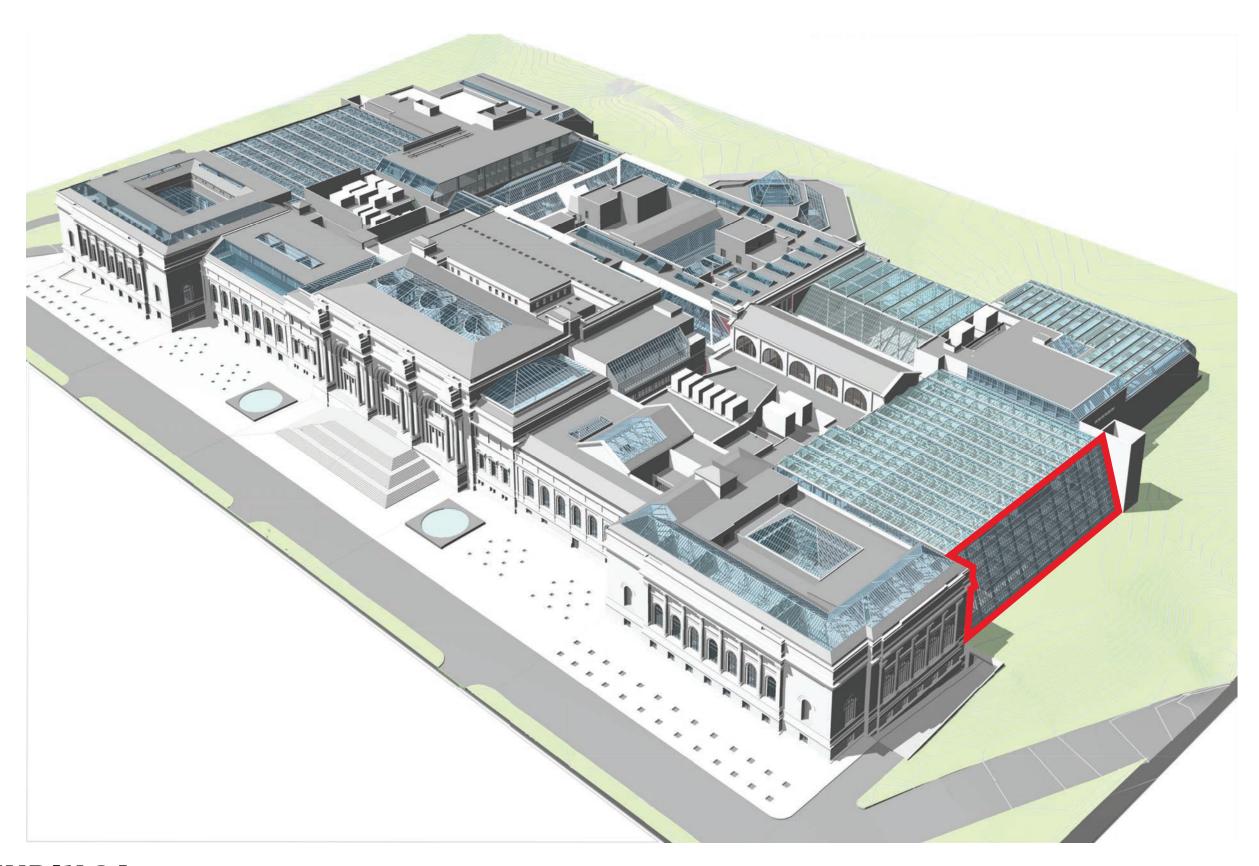
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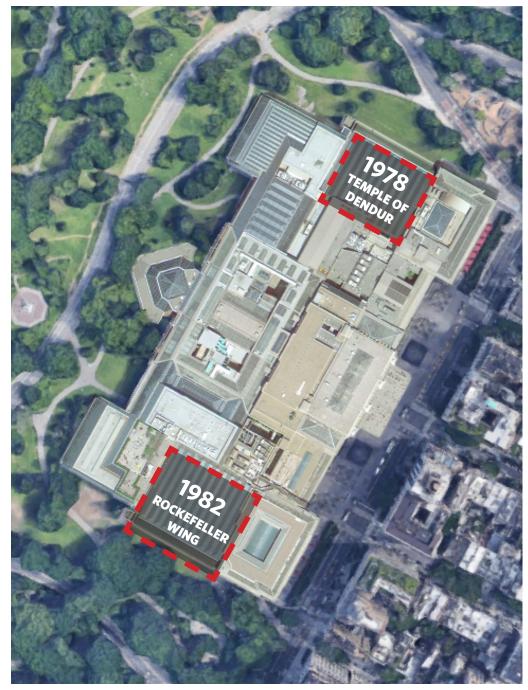
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APPENDIX 3A:
DESIGN OF POTENTIAL FUTURE TEMPLE OF DENDUR SLOPED GLAZING REPLACEMENT





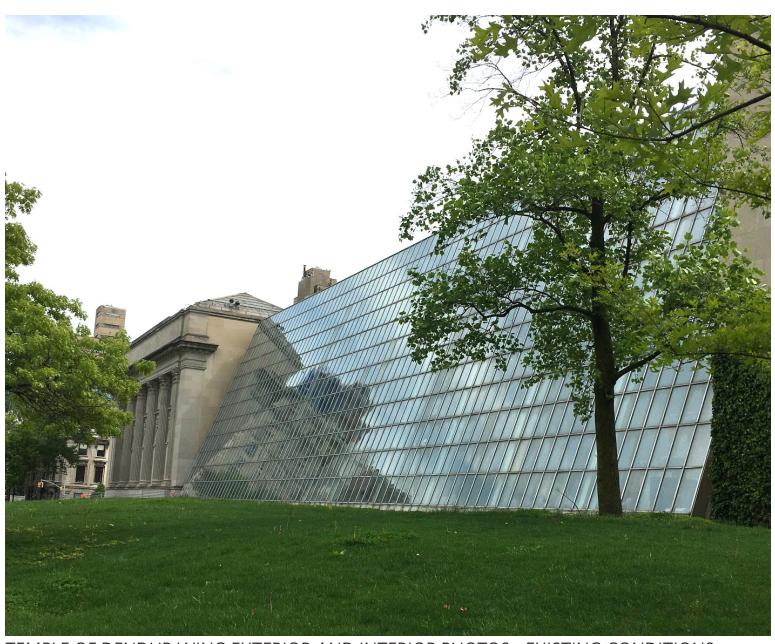


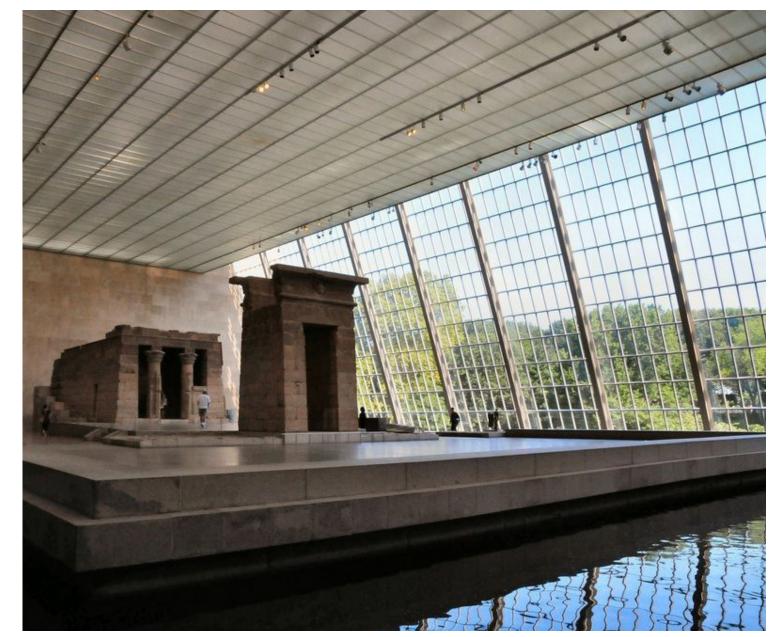
ROCKEFELLER WING FACES SOUTH



TEMPLE OF DENDUR WING FACES NORTH







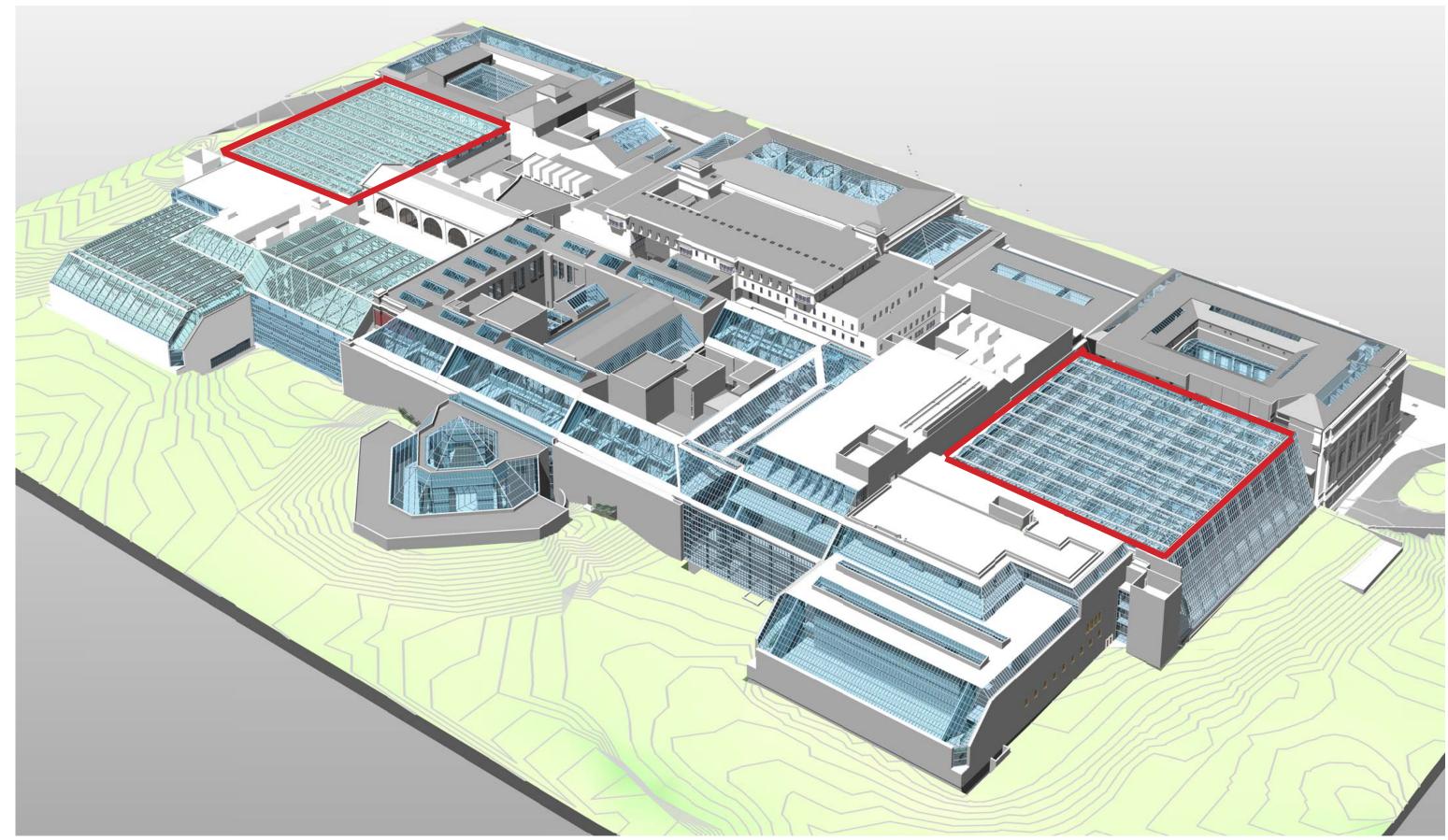
TEMPLE OF DENDUR WING EXTERIOR AND INTERIOR PHOTOS - EXISTING CONDITIONS



ROCKEFELLER WING SLOPED GLAZING PROPOSED REPLACEMENT



TEMPLE OF DENDUR WING SLOPED GLAZING: DESIGN OF POTENTIAL FUTURE REPLACEMENT



APPENDIX 3B: ROCKEFELLER AND TEMPLE OF DENDUR SKYLIGHTS: DESIGN OF POTENTIAL FUTURE SKYLIGHT ROOF REPLACEMENT

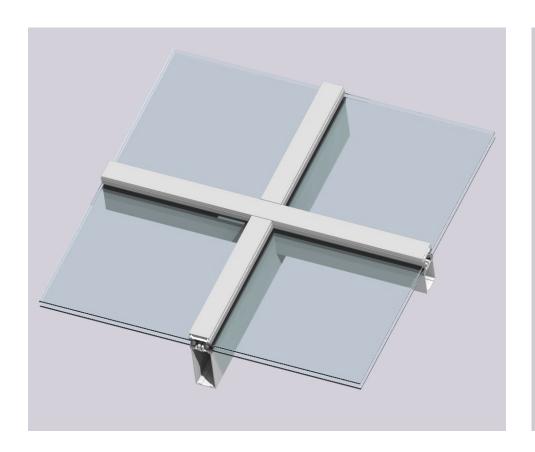




TEMPLE OF DENDUR WING SKYLIGHTS EXISTING CONDITIONS



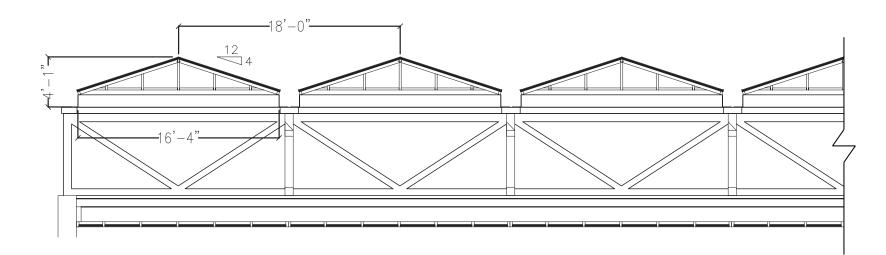




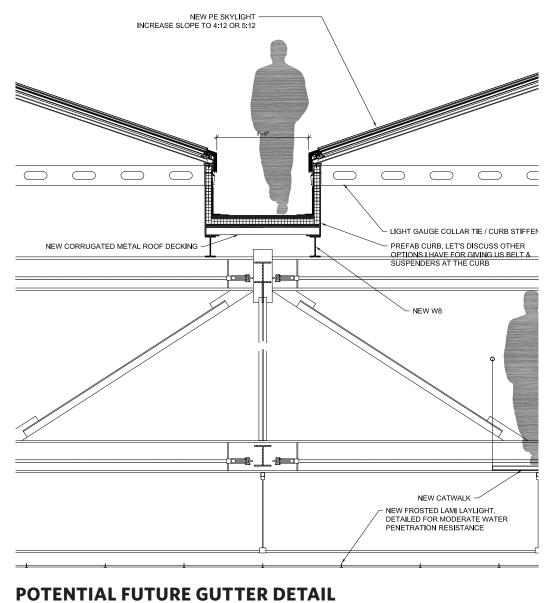


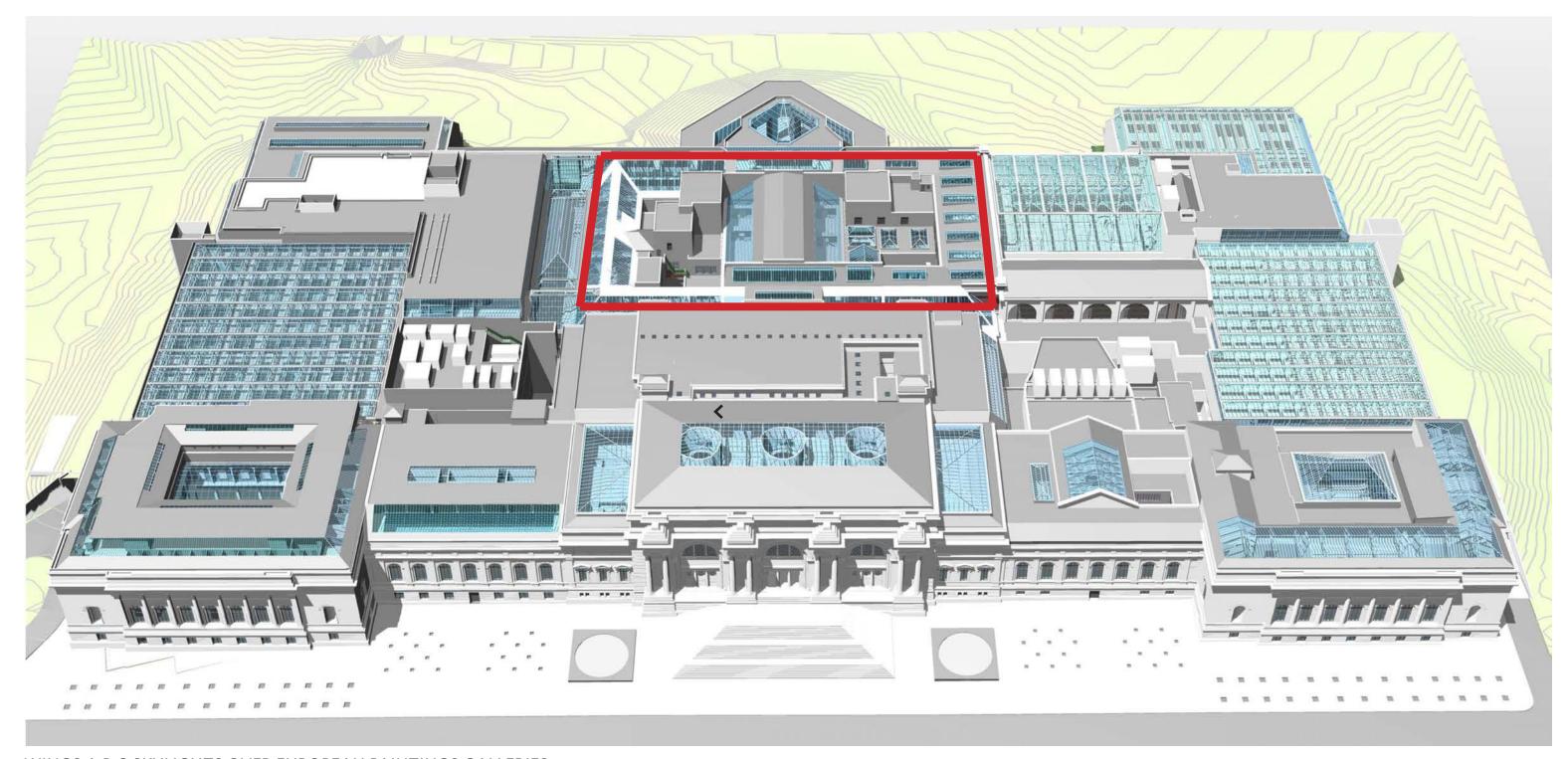
EXISTING SKYLIGHT DETAIL

POTENTIAL FUTURE SKYLIGHT DETAIL



ROCKEFELLER AND TEMPLE OF DENDUR EXISTING SKYLIGHTS SECTION

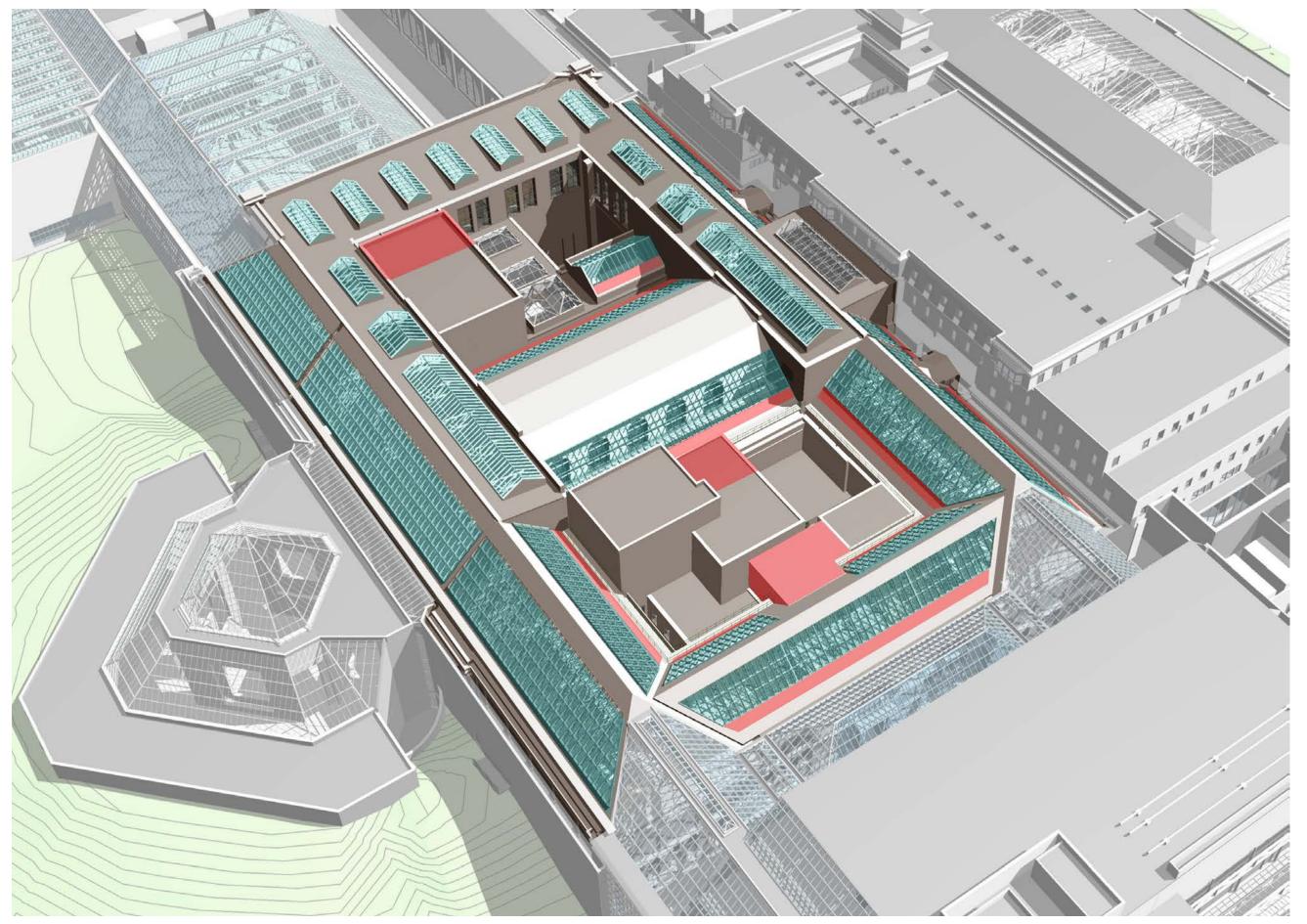




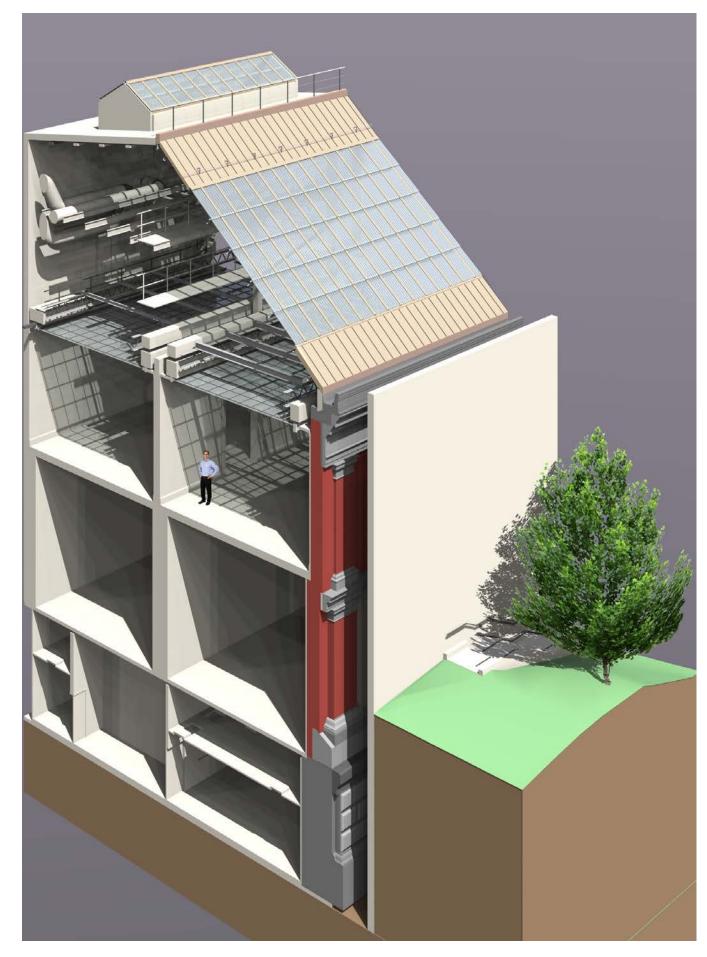
WINGS A,B,C SKYLIGHTS OVER EUROPEAN PAINTINGS GALLERIES

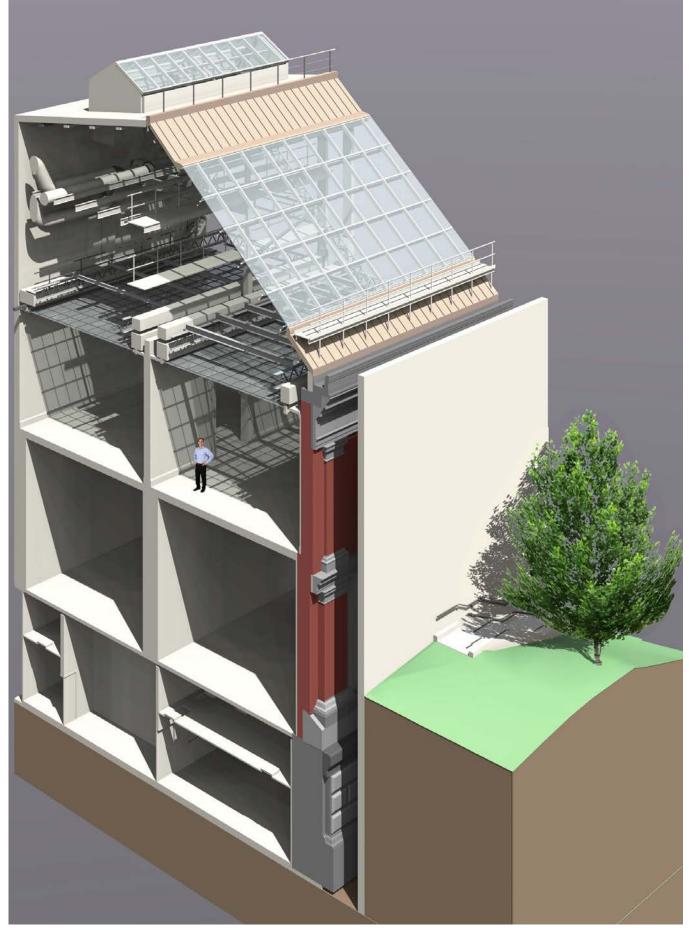
APPENDIX 3C: PRECEDENT:

WINGS ABC SKYLIGHT REPLACEMENT LPC STAFF LEVEL APPROVAL (2017-2022)



AERIAL VIEW OF WINGS ABC: SKYLIGHT REPLACEMENT OVER EUROPEAN PAINTINGS GALLERIES AS APPROVED BY LANDMARKS COMMISSION



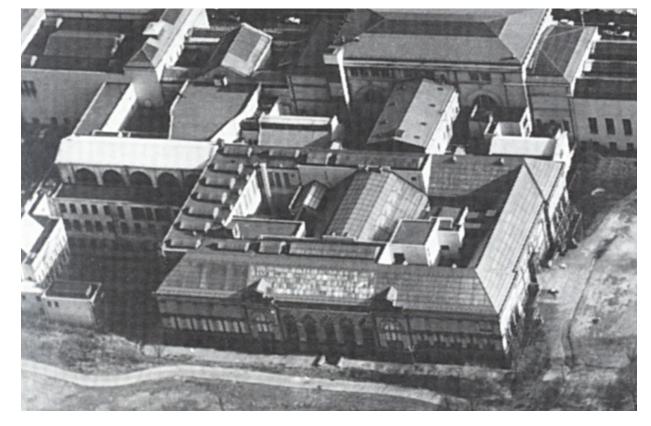


2. CUTAWAY VIEW OF WEST FACADE, APPROVED SKYLIGHT REPLACEMENT

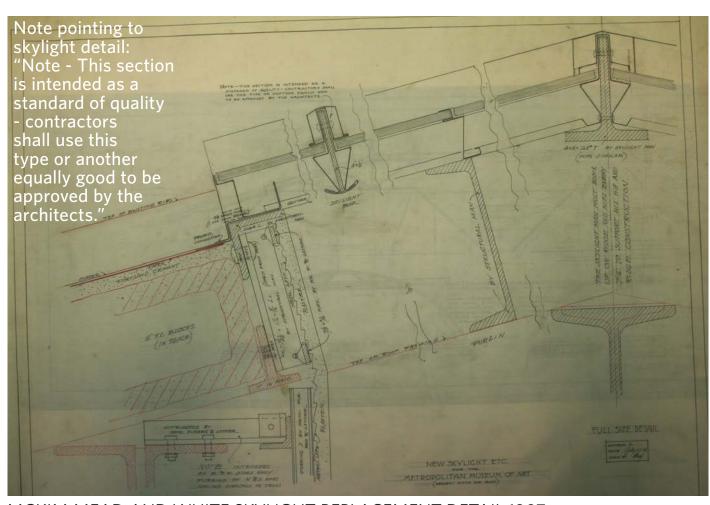
1. CUTAWAY VIEW OF WEST FACADE, EXISTING CONDITION



WINGS ABC WEST FACADE IN THE 1890'S



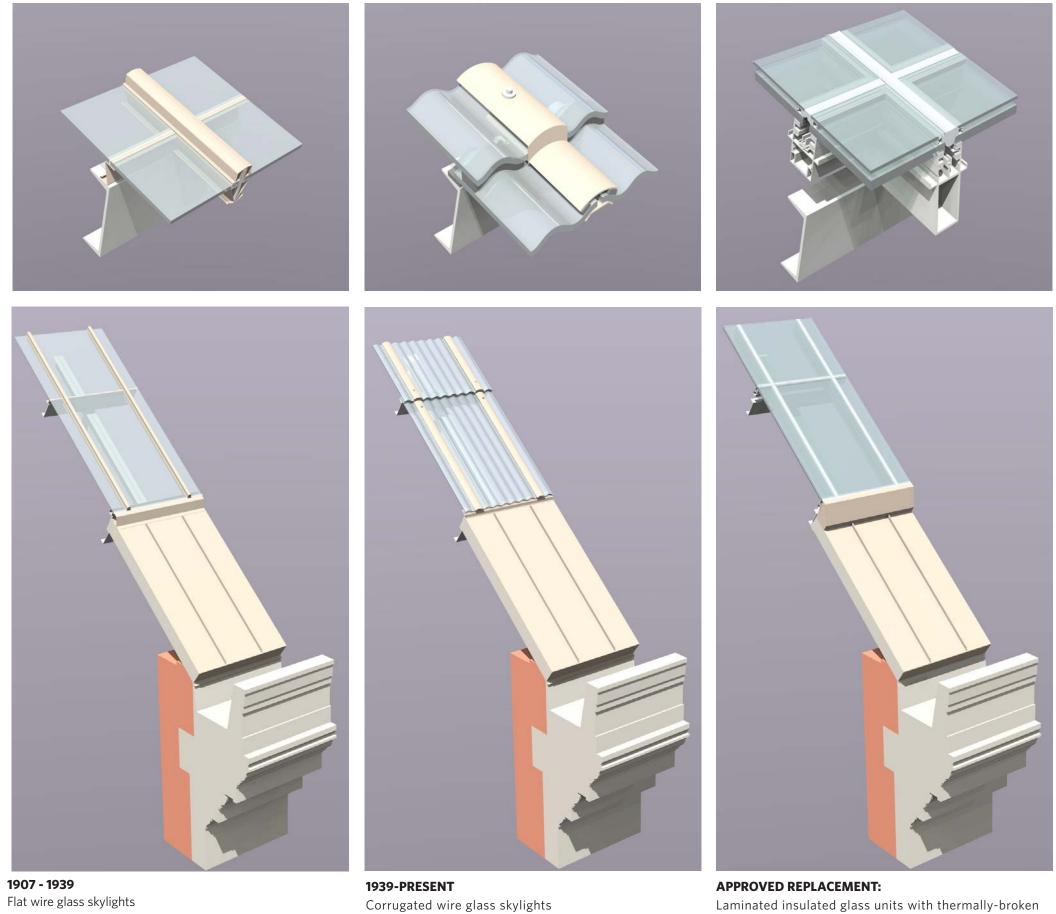
RECONSTRUCTION OF WINGS ABC ROOF AND SKYLIGHTS, 1939



MCKIM MEAD AND WHITE SKYLIGHT REPLACEMENT DETAIL 1907



1970'S CONSTRUCTION OF LEHMAN WING AND STONE SCREEN WALL IN FRONT OF WINGS ABC FACADE



COMPARATIVE SKYLIGHT SYSTEMS: HISTORIC AND APPROVED REPLACEMENT

drainage channels.)
Structural silicon glazing with toggled casette.

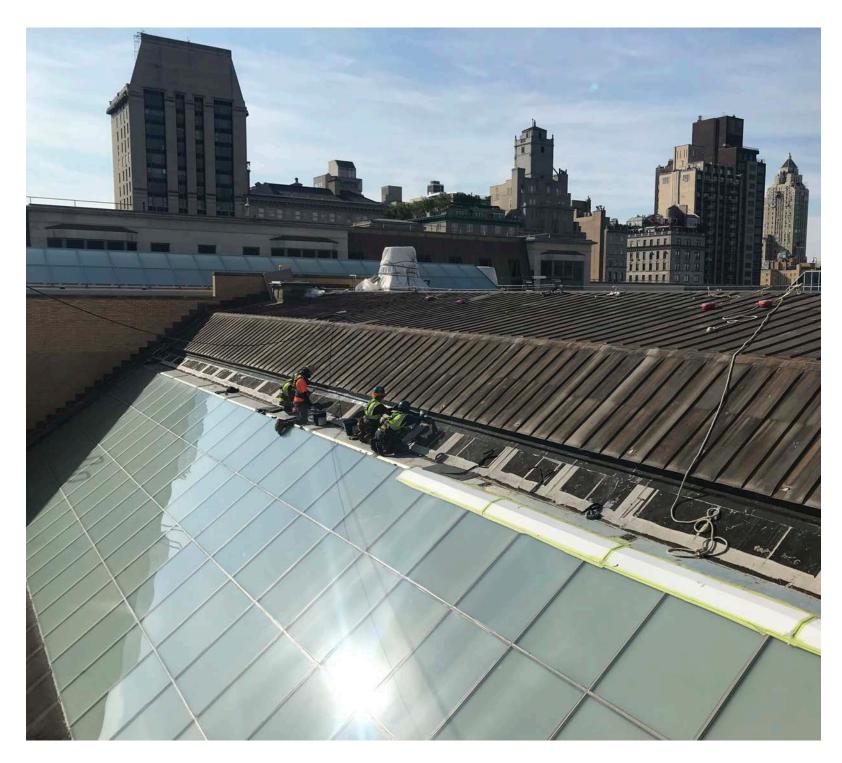
Laminated insulated glass units with thermally-broken aluminum framing with pressure equalization (inerior drainage channels)

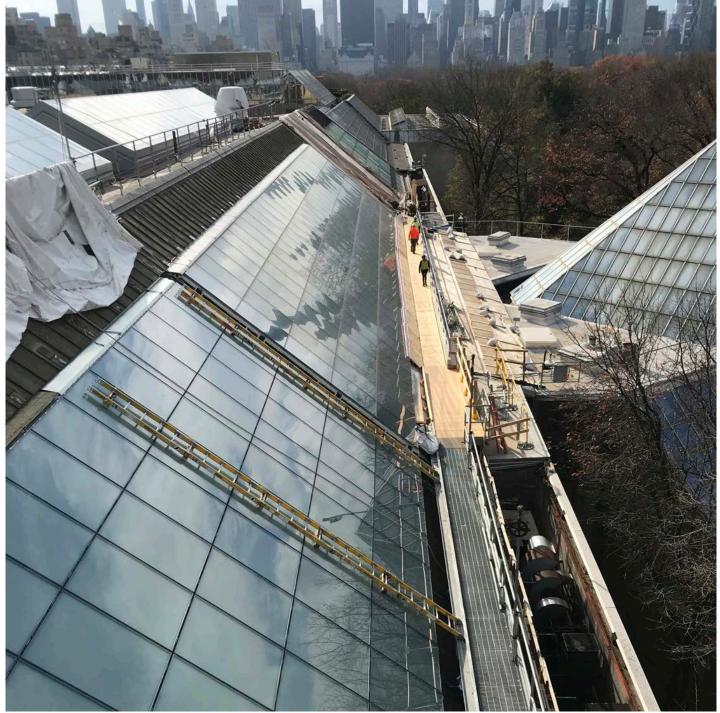


EXISTING CONDITION PHOTO



PHOTO MONTAGE WITH APPROVED NEW REPLACEMENT SKYLIGHTS AND ACCESS CATWALK





WINGS ABC NEW SKYLIGHTS - CONSTRUCTION PHOTOS



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