

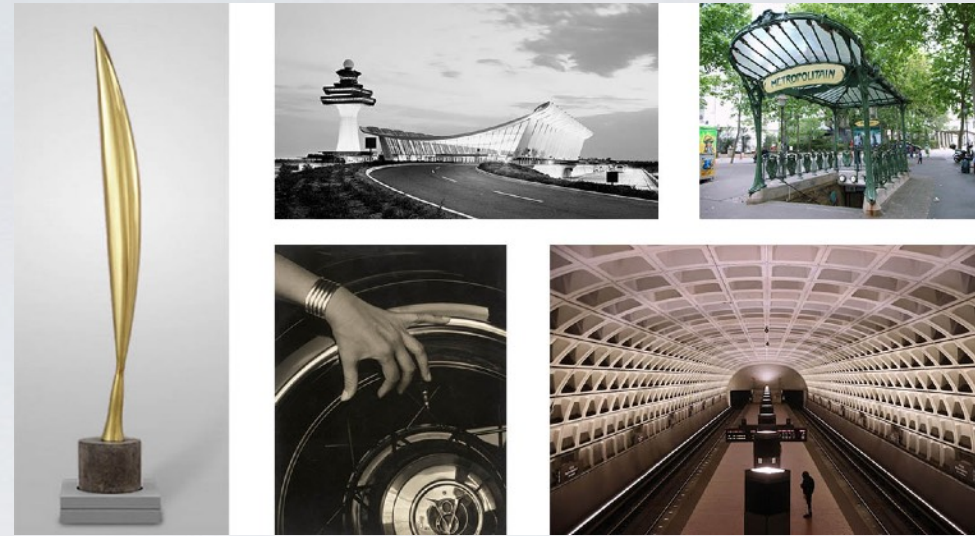


Portfolio

Richard Chenoweth AIA
Visiting Assistant Professor 2018-2022
Mississippi State University



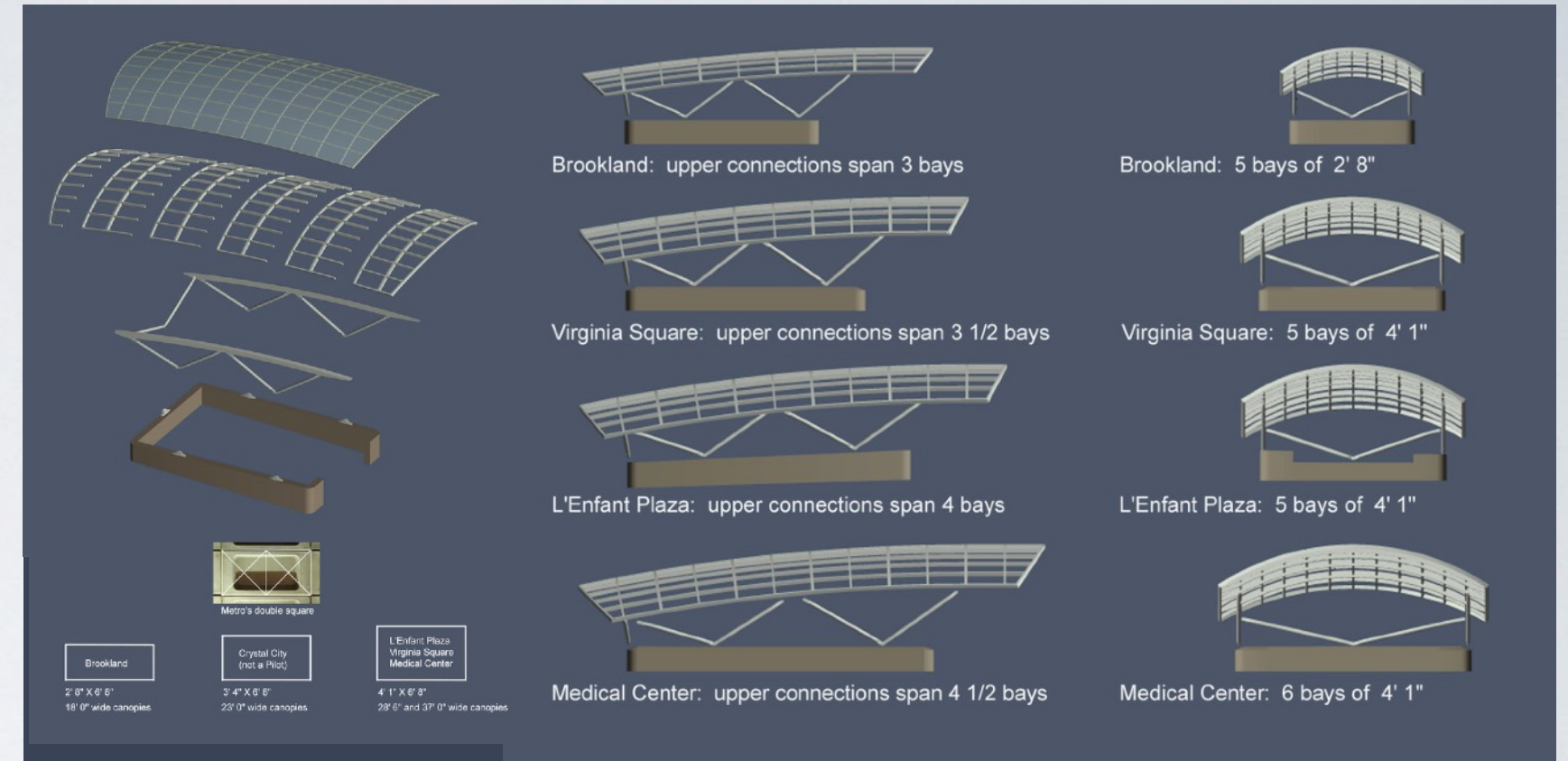
The Problem



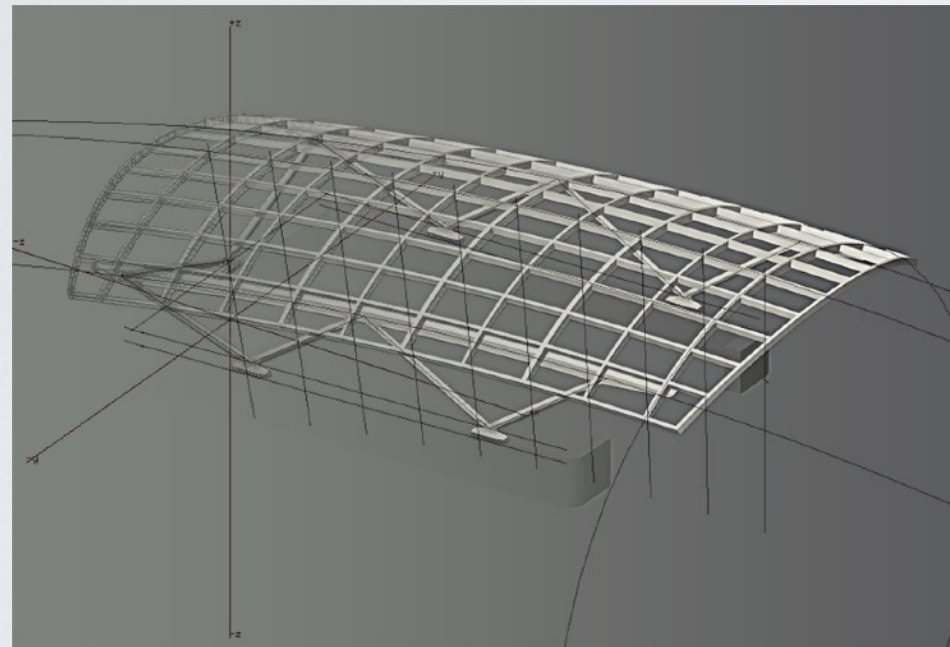
Inspiration and Precedent

Metro Canopy Program, Washington Metro Area Transit Authority (WMATA) (2001-present)

WMATA sought a prototype canopy to cover more than fifty metro well-ways of various dimensions and proportions. They held a national competition. Lourie & Chenoweth LLC won the competition in July 2001. Chenoweth was Principal Designer of the prototype. Lourie & Chenoweth LLC together have designed about fifty canopies since that time.



Constructability - Modularity - Geometric Adaptability



The Solution

The form of the canopy began as a glazed sail vault form that was adapted to respond to respond proportionally to the concrete vaults of the underground. The underlying geometry is based on intersecting longitudinal and transverse radii creating a geometrical torus that can be expanded and contracted to accommodate well-way openings of any size or proportion.

The glazed sail vault form is supported by sculptural tapered struts that touch down at only five anchors along the existing parapet. The entire kit-of-parts can be erected in six hours without shutting down the station.

Sheer glass surface slopes away from entrance in every direction. All technical criteria are maintained such as rain angle and overhang. All wiring for lights and security are routed through the steel.

The canopies fit into all of Washington's urban conditions. They are shelters from the weather; beacons in the night; pavilions in the landscape; places of orientation; places to meet and gather; they are instantly recognizable; they are transportation icons.



Detailing





Photo © Richard Chenoweth AIA

L'Enfant Plaza (the subject of the competition)



Eastern Market



Woodley Park



Photo © Richard Chenoweth AIA

Brookland / CUA



Gallery Place / Chinatown



Metro Center



L'Enfant Plaza



Crystal City



College Park

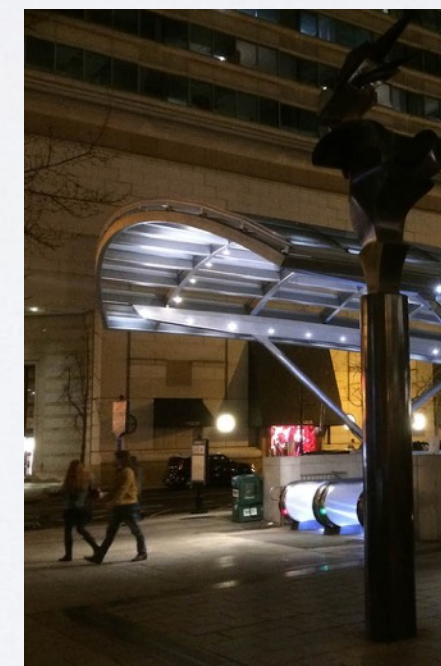


Dupont South



Photo © Richard Chenoweth AIA

Virginia Square



Metro Center



FOUR PILOT CANOPIES

PILOT ESCALATOR CANOPY PROGRAM, WASHINGTON, DC

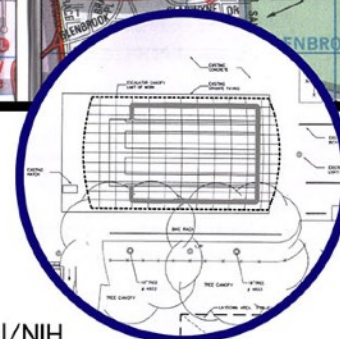
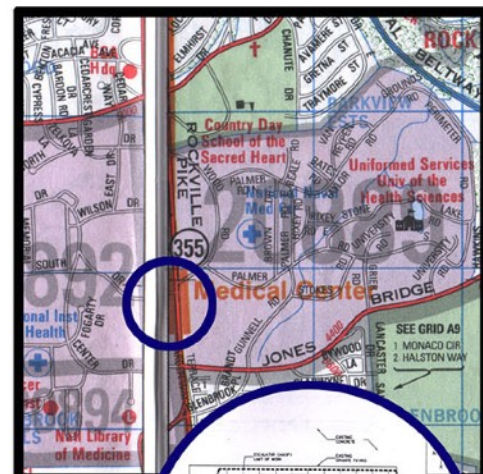
LOURIE & CHENOWETH ARCHITECTS, LLC

Owner: Washington Metropolitan Area Transit Authority

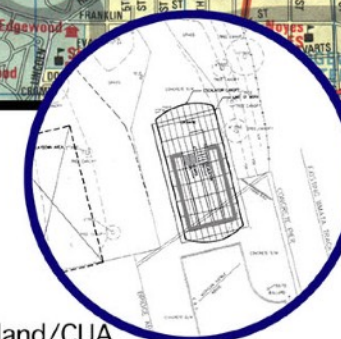
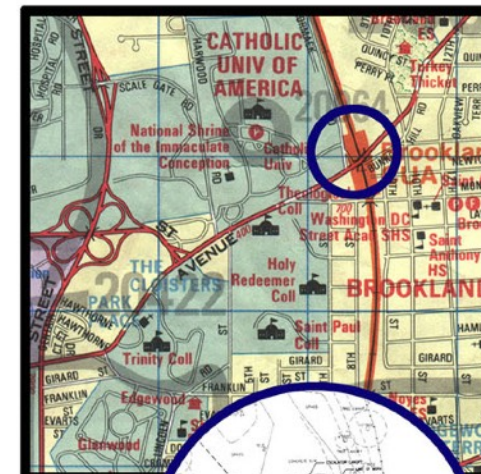
Contractor: Grunley-Walsh Joint Venture



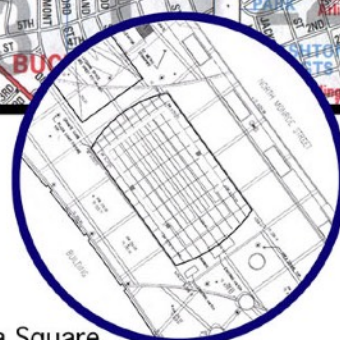
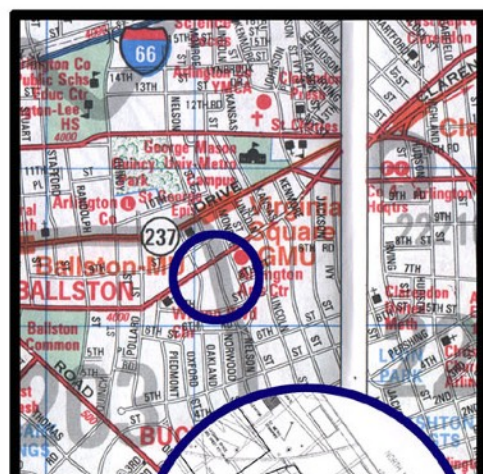
2003 Washington Chapter AIA Award for the Pilot Program



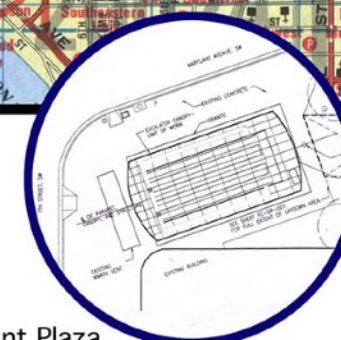
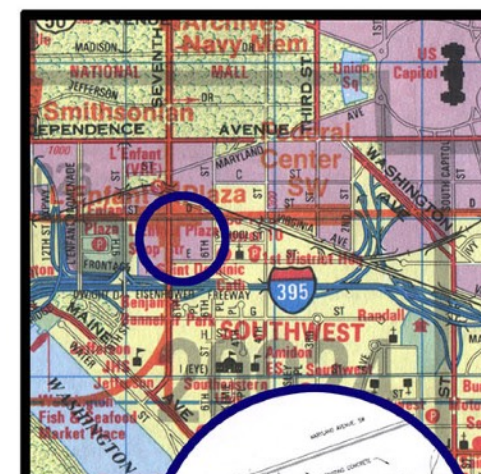
1. Medical/NIH



2. Brookland/CUA



3. Virginia Square



4. L'Enfant Plaza

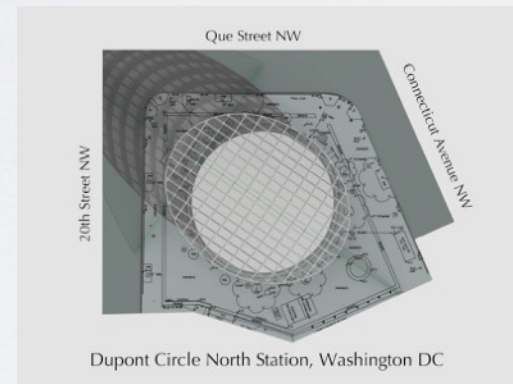
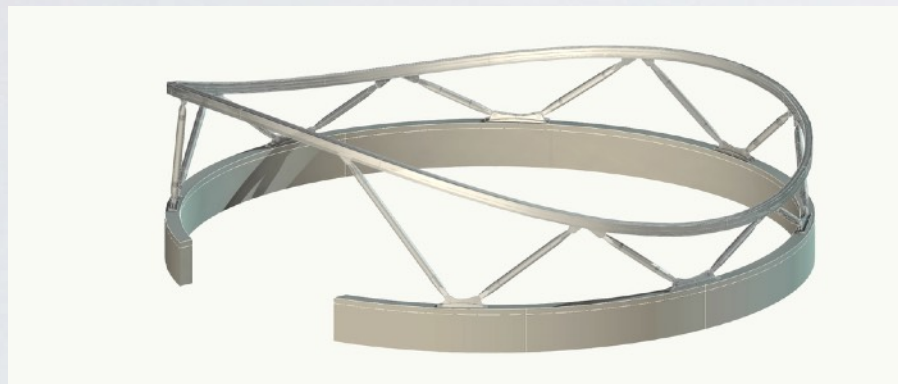
Location of the four Pilot Program canopies



Dupont North Station - the largest canopy in the system



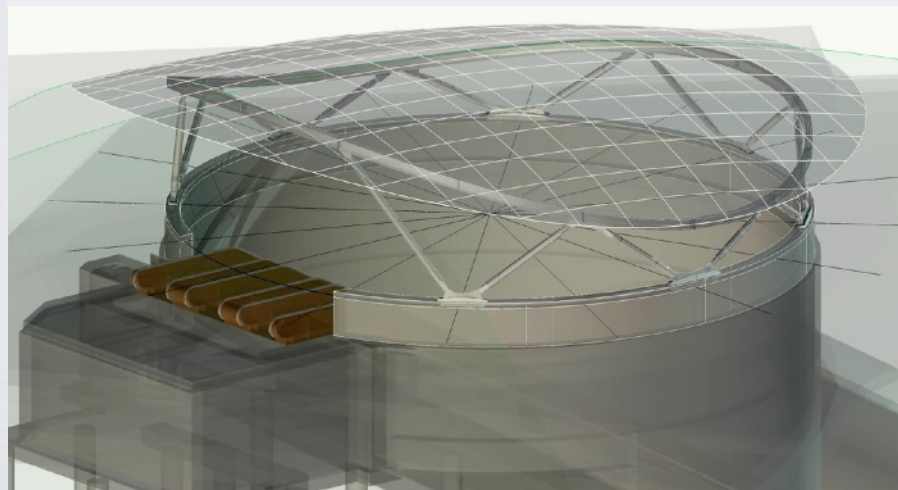
Making the giant Ring Girder



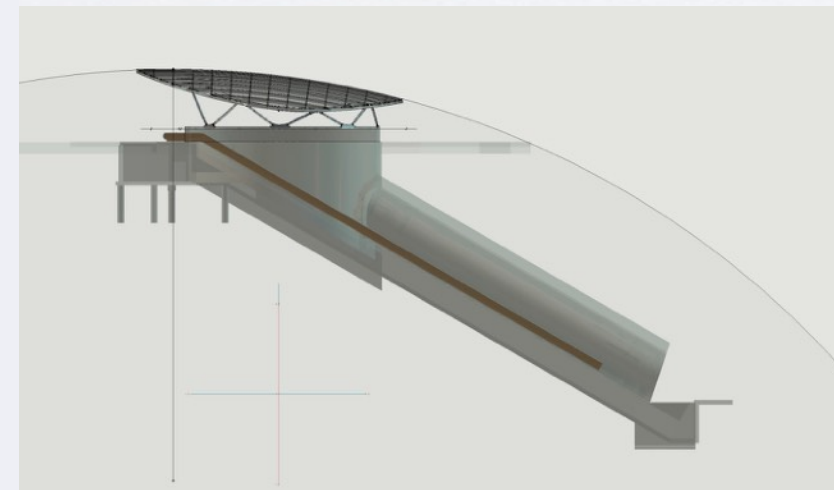
Dupont North Station - largest in the system



Base plates - splice joints - curved beams with splice joints and tapers



A harmonic arrangement of circular geometries





Smithsonian North



Arlington Cemetery

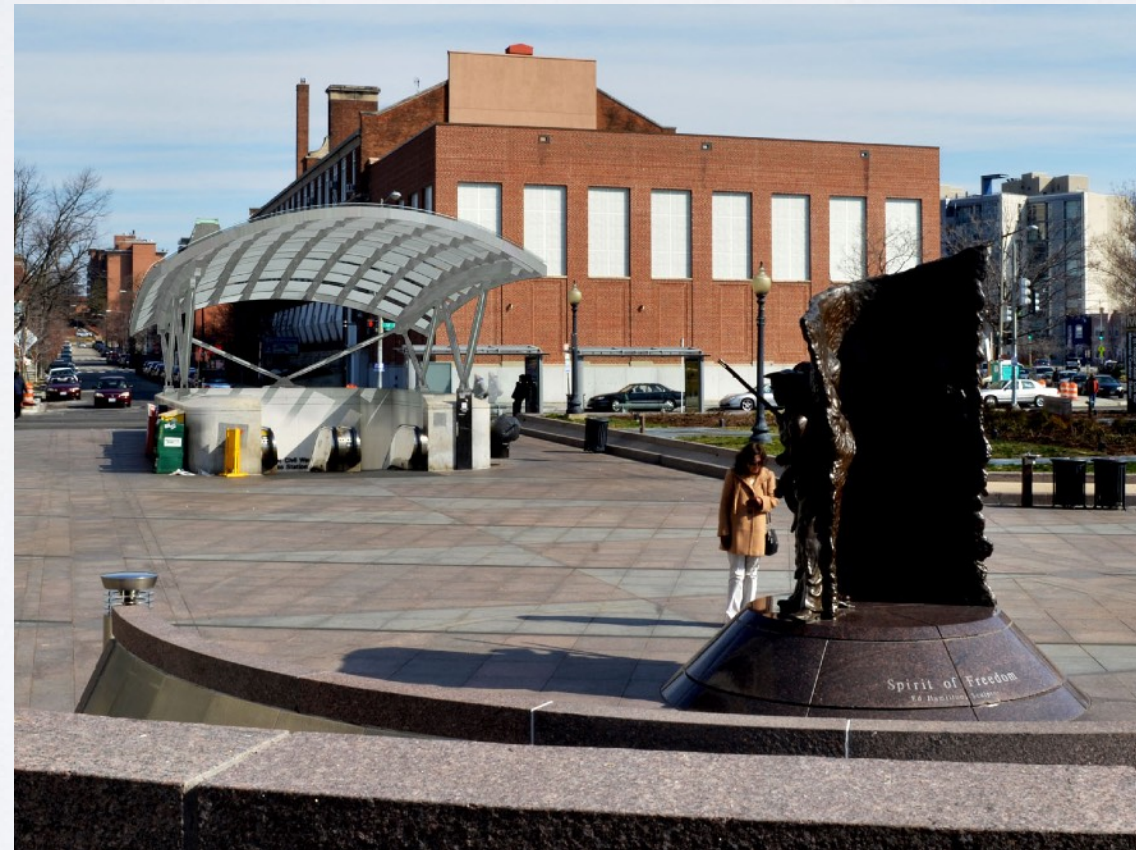


Judiciary North

National Park Service Canopies

The NPS Canopies were specialized. Although Metro owned the well ways and aprons, the NPS owned the surrounding land and had a certain amount of control over their design. Ultimately, the U.S. Commission of Fine Arts had final say over the matter.

Lourie and Chenoweth were asked to tweak the Prototype Design (approved by CFA and NCPC in 2002) by tightening the geometries and lowering the structures to deemphasize them within their new surroundings. These computer images show what they will look like when built.



U Street - African American War Memorial



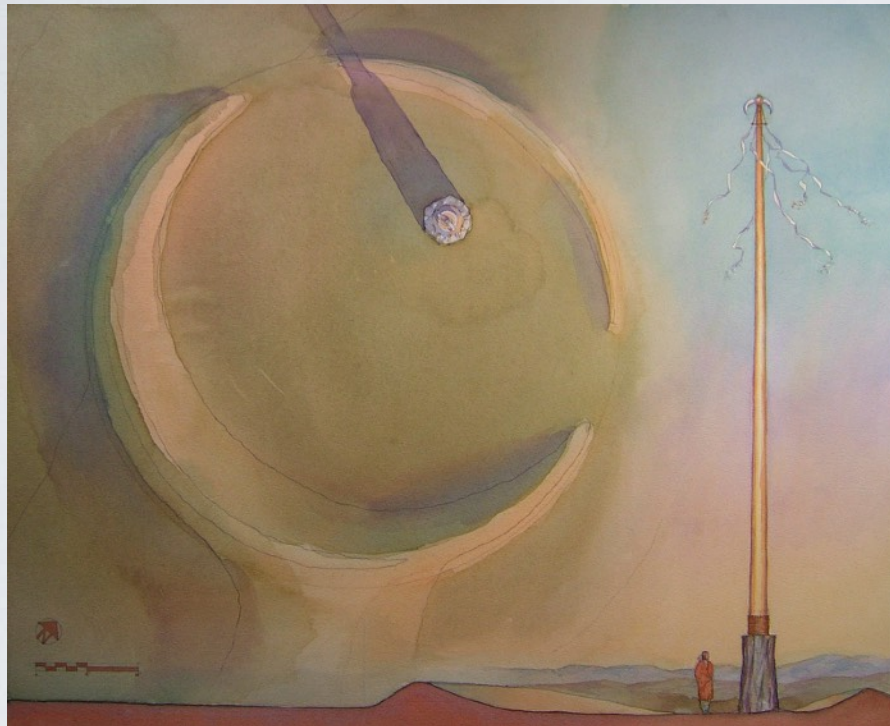
National Archives



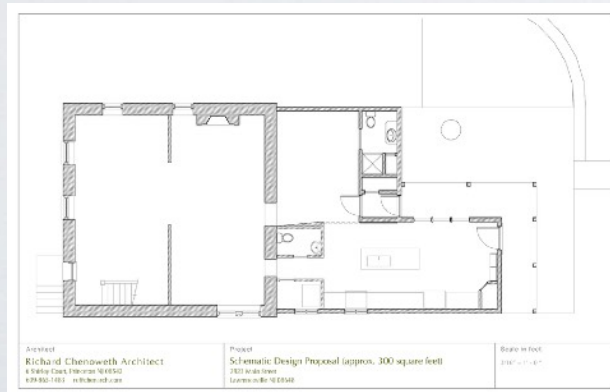
Renovation of a Carriage House, Oxford MD
Architect



Renovation of a Residence, Silver Spring MD
Architect-Builder : Front and side porches, dry laid stone wall, landscape, fence, driveway, interiors, lighting



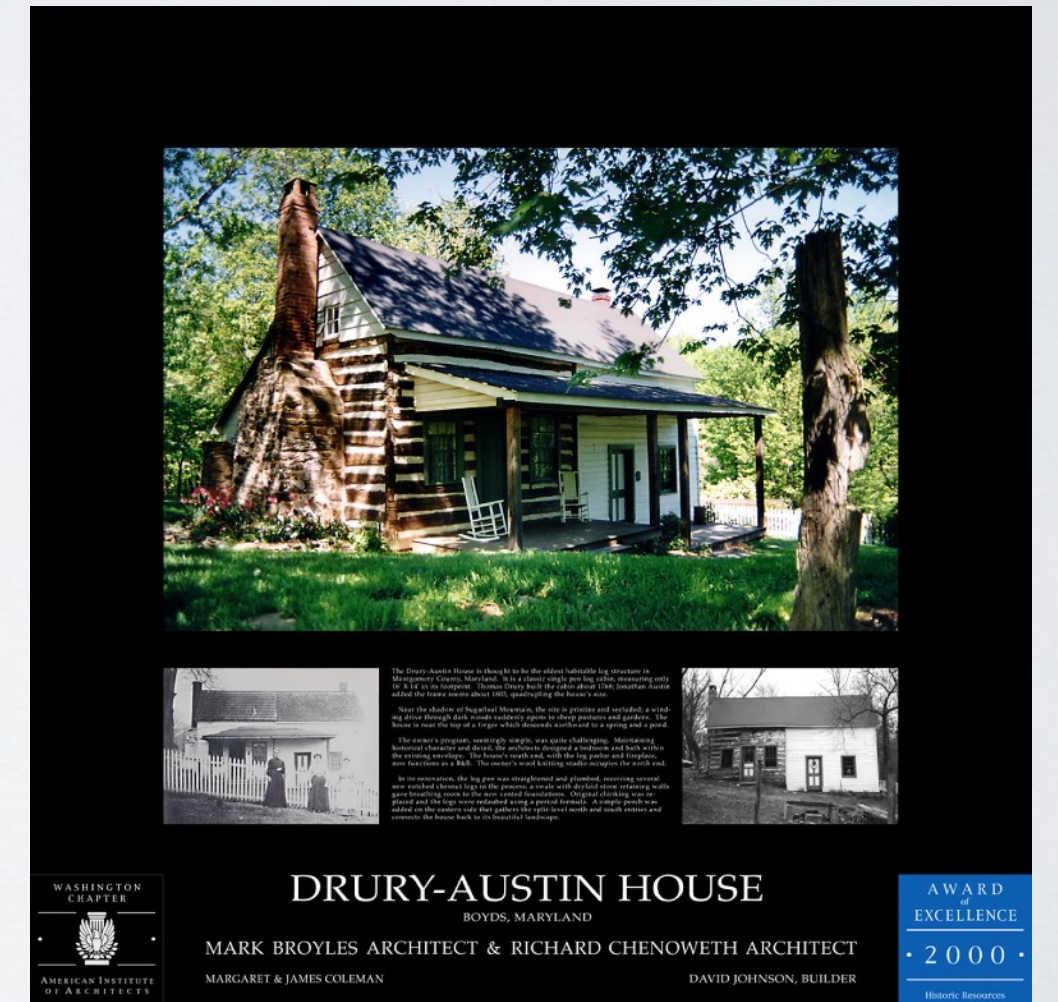
Competition Entry for NPS Indian Memorial, Little Bighorn River
Architect (with Robert Dudka RA)



Addition to a historic house, Princeton NJ
Architect



A reconstructed church steeple, Oxford MD
Architect



Renovation of a Carriage House, Oxford MD
Architect (with Mark Broyles AIA)



Renovation, Boiling Springs PA - Project Architect



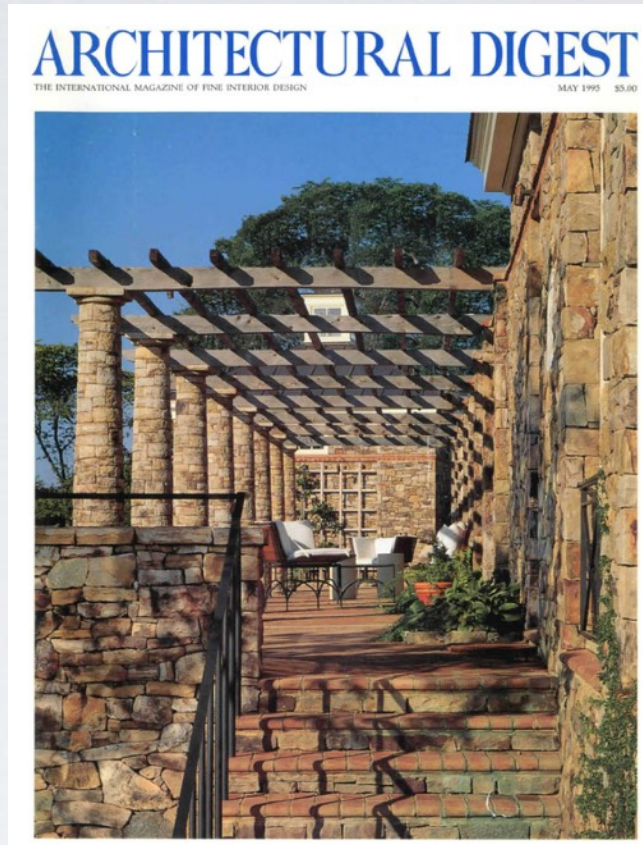
Renovation, Boiling Springs PA
Project Architect > All aspects of project

Project Architect



The Site Plan

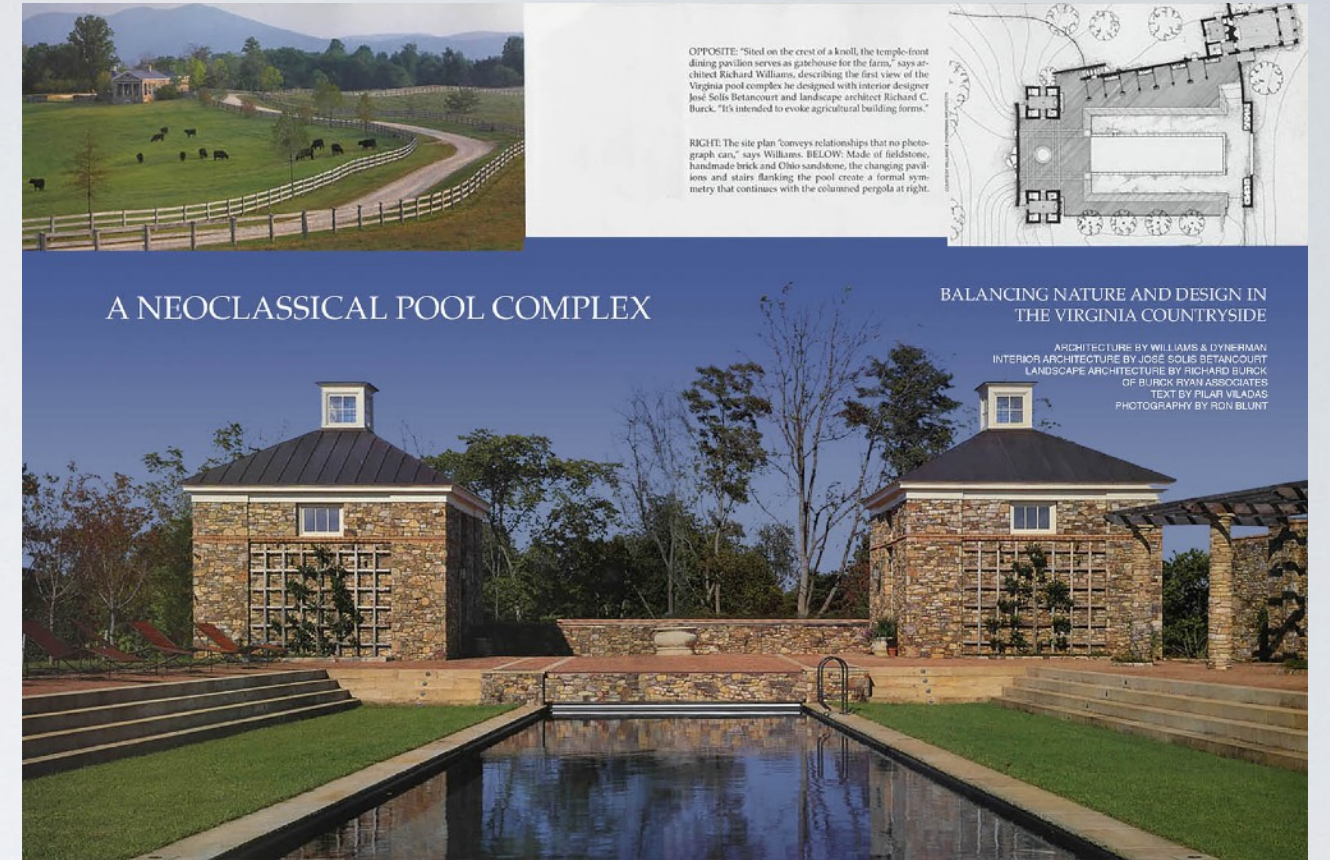
Staff Architect



Country House - Rappahannock VA
Staff Architect > Detailing in stone, wood, metal



Country House - Rappahannock VA
Staff Architect > Detailing in stone, wood, metal



A NEOCLASSICAL POOL COMPLEX

BALANCING NATURE AND DESIGN IN THE VIRGINIA COUNTRYSIDE

ARCHITECTURE BY WILLIAMS & DYNERMAN
INTERIOR ARCHITECTURE BY JOSE SOLIS BETANCOURT
LANDSCAPE ARCHITECTURE BY RICHARD BURCK
OF BURCK RYAN ASSOCIATES
TEXT BY PILAR VILADAS
PHOTOGRAPHY BY ROH BLUNT



Architectural History Research Agenda

My research agenda as an architectural historian is the forensic digital investigation of lost or destroyed architecture using original drawings, letters, and documents. I am fascinated by the stories and mysteries of human endeavor. My main goal is to tell complex historical narratives using visual and spatial evidence that otherwise could not be fully understood. I have developed a methodology for investigating architecture through these resources using computer modeling and digital imaging. I can use my resulting computer models for an objective analysis of the form, as well as for a subjective analysis, that is, in the way that forms are perceived in space. I use real-world lighting techniques, closely related to Image-Based Lighting. I have been able to simulate the bouncing of light throughout complex spaces such as architectural interiors, and bring to life a subject that previously may only have existed on paper. Currently, I am exploring video and special effects presentations of my computer-graphic findings.

Specifically, my research efforts have focused on the visionary and the destroyed works of B. Henry Latrobe at the U.S. Capitol. I have received three research fellowships from the U.S. Capitol Historical Society for this research. The work is organized into eight chapters at this time. My latest paper was on Latrobe's design for an Egyptian Library of Congress from 1808. The chapter prior to that one is my reconstruction of the Latrobe-Franzoni Statue of Liberty of 1807 (it was inside the Capitol) which I sculpted in clay (for-plaster) and then scanned in 3D. Discovering and analyzing lost works and cultural landscapes using digital methods has no precedent in the exploration of what is arguably America's most important building.

In my time at MSU, my historical research on the design and construction of the U.S. Capitol has been well received by my peers. My blind, peer-reviewed and double-blind papers (and abstracts) have been presented to or have been accepted to SESA 2021 (Southeast Chapter of the Society of Architectural Historians), SESA 2020, SESA 2019, the ACSA-ARCH 108th Meeting, the ACSA-ARCH 109th Meeting, and at the Richard Guy Wilson Symposium at the University of Virginia.



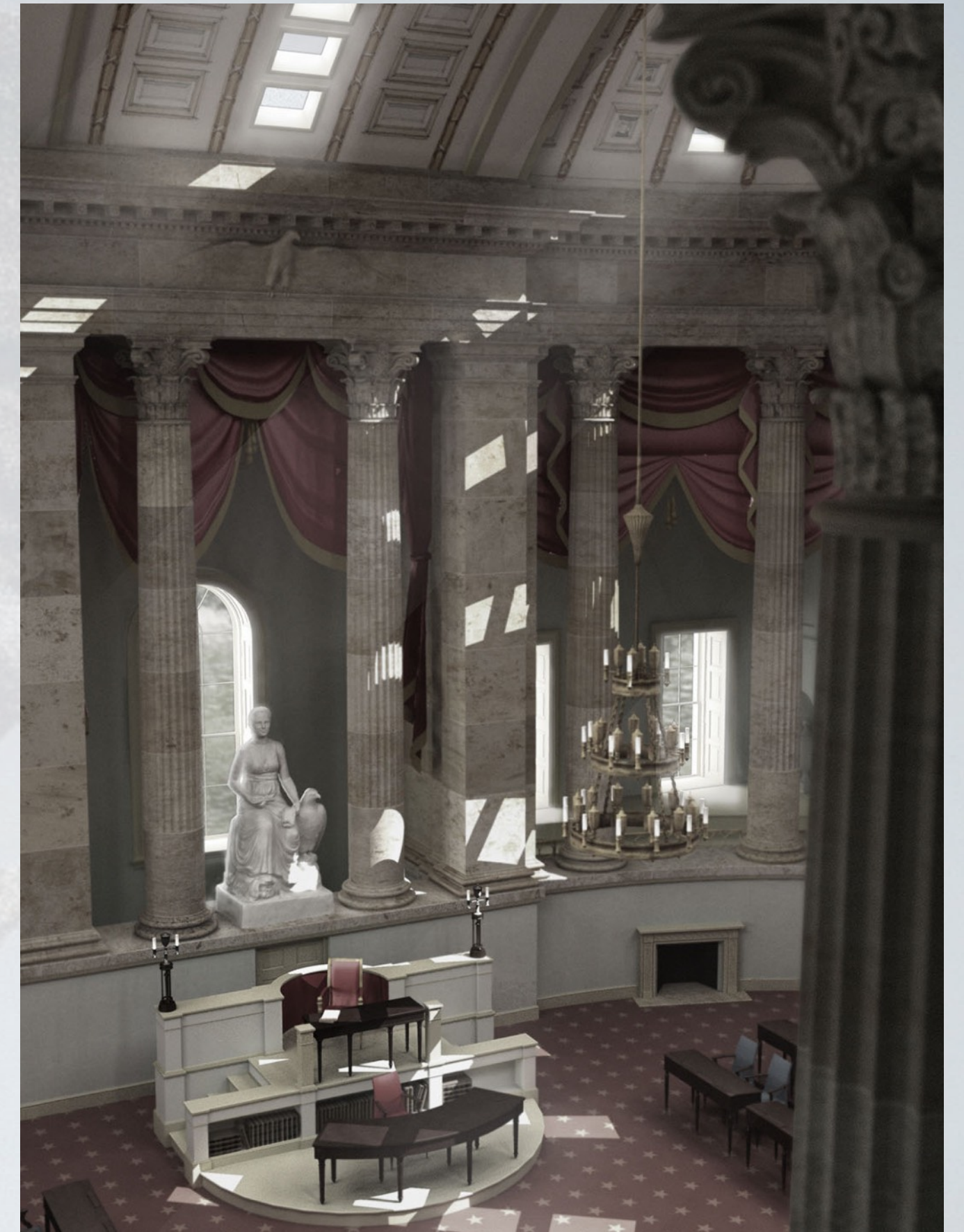
Convenient links to a few articles:

SESAH 2021 (30 September 2021) Egyptian Library
<http://www.mostbeautifulroom.com/images/pdf/2021-09-30-Egyptian-Library.pdf>
<http://www.mostbeautifulroom.com/images/pdf/2021-09-30-SESAH-2021.pdf>

ACSA-ARCH 108th Meeting (2020) Statue of Liberty
<http://mostbeautifulroom.com/2020-ACSA-108th-Chenoweth-Paper.pdf>

Long format article for USCHS magazine *Dome* (2014) Hall of Representatives
<http://www.mostbeautifulroom.com/images/pdf/2014-Dome-1812-edition.pdf>

Condensed format article for *Palladiana* (2020) Hall of Representatives
<http://www.mostbeautifulroom.com/images/pdf/2020-spring-palladiana.pdf>



Working image of the interior of the Capitol's South Wing, circa 1808



Final image of the interior of the Capitol's South Wing, circa 1808



The interior of the Capitol's South Wing at the inspection of the roof framing, circa 1806



Final image of the interior of the Capitol's South Wing, circa 1808



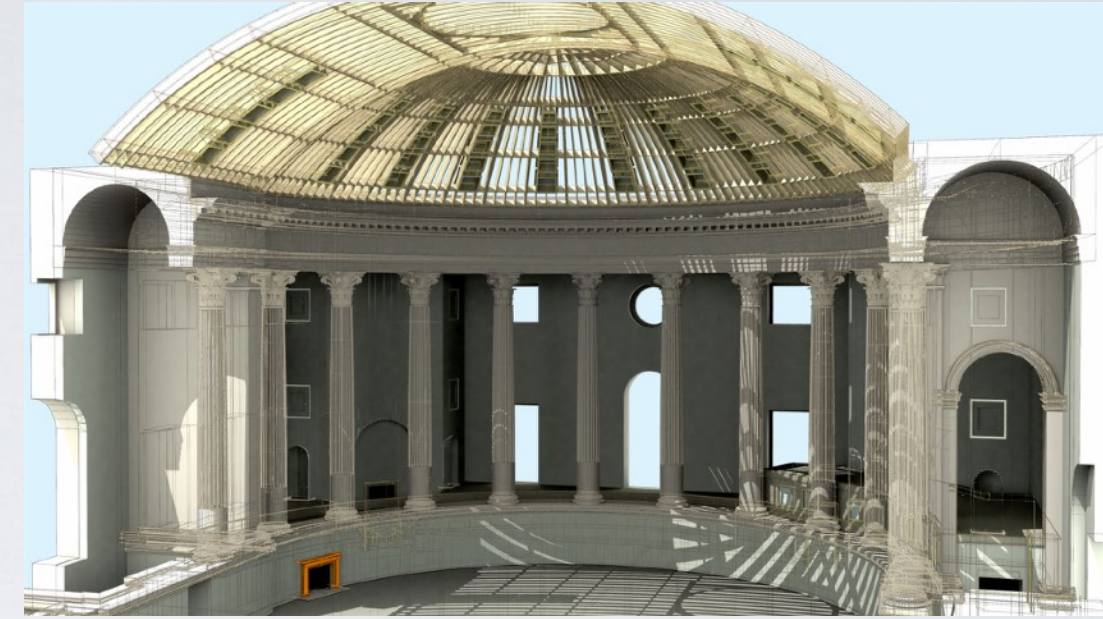
The interior of the Paris grain market, circa 1786



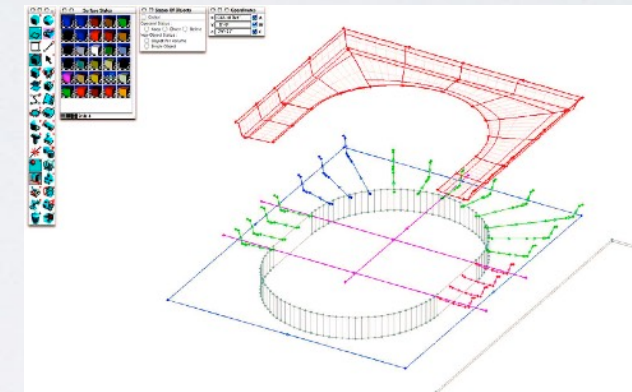
Final image of the interior of the Capitol's South Wing, circa 1808 - Jefferson version



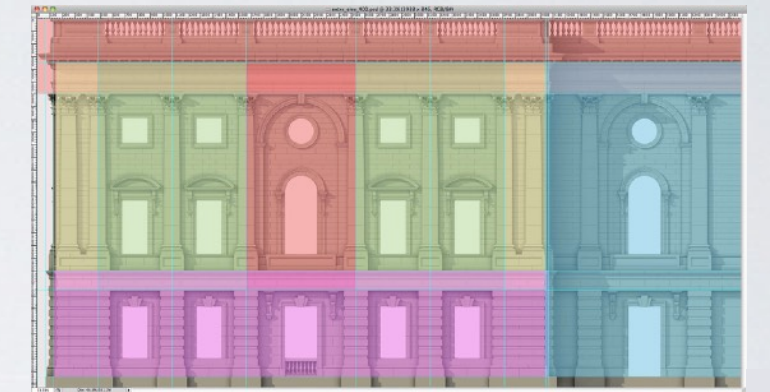
Sculpture of the reconstructed Statue of Liberty (1807)
By the author



Example of the working computer model



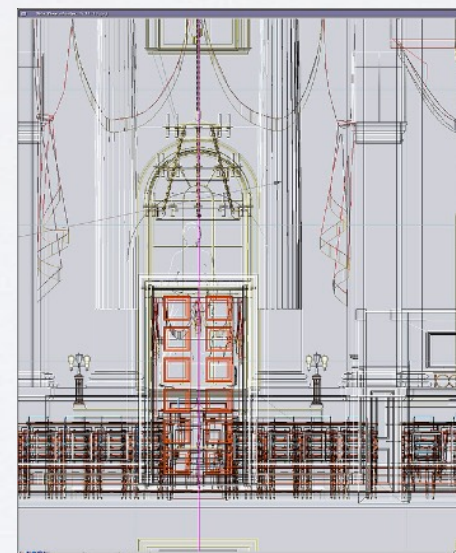
Lofting



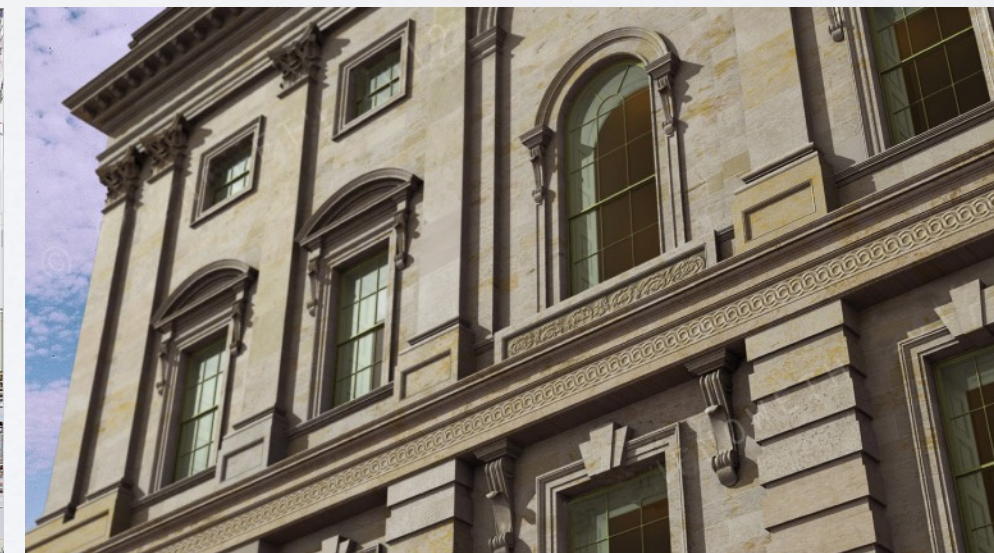
Texture mapping



Final image of the interior of the Capitol's South Wing, circa 1808 - Latrobe version



Wireframe



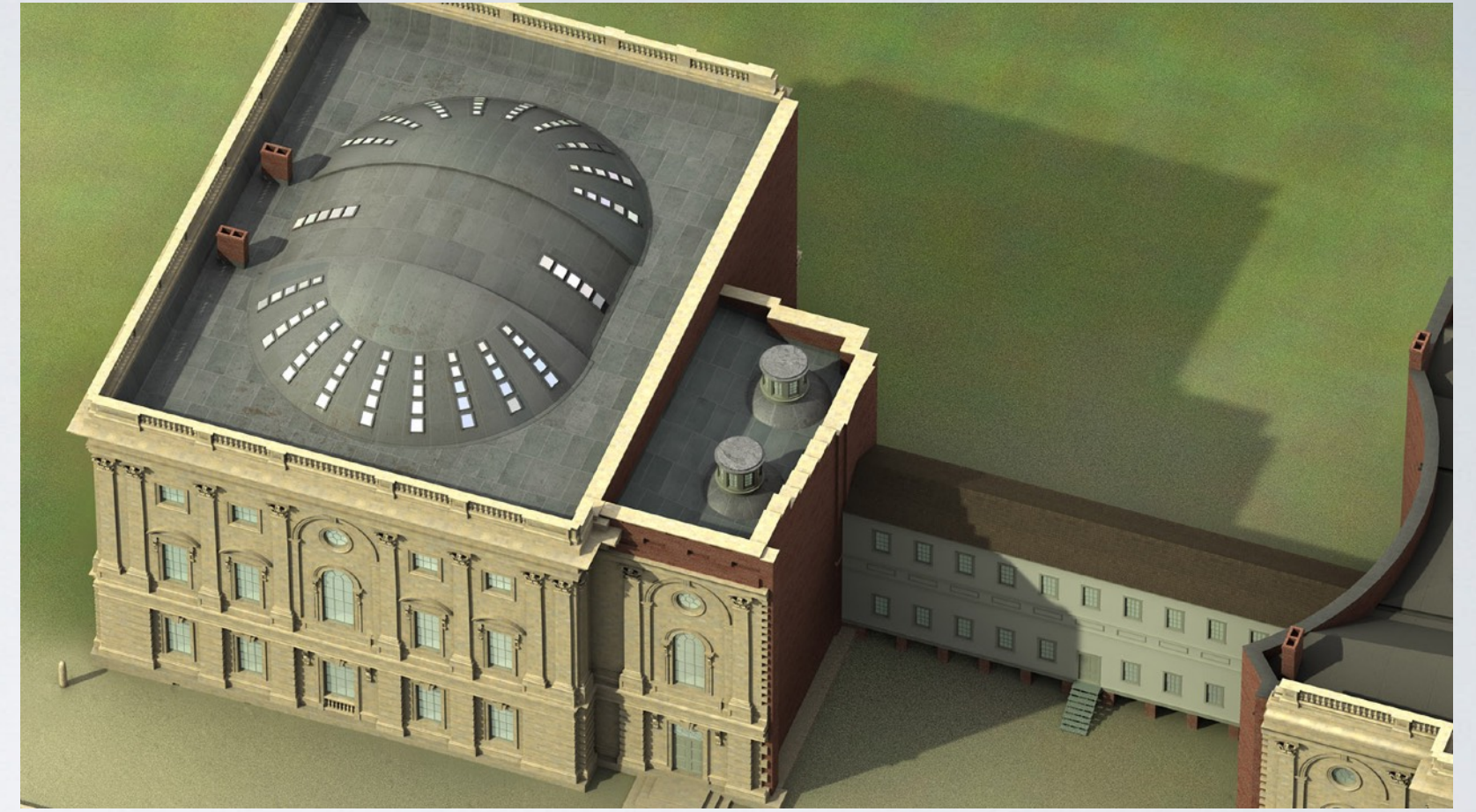
Exterior test



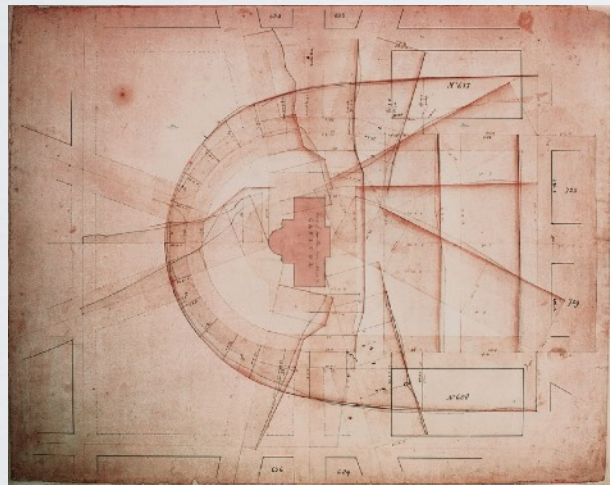
Setting up a scene



Final image of exterior, circa 1814



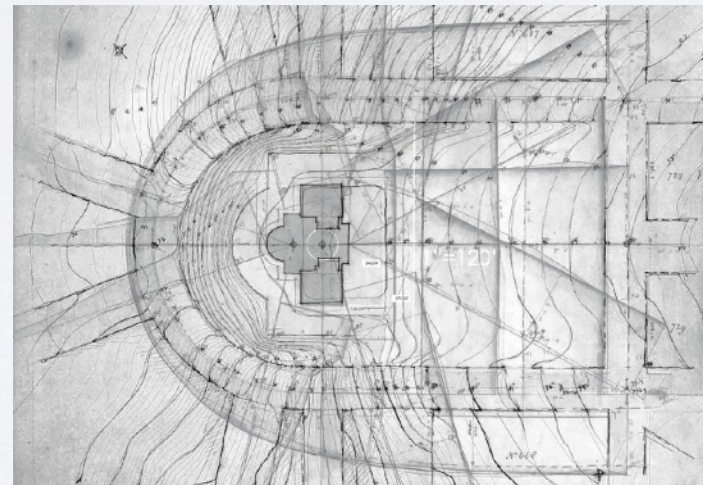
South Wing from above



Latrobe's original survey



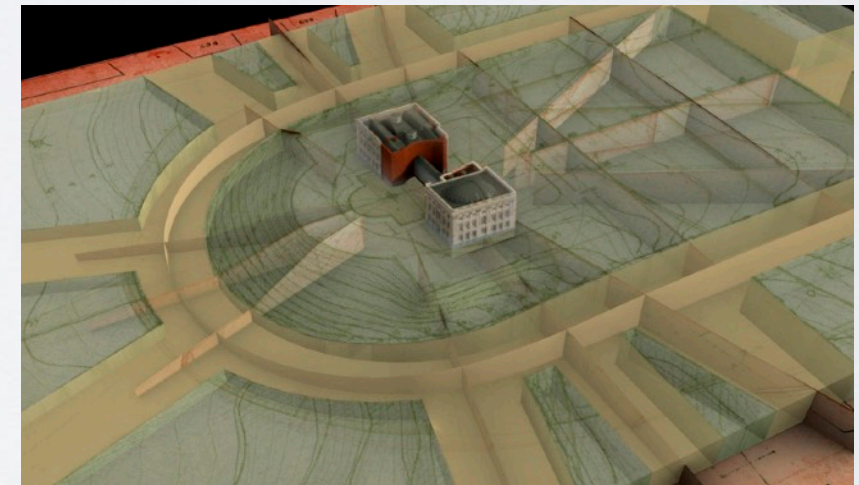
Existing



Composite with existing and landscape plan



New grading

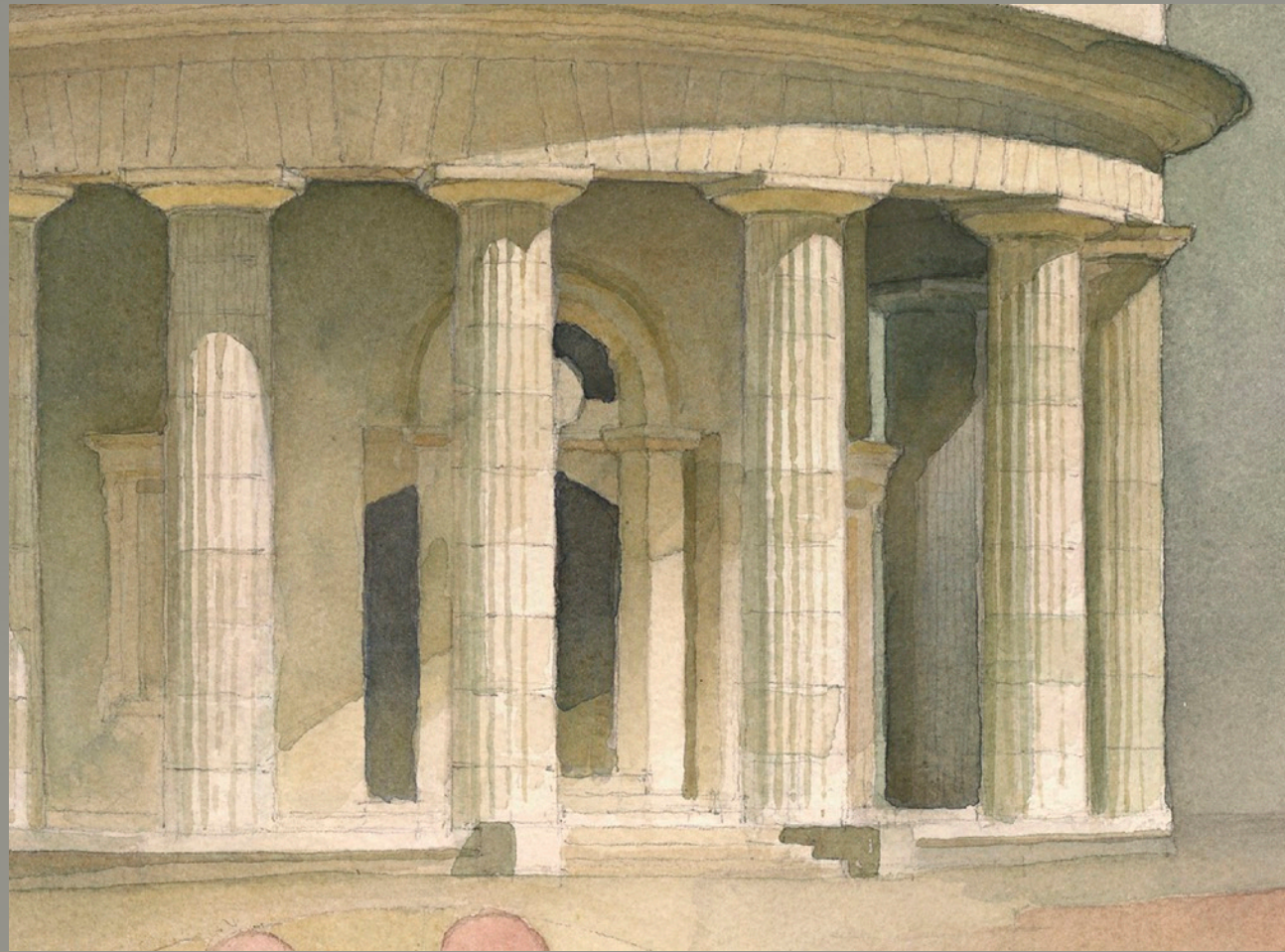


As a computer model for animation



Working images of the Egyptian Library of Congress (2021-09-30)

A selection of working images from my digital investigation of Latrobe's Egyptian Library. These are first-draft images. Will include furniture, books, lamps, and other features of the room.



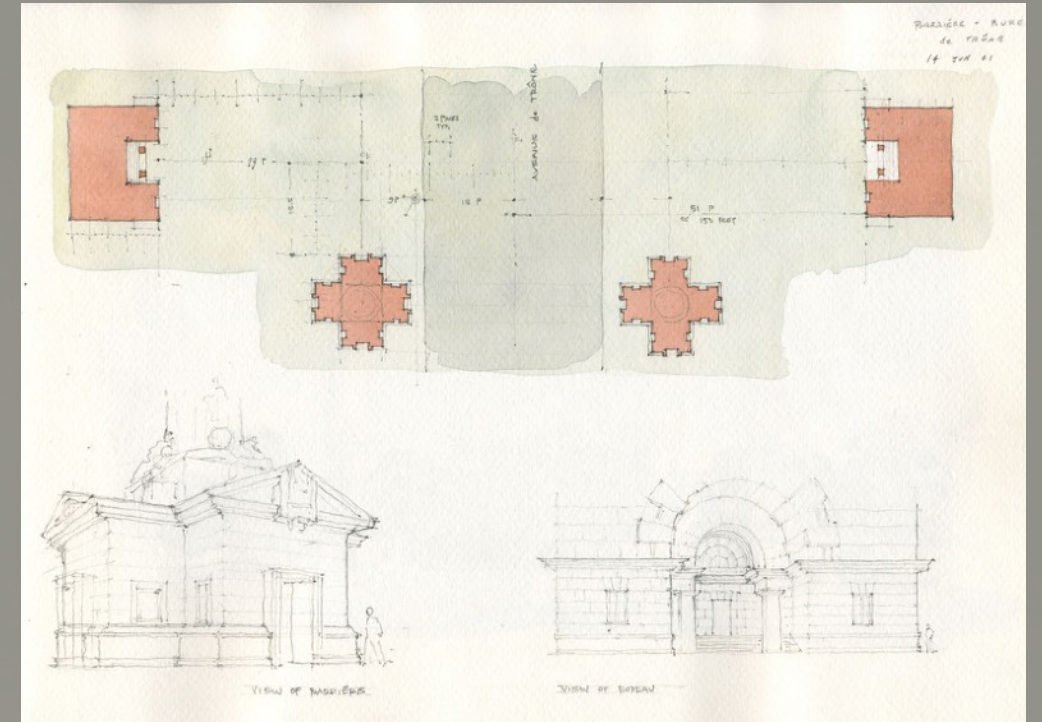
Parc Monceau Rotunda - Ledoux



Parc Monceau Rotunda - Ledoux



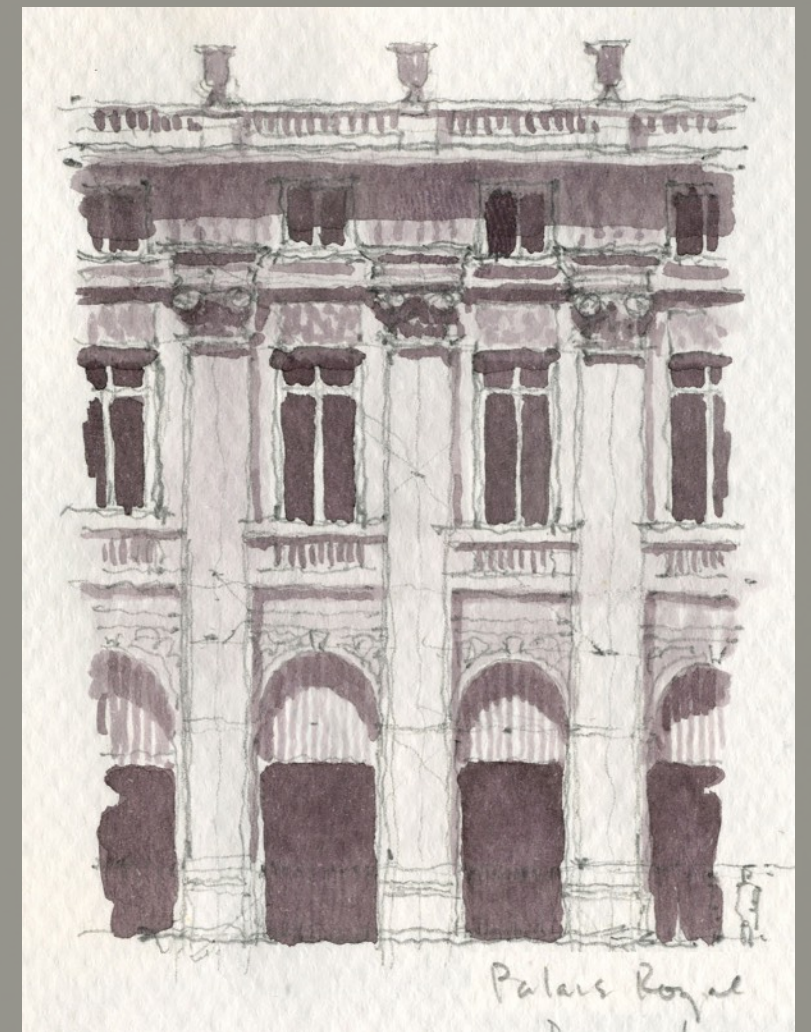
Monet's house



Barrière du Trône - Ledoux



Sphinx at Hôtel de Salm



Palais-Royal



St. Philippe du Roule



Hôtel de Salm - today called the Légion d'honneur

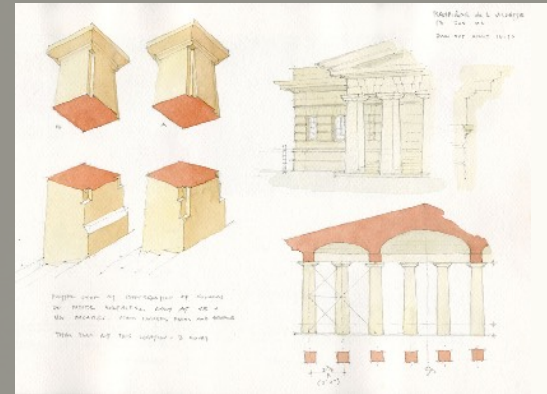
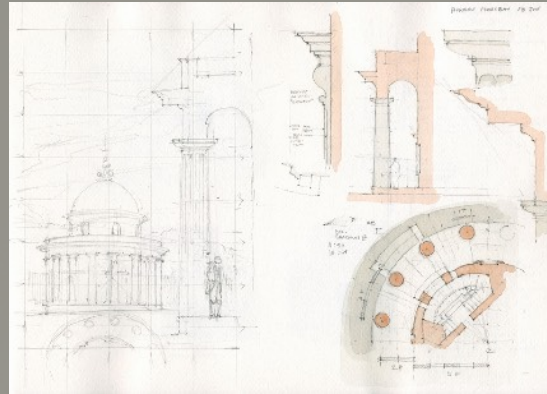
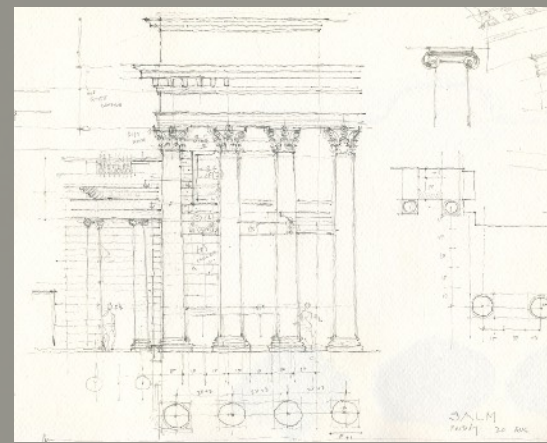
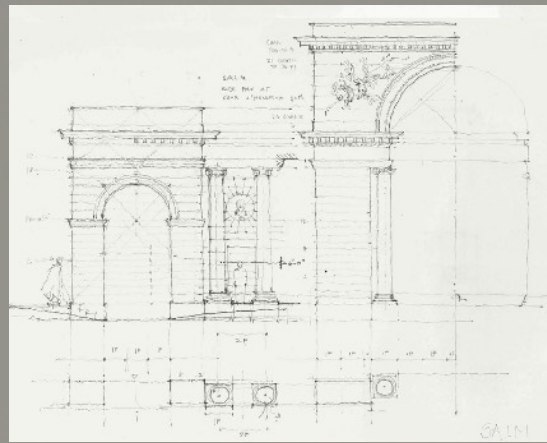
Gabriel Prize

The *Gabriel Prize* is awarded for the study of French Classical Architecture. My proposed program of study was to follow in Thomas Jefferson's footsteps from his time in Paris as the Minister to France. He wrote about many places, houses, and landscapes, and my goal was to try to experience these places as he did in an attempt to understand better his design philosophy. The Prize, sponsored by the Western European Architecture Foundation, supports three months of residency in France to graphically explore one's chosen subject through painting and drawing.

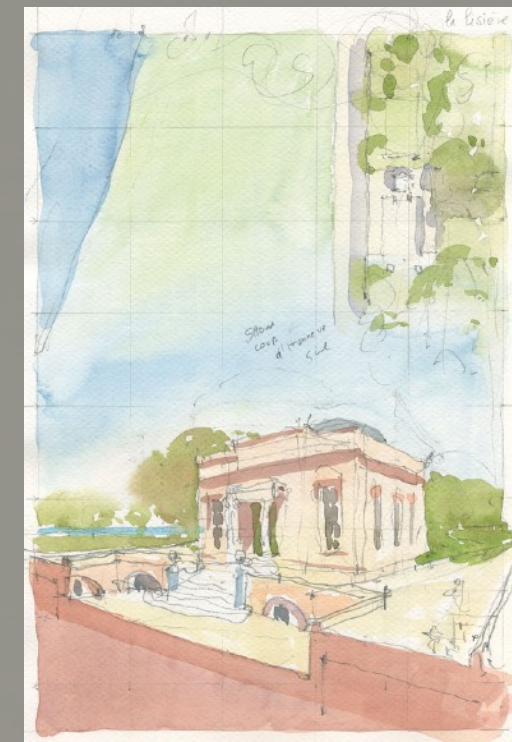
My architecture advisor was Harold Roth FAIA. My French architecture advisor was Jean-Louis Nouvian. I am very grateful for the opportunity to have spent three months with them in Paris, traveling by bus and by car all over the city and its environs, exploring historical sites and learning by doing.



Pavillon du Butard



Sketching dimensions and proportions



Bagatelle



Bagatelle detail



Gabriel Prize

Tuileries



Storm over l'Étoile



A rainy day in Chaville



Marly



Bois de Boulogne



Beersheba Springs TN

I received a grant from the local historical society to document an 1855-1860 Springs town on Tennessee's Cumberland Plateau. The 1855 development consisted of a hotel and twenty unique cottages based on classical, traditional, Victorian, and Creole influences. Many were measured in detail, and some that had burned were reconstructed based on historical resources. Several other buildings round out the group, such as a Springs House. I studied the historical roads as well. The town fell into ruin after 1865. There is evidence that some construction may have been accomplished by enslaved laborers. It's a complex story of vernacular housing types.





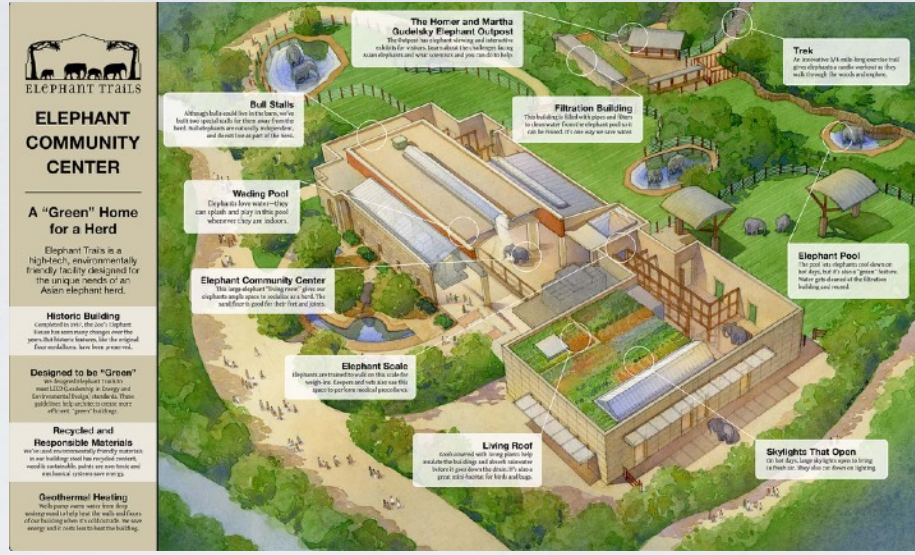
National Cathedral - Richard Williams Architects



Preservation of the Rotunda - Hoffmann and Arch. of the Capitol



Ice Park - Beyer Blinder Belle



Smithsonian National Zoo Elephant House - Vitetta Group



Johns Hopkins University Decker Quad



Preservation Magazine, December 2009

Two-page illustration



National Law Enforcement Officers' Memorial - Davis Buckley



College of New Jersey - Hillier Group



Cottage Living Magazine, Southern Living Magazine (2004-2009)



Smithsonian American Art Museum - Hartman Cox



UAE proposal - Michael Graves Associates

July 8-14
The Register in Review

Metro Directors Select Winning Canopy Design

Shelters to Protect 46 Escalators From Ravages of Weather

The Metropolitan Washington Area Transit Authority (MWATA) has selected a winning design for a canopy to protect 46 escalators from the ravages of weather. The design, selected by a jury of Metro directors, is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station. The canopy is designed by a team of architects led by Louie & Chenoweth/Hughes. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station. The canopy is designed by a team of architects led by Louie & Chenoweth/Hughes. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station.

The winning design, by the Louie & Chenoweth/Hughes firm, was selected from submissions by 147 firms. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station. The canopy is designed by a team of architects led by Louie & Chenoweth/Hughes. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station.

Style

Arts

Metro's Escalating Vision

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2001-07-15 Washington Post - Winner of Metro Competition Announced

METRO

Friday, July 13, 2001

The Washington Post has announced the winner of the Metro competition. The winning design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station. The canopy is designed by a team of architects led by Louie & Chenoweth/Hughes. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station.

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2001-07-28 Washington Post - Ben Forgey Review

Metro's Escalating Vision

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2001-07-13 Washington Post - B Section

Searched as Levy Probe Expands

Note Denies Calif. Minister's Daughter Condit

By ALAN LAYNE and PETER DONOHUE
Washington Post Staff Writers

Police look their search for Clinton Levy to several abandoned houses in Northern California as the investigation into the disappearance of the missing girl continues. The search is expanding as the investigation into the disappearance of the missing girl continues. The search is expanding as the investigation into the disappearance of the missing girl continues.

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2001-11-29 New York Times - Currents: Washington

Metro Chooses Canopy Design For Entrances

Awnings Intended to Protect Escalators From Weather

By LOUISE LAYNE
Washington Post Staff Writer

Metro directors on Friday selected a winning design for a canopy to protect 46 escalators from the ravages of weather. The design, selected by a jury of Metro directors, is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station. The canopy is designed by a team of architects led by Louie & Chenoweth/Hughes. The design is a modern, sculptural structure that will be installed over the escalators at the Silver Spring station.

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DC Magazine

2001 Year in Review

New Icons

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2003 Year in Review

ARCHITECTURE DC

A PUBLICATION OF THE WASHINGTON CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS

WINTER 2004

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2001 AIA-DC Magazine - Year in Review

Washington Metropolitan Area Transit Authority

2014 Twenty-five Year Award

The American Institute of Architects (AIA) has awarded the 2014 Twenty-five Year Award to the Washington Metropolitan Area Transit Authority (MWATA) for the Silver Spring station canopy. The award recognizes the project's innovative design and its contribution to the community. The award recognizes the project's innovative design and its contribution to the community.

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2003 Washington Chapter AIA Award

FOUR PILOT CANOPIES

PROTOTYPING CANOPY PROGRAM, WASHINGTON, DC

LOURIE & CHENOWETH ARCHITECTS, LLC

Owner: Washington Metropolitan Area Transit Authority
Contractor: Grunley Walsh Joint Venture

The four pilot canopies are a prototype for the Silver Spring station canopy. They are designed by Louie & Chenoweth Architects, LLC. The canopies are a prototype for the Silver Spring station canopy. They are designed by Louie & Chenoweth Architects, LLC.

Saturday, February 21, 1998

The Washington Post

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'Architecture in Perspective' Draws on a Renaissance Art

By Benjamin Forgey
Washington Post Staff Writer

"Architecture in Perspective," at the Octagon, is a neat, conventional little package of 55 drawings by today's leading architectural illustrators. Organized by the American Society of Architectural Photographers, the juried show focuses exclusively on the Renaissance art of rendering three-dimensional reality convincingly on a two-dimensional surface. Today, such drawings are used mainly to communicate the essence of a building design to non-architectural audiences—to sell a project, as it were—to developers, prospective tenants, public agencies or groups of citizens. Consequently, there is a tremendous emphasis on lushly atmospheric. On occasion, you will find it

See OCTAGON, C7, C8 & 9

Artist Richard Chenoweth's watercolor of a mansion designed in the 1790s but never built.

The Octagon, Putting Plans in Perspective

OCTAGON, First-CI

necessary to blink two or three times before realizing that the building you are looking at—the subject of a drawing—is an architectural medallion. This makes you appreciate the renderer's talents all the more. Predictably, there is a mixture of hand-drawn images and computer-aided renderings. If, for some reason, you have a bias against the machine-aided product, this show likely will cure you of it, for some of the most gorgeous and persuasive images are done with computers. The most interesting image in the show, however, is a watercolor rendering commissioned especially by the

1998-02-21 Washington Post - Ben Forgey Review of show co-curated by Chenoweth

Artist Richard Chenoweth's watercolor of a mansion designed in the 1790s but never built.

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