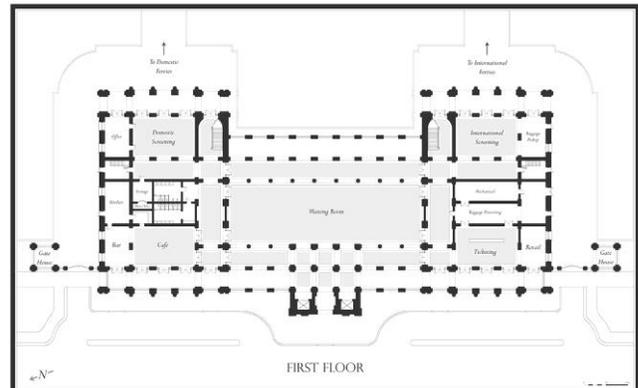


PROJECT 02

LIBRARY FOR THE 21ST CENTURY

ARC 3210 | Spring Semester 2020 | CS-713A | T/TH 2:30-5:45pm

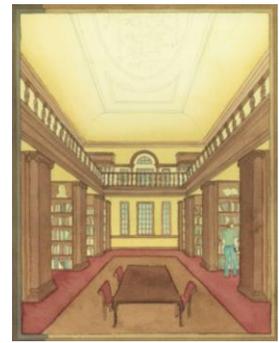
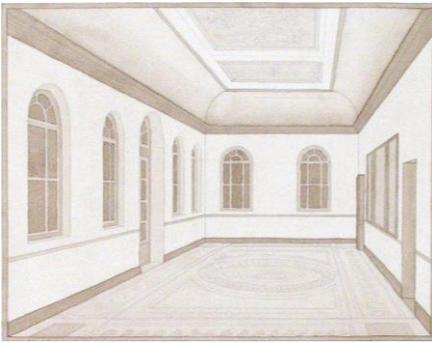
PHASE 3 – DESIGN DEVELOPMENT



DESIGN DEVELOPMENT

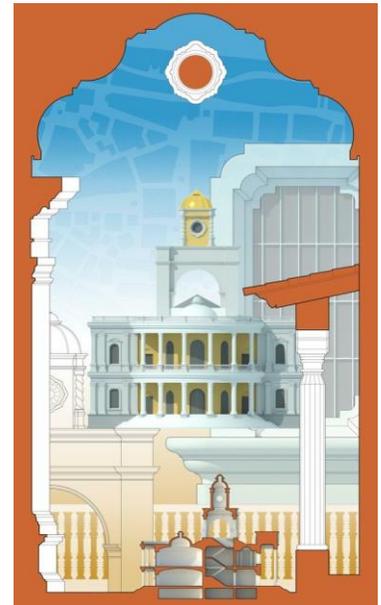
With the knowledge gained from the Schematic Design phase, students will begin refining their design proposals. These refinements should continue to address the project's program, client requirements, and user needs. As outlined in the course schedule, design development includes the following activities:

- Begin Revisions from Review - Plan, Section, Elevation
- Begin Interior Design of major space
- Begin Final Drawings, Perspectives
- Layout Details at Large Scale
- Review Analytique Layout Options
- Preparation for Final Review
- Digitally Hand in Project
- Final Design Review with Professional Jury
- Project DD Phase Reflections
- Digital Portfolio Due



INTERIOR DESIGN

Some of the most extraordinary experiences in architecture occur within building interiors. These are the spaces we inhabit and experience more than the external façade. As such each designer must approach the design of the interior with care and attention to detail. During the design development phase, each student is required to fully develop a significant interior space in floor plan, ceiling plan, interior elevations, and section. These will be reflected in the final interior perspective rendering.



ANALYTIQUE

“To design is to compose, but to compose one must have objects with which to compose; for the architect these are the ‘elements of architecture,’” wrote John Harbeson. Embedded in the *Ecole des Beaux-Arts* curriculum (which descended from the Academie royale d'Architecture in 1671 during the reign of Louis XIV) was *analytique rendu* (analytical rendering). An analytique was defined as a codified design problem that dealt with the elements of architectural design. It consisted of a single page composition of items such as a floor plan, elevation, detail, ornament, perspective, etc.

The purpose of the analytique drawing was to demonstrate that a student had gained both an understanding and developed their skills in the following areas:

- Sensibility to proportion
- Feeling for composition
- Character in drawing
- Appreciation of ornament
- Knowledge of descriptive geometry in projections and in shades and shadows



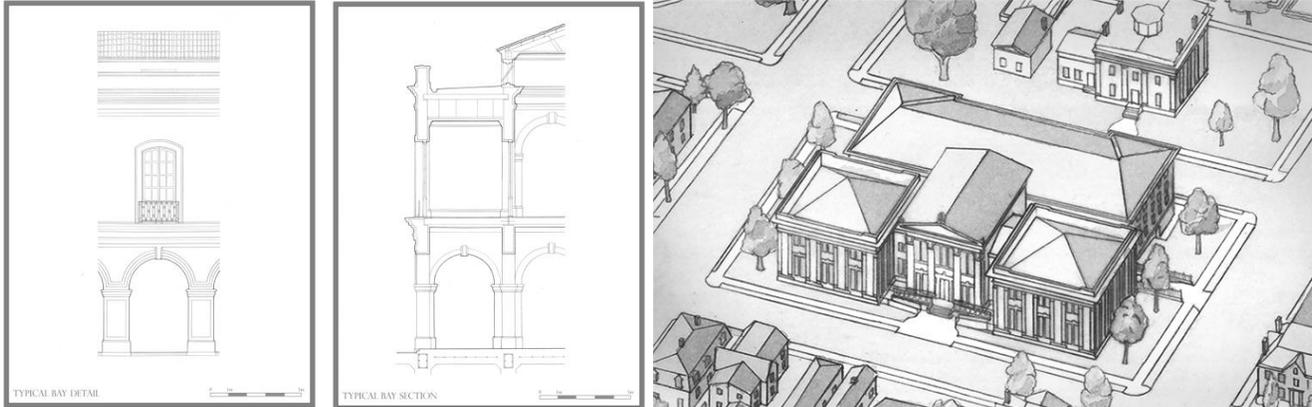
FINAL REVIEW DELIVERABLES

For the Final Design Review, each project proposal will work on developing and producing the following drawings.

DRAWING REQUIREMENTS

- Site plan showing landscape design proposal and context around site (1"=50')
- Building Elevations (1/16"=1'-0") include people for scale and trees
- Floor plans of all levels with spaces labeled (1/16"=1'-0")
- Longitudinal and cross sections of building showing context, include people and vegetation for scale (1/16"=1'-0")
- ~~Analog massing model to fit into class site model (1/16"=1'-0")~~
- ~~Analog wall section model (1/4"=1'-0") — should show evidence of design thinking addressing solid/void relationships, massing, materiality, classical proportions, major moldings, etc.~~
- Diagram showing program separation (Front of house vs. Back of house) – could be combined with floor plans
- Diagrams showing daylighting strategy – could be shown in sections
- Diagrams showing circulation
- Exterior and interior perspective/vignette showing user experience
- Large elevation/section drawing of Classical order on your project – to be included in the analytique only (1" to 3"=1'-0" or larger depending on area)
- Large exterior perspective approach to building (+/- 12"x24").

- Large interior perspective vignette conveying user experience of a major space (+/- 12"x24"). Provide people for a sense of scale. This perspective must demonstrate a high level of design resolution in plan, ceiling plan, interior elevations, fictive structure (classical orders), moldings, etc. since enlarged drawings are being omitted from the deliverables.
- Watercolor analytique containing a series of elements from the project in a composition (e.g., main elevation, floor plan, enlarged details of classical order, ornament, wall section, bay elevation, etc.)



ADDITIONAL DRAWINGS FOR TEAMS

Those working in teams will have a series of extra requirements for their final design proposal. These include the following items:

- Wall section showing molding profiles (1/4"=1'-0")
- Bay elevation demonstrating understanding of masonry joints and classical language (1/4"=1'-0")
- Large bird's eye view (+/- 12"x24") showing how design proposal fits into context with massing, streets, vegetation, etc.
- For each additional team member, you will produce another large exterior perspective approach to building (+/- 12"x24"). For instance, if you have 2 people on your team this will result in two large exterior perspectives; 3 people would be three exterior perspectives. Provide people for a sense of scale. Each perspective must demonstrate a high level of design resolution in plan, materiality, elevations, fictive structure (classical orders), moldings, etc.
- For each additional team member, you will produce another large interior perspective vignette conveying user experience (+/- 12"x24"). For instance, if you have two people on your team this will result in two large interior perspectives or three people would equal three interior perspectives. Provide people for a sense of scale. Each perspective must demonstrate a high level of design resolution in plan, ceiling plan, interior elevations, fictive structure (classical orders), moldings, etc. since enlarged drawings are being omitted from the deliverables.

PRESENTATION FORMAT

For the Final Design Review, each of the drawing requirements listed above will be presented digitally in two main formats.

- 8.5”x11” BOOK PRESENTATION: See InDesign template and PDF layout in Canvas. All drawings will be reduced to a scale to fit the smaller booklet format.
- 36”x120” BOARD PRESENTATION: This serves as your analytique and should stand on its own without you needing to explain it. The large format analytique board should demonstrate a knowledge and application of graphic composition, classical ordering systems, shade/shadow, materiality, and parti.

Each drawing should include a titleblock and the following:

- North arrow (when appropriate)
- Graphic scale
- Drawing type label (Ground floor plan, East elevation, section)

DD PHASE ASSESSMENT

Your design project will be graded based on the following criteria:

LEARNING OBJECTIVE	POINTS
DESIGN SOLUTION: Successful design solution to fundamental architectural problems that integrates concepts, formal/visual principles, creative inquiry, and techniques that address the functional and programmatic requirements of the project.	40 (20%)
FORMAL & SPATIAL PRINCIPLES: Demonstrates fundamental understanding and application of formal, spatial, and aesthetic principles. (e.g., proportion, classical orders, geometry, user experience, human scale, beauty, hierarchy)	20 (10%)
ANALYTIQUE: Successful digital analytique presentation board demonstrating a knowledge and application of graphic composition, classical ordering systems, ornament, shade/shadow, materiality, and parti.	40 (20%)
SITE DESIGN: Project addresses the immediate site, neighborhood, and urban design needs of the area. Design proposal appropriately responds to issues emerging from the historic district, immediate context, socio-cultural demographic, and institutional presence.	10 (5%)
VISUAL/GRAPHIC COMMUNICATION: Communicates design solutions effectively using architectural presentation materials and techniques (e.g., line weights, level of detail for scale, level of craft, organized graphic presentation). This also includes analog models and their ability to adequately convey the main project characteristics.	10 (5%)
USE OF PRECEDENTS: Project clearly makes informed and well-reasoned choices regarding the incorporation of design principles from precedent analysis.	10 (5%)
DESIGN PROCESS: Project demonstrates a rigorous and successful design process. This will be evident in the refinement of the selected concept sketch (<i>esquisse</i>) to the final design solution (e.g., development of plans, sections, elevations, models, diagrams, perspectives,	10 (5%)

etc.)	
VERBAL COMMUNICATION: Verbal communication is well planned and executed. Presentation results in further discussion of the design solution.	10 (5%)
INTERIOR DESIGN: Project successfully demonstrates a fundamental understanding and application of formal, spatial, and aesthetic principles for a major interior space. (e.g., proportion, classical orders, geometry, user experience, human scale, beauty, hierarchy)	40 (20%)
PROJECT REQUIREMENTS: All project requirements and criteria are met, such as deadlines, deliverables, format, portfolio, etc.	10 (5%)
TOTAL	200 points / 100%