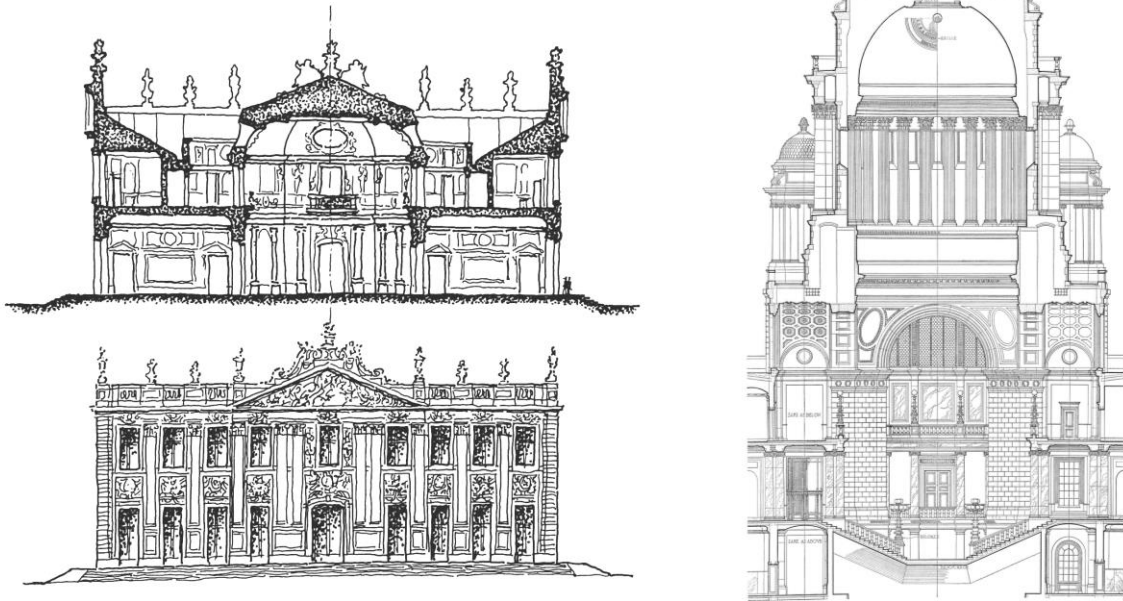


PROJECT 03

RIO GRANDE DEPOT

ARC 3210 | Architecture Design Studio IV | Prof. Brandon Ro, AIA, NCARB

PHASE 2 – SCHEMATIC DESIGN



SCHEMATIC DESIGN

With the knowledge gained from the Pre-Design phase, students will begin the formal architectural design process where ideas and concepts emerge about the project's program, client requirements, and user needs. We call this phase schematic design. As outlined in the course schedule, schematic design includes the following activities:

- Esquisse - Concept Development
- Review Site Plans / Façades Design Concepts
- Review Floor Plan Program Layout Strategies
- Start Studies at Larger Scale
- Develop Plan, Section, Elevation
- Refine Plan, Section, Elevation
- Start Diagrams, Vignettes, Interior Design
- Preparation for Interim Review

- Hand in Project / Pin Up Materials for Review
- Interim Design Review with Professional Jury
- Project SD Phase Reflections
- Digital Portfolio Submission



THE ORDERS IN COMPOSITION:
 PROGRESSIVE OMISSION *of a TOWNHOUSE ELEVATION*
Institute of Classical Architecture & Art
 M. MESKO & M. BURNS

ESQUISSE / CONCEPT DESIGN

Embedded in the *Ecole des Beaux-Arts* curriculum was the *esquisse* – a French word for sketch. The *esquisse* is a preliminary sketch showing the main ideas of your solution to the design challenge and problem explained above. It is done in a short and fixed time, usually anywhere from a couple hours to nine hours. Your final design for the project will be founded on your *esquisse*. As part of this design process, each student will create a total of the following items:

- **Four (4)** quick sketch proposals for the site plan,
- **Four (4)** quick sketch proposals for the design of the main façades,
- **Four (4)** quick sketch proposals for the floor plan layout of the program
- **All drawings will be produced at a consistent scale of either 1/32"=1'-0" or 1/16"=1'-0" scale.**

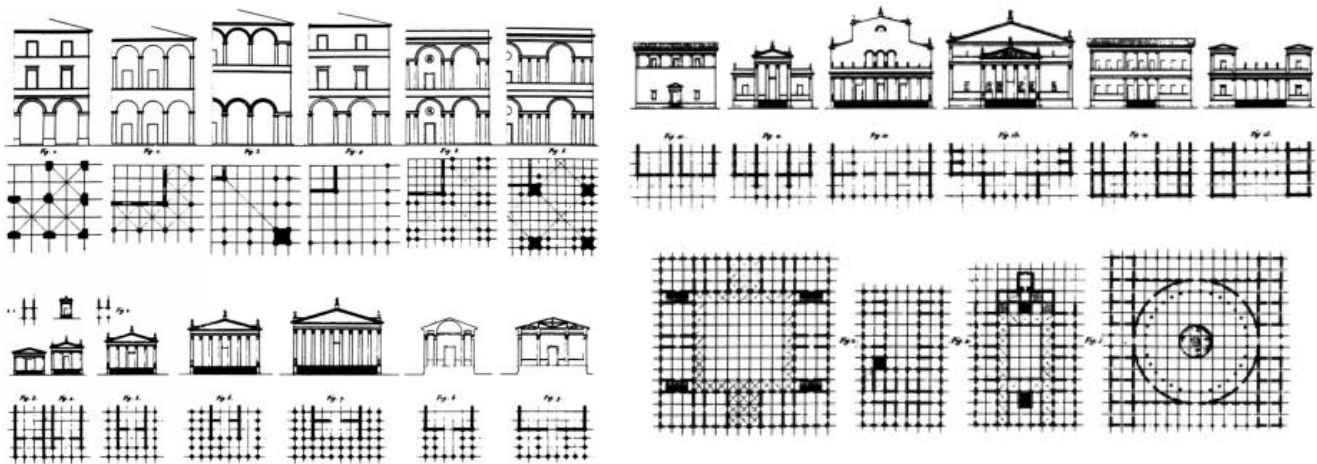
The design proposals will be informed based on your team's findings from your program, precedent, and site analyses. After the *esquisse* exercise, students will select one of their concepts for the façade, floor plan, and site plan to further refine.

INTERIM REVIEW DELIVERABLES

For the Interim Design Review, each student will work on developing their projects by producing the following drawings. These will be assembled on several sheets or a single board.

- Urban structure plan diagrams (transportation, blocks, green space, building use) (1"=100' or 1"=200')
- Site plan showing parking, context, landscape design, etc. (1"=50')
- Building Elevations – show canopy and Rio Grande Depot (1/16"=1'-0")
- Floor plans of all levels with spaces labeled (1/16"=1'-0")
- Longitudinal and cross sections of building and canopy showing context, people, transportation, vegetation (1/16"=1'-0")
- Diagram showing program organization (Front of house vs. Back of house) – could be combined with floor plans
- Diagrams showing circulation
- Interior perspective showing user experience
- Exterior perspective showing user experience

Each drawing should include a north arrow, graphic scale, and label.



SD 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.	20 (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 (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,	15 (15%)

immediate context, socio-cultural demographic, and institutional presence.	
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).	10 (10%)
USE OF PRECEDENTS: Project clearly makes informed and well-reasoned choices regarding the incorporation of design principles from precedent analysis.	10 (10%)
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, etc.)	10 (10%)
VERBAL COMMUNICATION: Verbal communication is well planned and executed. Presentation results in further discussion of the design solution.	5 (5%)
PROJECT REQUIREMENTS: All project requirements and criteria are met, such as deadlines, deliverables, format, portfolio, etc.	10 (10%)
TOTAL	100 points / 100%