Phase IV: Final Design (50%)

In this last phase of the project design attention is given to unifying the entire design, and detailing all areas of the design. All aspects of the design are to be fully resolved including: The organization of all spaces, site placements, programmatic needs, aesthetics, building systems and materials, life safety, accessibility, sustainable design, place making in an urban setting, and the aspirations of clients and the community. The designer also develops a strategy to effectively communicate the final design in verbal, written, and graphic form required at the end of the semester reviews.

Each student will submit one completed design scheme showing a fully resolved design. Provide the following drawings and physical model:

1. _____ Area Location Site Plan/Aerial View: Show building and site within an aerial map of adjacent urban elements. Photoshop an image of your building into an Aerial Photo or map showing the relationship of the building to the greater surrounding urban context.

2. _____ Site Plan/Ground Floor Plan: show appropriate surrounding context -- human made and natural. Show north arrow.

3. _____ All Additional Floor Plans: Show section cuts. Show north arrow. Floor plans are to include architectural elements such as stairs, location of windows and glazing systems, doors with swings, major features, fixtures, and appurtenances. Indicate basic structure such as columns. Label all spaces with room names and key to program.

4. _____ Code, Life Safety, ADA Analysis: Provide a room legend with name, size, and corresponding IBC code calculations. Explain in graphics and words code analysis and compliance, show blow-up restroom layout for either men or women with corresponding elevation. Note accessibility requirements addressed. Separate floor plans and diagrams may be used to explain various aspects of the design.

5. _____ Four Exterior Elevations: Showing an in-depth understanding of the major architectural systems including structure, envelope, and glazing systems.

6. _____ Two Axonometric aerial views of building on site: Delineate in detail all architectural features.

7. _____ Exterior Perspectives: Minimum of One Eye level perspective showing rendered building view embedded in actual high resolution site photograph showing view of museum along river front. This image should be a centerpiece of the presentation. Minimum of Two additional eye level exterior perspectives showing significant building views. Accurately indicate building materials, include entourage and humans, and landscaping.

8. _____ Interior Perspectives: Minimum of four interior perspectives showing entry lobby, Slav Epic gallery spaces, and other significant views. Accurately indicate building materials, finishes, and include entourage and humans.

9. _____ Design Process-Conceptual and Developmental Studies: Drawing, models, sketches, etc. that chronologically represents process and progress from the beginning of the semester to final design. Demonstrate the evolution of the design throughout the semester explaining the critical decisions and milestones. This should result from the weekly journal entries.
10. **Two Building Sections: N-S and E-W** Select the most significant cuts that explain the most about the design. Show architectural and structural information.

11. **Wall Sections:** Show significant cuts that explain the systems used in the design.

12. **Details:** Draw details of significant conditions important to understanding the design. 1 ½” to 3” scale typical. Key details to wall sections. Use notes to explain materials and systems.

13. **Precedents/Research:** Graphic examples, print and/or pictorial, of existing precedents used in the building for: Structure, Envelope and Façade, Walls systems, glazing, doors and windows, interior finishes and equipment: walls, elevators, lighting, seating, etc. This can be a supplemental handout accompanying the board presentation.

14. **Digital Building Model:** Show 3D images explaining systems integration.

15. **Physical wall section model:** From Arch 3355 assignment.

16. **Narrative description of project addressing:** (Located at the beginning of project presentation near Title and Main Perspective) covering the following criteria:

   - **Program:** The accommodation of human physical and psychological needs, planning for specific activities particular to building typology, identifying spatial relationships, allocation of spatial sizes and requirements, and providing for life safety and accessibility.

   - **Context:** Sensitivity to social precedents both physical and psychological. Consideration of economic factors, urban patterns, regional issues, community needs and aspirations, and culturally diverse attitudes.

   - **Site and Environment:** Design for ecological preservation considering natural environment, climate, solar exposure, wind temperature, and precipitation. Minimize negative environmental impact through sustainable design strategies.

   - **Form and Space:** Defined by systems of structure, enclosure, and circulation, organized by hierarchical patterns, articulated by the qualities of shape, color and texture, and determined by the principles of scale, and theories of proportion, aesthetics and compositional arrangement.

   - **Technology:** Methods of construction, properties of materials, building systems, sustainable design, and mechanical systems including plumbing, electrical, lighting, and HVAC.

   - **Design Process:** The intellectual activity of conceptualizing, analyzing, and demonstrating architectural form and space using creative, critical, and logical thinking skills, hand drawing, three-dimensional hand-built models, and electronic media.

   - **Precedent and Evidence Based Design (EBD):** Design solutions are to be informed by established principles and noteworthy examples found in professional and academic works. EBD emphasizes the importance of using credible data in order to influence the design process.

17. **Additional images are encouraged**

   - Grades will be based on evidence of: (a) the degree of completeness in meeting the assignment (b) the degree of comprehension evident in the presentation (c) effective communication in verbal, written and graphic modes.