P02 - Project Schematic Design Prelim

**TASK:** Develop your Design Concept to a Schematic Design level which responds to the development the Aesthetic, Social, Cultural, and Tectonic values of the project established in the Program. Develop a presentation of this Schematic Design.

**Schematic Design Presentation Requirements**

**PROGRAM SHEET**
1. Previous Program Sheet.

**CONCEPT SHEET**
2. Previous Concept Sheet. You may edit or change if you wish.

**BUILDING SHEET – (36” x 60” or 72”)**
1. Program. Area Schedule – Revit Based (see Revit Tutorials)
   a. Program required spaces and ft2
   b. Actual ft2
   c. On separate 11 x 17 sheet

2. Area/Department Plans.
   a. See the Schematic Design Drawings handout
   b. All Floors (1st, 2nd, 3rd and Basement.
   c. Color Scheme Legend. scale: 30’= 1” (see Revit Tutorials)

3. Site and Roof Plan. Scale : 20’=1”
   a. See the Schematic Design Drawings handout

4. Floor Plans. Floors 1, 2 and 3. Scale: 1/8” = 1’-0”
   a. See the Schematic Design Drawings handout

5. Building Section. Scale: 1/8” = 1’-0”
   a. See the Schematic Design Drawings handout
   b. Section through Lobby space.
   c. Additional sections if needed to communicate design intent.

6. Exterior Perspectives. You need to communicate the overall Qualities of the building and its site from these images. All required perspectives should be from pedestrian height of an average person (~5’6”).
   a. See the Schematic Design Drawings handout
   b. Exterior with context image from off the site.
   c. Exterior outdoor space and building.
   d. Exterior entrance. (on the site looking towards the front door)
   e. Other views as needed.

7. Interior Perspectives. Focus on the quality of the interior spaces (volume, lighting, materials, furniture, views, etc.)
   a. See the Schematic Design Drawings handout
   b. Just Inside the Lobby Entrance.
c. From the Department Spaces toward exterior view.

d. Define materials and finishes

e. Other interiors as needed.

BUILDING SYSTEMS SHEET (36” x 60” or 72”)

1. Structural Drawings
   a. See the Schematic Design Drawings handout
   b. First floor Structural Plan (scale: 1/16” = 1’)
   c. Exploded Structural Axonometric (scale: 1=20”)
   d. Structural Axonometric Detail (scale: 1/2” = 1’)

2. Mechanical
   a. See the Schematic Design Drawings handout
   b. Drawing showing location of Mechanical components and horizontal distribution.
   c. Location of all the VRF outdoor units in site/roof plan (compressors)
   d. Floor Plan showing location of all the VRF indoor units (fan/coil) (scale: 1’16” = 1’)
   e. Floor Plan showing location of Dedicated Outside Air System.

3. Shading Strategy
   a. See the Schematic Design Drawings handout
   b. Sectional Diagram showing Shading strategy of building. Scale: 1/4” = 1’

4. Daylighting Strategy
   a. See the Schematic Design Drawings handout
   b. Illumination Rendering showing light distribution of 2nd Floor. Scale : 30”=1”
   c. Sectional Diagram showing strategy for light distribution. Scale: 1/4” = 1’

5. Wall Sections and Details
   a. See the Schematic Design Drawings handout
   b. Wall Section through major enclosure system. Scale: 1/2” = 1’
   c. 3d Wall Section Axonometric. Scale : 1/2” = 1’
   d. Callout Detail sections of wall. Scale : 1 1/2” = 1’ or slightly larger.

General Comments on Previous Assignments

1. Compose your sheets. Organize them so they read from the big picture to the little picture.
2. Just because you can does not mean you should!
3. Label things? Make sure the name is an industry standard.
4. Text too Small or Too Large. Labels on Wall Sections to large...Drawing Titles too Small.
5. Verify your bathroom and stairs meet Code and ADA.
6. These should be Design Drawings not Construction Drawings...Do you know the difference?
7. Plans, Sections, and Elevations should have immediate access to each other. One reads these drawings as a group not as individual drawings
Grading Rubric: See also Attached Grading Sheet.

A - Superior/Excellent - Accurate and complete work that exceeds the level and requirements requested by the instructor. Consistently showing scholarly initiative, innovation, attempts, discrimination and discernment.

B - Above Average - Accurate and complete work meeting the requirements of the instructor, and exceeding the level requested in a few. Often showing scholarly initiative, innovation, attempts, discrimination and discernment.

C - Average - Accurate and complete work meeting the requirements of the instructor and requiring minimal corrections. Work satisfactory, but needs improvement. Inconsistently showing scholarly initiative, innovation, attempts, discrimination and discernment.

D - Unsatisfactory - Work that is often inaccurate or incomplete, not meeting the minimum requirements of the instructor. Rarely showing scholarly initiative, innovation, attempts, discrimination and discernment.

F - Unacceptable - work that is unacceptable therefore not defined.

Project Grades will be determined by the separate categories listed on the ATTACHED grading sheet. You will receive points for each category ranging from 0 - 4. How many points you receive will be based on the performance criteria ABOVE.

Your grade will be determined by the four separate category listed in the grading sheet. (See attached grading sheet). You will receive points for each category ranging from 0 - 4. How many points you receive will be based on the grading criteria above.

Among those categories for your grade there is one called scholarship. Scholarship is “the methods, discipline, and attainments of a scholar”. Specifically in this context it is the scholarly attributes of a good student. Below are the seven scholarly characteristics and their definitions which will be the basis of your grade.

SCHOLARSHIP

Discrimination - the power of making fine distinctions between alternatives.
Initiative - readiness and ability in initiating action without out prodding.
Class participation - the fact of taking part in the class, as in some action or attempt.
Discernment - The act or process of exhibiting keen insight and good judgment.
Exploration - a careful systematic investigation of the unknown.
Innovative - the introduction of something new resulting from study and experimentation.
Attempts – to make an effort to perform, make, or achieve results multiple times.
Critical Thinking – “Critical thinking is the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action.” (The National Council for Excellence in Critical Thinking)
Project Grading Sheet and Grading Criteria:

**P02-Schematic Design Prelim**

Your grade will be determined by the five (5) separate categories listed below. You will receive points for each category ranging from 0 - 4. How many points you receive will be based on the grading rubric handed out with the project statement.

<table>
<thead>
<tr>
<th>NAME:</th>
<th>DATE:</th>
<th>GRADE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 98</td>
<td>16 - 88</td>
<td>12 - 78</td>
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<tr>
<td>19 - 96</td>
<td>15 - 86</td>
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<td>18 - 94</td>
<td>14 - 84</td>
<td>10 - 74</td>
</tr>
<tr>
<td>17 - 90</td>
<td>13 - 82</td>
<td>9 - 72</td>
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**AESTHETICS:**

0 1 2 3 4

The set of principles governing the idea of beauty at a given time and place.

- Concept
- Composition
- Unity
- Contrast
- Context

**TECTONICS:**

0 1 2 3 4

The construction or making of architecture. The science and poetics (art) of a work of architecture’s structure, joinery, and assembly of materials.

- Structure
- Enclosure
- Interior
- Mechanical
- Integration
- Tectonic Quality

**PROGRAMMING:**

0 1 2 3 4

The process of seeking out and defining the requirements that must be met in order for the design solution to be socially and culturally successful.

- Project Analysis
- Space Planning
- Activities
- Site
- Function
- Codes & ADA

**COMMUNICATION:**

0 1 2 3 4

The written, verbal and graphic communication of the project.

- Composition
- Content
- Representation
- Graphic Quality
- Communication
- Clarity

**SCHOLARSHIP:**

0 1 2 3 4

The scholarly attributes of a good student.

- Discrimination
- Initiative
- Participation
- Discernment
- Exploration
- Innovativeness
- Critical Thinking
- Attempts