



WK4/DAY .07

ARCH 2330 BUILDING TECH III

AGENDA: Building Analysis & Development

Today's Class: *Team Desk Crits and study of project transition from building design to construction documents.*

Focus on solving building system issues. Preliminary Team pinup & Team desk critiques. Draw conclusions on structural, mechanical, building system and construction systems. Continue to develop CAD drawings for presentation in next class session.

Agenda & Attendance (Class Time 3 hours)

Activity 1 (Team - Desk Critique of Inventory and Analysis)

- Critiques begin 0:10 minutes into class.
- Continue until 1:30 hours into class
- 10 minute break

Teams must look to solve the following issues.

- Structural spacing and grid.
 - Determine beam depths required for different structural spans.
 - Identify where long spans are needed and identify structural members, size and length.
 - Floor to floor heights.
- Mechanical Issues. Designate locations for mechanical rooms, vertical shafts for both supply and return and plan for horizontal distribution on each floor.
- Space Analysis & Program Review – provide a list of all program spaces and the square footage required. For each you must identify the code requirement for square foot per person.
- Core & Egress Study
 - Locations of vertical circulation – elevators, stairs and escalators. There must be three egress stairs and two must exit directly from the stair to the outside (street or courtyard). One stair may exit to the lobby and then out of the building.
 - Egress analysis. Identify egress paths for every floor and down the building to the exits. Color code the walls to identify the need for rated or non-rated walls. Use the following color codes:
 - Green Walls – no rating required
 - Yellow Walls – 1 hour rating required. Corridor Walls.
 - Red Walls – 2 hour rating required. Egress Stair Walls, Shafts.
- Façade & Elevation
 - Draw all facades. Determine windows types and dimensions & count of each
 - Materials – Identify façade materials

Activity 2

- Egress Lecture

Assignment Review

- Before the next class all **team** building analysis must be uploaded to the team OpenLab site.

Wrap-Up and Deadlines

- The next two classes will be graded presentations.