Group Presentations

Team presentations should include a clear and succinct presentation of the deficiencies of your groups building using the information provided to you at the beginning of the semester presented as a PowerPoint. This should be a representation of the analysis from the start of the semester- with modifications as needed. Do this quickly to orient the jury to your building and then move on to explaining your individual solutions. Remember that here you only identify the issues and not solve them. You can reiterate the issues again during your individual presentations.

Group	***Project Analysis PowerPoint Presentation:*** *You must include the following in your review:* *These first two (2-3) slides are to orient the jury to the project – they do not include analysis* *First Slide: Project Title & Type, Student Architect Name, Exterior renderings or elevations* *Second Slide(s): Existing Floor Plans* *The next few slides should analyze the project in the following order:* ***Zoning:*** *Did the building conform to zoning? Did you need to move the site? What things in your project might require a variance?* *You will not likely have to talk about zoning on an individual basis* ***Structure:*** *Does the building show structure? Any indication of diagonal bracing or shear walls? If not briefly describe the different conditions that you will need to resolve without showing your solutions. For example "our building shows no structure, but we know that we have two places where we have long spans – the pool and auditorium, etc." or "we evaluated the floor to floors given and based on structural and mechanical needs we know we need to make the following adjustments…" You will not show your individual solutions here.* *For your individual structural solutions identify the floor to floors you chose, show your column grid and spacing and your beams. Identify where your longs spans are located and what system you used to span these distance (truss, deep beams, etc.) How and where would you add diagonal bracing or shear walls to strengthen your building. Does you building have any unique structural characteristics like long overhangs? (Good drawings to show this are your structural drawings)* ***MEP (Mechanical Electrical Plumbing) Systems:*** *Are there any indication in your drawings of lights, ventilation ducts, etc. Is there any indication of where mechanical shafts will run? Is there any indication of where the mechanical room would be located?* *When you show your individual solution describe where you take in fresh air? How will it get to your mechanical room? How is the air circulated vertically and horizontally through the building? How will you route return air. How did the routing of mechanical systems effect your plan layouts or your floor to floor spacing? (Good drawings to show this are reflected ceiling plans, exterior elevations and building sections)*

Alt+A then M to merge cells.

Group Presentations

Group	***Room Layout, Circulation, Egress & Fire Safety Code:*** *Are the rooms laid out in a reasonable fashion based on their uses? Is there clear and reasonable circulation – are corridors shown as needed? Is their proper vertical circulation? Are there dead ends that are too long? (How long a dead end does code allow?) You will need 2-3 stairs and an elevator depending upon your building. Are the stairs drawn correctly in plan? Did your team determine that they need to have more risers due to the change in floor to floor heights? It would be good at this point to explain that the stairs need to be 1/3 the diagonal distance apart as we are putting sprinklers throughout the building. Identify the location of needed fire ratings, 1 hour corridors, 2 hours for stairs and elevators and 3 hour for your mechanical room.* *Show your modified floor plans and indicate how you reorganized space locations, modified circulation, etc. Where did you locate rooms that did not exist in the building (mechanical rooms). Where did you locate stairs and elevators and why? Remember the egress codes for locating stairs, how they exit the building and how far apart they need to be. Is the project well organized – for example are rooms labeled are doors shown etc. (Good drawings for this are both your Architectural Floor Plans and Building Sections)* ***Materials & Building Assembly:*** *Can you make determinations from the drawings of the likely building materials and assembly systems suggested by the drawings or renderings? For example, identify where there is curtain wall, or uniform areas of material that might be interpreted as solid concrete or precast or metal panels, etc. Be general here and not specific to your individual solutions.* *Each of you should explain your materials choices and then get into the details you developed. Take the time to explain your understanding of the wall sections and corresponding plan details you developed. For the wall section in particular I want to see the original detail from your Revit sheet – with leaders and detail items. Second I want to see indication of it color coded by systems (Structure in Red, Water Proofing in Blue, Thermal in Green, Fire Protection in Yellow). Third I want to see you show the detail in order of construction to identify process – what come first, structure etc. Show a progressive set of PowerPoint slides. (You will need to show these drawing sheets in PowerPoint and also plot these drawings full size 22 x 34 for pinup)*

Final Submission

Your Final Presentations will include the following:

Team PowerPoint

Individual PowerPoint

PDF copy of your full Revit Set for plotting at 11 x 17

PDF copy of all your related research

Complete set of sheets – plotted (11 x 17) – Bound along the left side

Full size plots of your detail sheets A-400 series (22 x 34)

All PDF's should be brought to your final presentation and uploaded to Blackboard

Individual Presentations	
The individual presentations should address how you as an individual addressed all of the issues identified in the group project analysis. You can include things you studied but ended up disregarding if it helps explain your decisions. What I am primarily interested in seeing is that you addressed each of the main issues and then describe your wall sections and detail assemblies - focusing–on explaining how the building is constructed. *If you would do it differently now than you are showing describe why you would make adjustments now that you have a greater understanding of buildings. Remember to be prepared to explain your decisions and to learn from the jury.*	
Individual	***Cover Sheet*** *Create a cover sheet that includes a drawings list and at least one good 3D perspective or isometric. Make sure this sheet includes your name and a list of your team mates.*
Individual	***Structural Floor Plans & Building Section/Elevation (S-100,S-101…)*** *Include five structural drawings. Basement Level showing footings, First Floor Structural showing Concrete Beams, Second Floor Structure showing steel beams, structural building section and a 3D Isometric view. Apply the structural plan view template. Structural floor plans show grids with grid dimensions, shaft openings, stairs, and beams with keys. The Section or exterior elevation should include level heights names/keys. Add any notes or leaders that help explain your project.*
Individual	***Architectural Floor Plans (A-100,A-101…)*** *You should include all of your Architectural floor plans from the basement up to the top floor. Apply the architectural plan template. You can skip the roof plan. Each floor plan must show walls & doors, partition type wall keys that match your partitions sheet, elevators, stairs, structural grid and grid dimensions.* *For one floor plan only (likely the first level) you should add the following:* *Room Names and Numbers, Door Numbers, Wall Type Keys, Door Schedule (either on this sheet or one a separate sheet – but if you can fit it on the same sheet do it that way).*
Individual	***Architectural Reflected Ceiling Plans (A-200,A-201…)*** *Include one reflected ceiling plan that matches whichever floor plan you showed with room and door keys. Apply the reflected ceiling plan template. For the RCP you need to show ceiling materials and add lights, supply and return registers and room name/number keys. For the room keys turn on the leader option and move these outside of the floor plan or where they do not obscure the ceiling. Also show the structural grid – but you do not need to show dimensions.*
Individual	***Exterior Building Elevations & Full Building Sections (A-300,A-301…)*** *These drawings are relatively simple. All exterior elevations and two full building sections. On the exterior elevations label materials, curtain wall, precast concrete, metal panels, etc. If you are doing precast one of the elevations should show labels for panel types and must divide the façade up into individual panels. Include grids and floor to floor bubbles. For the building sections label main spaces to add clarity (auditorium, pool, lobby, lockers, etc.)*
Individual	***Partition Types, Wall Sections, Wall Section Details & Plan Details (A-400,A-401…)*** *Include your partitions sheet as A-400. Start your wall sections on A-401 and organize the wall sections and plan details in whatever fashion you think makes for the clearest understanding. This will likely take you several sheets to accomplish. Depending upon your solution you might include partial enlarged exterior elevations and matching floor plans (1/4" or 1/2") to help indicate where your details occur.*
Individual	***Research:*** *Include all your research reference in your presentation – particularly for your details. You need to provide credit (links and sources) for anything you did not create on your own. It helps to show where you got things from and how you modified them so they would work. Remember to organize your presentation by system type, structure, water, thermal, movement, assembly, etc.*