WK5/DAY .10

ARCH 2431 BUILDING TECH III   **AGENDA: Case Study (Building Envelope & Interior Walls & Egress)**

Today's Class:
- Attendance & today's agenda outlined on the board or reviewed on OpenLab
  - *Lecture Discussion Building Envelope (as a means for waterproofing, thermal, structural, etc.)*
  - *Lecture Discussion Wall Types and Fire Rated means of egress*
  - *Drawing Session with Revit Continued*

Activity 1 (Discussion of Building Envelope)
- *Review the meaning of the term envelope*
- *Review basic concepts of waterproofing, thermal resistance & structure*
- *Envelope includes Roof, Foundation and Exterior Façade*

Activity 2 (Discussion of Interior Rated walls and Egress)
- *Purpose of fire rating walls – general overview of ratings along corridors and exit stairs*
- *Two means of egress – students need to diagram out their buildings egress*
- *How does rating affect running of mechanical systems?*
- *Layout and dimensioning of interior walls*
- *Providing Fireproof Column Enclosure or Spray on Fireproofing Plan Details*

  -Break-

Activity 3 (Drawing Session with Revit – continued)
- ***Glass Curtain Wall – Introduce Glass Curtain Wall Tool for exterior façade***
- ***Work from Level 1 – Architectural***
  - *Locate stair enclosures and corridor walls – discuss justification of walls*
  - *Locate unrated demising walls of other spaces.*
  - *Review wall layout and use of dimensions*
- *Add Room Labels – explain logic of a good system*
- *Add Door Families – add doors to plans. Review how to properly locate*
  - *Door labels / numbering systems*
- ***Review Architectural Plan vs RCP plan (layout both on sheets)***
- ***Introduce one wall type detail – using detail items & annotation***
  - ***1-layer 5/8" fire code GWB on each side of 3 5/8" metal stud frame (1 hour rated)***

Assignment Review
- ***Complete all work begun in class before next session***
- *Complete a single floor (level 1) architectural plan and RCP – layout on sheets*
- *Develop first partition type detail*
- *Progress Posting of Case Study Building to include all work begun and assigned in class*
- *Upload Progress Revit file and PDF to Blackboard*

AR2431.Btech3.SP20 Agenda Full Outlines - King.docx