Architectural CAD, IET-161   Name: _____

Spring 2013, Week 9

In Class Evaluation (ICE)   Day and date: _____

Final Project Abstract, Final Project Model with Door Schedule, Plan View Door Legend, Building Section Callout Wall Detail and Building Site Plan, 70 points total

Final Project Abstract, Word document, in a paragraph or single page maximum (20pts) towards the Final Project Grade).

- Describe what you would like to design and present to the class as a Final Project.
    - Description of your project, a design of your choice that has some personal interest to you, such as a residential, industrial or commercial building.
    - Description of the Revit Architecture toolbar, tool or method that you would like to present to the class as listed on the website.
    - Description of how the toolbar, tool or method is related to or aided in your design.

Final Project Model (70pts), begin your Final Project design and include all of the Revit elements that will allow you to create the items listed below.

Door Schedule (30 pts)

1. Create a Door Schedule per the book and as demonstrated in class, rename this in Capital lettering DOOR SCHEDULE (2pts), include at least 10 doors (1pt), with the following fields: Mark, Height, Width, Level, Finish, Frame Material, Frame type and Comments (2pts), all fields and headers in CAPITAL lettering (1pt)
2. Group the Mark, Height, Width, Level sections in a master section named DOOR INFORMATION (1pt), CAPITAL lettering (1pt), change the Mark section to DOOR NUMBER (1pt), and the LEVEL section to FLOOR (1pt), CAPITAL lettering (1pt)
3. Group the Frame Material and Frame Type in a master section named FRAME INFORMATION (1pt), CAPITAL lettering (1pt)
4. Insert field information, change the door numbers to a series of 3 digit numbers such as 101 and 102 for the first floor and the two hundred series for the second floor (2pts), center all schedule columns with numbers (1pt)
5. Fill in the missing information in the blank fields, for the Finish section state PT (for paint) or CT (for coating) followed by a 3 digit number as demonstrated in class (1pt), include at least three different entries (1pt), for the Frame Material state either STEEL or WOOD followed by a 3 digit number as demonstrated in class (1pt), include at least 2 different entries (1pt), for the Frame Type choose either SINGLE HINGE, DOUBLE HINGE or SLIDING or a type of your choosing (1pt), include at least 2 different entries (1pt), add a few comments (1pt)
6. Organize your schedule, all columns with numbers centered (1pt), order by door number (1pt), uncheck "Blank row before data" (2pts), condense or expand your information so it is all readable but compact (2pts)
7. Door tags on all doors, no leaders (1pt)
8. Errors and Extras

Plan View Door Legend (10pts)

1. Create a Plan View Door Legend per the book and as demonstrated in class, rename this in Capital lettering PLAN VIEW DOOR LEGEND (1pt), include at least 3 different door types (1pt)
2. Scale 1/4" = 1' – 0" (1pt)
3. Include Plan View Legend Components of your doors (1pt), layout neat and orderly with equal spacing between the doors lined up vertically (1pt)
4. Appropriate text descriptions (1pt), on the right (1pt) 3/32" (1pt) CAPITAL lettering (1pt), neat and orderly lined up vertically (1pt)
5. Errors and Extras

Building Section Callout Wall Detail (15pts)

1. Create a detail of an exterior wall from a Building Section on per the class videos, book and as demonstrated in class, rename this in Capital lettering DETAIL EXTERIOR WALL (1pt)
2. Insert 4 Break Line - Detail Components (1pt), masking on the correct side, break line in an appropriate location (1pt), install a Masking Region or a Filled Region of your choice (1pt)
3. Install Brick (or similar) Repeating Detail Component (1pt), appropriate location, neat and orderly (1pt)
4. Install a lumber section, similar to the videos, as a fire stop (1pt), dimension this (1pt), install insulation on both sides of the fire stop (1pt), neat and orderly (1pt)
5. Insert annotations with a dog leg (2 segment) leader for at least 4 components of your wall (2pts), neat and orderly (1pt)
6. Clean up your detail to make it look neat and orderly and "Arrange" the order of your Detail Components (2pts)
7. Errors and Extras

Building Site Plan (15pts), per the book, class videos and as demonstrated in class.

1. Create a Toposurface with a varied elevation of at least 20 feet, absolute or relative (1pt), assign "Grass" material to it (1pt)
2. Include a building pad on the Exterior Core face of the perimeter of the building (1pt), on the appropriate level (1pt), modify the level offset so your floors don't flash (1pt), modify it so that its thickness matches the floor (1pt)
3. Add a Subregion for a driveway or parking (1pt), apply an appropriate Material to it (1pt), neat and orderly (1pt)
4. Add a split surface (1pt), with different elevation points (to create a pond or mound as demonstrated in class) (1pt) assign an appropriate material to it (1pt)
5. Add property lines enclosing the property (1pt)
6. Add Label Contours between the lowest to the highest elevation (1pt)
7. Add site components of your choosing, at least 6 different kinds (1pt)
8. Errors and Extras