



ARCH 2431 BUILDING TECH III

(#2B) SCAVENGER HUNT ASSEMBLY SEARCH

Scavenger Hunt and Presentation

This assignment will introduce you Building Information Modeling (BIM) and the Revit program. Working with the sample file provided your goal is to identify how the building is constructed. You will be required to create a series of new views (partial plans, sections, details and 3d isometrics) that help to explain the assembly of a component of the building.

Remember that this is a design model and to illustrate construction assembly you will need to conduct some research!

You will create **three separate** studies on **three separate components** of the building, each formatted on a separate sheet.

Selecting a study subject:

Use your selection as a means to investigate the building. Ask yourself a question: How is the stair constructed or how is a balcony supported? There are many more questions you can ask. Investigate these questions by creating new views and formatting these on 22" x 34" title blocks.

Selecting views:

To properly understand and explain a study you need to create a set of matching views at the same scale. This typically consists of coordinated plans, elevations & sections with a 3D isometric view. For these studies use either 1/2" or 3/4" scale as appropriate. From each of these first studies create additional callout views that study smaller components like connections and again create a set of coordinated views (plan, elevation, section, 3D isometric) at larger scales 1 1/2", 3" or 6".

Annotation and dimensions:

As appropriate add annotation and dimensions to better explain your assembly.

Sheet layout:

Each study will require one or more sheets. For three separate studies this assignments minimum requirement is three separate sheets plotted to PDF. Look to make neat but tightly organized sheets without a lot of empty white space. Remember these are to be construction document style drawings and not presentation drawings.

Grading:

Criteria for grading will include but will not be limited to the following:

- Completeness and deadlines – requires three assignments handed in on time
- Good selection of assembly to study.
- Appropriate views – well organized and at appropriate scales
- Proper view titles, annotation and Dimensions
- Level of detail – do the studies show enough information to explain construction. This requires that drawings exist at two scales (1/2" or 3/4") and then the second set of drawings at larger scales. (1 1/2", 3" or 6")
- Demonstration of the mastery of the Revit software. Good control over views, proper organization of project browser, creation and organization of sheets with title blocks, proper printing to PDF, etc.
- Oral Presentation – student ability to describe what has been drawn.

****This assignment is included in the 30% of grading listed Studio Lab Assignments in the syllabus**