

Course Number and Title: ARCH 150 / Intro to CADD I / 4.0 Credits

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Website: www.thedraftedline.com/teaching

PROJECT 1: Representation – Large format plotting from AutoCAD

Utilizing the tools and techniques discussed in class, develop a final large-format page to plot for presentation. Text and other annotation must be incorporated into the document as well as a north arrow and scale figures.

Assignment 3:

1. Check the course website for tutorials presented in class.
2. Survey a section cut along the portion of the north-facing interior elevation of the studio cubicles that you previously surveyed.
 - a. Be certain to make note of the interior floor plane, exterior ground plane and ceiling plane.
 - b. Complete this survey as freehand line drawings in your sketchbook.
 - c. Use *Building Construction Illustrated* and the tutorial for reference.
3. Draft the section survey information in AutoCAD 2010 as a *continuous (unbroken)* section, utilizing the tools and techniques discussed in class in addition to appropriate line weights and layers.
4. Recall that line weights as associated with drawing layers as discussed in class must be utilized according to the preset color-coded system which will be linked to the plot style file you set up.
5. Set up a single 24" x 36" layout for the floor plan, elevation and section drawings.
 - a. The three viewports should be set to an appropriate scale to fit on a 24"x36" page (1/4", 2/16" or 1/2" scale). The section must be at a larger scale.
 - b. The floor planes of the section and elevation must align horizontally.
 - c. The elevation and floor plan must align with one another vertically.
 - d. The section must contain a light line drawing of a scale figure standing on the interior floor.
 - e. Dimension and annotate the drawings: drawing title and scale on all 3 drawings; indication of the location of section cut and elevation view; project title, name, date, north arrow.
 - f. Prior to plotting, be sure to select the proper Plot Style file. If you are plotting from a new computer, **be certain to transfer your .ctb file from your flash drive or computer**, otherwise your line weights will not plot properly.
 - g. Bring plotted drawings to class; submit the files by the due date/time.

Assignment Objectives:

Explore advanced tools in AutoCAD; develop a relationship between hand drafting conventions and their implementation in a digital workspace; develop systems for consistent drawing output.

Submission of Work:

- Assignment due on AW Storage at noon, Tues 4/20/10 (Sect 1) or Thurs 4/22/10 (Sect 2)
- The 2 files submitted must be entitled **YourName_P1A3_Layout.dwg** and **YourName-_P1A3_Layout.pdf**

Also for next week: Download and install SketchUp onto your laptop: <http://sketchup.google.com/>

