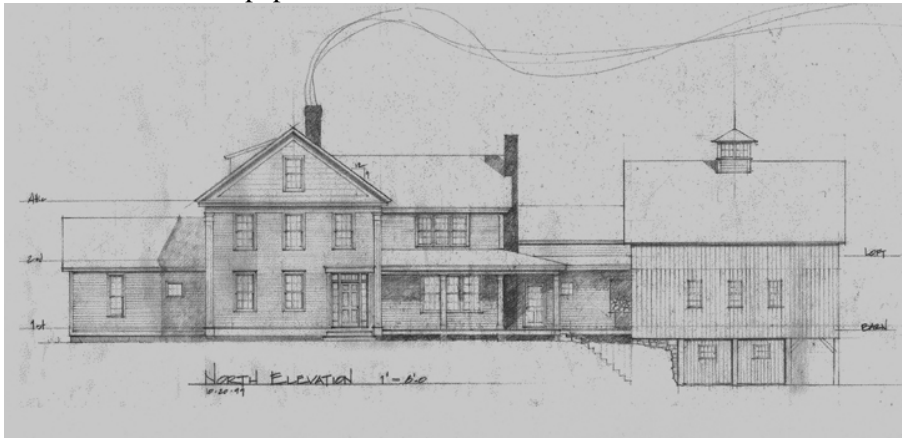


Drafting

Text (supplied by YIHS):
“Architectural Graphics” by Francis D.K. Ching. – 5th ed.

If we used written text to describe how to build a building, that is to say the dimensions of that building, the details of that building, where that building is sited upon its property, it would be a lengthy and inadequate means of communication. In the realm of three dimensions, the most effective communication tool to describe how to build that object is not written text, but to draw the object. It is the manner of communication which leads this class of learning how to draft. Similar to many human endeavors, drafting spans the range from the rudimentary to the artistic. We will begin with the rudimentary understandings of the intended purpose of the drafting instruments, and then move on to how to appropriately use each instrument. The academic studies of reading, writing, and mathematics predominately call upon one’s mind. Drafting includes these disciplines, but also calls upon the integration of our minds with our hands; Combining one’s head and hands to move forward through the hand techniques of delivering beautiful, clean drawings. Our medium will be lead on paper.



Also integral to this class is the understanding of drawing in two dimensions to communicate in our three-dimensional world. Drafting accommodates this need by combining various two-dimensional drawings to communicate in our three-dimensional world. This discussion takes us into the explanation and drafting of floor plans (horizontal views) combined with the explanation and drafting of sections and elevations (vertical views). Line quality and line thicknesses are discussed and practiced in anticipation of communicating the drawings’ intentions most effectively. At class end, the student will be competent in the techniques of drafting clean and beautiful drawings which effectively communicate the intention of three-dimensional objects and construction.

Submitted: Gregory Splinter
November 7, 2011

Drafting

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PART 1 - DRAWING TOOLS AND MATERIALS

Days 1 and 2

1.1 DRAWING TOOLS

- A. Pencils and leads.
- B. Drawing guides and aids.

1.2 SCALES

- A. Architect’s
- B. Engineer’s
- C. Metric

PART 2 - ARCHITECTURAL DRAFTING

Days 3 to 7

2.1 DRAWING LINES

- A. Line types.
- B. Line quality.

2.2 DRAFTING TECHNIQUES

- A. With T-Square.
- B. With angles.
- C. Angles and shapes.

PART 3 - ARCHITECTURAL DRAWING SYSTEMS

Days 8 to 12

3.1 PICTORIAL SYSTEMS

- A. Multiview drawings.
- B. Paralane drawings.
- C. Perspective drawings

3.2 COMMUNICATING DESIGN IDEAS

- A. Point of view.
- B. Scale and detail.
- C. Design and construction drawings.

PART 4 - MULTIVIEW DRAWINGS

Days 13 to 17

4.1 FLOOR PLANS

- A. Drawing a floor plan.
- B. Doors and windows
- C. Scale and detail.
- D. Ceiling plans

4.2 SITE PLANS

- A. Roof plan.
- B. Site topography.

4.3 BUILDING SECTIONS

- A. Section cut.
- B. Defining the section cut.
- C. Scale and detail.

4.4 BUILDING ELEVATIONS

- A. Arrangement and orientation.
- B. Scale and detail.
- C. Spatial depth cues.

PART 5 - PARALINE DRAWINGS (time allows)

PART 6 - PERSPECTIVE DRAWING (time allows)

Submitted: Gregory Splinter
November 7, 2011