Drawing A on page 12 of the Small House handout is a section through the north foundation wall; it extends from the footing through the first floor. The section shows what happens both where there is a basement window and where there is no window, which makes it confusing. Additionally, it does not show (non-structural) finish materials, that is, finished flooring, wood frame wall, and brick veneer.

**Redraw or sketch** the wall section showing only what happens where there is **no** window. Omit any items or notes that occur only where there is a window opening. Additionally, show the complete floor structure and the exterior wall to a few inches above the finished floor (ending the wall with a break line). In other words, the completed wall section should extend from elevation 90'-6" (bottom of footing) to slightly above elevation 100'-0". Use either 1" = 1'-0" or 1 ½" = 1'-0". Include all appropriate notes and dimensions.

Show all structural (including the beginning of the 2X4 wood stud walls) and the finished materials (for example, finished floor, gypsum board on inside of wood frame wall, and exterior bricks). Draw all lumber to the current actual sizes (see Reference Data 1-3) and **change any dimensions** that will be affected. Keep the elevation of the first floor at 100'-0" and the elevation of the basement at 92'-0", but other dimensions will have to change to allow this,

Use a 8 ½" by 11" sheet of paper; use break lines to make the drawing fit. Remember to include drawing title and scale. Homework should always include your name, course number (CE 209), and the date.

Note: The purpose of homework is to learn, that is to be prepared for quizzes and projects in this course, and more importantly, to be prepared for you career as an engineer. Much of this assignment will be copying the existing drawing and notes. But don’t just copy. To maximize your benefit, question every line that you draw and note that you write: Do you know what it means? Do you know why it is there? If not, ask.