

UNIVERSITY of NOTRE DAME
School of Architecture

BUILDING TECHNOLOGY I / ARCH 20411 & 60411
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PROJECT #2
TYPICAL WALL SECTION EXERCISES (1 & 2)

Recognizing the inseparable relationship between the composition of a building, its outward appearance, the materials used in its construction, and the methods of construction and systems employed, the following (2) exercises will help you demonstrate your understanding that comprehensive design requires the **simultaneous** consideration of a building's design in Plan, Section, Elevation (and perspective); and through which you will gain a greater understanding of the usefulness of such a working drawing (the technical wall section) in the design process.

In addition, your execution of these exercises will reinforce your grasp of the fundamental construction methods, materials, and details discussed thus far in the course, and will provide a foundation for your understanding of the information generally described in a typical wall section, including graphic conventions, notation, typical drawing layout, etc...

EXERCISE 1:

Use the information described in the typical wall section (at right) and plan sections (below) to determine the elevation of the typical bay being described.

1. Your final drawing can be drafted onto the sheet provided or on a separate sheet.
2. In your elevation, be sure to indicate horizontal and vertical coursing for each material used; you need not express the vertical coursing across the *entire* elevation nor the width of the mortar joints.

EXERCISE 2:

In this exercise, you will use the bay elevation (at left) and plan sections (below) provided to determine the typical wall section for the typical bay being described.

1. Your final drawing can be drafted onto the sheet provided or on a separate sheet.
2. Refer to the typical wall section in Exercise 1 for:
 - a. General information regarding the foundation, floor, and roof framing assemblies and connections to be included in the typical wall section (EX-2).
 - b. Typical symbols, notation, material hatch patterns to be used to describe the typical wall section (EX-2); refer also to 3rd and 4th editions of Architectural Graphic Standards & Knobloch.