# Carpentry Level One


Introduction to Construction Drawings, Specifications, and Layout 27104-13

# Objectives

List the types of drawings usually included in a set of plans and describe the information found on each type.

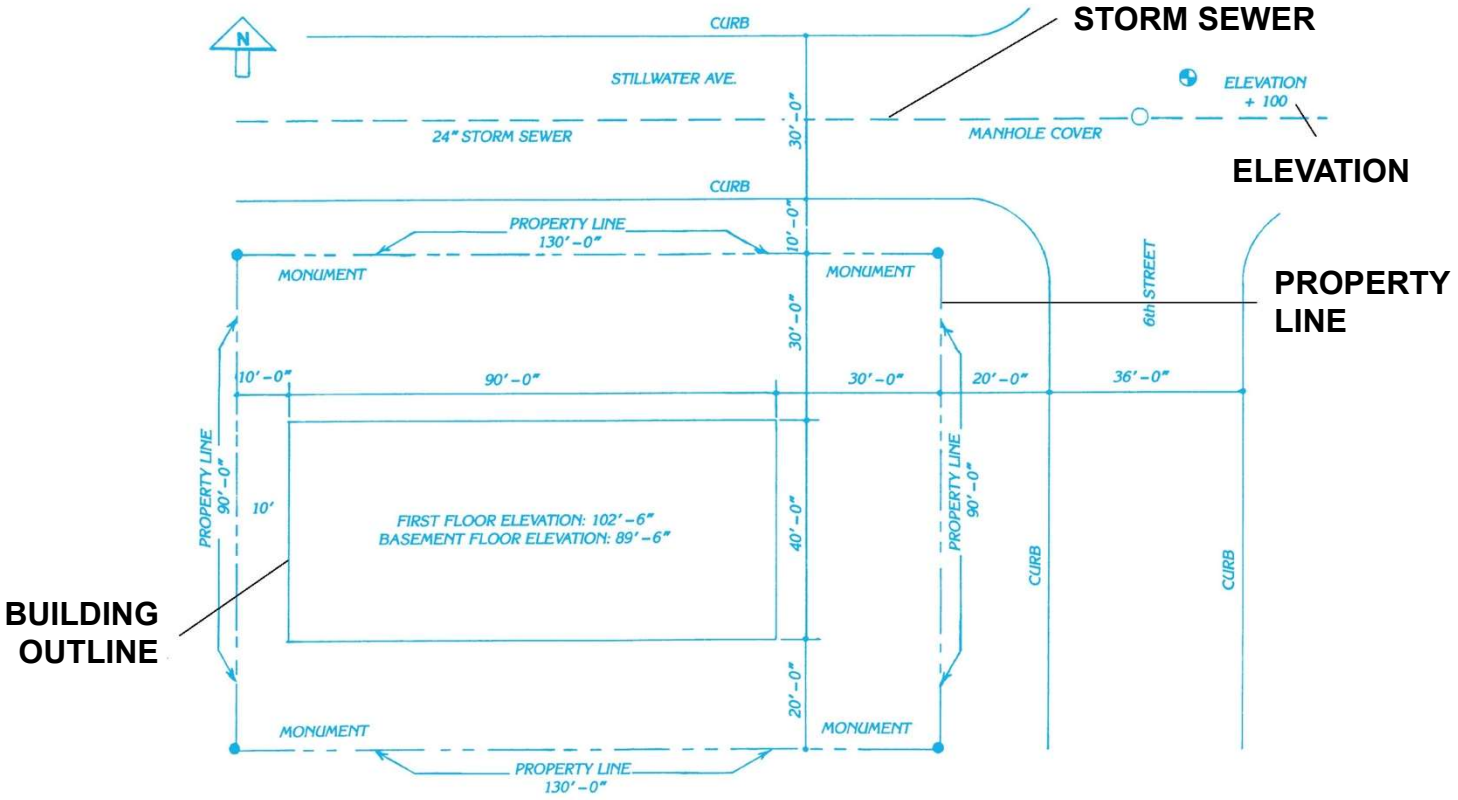
f. List the various types of construction drawings and describe each.

# Performance Tasks

1. Read and interpret foundation, floor, and other plan view drawings.
4. Read and interpret schedules.

# Kickoff Activity

- Interpret the following drawing to identify the elements indicated.

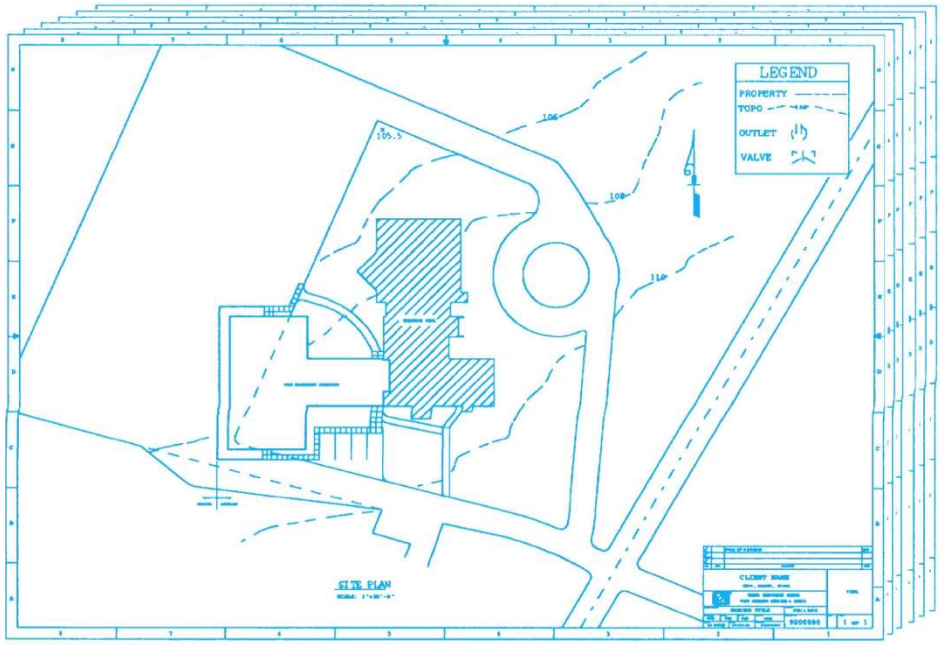


# Section 1.6.0

- Construction drawings
  - Convey to carpenters and other craftworkers the information needed to construct a specific structure
  - Along with the specification, fully describe the structure to be built
  - Must be interpreted correctly

# Section 1.6.0

- Construction drawings consist of several different kinds of drawings assembled into a set.




**TITLE SHEET(S)**

**ARCHITECTURAL DRAWINGS**

- SITE (PLOT) PLAN
- FOUNDATION PLAN
- FLOOR PLANS
- INTERIOR/EXTERIOR ELEVATIONS
- SECTIONS
- DETAILS
- SCHEDULES

**STRUCTURAL DRAWINGS**

**MECHANICAL PLANS**

**ELECTRICAL PLANS**

**PLUMBING PLANS**

## Section 1.6.1

- Title sheet provides:
  - An index to the other drawings.
  - A list of abbreviations used on the drawings and their meanings.
  - A list of symbols used on the drawings and their meanings.
  - Various other project data.

# Section 1.6.1

- Title block
  - Contains the name of the firm that prepared the drawings
  - The owner's name
  - The address and name of the project
  - Provides locator information

# Section 1.6.1

- Revision block
  - Used to record any revisions to the drawing
    - Contains the revision number or letter, a brief description of the change, the date, and the initials of the person making the revision

## Section 1.6.2

- Plan view drawings show:
  - The structure from a vantage point above and looking down
  - The overall construction site, the structure's foundation, and the structure's floor plans

# Section 1.6.2

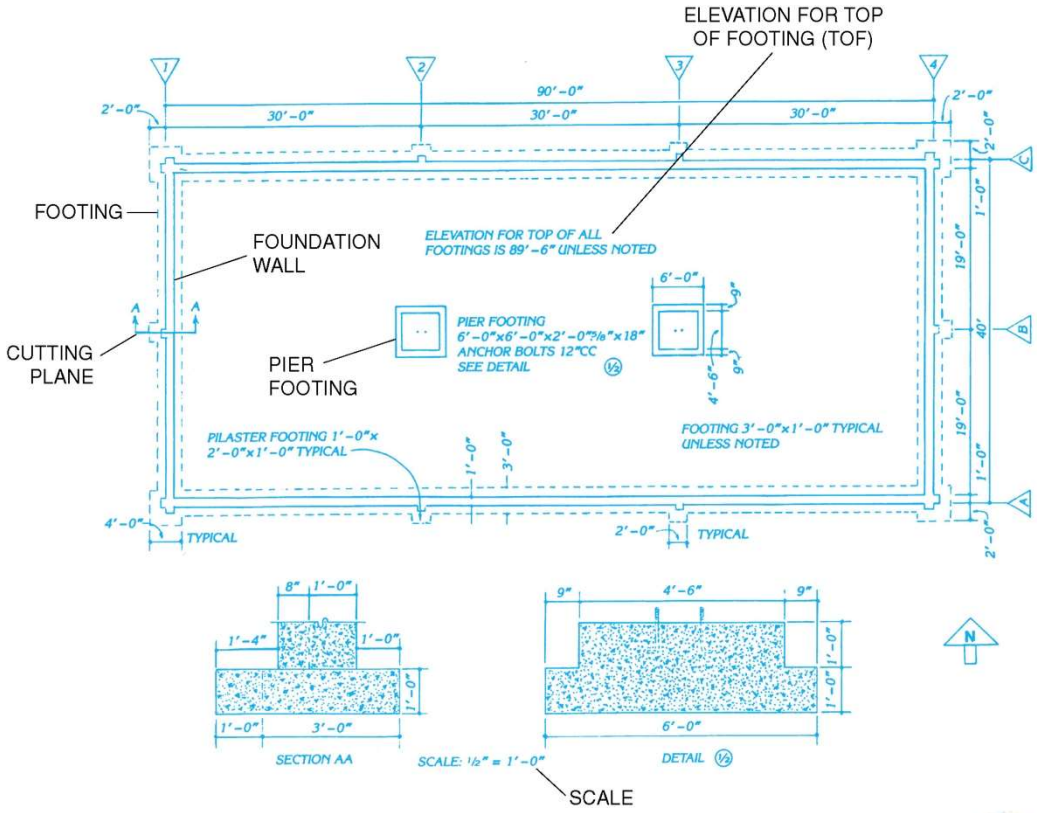
- Site plans include:
  - Coordinates of control points or property corners
  - Direction and length of property lines or control lines
  - Description, or reference to a description, for all control and property monuments
  - Location, dimensions, and elevation of the structure on site
  - Finish and existing grade contours

## Section 1.6.2

- Site plans include (continued):
  - Location of utilities
  - Location of existing elements such as trees and other structures
  - Location and dimensions of roadways, driveways, and sidewalks
  - Names of all roads shown on the plan
  - Locations and dimensions of any easements

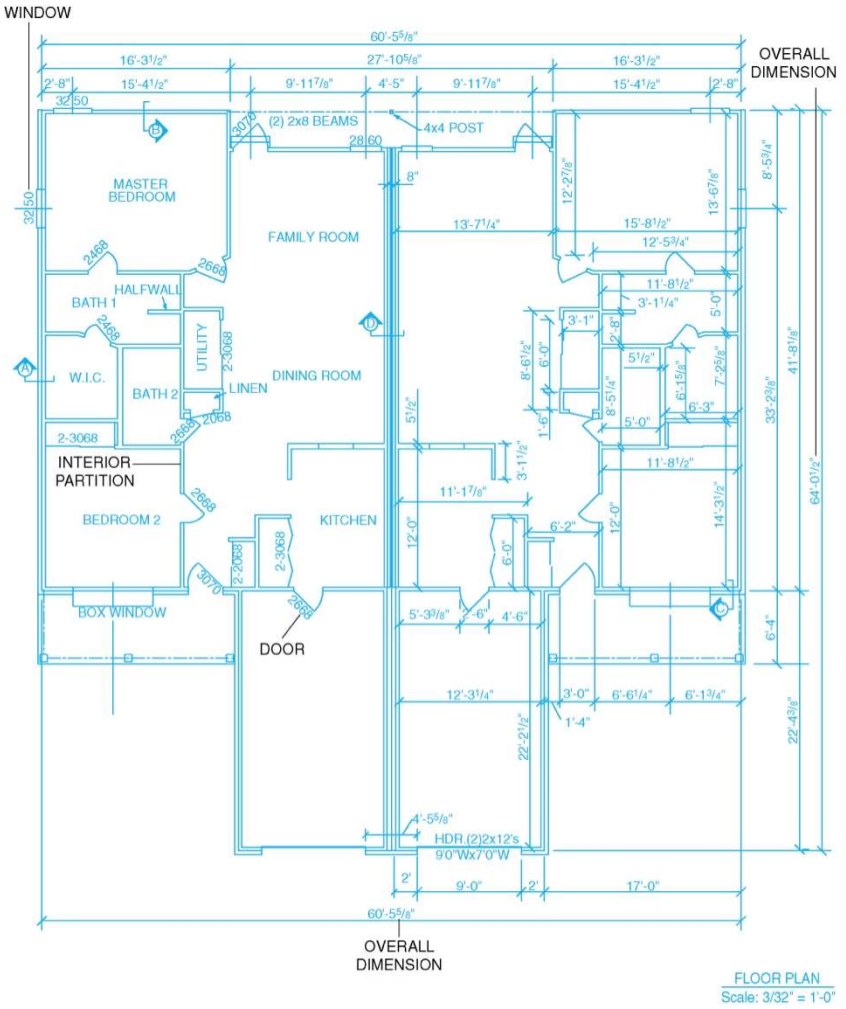
# Section 1.6.3

- Foundation plans provide information about the location and dimensions of footings, grade beams, foundation walls, stem walls, piers, equipment footings, and windows and doors.



# Section 1.6.4

- The floor plan is the main drawing of the entire set.
- An imaginary line is cut horizontally across the structure at varying heights so all the important features such as windows, doors, and plumbing fixtures can be shown.



## Section 1.6.5

- Roof plans provide information about the roof slope, roof drain placement, and information regarding ornamental sheet metal work, gutters and downspouts, etc.
- The roof plan may also show information on the location of air conditioning units, exhaust fans, and other ventilation equipment.

# Wrap Up

Use the scale of the foundation plan shown in Figure 18 or Figure 19 in the *Trainee Guide* to calculate the dimensions in the plan.

Next Lesson: Elevation View Drawings
Review Section 1.6.6