Problem 5.1 Given the following image, identify the items labeled A through U.
Problem 5.2 Given the following image, identify the items labeled A through G.
Problem 5.3 Given the following image, identify the items labeled A through O.
Problem 5.4 Given the following image, identify the items labeled A through F.
**Problem 5.5** Given the following image, identify the items labeled A through I.
Problem 5.6 Write an approximately 100-word report describing how steel reinforcing is used to increase the ability of concrete to withstand tensile stress.

Problem 5.7 Write an approximately 100-word report describing types of rebar and how rebar is specified in inches and millimeters. Demonstrate how rebar is specified on plans. Include at least two illustrations.

Problem 5.8 Write an approximately 100-word report describing welded wire reinforcement and how WWR is specified in inches and millimeters. Demonstrate how welded wire reinforcing is specified on plans. Include at least two illustrations.

Problem 5.9 Write an approximately 100-word report describing hold-down anchor systems and demonstrate how hold-downs are specified on plans. Include at least two illustrations.

Problem 5.10 Write an approximately 100-word report describing the function of shear walls and how they are constructed. Include at least one illustration.

Problem 5.11 Write an approximately 100-word report describing post bases and post caps and their use in construction. Include at least one illustration.

Problem 5.12 Write an approximately 100-word report describing the foundation wall keyed to footing, and the foundation wall keyed to footing with rebar placed in footing and extending upward into the foundation wall. Include at least two illustrations.

Problem 5.13 Write an approximately 100-word report describing the basic components of a post and beam foundation system. Include at least one illustration.

Problem 5.14 Write an approximately 100-word report describing the basic components of the crawl space foundation system using joist construction, and the difference between joist systems using dimensional lumber and engineered wood products. Include at least two illustrations.

Problem 5.15 Write an approximately 100-word report describing perimeter footing options and the features of concrete slab construction. Include at least one illustration.

Problem 5.16 Write an approximately 100-word report describing concrete slab control joints and their function. Include at least three illustrations.

Problem 5.17 Write an approximately 100-word report describing the basic components of a concrete slab foundation system, and the concrete slab foundation plan. Include at least two illustrations.

Problem 5.18 Write an approximately 100-word report describing the basic components of a basement foundation system. Include at least one illustration.

Problem 5.19 Write an approximately 100-word report describing concrete blocks and concrete block reinforcing methods, including concrete block pilasters and their function. Include at least two illustrations.

Problem 5.20 Write an approximately 100-word report describing the basic pier foundation system. Include at least one illustration.

Problem 5.21 Write an approximately 100-word report describing under slab electrical, duct work, and plumbing. Include at least one illustration.

Team Home Construction Problems
Continue the team problems started in Chapter 4.

Model Home Framing Construction

Problem 5.22 Team Problem
Continue with the teams and team members for scale model home framing kits established in Chapter 4. Each team will use kit instructions and materials to prepare the foundation for the scale model home framing kit established in Chapter 4.

Home Construction
This is a continuation of construction for the actual home to be built on property near the school, or on the school grounds and then moved to another location after completion.

Problem 5.23 Team Problem
This problem involves foundation construction. The foreman will evaluate and discuss the plans with the team members and supervise the foundation construction activities with instructor direction and supervision.