Practice 1a
Open and Review a Project

Practice Objectives

- Navigate the graphic user interface.
- Manipulate 2D and 3D views by zooming and panning.
- Create 3D isometric and perspective views.
- Set the visual style of a view.

In this practice, you will open a project file and view each of the various areas in the interface. You will investigate elements, commands, and their options. You will also open views through the Project Browser and view the model in 3D, as shown in Figure 1–71.
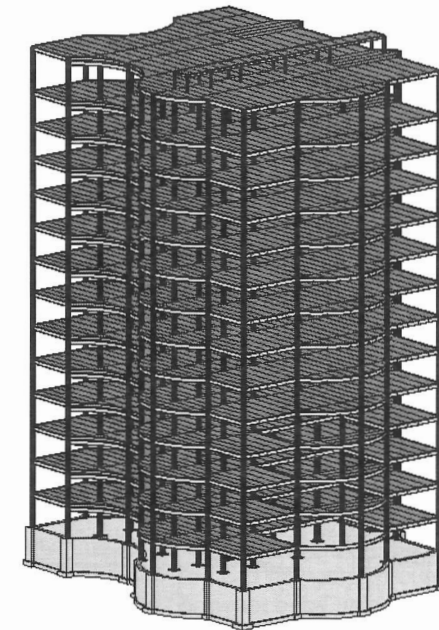

Figure 1–71

- This is a version of the main project you will work on throughout this guide.

Task 1: Explore the interface.

1. In the *File* tab, expand 🗀 (Open) and click ⬚ (Project).

   - If you are on the Home page, click **Open...** in the *MODELS* area of the sidebar. In the Open dialog box, navigate to the practice files folder and select **Structural-Suite-M.rvt**.

2. Click **Open**. The 3D view of the building opens in the view window.

   Note: If the Project Browser and Properties palette are docked over each other, use the Project Browser tab at the bottom to display it.

3. In the Project Browser, double-click on the **Structural Plans: 00 GROUND FLOOR** view. It opens a plan with the *Visual Style* set to **Wireframe** so that the footings and foundation walls display, although there is a slab over them.

4. In the View Control Bar, change the *Visual Style* to **Hidden Line**. The lines that are hidden in the view display as dashed lines, as shown in Figure 1−72.
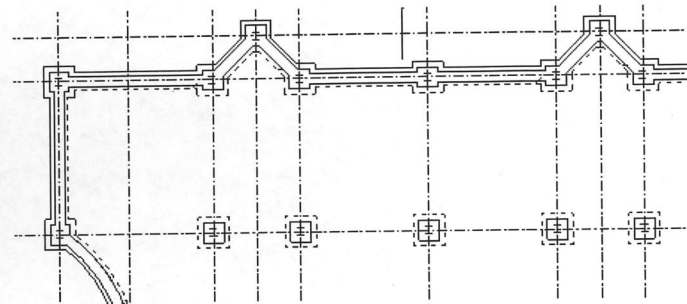

Figure 1−72

5. In the Project Browser, double-click on the **Structural Plans: 00 T.O. FOOTING** view. The strip footings and spread footings display as continuous lines because they are not obscured by a slab, as shown in Figure 1−73.
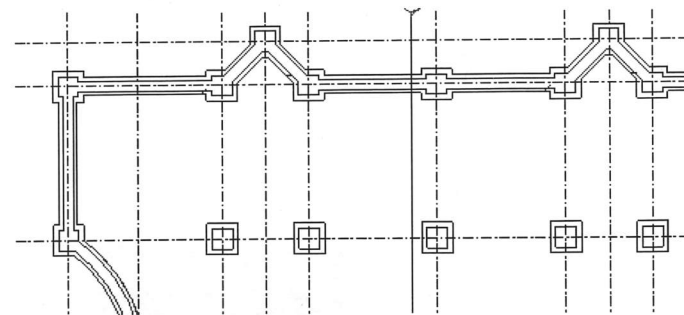

Figure 1−73

6. Zoom in on one corner of the building. The foundation walls are in-filled with the appropriate concrete hatch, as shown in Figure 1−74.
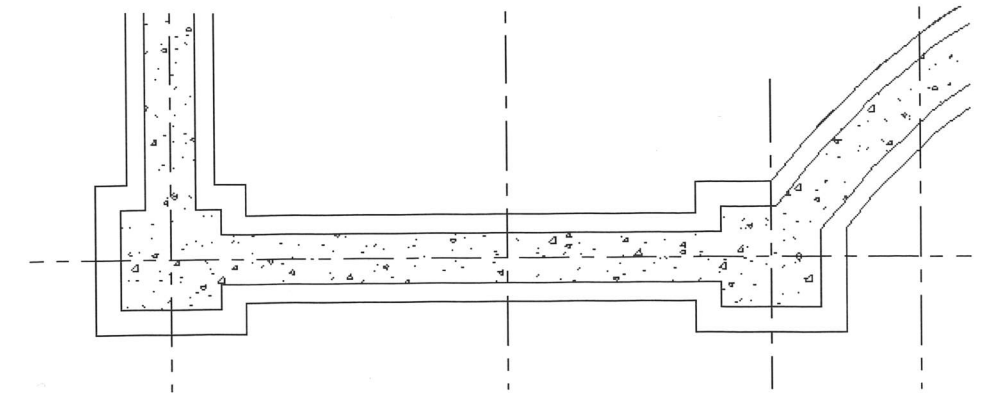

Figure 1−74

7. Double-click the mouse wheel or type **ZE** to zoom to the extents of the view. (**ZA** zooms to the extents of all of the opened view windows.) Find the section marker that extends vertically along the model, as shown in Figure 1−75.
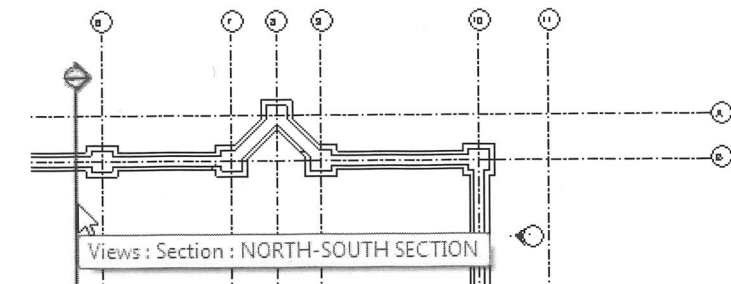

Views : Section : NORTH-SOUTH SECTION

Figure 1−75

8. Double-click on the section head to open the **NORTH-SOUTH SECTION** view.

9. In the Project Browser, navigate to the *Sections (Building Section)* category. The **NORTH-SOUTH SECTION** view name is bold. You can navigate through your model by double-clicking on the element in the Project Browser or by using the graphical view elements in the model.

10. In the section view, zoom in on the area in which the callout has been placed, as shown in Figure 1−76. Double-click on the callout-head to open the **TYPICAL EDGE DETAIL** view.
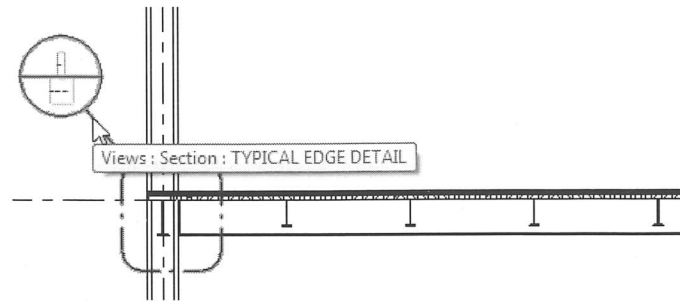

Figure 1−76

11. Toggle on and off (Thin Lines) to see the different line weights.

12. In the **TYPICAL EDGE DETAIL** view, select the floor, as shown in Figure 1−77.
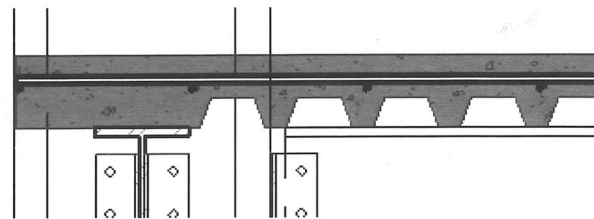

Figure 1−77

13. This is a full 3D floor element. You can edit it using the standard modify tools and the concrete floor-specific tools found in the *Modify | Floors* contextual tab, as shown in Figure 1−78.
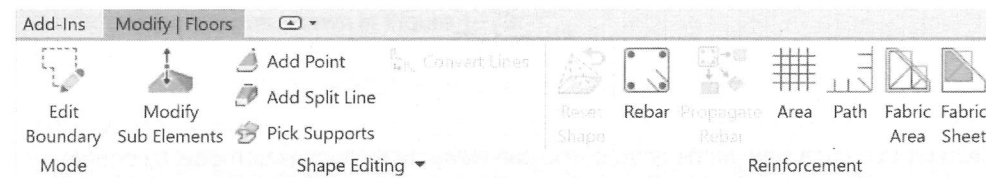

Figure 1−78

14. The Properties palette displays the instance parameters for the element, as shown in Figure 1−79.

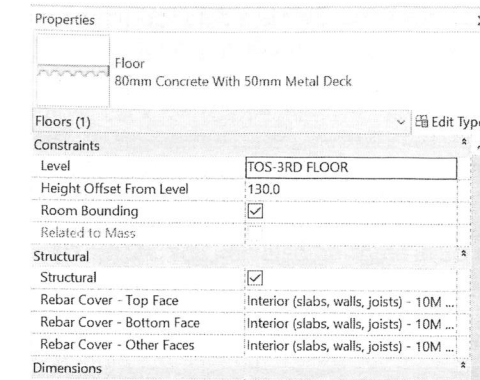*Note: Any changes made here are applied to the selected element only.*

Figure 1−79

15. In Properties, click (Edit Type) to access the *Type Parameters* in the Type Properties dialog box, as shown in Figure 1−80.

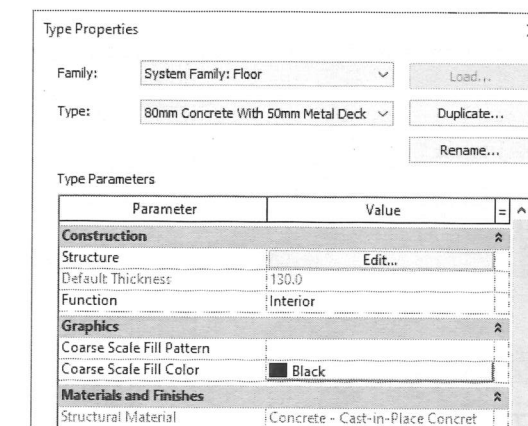*Note: Any changes made to the element here are applied to all of its other instances in the project.*

Figure 1−80

16. Click **Cancel** to close the Type Properties dialog box.

17. End the command using one of the following methods:

- In any tab on the ribbon, click (Modify).
- Press <Esc> once or twice to revert to **Modify**.
- Right-click and select **Cancel...** once or twice.
- Start another command.

18. Select one of the bolted connections. This is a detail component (2D element). The *Modify | Detail Items* contextual tab displays the modifying options specific to this element, as shown in Figure 1–81.
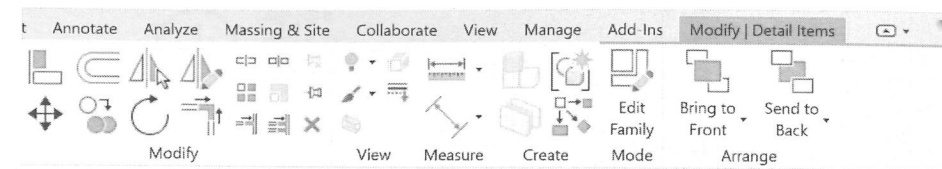

Figure 1–81

19. Click ⬚ (Modify).

Task 2: Work with multiple views and 3D views.

1. At the top of the view, click each tab to switch between the open views.

2. In the *View* tab>Windows panel, click ⬚ (Tile Views). All of the open views are tiled. Type **ZA** (for Zoom All) to zoom out to the extents of each view, as shown in Figure 1–82.
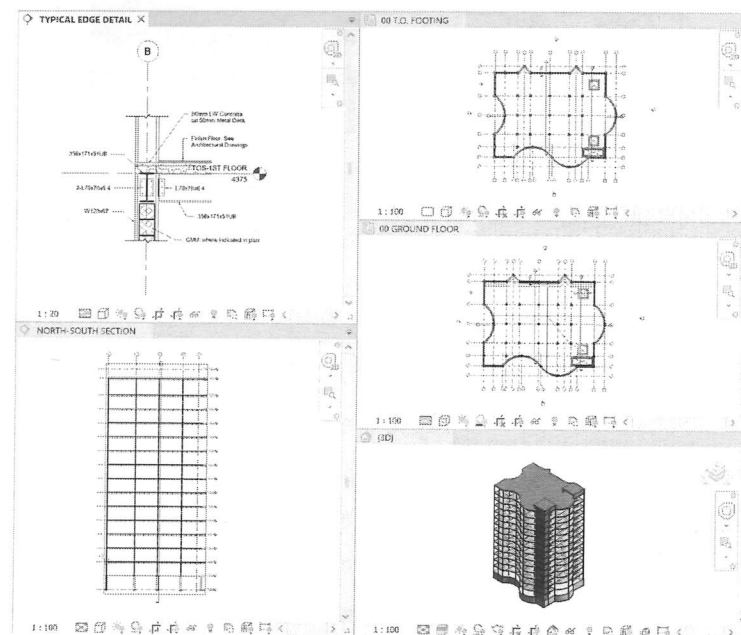

Figure 1–82

3. Click inside the 3D view to make it active.

4. In the *View* tab>Windows panel, click ⬚ (Tab Views). The views return to the tabs and the 3D view is first in the group.

5. In the Quick Access Toolbar, click ⬚ (Close Inactive Views) so that only the current window remains open.

6. Using the mouse wheel, zoom in on the building.

7. Press and hold <Shift> and then press and hold the wheel on the mouse. Move the mouse to dynamically view the 3D model. You can also navigate in 3D using the ViewCube in the upper-right corner of the view.

8. Expand the *File* tab and click ⬚ (Close) to exit the project. Do not save changes.

End of practice