Practice 2a
Start a Project and Link Files

Practice Objectives

- Start a Revit project.
- Link a CAD file.
- Link a Revit file.
- Modify the linked files in a view.

In this practice, you will link both an AutoCAD (.DWG) file as well as a Revit model (.RVT). You will then modify the view properties, as shown in Figure 2–27.

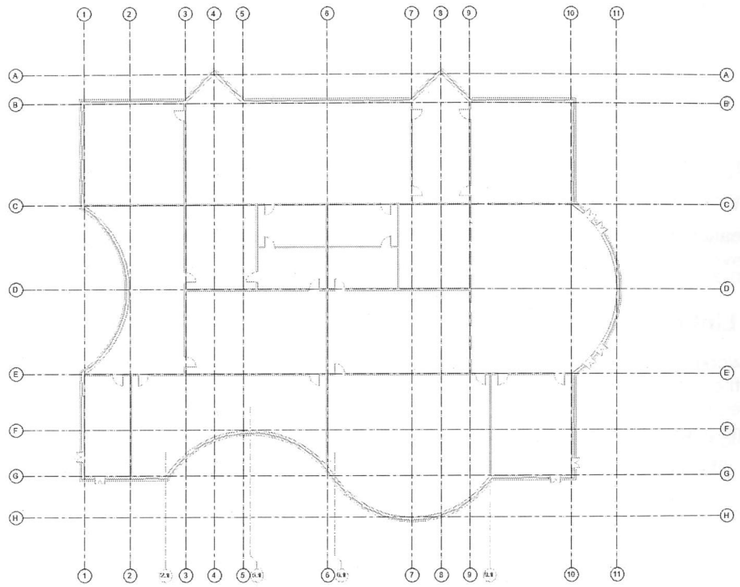

Figure 2–27

Task 1: Start a project.

1. In the *File* tab, expand (New) and click (Project).
   - Alternatively, if you are on the Home screen, click the **New** button under the *MODEL* section.
2. In the New Project dialog box, expand the *Template file* list, select the default **Metric-Structural Template**, and click **OK**. (There are no elements in this file, only datums and basic views.)
   - If you do not have Revit templates installed, open the template from the project files, Template folder.
3. In the Project Browser, open the **Structural Plans: Level 1** view. (The default structural template automatically opens in Level 2. You are importing the **Level 1** floor plan from the AutoCAD file and therefore need to open that view.)
4. Save the project as **Structure-Start.rvt** to the project files folder.

Task 2: Link a CAD file.

1. In the *Insert* tab>Link panel, click (Link CAD).
2. In the Link CAD Formats dialog box, navigate to the practice files *CAD Files* folder and select the file **First-Floor-Structural-Suites-M.dwg**, then set the following options:
   - Select **Current view only**
   - *Colors:* **Black and White**
   - *Layers/Levels:* **All**
   - *Import Units:* **Auto-Detect**
   - *Positioning:* **Auto - Origin to Internal Origin**
3. Click **Open**. The linked CAD file is placed in the project on the **Structural Plans: Level 1** view.
4. Select the linked CAD file. In Properties you can see that it is a single imported symbol and in the view you can see a pin at the center of the CAD file because it was imported origin to internal origin.
5. In the Options Bar, change *Background* to **Foreground**.
6. Right-click on the linked file (also called an import symbol) and select **Override Graphics in View>By Element**.

7. In the View-Specific Element Graphics dialog box, select **Halftone**, as shown in Figure 2–28.

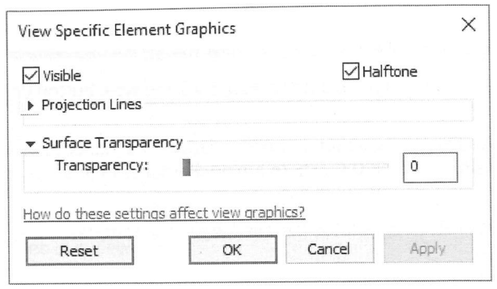

Figure 2–28

8. Click **OK**.
9. Click in an empty space in the view to release the selection.
10. The linked file displays in halftone. Zoom to the extents of the view. (Hint: Type **ZE** or double-click on the mouse wheel.)

    Note: *Use a window selection to select both parts of the elevation markers.*

11. Move the building elevation markers so that they are on the outside of the imported file, as shown in Figure 2–29. Select both parts of the elevation markers.

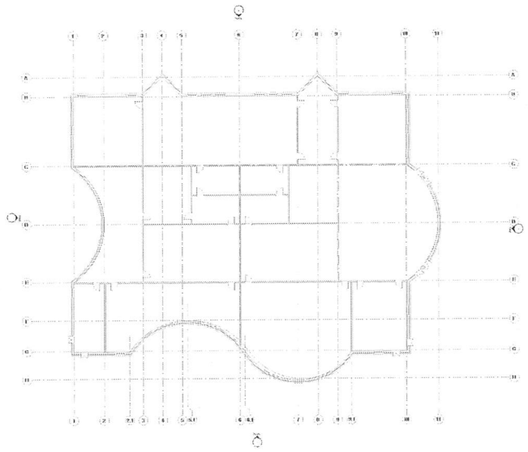

Figure 2–29

12. From the Project Browser, open the **Structural Plans: Level 2** view. The CAD file linked in Level 1 does not display because you specified to link the CAD file with **Current view only** selected.
13. Save the project.

Task 3: Link in a Revit file.

1. In the Quick Access Toolbar, click (Default 3D View), and in the *Insert* tab>Link panel, click (Link Revit).
2. In the Import/Link RVT dialog box, navigate to your practice files *Linked Revit Models* folder and select the file **Arch-Suites-M.rvt**. Ensure that the *Positioning* is set to **Auto - Internal Origin to Internal Origin** and click **Open**.
3. Select the linked model in the view (only grid lines display) and in the *Modify | RVT Links* tab>Modify panel, click (Pin). This will ensure that the linked model will not be accidentally moved in the view.
4. Click in an empty space in the view and zoom to fit the view. (Hint: Type **ZF**.)
5. In Properties, change the *Discipline* to **Coordination**, as shown in Figure 2–30.

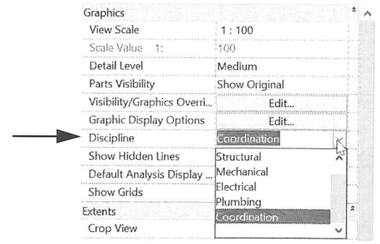

Figure 2–30

6. Click **Apply** or move your cursor into the view to apply changes. The architectural walls now display.

7. From the View Control bar, change the visual style to **Consistent Colors**, as shown in Figure 2–31, to see the walls.

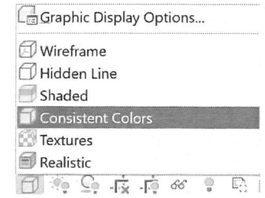

Figure 2–31

8. Save and close the project.

End of practice