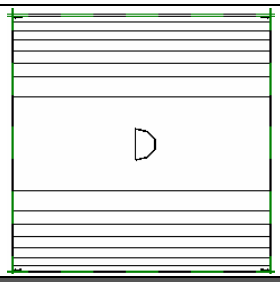
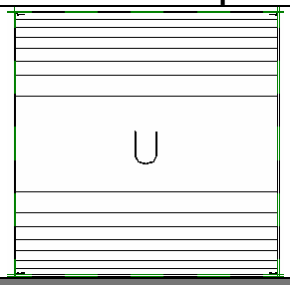
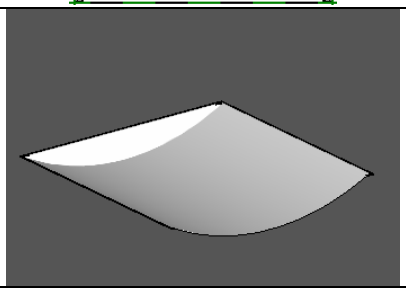
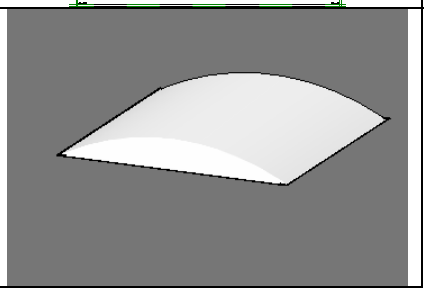
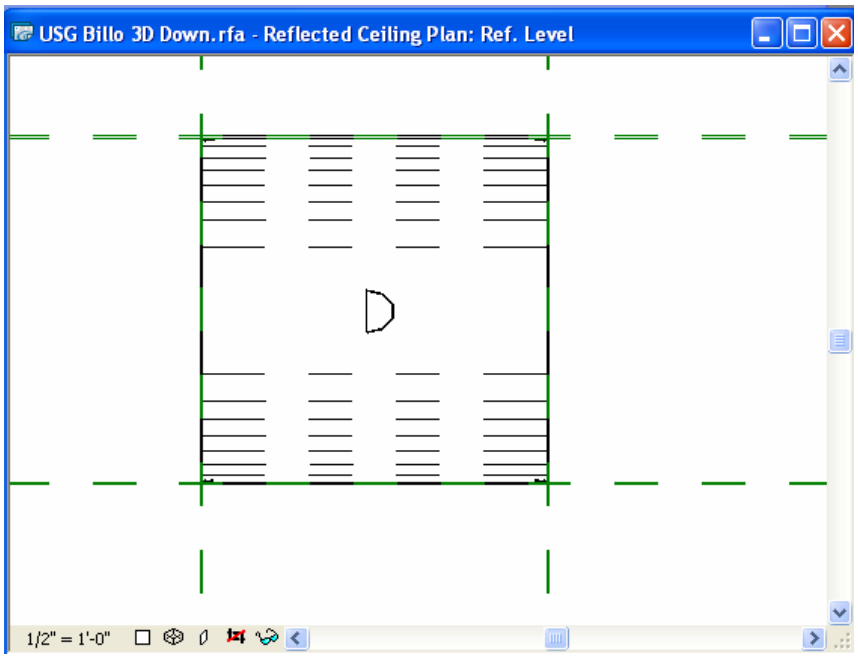
	USG Billo 3D Down.rfa	USG Billo 3D Up.rfa
Ceiling Plan Ref. Level (reflected ceiling plan)		
3D View (visibility settings must be changed)		

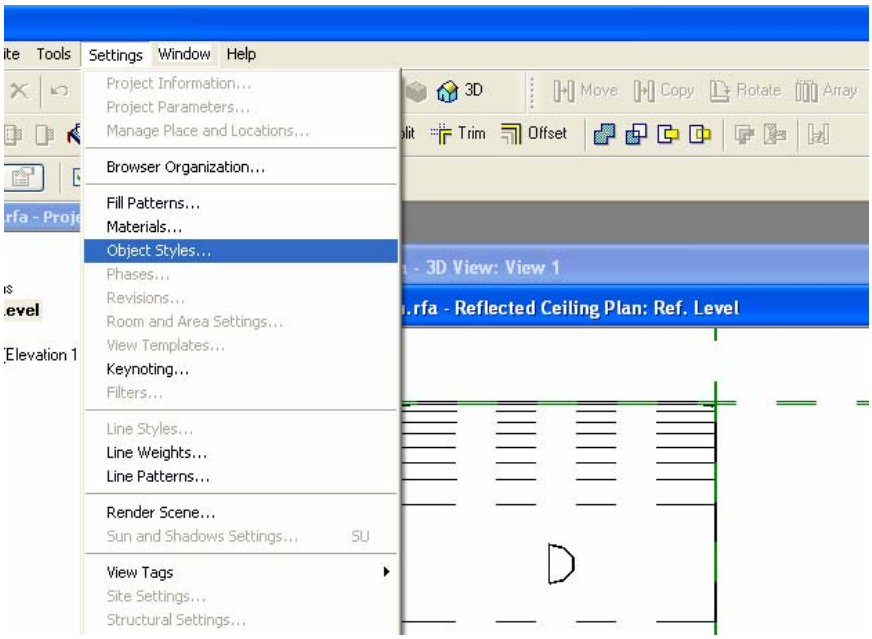
NOTE: If the Billo panel family shows dashed lines in the Reflected Ceiling Plan instead of solid lines, the visibility settings must be changed.

<u>How to change visibility settings for a Billo panel family:</u>

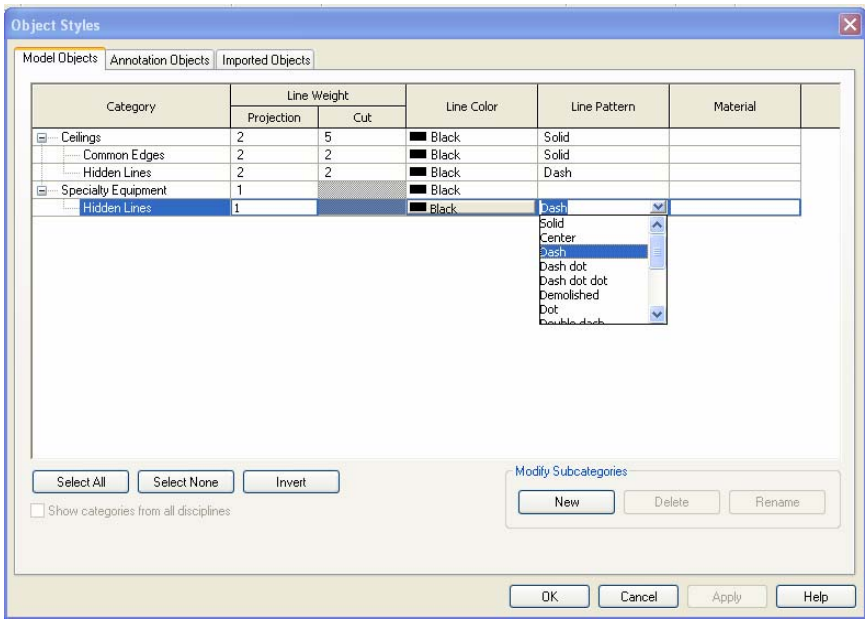
1. Open a Billo family file (for example USG Billo 3D Down.rfa). The **Ceiling Plans Ref. Level** view will look like this *before* changing the visibility settings:



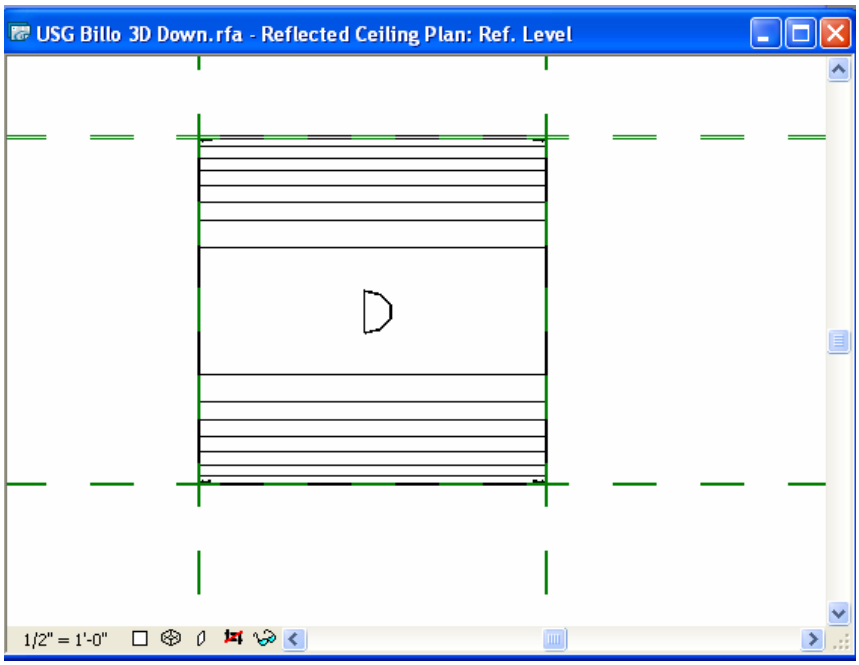
2. Click on **Settings** from the main menu and select **Object Styles…**



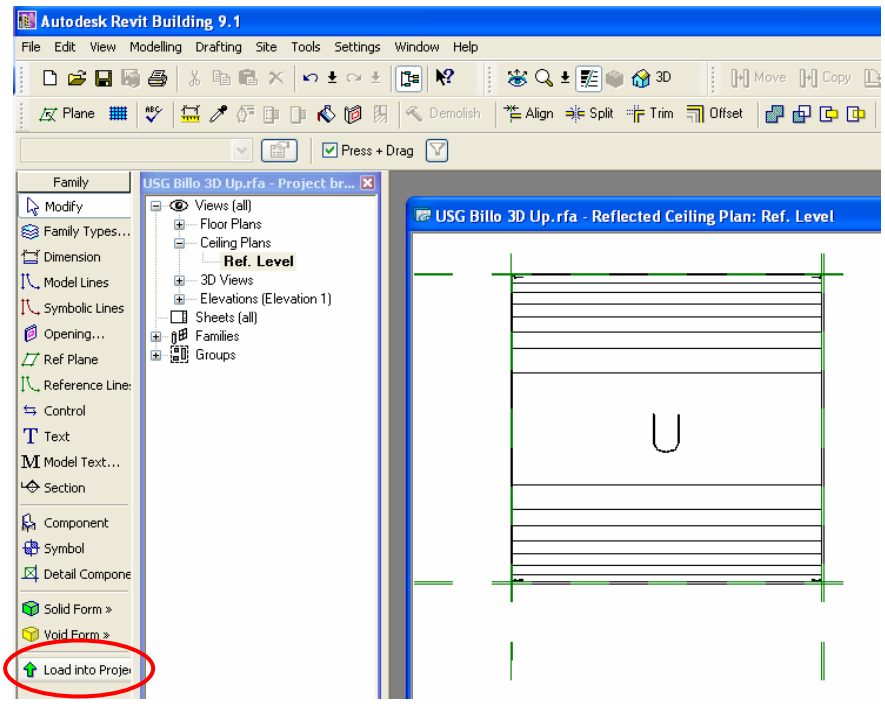
3. In the Object Styles window, find **Hidden Lines** under the **Category** column. Select the drop arrow in the **Line Pattern** column for Hidden Lines and change the pattern from **Dash** to **Solid**.



4. Click **OK** to save. The dashed lines should now be solid lines:

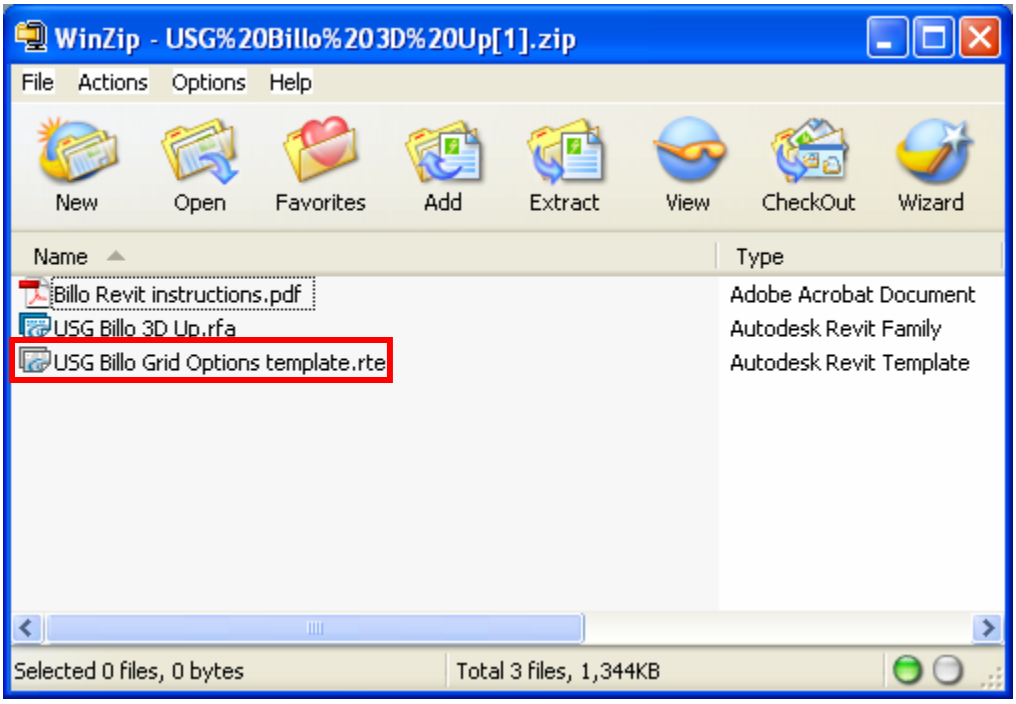


5. Click on the **Load into Project** button to add this family to your project (Revit file for project must be open).

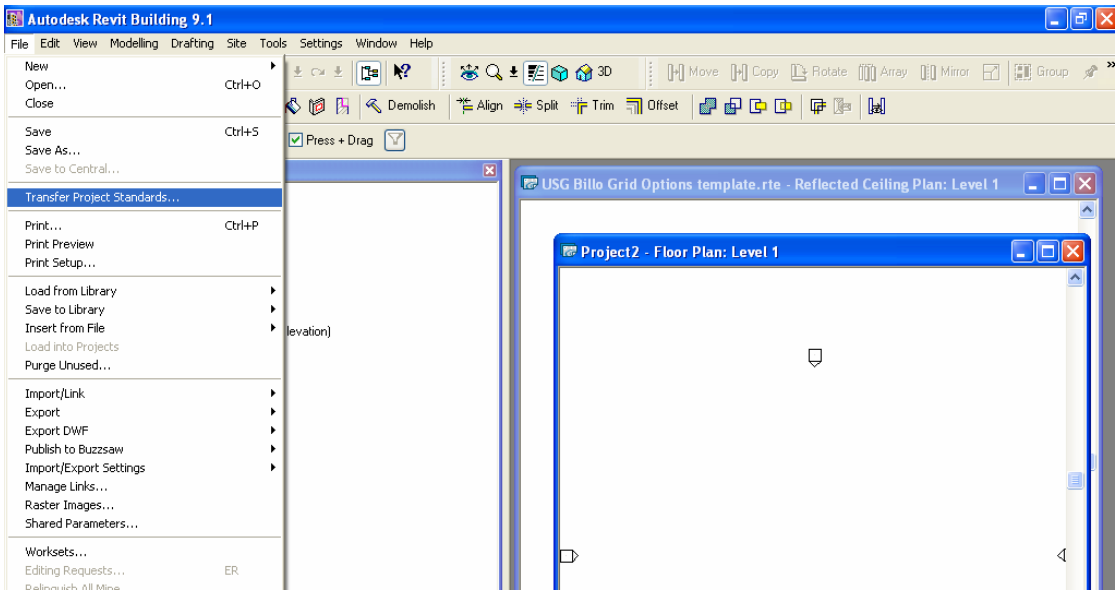


Drawing a Billo ceiling:

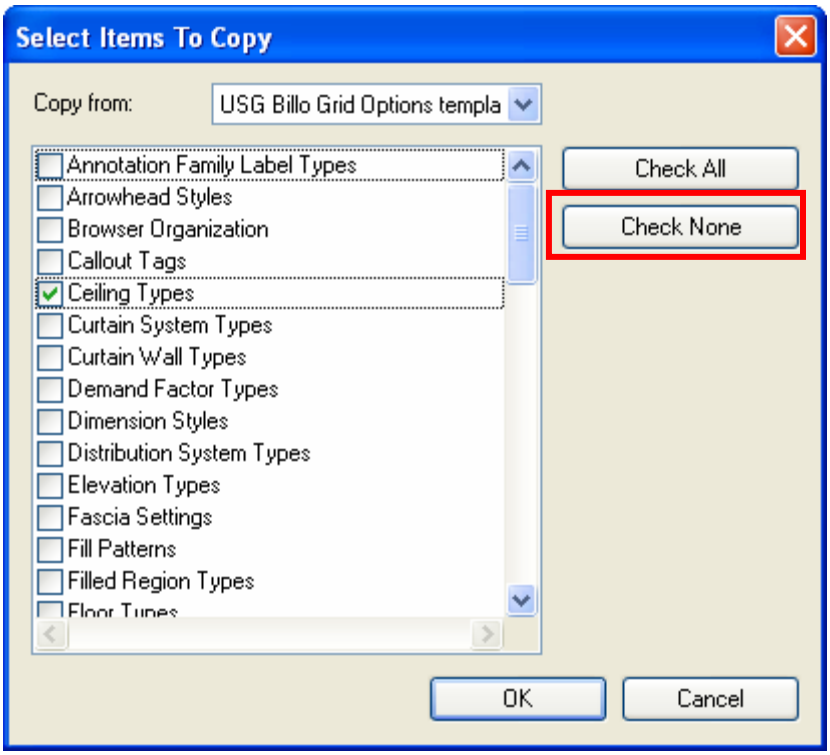
First open the USG Billo Grid Options template.rte file (found in the zip file along with the Billo panel family file).



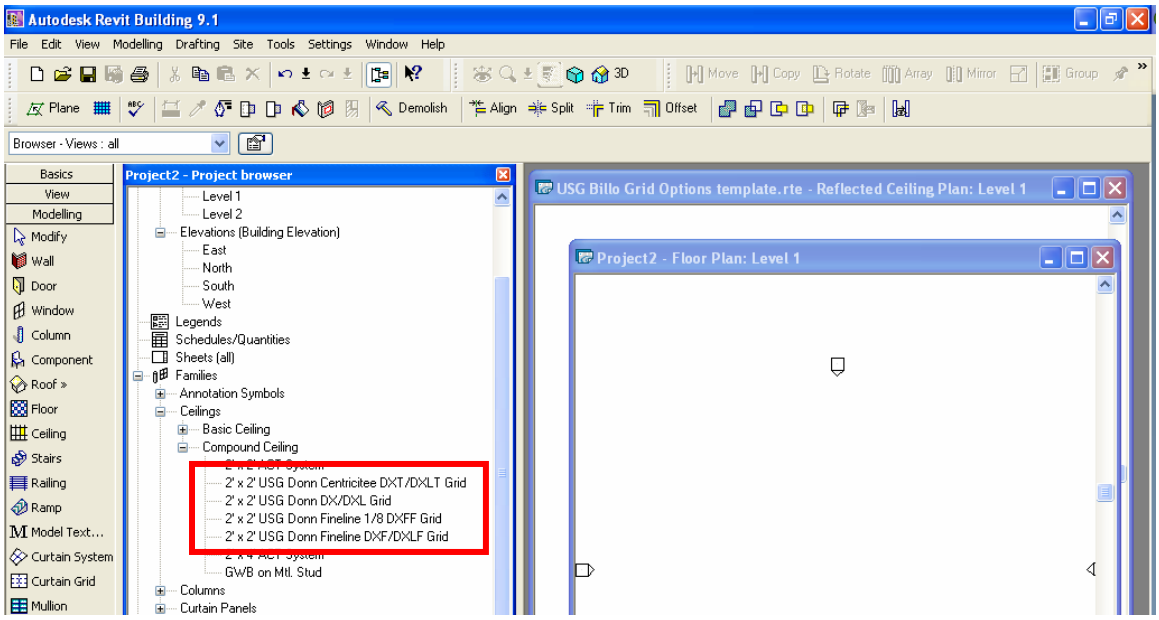
Now open the project file and click on **File** and select **Transfer Project Standards…** (Both files must be open.)



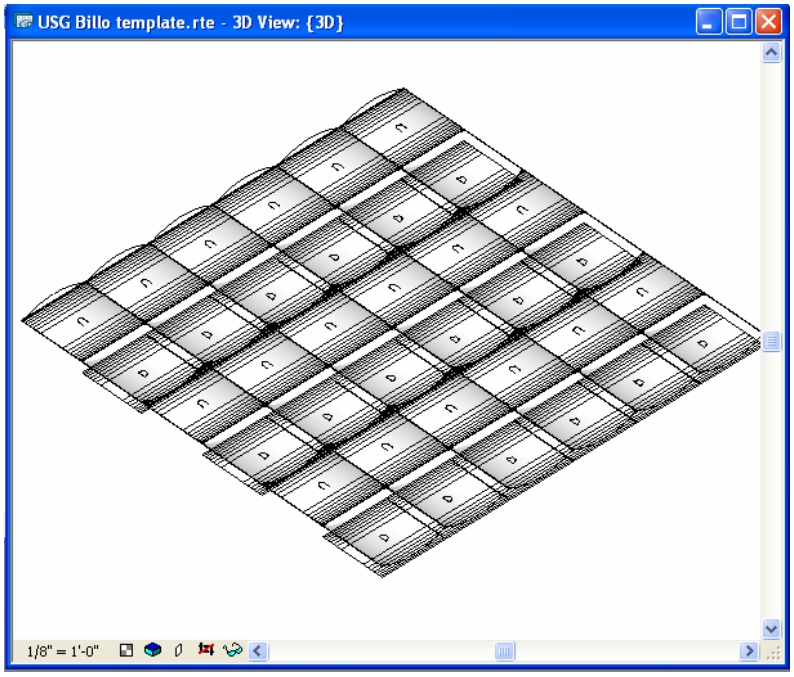
The Select Items to Copy window opens. Click on Check None and check only the box next to Ceiling Types.



The USG ceilings are now loaded in the project.

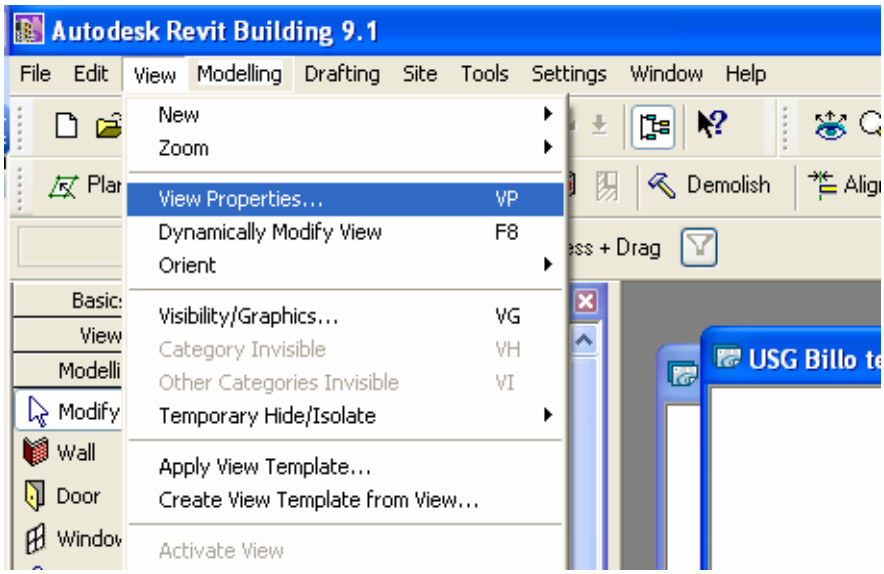


Select the **Ceiling Plans Level 1** view and draw a ceiling using one of the USG ceiling types. Under Modelling, select **Component**. Insert the ceiling-based Billo panel family into the 2x2 USG suspended ceiling system. Select the **3D Views {3D}** from the Project browser. A 3D view will look like this unless the visibility settings are changed:

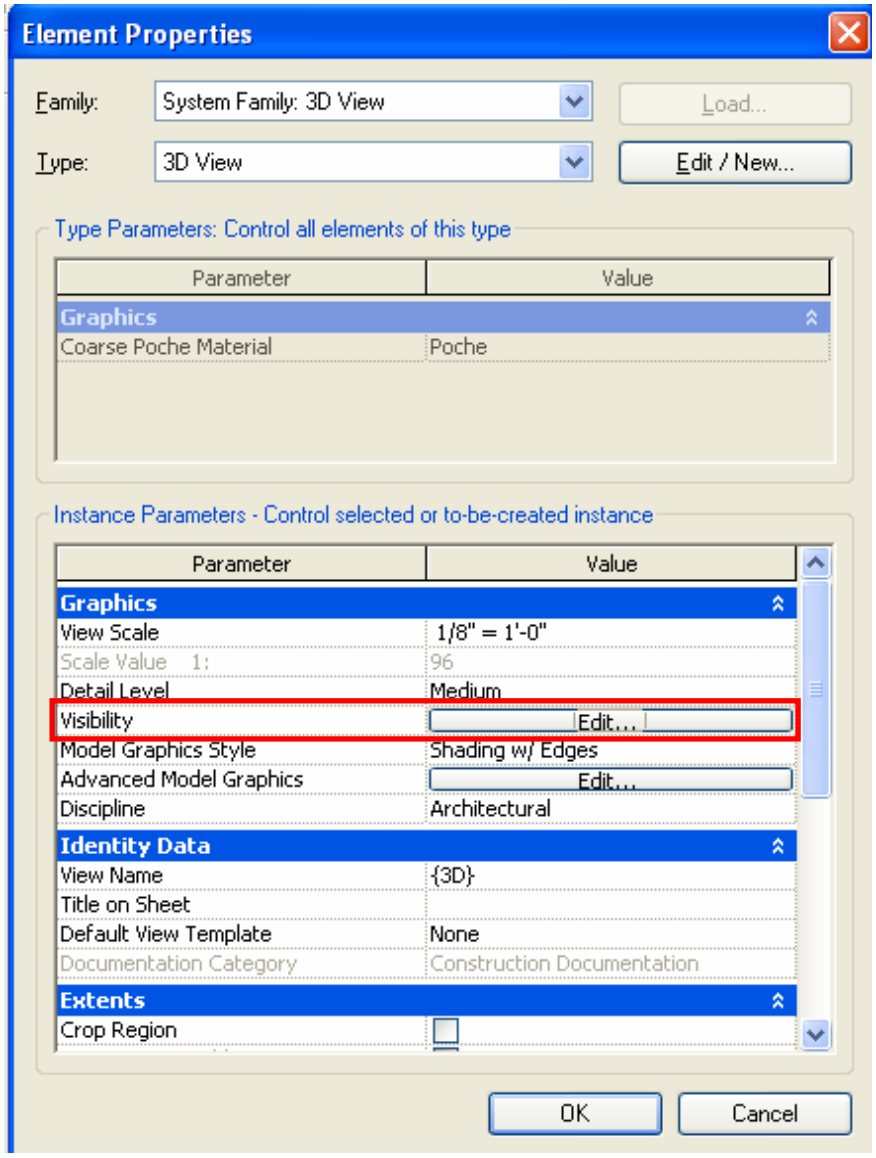


<u>How to change visibility settings in a project for a 3D view of the Billo system:</u>

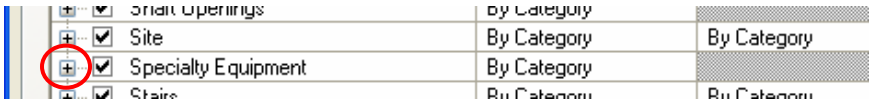
1. Click on **View** from the main menu and select **View Properties…** or type "vp" on the keyboard.



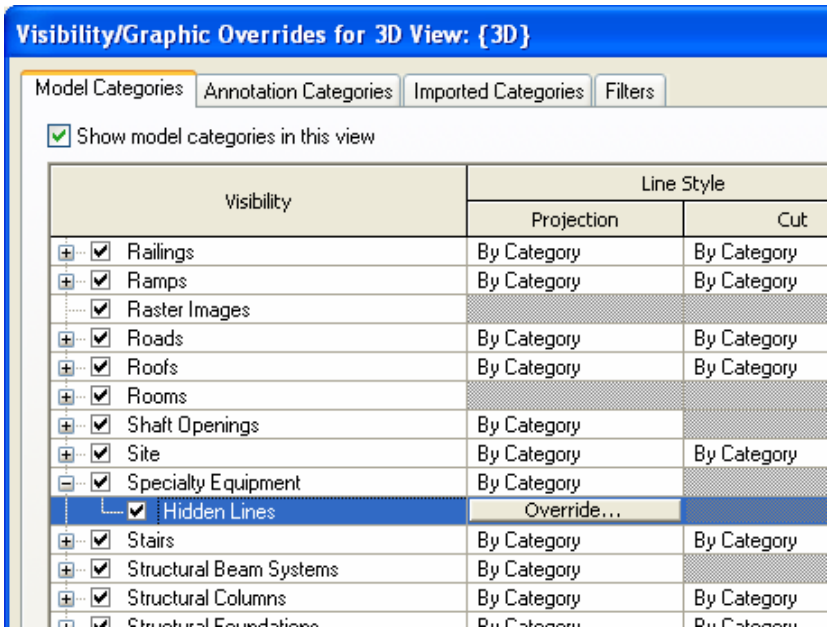
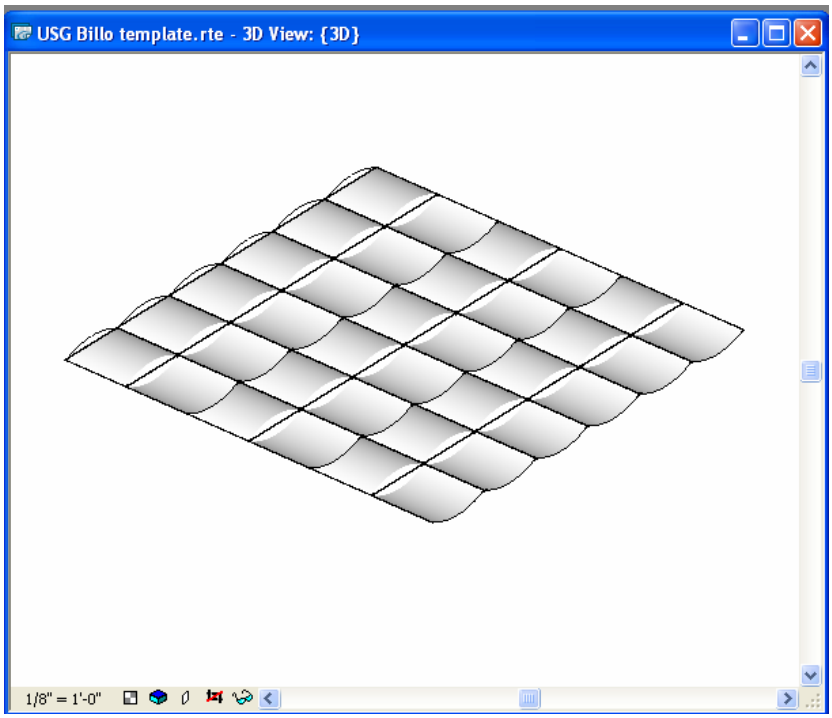
2. From the Element Properties window, click on **Edit…** in the Value column next to **Visibility** in the Parameter column.



3. The Visibility/Graphic Overrides for 3D View: {3D} window will then open. Scroll down to find **Specialty Equipment** under the Visibility column and click on the plus sign.



4. *Uncheck* **Hidden Lines** below Specialty Equipment. Click **OK** to save.



5. Click **OK** to get out of the Element Properties window. The 3D View should now look like this: