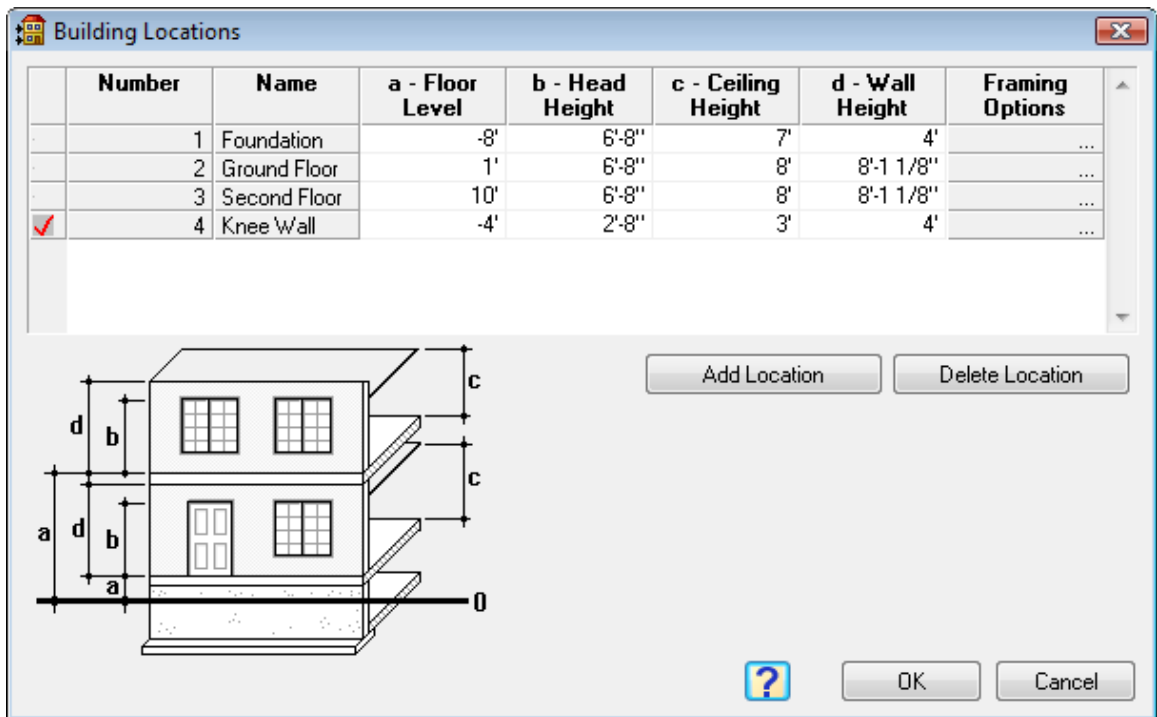


Creating a Knee Wall

In Envisioneer, two walls on the same location cannot rest directly on top of each other. Below is a sample exercise that shows you how to create an exterior knee wall that bears above a foundation wall.

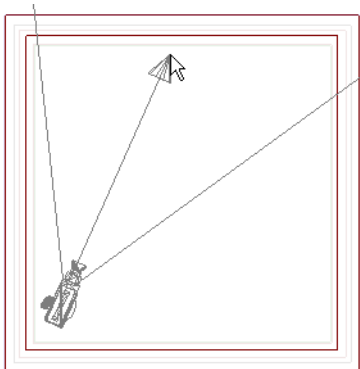
1. With a new drawing open, select **Settings > Building Locations**. For this example we will edit the Foundation location, and add a new Knee Wall location.
2. In the **Building Locations** dialog, click on the **Foundation** location name. A red check mark next to the location name indicates that it is now the current location.
3. Make sure the **Floor Level** value is set to **-8'**, and leave the Head Height setting as is.
4. Change the **Ceiling Height** to **7'**.
5. Change the **Wall Height** to **4'**. We're reducing the wall height by half because there will be knee walls sitting on top of these walls.
6. Click the **Add Location** button. A new location will appear at the bottom of the list with the name <Default>.
7. Click on the name <Default>. Type **Knee Wall** and press the Tab key.
8. Specify a **Floor Level** of **-4'**, then press the Tab key.
9. Specify a **Head Height** value of **2'-8"** and press the Tab key. A 2'-8" head height on the raised 4' Knee Wall location will equate to a normal 6'-8" head height for openings on the Foundation location.
10. Change the **Ceiling Height** to **3'** and press the Tab key.
11. Change the **Wall Height** to **4'**. Your location settings should now look like this:



Number	Name	a - Floor Level	b - Head Height	c - Ceiling Height	d - Wall Height	Framing Options
1	Foundation	-8'	6'-8"	7'	4'	...
2	Ground Floor	1'	6'-8"	8'	8'-1 1/8"	...
3	Second Floor	10'	6'-8"	8'	8'-1 1/8"	...
✓ 4	Knee Wall	-4'	2'-8"	3'	4'	...

12. Click **OK**. The Knee Wall location is the current building location.

13. Select **Insert > Walls > Walls**.
14. In the catalog, select the **2 x 6 Clay Brick Veneer** in the **Brick Veneer** folder.
15. Draw a 10' x 10' building.
16. From the building location drop box, select the **Foundation** location to make it the current location. The walls on the Knee Wall location are dimmed.
17. Select **Insert > Walls > Walls**.
18. In the catalog, double-click the **Concrete** folder to open it, then open the **Poured Concrete** folder and select the **8" Concrete Wall**.
19. Using the dimmed walls of the Knee Wall location as a guide, insert the foundation walls.
20. Select **View > 3D Cameras > Place New Camera**.
21. Insert a camera inside the layout and specify a target to create an interior 3D view.



22. To remove the automatic floor that was created when you drew the knee walls, click on the floor surface to select it, then press the Delete key on your keyboard.
23. To remove the baseboards from the bottom of the knee walls, return to 2D plan view, select all the knee walls, then right-click and select **Properties**. In the **Walls** dialog, select the **Trim** tab. With *Left Interior Surface* selected in the *Application* drop box, click on the **Baseboard** entry, then click **Delete**. Repeat for the *Right Interior Surface*.

The knee wall construction is complete.

