**Starting a New Project: Creating Grids**

**Overview:**
The building envelope is 50' 8" x 72' 8"
We will be adding the column grids as follows:
*All first column grids are 2' 4" from the envelope*
*The horizontal grids are 4 bays @ 17' each*
*The middle vertical bay is a clear span of 48'*

**Place Grid:**
Select Home > Grid

**Place Grid:**
Select Pick Lines and set the offset to 2' 4". Select all 4 edges. Set offset to 17' and add horizontal grids

**Rename:**
Rename the vertical lines to be the number 6 & 7

**Rename:**
Rename the horizontal grid lines F, G, H, J, K starting from the bottom up. Skip the letter "I"
### Starting a New Project: Editing Grids

<table>
<thead>
<tr>
<th>Edit Name</th>
<th>05.03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the Grid Label. Change the label from &quot;10&quot; to &quot;A&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Display:**
You can toggle the bubble display by checking off or on the box.

**Elbow Offset:**
As with Level Bubbles you can add an elbow to a column grid.
Click on the small tilde ~ and add an elbow offset. Drag the grips to shift it over to be readable.

**2d vs. 3d:**
3d - all grids align. Toggle to 2d to set "View Specific Extents" to offset the alignment. Move bubble

**Bubble Gap:**
You can change the element style to "Bubble Gap" and the line will not display across the bldg

**Propagate:**
After you have finished making editing changes you can propagate these modifications to other views.

Select all of the views you wish to update. The modifications will now be visible in other views.
Additional Grid Types

Arc Grids: Select Home > Grid > Start-End-Radius Arc or Center-ends Arc

Editing Arcs: You can toggle the bubble display or edit the radius of the Arc

Line: You can draw a grid line at any angle

Editing Lines: You can toggle the bubble display or edit the angle of the Line
Creating a Column Grid Array

**Line:**
Draw the first grid line using the Line option  
*Home > Grid > Line*

**Array:**
Select the Grid Line then select the Array Command

**Radial Array:**
Choose Group and Associate, leave the number at 3 and set move to at Last

**Array Steps:**
Select the grid line  
Drag and relocate the array center

Select the array start point  
Drag the array rotation to 180 degrees

Change the number of items from 3 to 7  
The array automatically uses letters Q to R