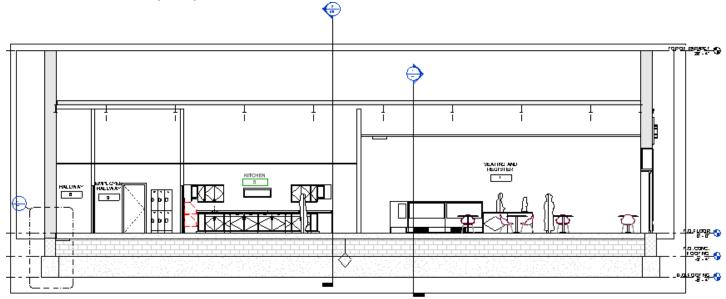
## **Commercial Schematic Building Section**

A building section shows a view along an imaginary line cut through the building, indicating structural and construction elements. However, unlike your home building sections which showed the wall, floor and roof construction (*drafting of top plates, wall studs, headers, etc*) of how the building was put together a schematic building section shows these parts as "masses". Often the walls, floor, and roof areas are hatched in solid.



Directions:

- 1. Cut two building sections through your building. One going in the North-South direction, the other in the East-West direction. Set your scale at  $\frac{1}{4}$ " = 1'-0".
- 2. Adjust the elevation dimensions as needed so they are aligned and near the building.
- 3. Make sure your walls are shown with a hatch within them. If they are not turn it on within the properties, under the **Graphics- Course Scale Fill Pattern**

Family: Sys	stem Family: Basic Wall		~	Load
Type: Ext	terior Brick on CMU-Partridge Creek	~	Duplicate	
				Rename
Type Parameters				
		Parameter	Value	= ^
Construction				*
Structure			Edit	
Wrapping at Ins	erts		Do not wrap	
Wrapping at End	ds		None	
Width			1' 7 7/8"	
Function			Exterior	
Graphics				*
Coarse Scale Fill Pattern			Diagonal crosshatch-small	
Coarse Scale Fill	Color		Black	
Materials and F	inishes Coarse Scale Fill Pattern			*
Structural Mater			Concrete Maconey Hait	
Analytical Prop	erties			\$
Heat Transfer Coefficient (1)			0.0552 BTU/(b.ft <sup>2</sup> .°F)	

- Heat Transfer Coefficient (U)
  Add the room names and numbers, designating the spaces.
- 6. Create "Call-Outs" at the location where **construction details** will be done.
- 7. Set up the two building sections on a sheet.
- 8. **Formative Check**: Plot an A-sized sheet (fit to page). Have someone red-mark your elevations. Fix redmarks and reprint the A-size sheet into teacher for red-marks.
- 9. Summative Check: Pick up red-marks from Formative Check. Re-plot on A-size sheet (fit to page) and submit for review along with old red marks.

Standards Used:

Develop a building section (m7) Demonstrate knowledge of schematic drawings (k2) Utilize computer technology when communicating concepts and designs.(f3)

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