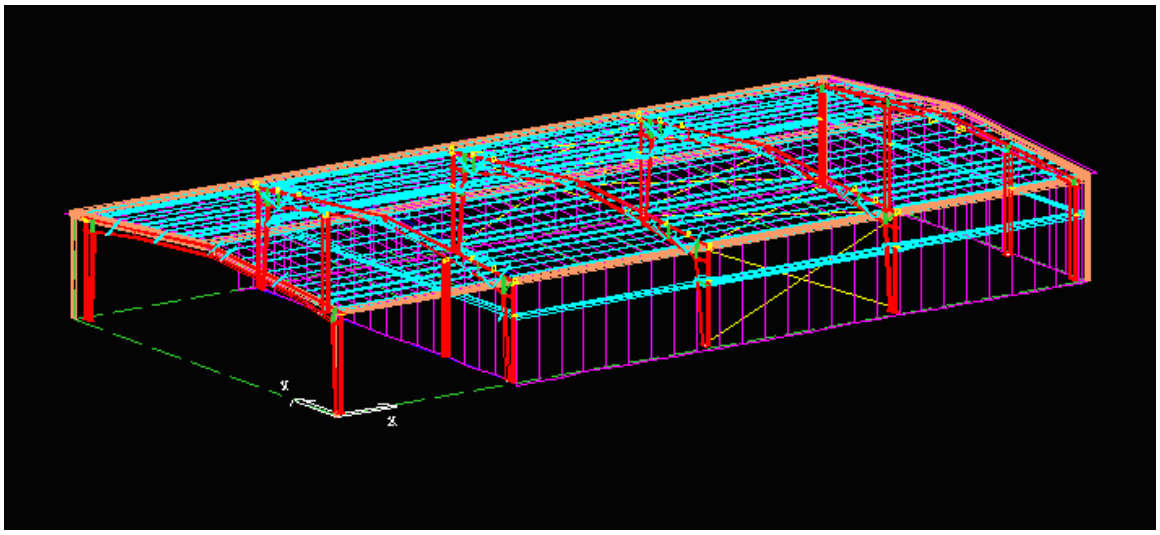
The Focus of this Lesson is:

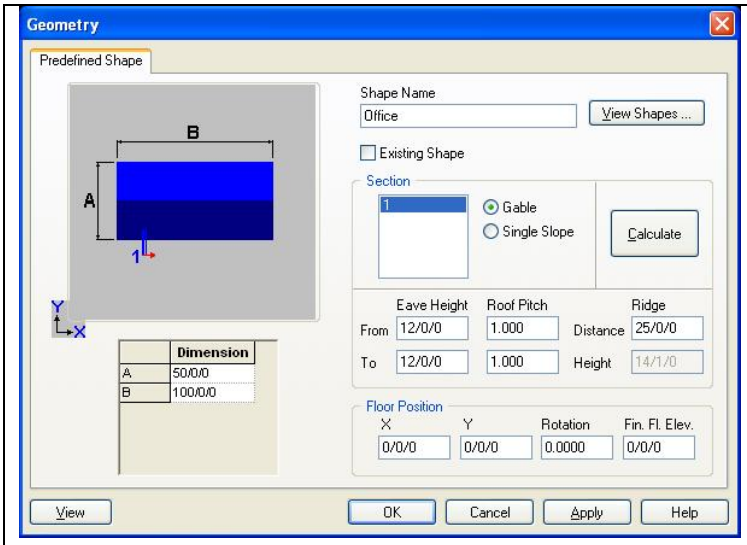
- *Inputting Partitions Widthwise for an Open End bay condition)*

Lesson Comments:

This lesson will discuss the procedure for inputting Partitions, running the width of a Building to create an ***Open End Bay Condition***. The basic components of a partition wall are: Primary Framing (Endposts), Secondary (Girts), Sheeting, and Trim. *Note that you MUST input the* ***partition wall BEFORE locating the frame*** *it is associated with.*

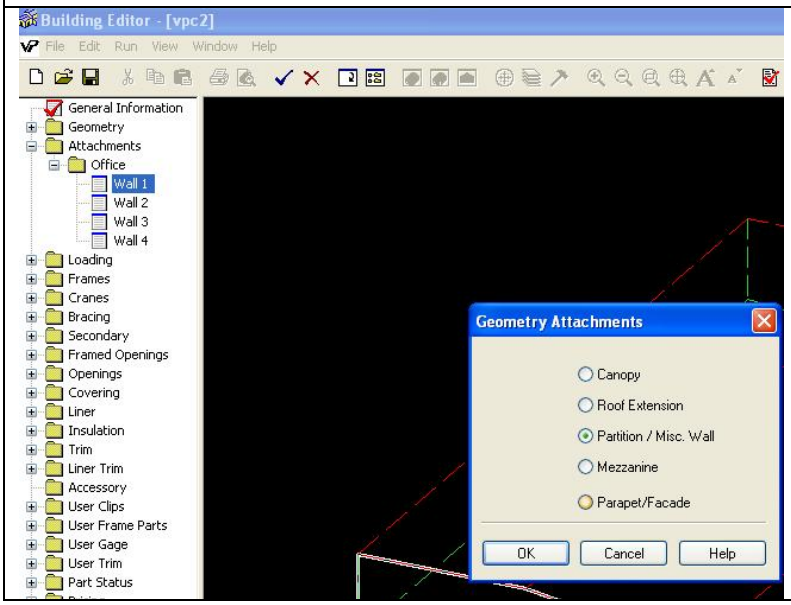
When you are making a width partition parallel to an endwall, the covering direction may have to be modified if it is a partial span partition. For example if you have a partial span partition with a single slope, the *covering direction* (at the Covering folder for the Partition) would have to be changed from peak out to left to right (or right to left).





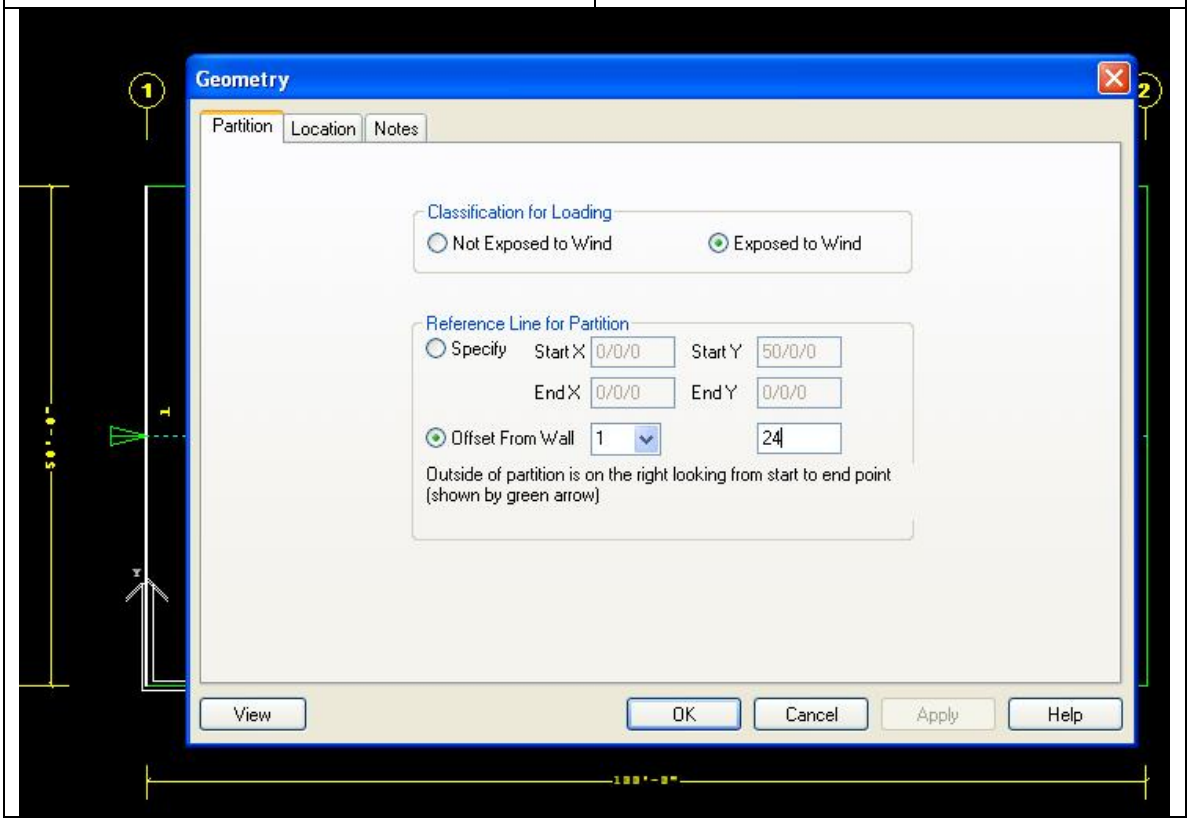
1. ***Input Building Shape***
2. Input a Building 50 x 100 x 12, 1:12 roof pitch. Note that these are the default dimensions for the rectangular shape

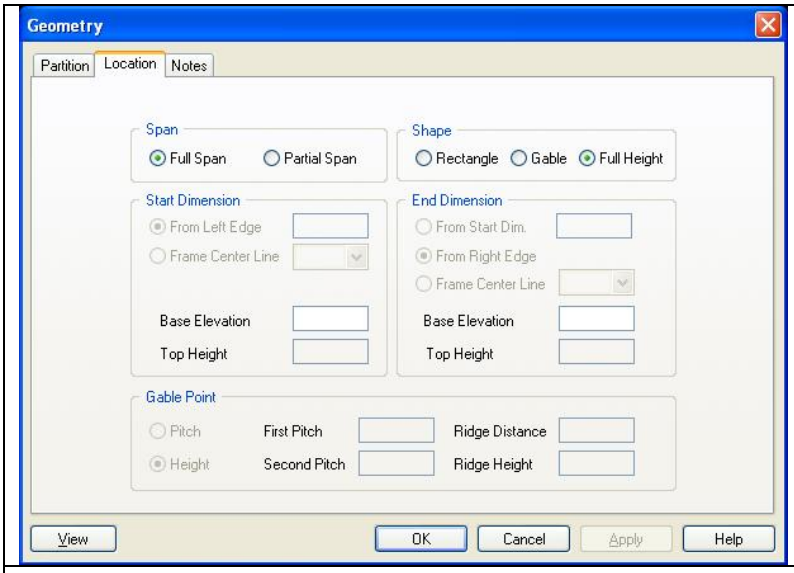
3. ***Input Partition Wall:*** Remember that you input the Partition Wall before you input the frame. This will allow the Frame to recognize the Partition wall.



4. From the ***Tree*** Select; ***Attachments / Your Shape /double-click Wall 1*** (the wall the partition will be dimensioned from).
5. At the ***Geometry Attachments***, click on ***Partition / Misc. Wall***.
6. Click on ***OK***.

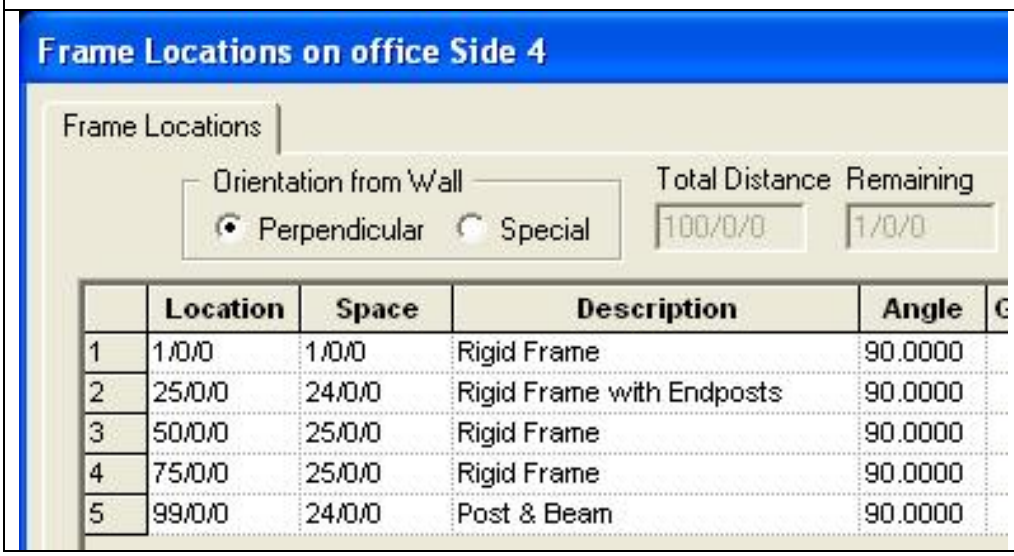
- ***Classification for Loading*** field will be ***Exposed to Wind*** as this is an interior wall, but exposed to wind.
- At the ***Reference Line for Partition field***, the ***Offset From Wall*** will be ***1*** (your selected wall). Note that this is shown in the Graphics Pane by a ***Green Arrow***. The arrow points to the side that would be the finished (colored) side of the wall. You can place Liner panel on this wall if you desire both sides to be sheeted. The Green Arrow also points to the side of the wall that will receive wind.
- Input a dimension of ***24*** to locate the partition one foot off of the frame at 25 feet to create an outset condition. *Note that you are dimensioning to the outside face of the girt (backside of Panel).* This calculated as follows: ***25*** feet to second frame *minus* ***1'-0***" (standard endwall offset for outset condition) you may also use 6" for inset. See the ***Section at Partition*** detail at the end of Step 4.
- Click on the ***Locations*** tab.



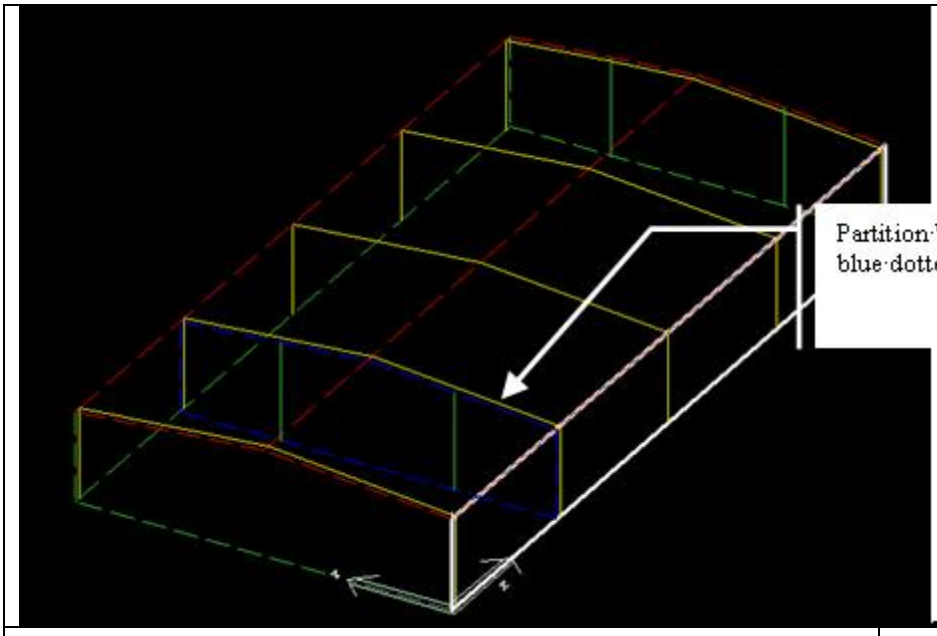


- At the ***Locations*** tab, make sure ***Full Height*** is click on.
- Note that you have many options for defining your partition at this tab, Partial Span, Partial Height, as well as a Gable option.
- Click on ***OK*** to close the window and accept your input.

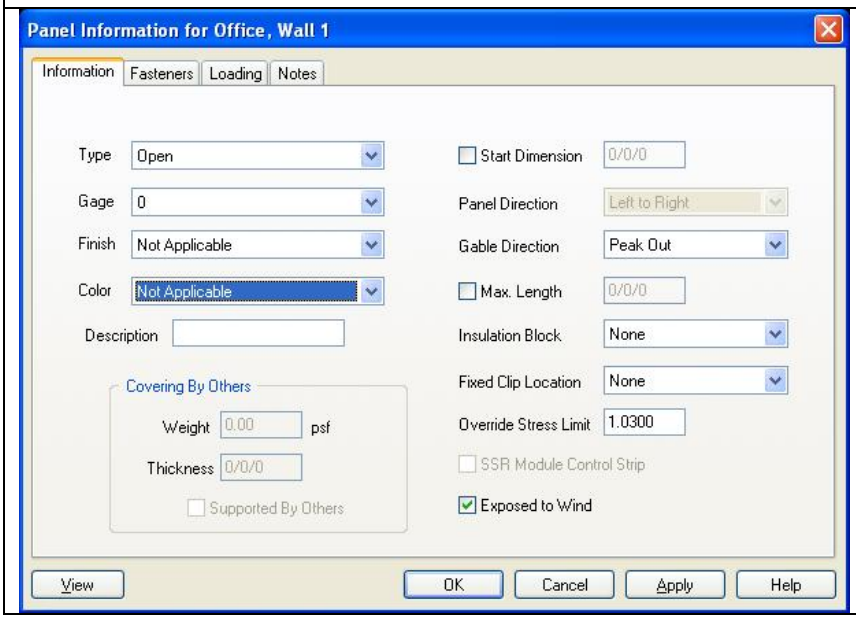
3. ***Locate Primary Framing:*** Locate Frames along Wall 4 as shown below for Outset walls, 25'-0" bays. Note that the frame at the 25'-0" location will be a Rigid Frame with Endposts for Partition Wall. Also, the End frame at the open end bay cannot be a Post and Beam. You must changes this to a moment resisting frame, such as the Rigid Frame shown.



	Location	Space	Description	Angle
1	1/0/0	1/0/0	Rigid Frame	90.0000
2	25/0/0	24/0/0	Rigid Frame with Endposts	90.0000
3	50/0/0	25/0/0	Rigid Frame	90.0000
4	75/0/0	25/0/0	Rigid Frame	90.0000
5	99/0/0	24/0/0	Post & Beam	90.0000

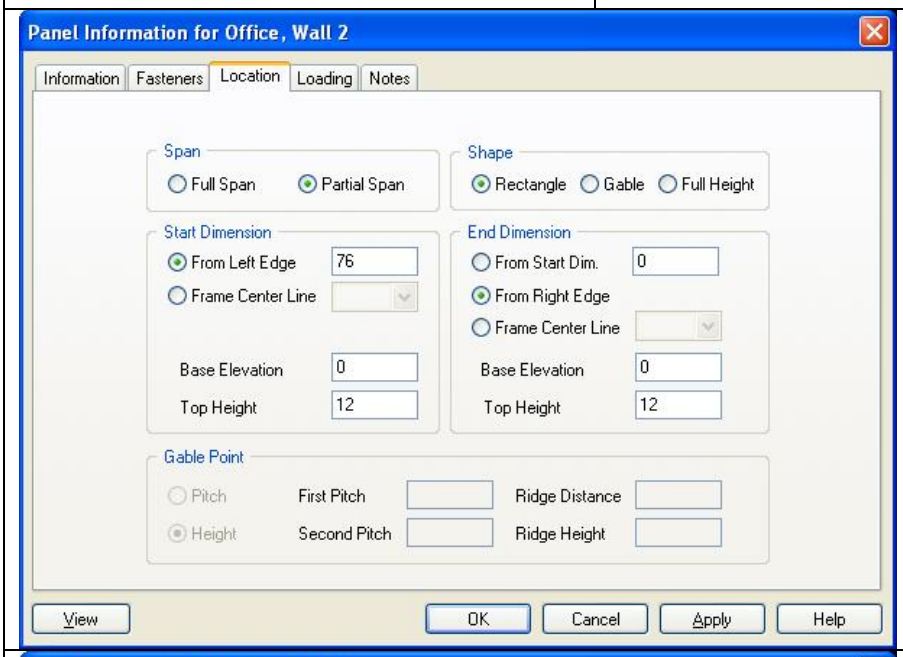


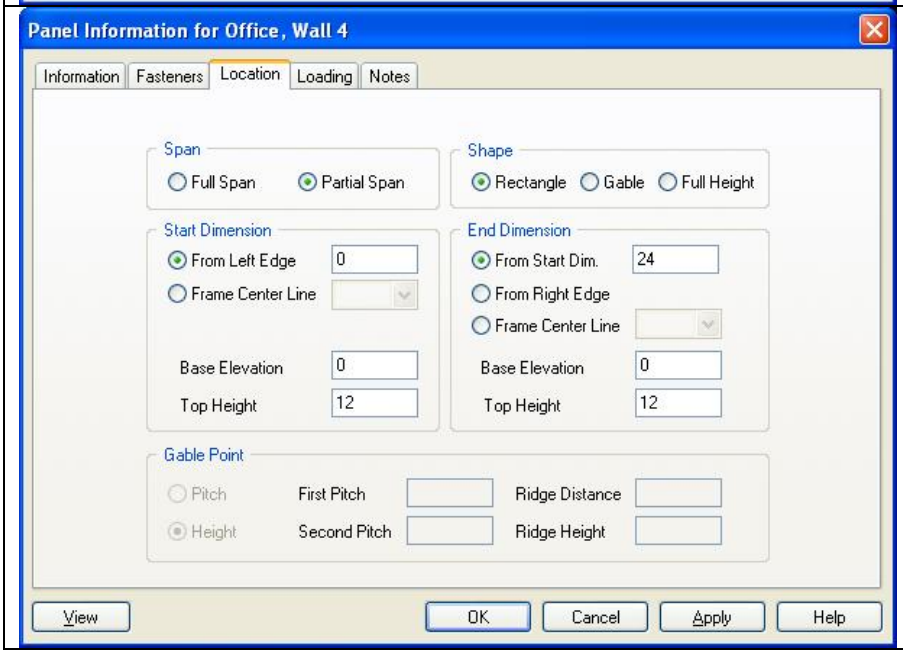
4. ***Open the End Bay:*** You will use ***Covering Definitions*** of "***Open***" to remove the unwanted material and open the end bay.

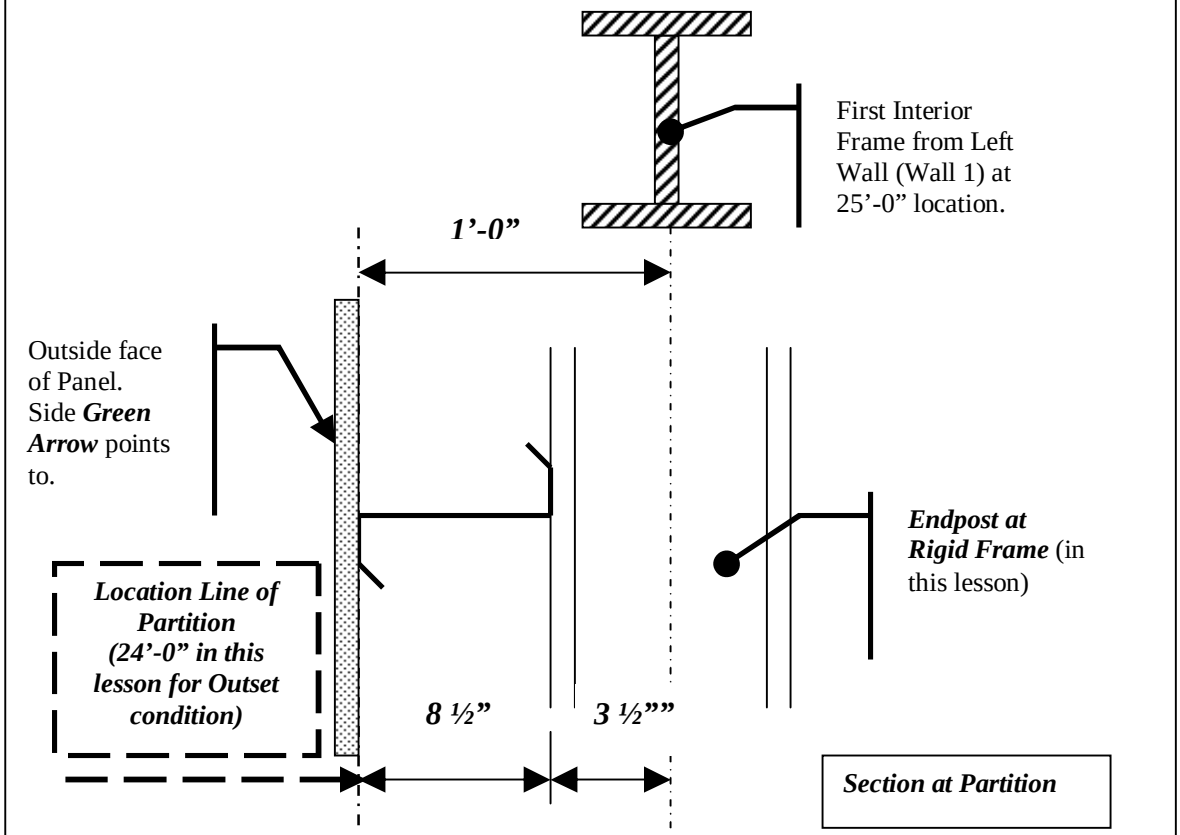


- From the Tree open the ***Covering / Default Information / your Shape / Wall 1/Main Covering Definition.*** We can use this because the entire wall is open.
- At the ***Type*** field, select ***Open.***
- You may input a ***Description*** if desired.
- Click on ***OK.***

	• Repeat these steps for ***Walls 2*** and ***4***, except select ***Insert a New Covering Definition*** and go to the ***Location*** tab for these walls. • You will locate the Covering definition of Open as ***Partial Span*** at the Locations tab. • Remember that you are removing material from a 24 foot section of each wall at the first end bay.







Complete a -Run and any Reports and/or Drawing as desired