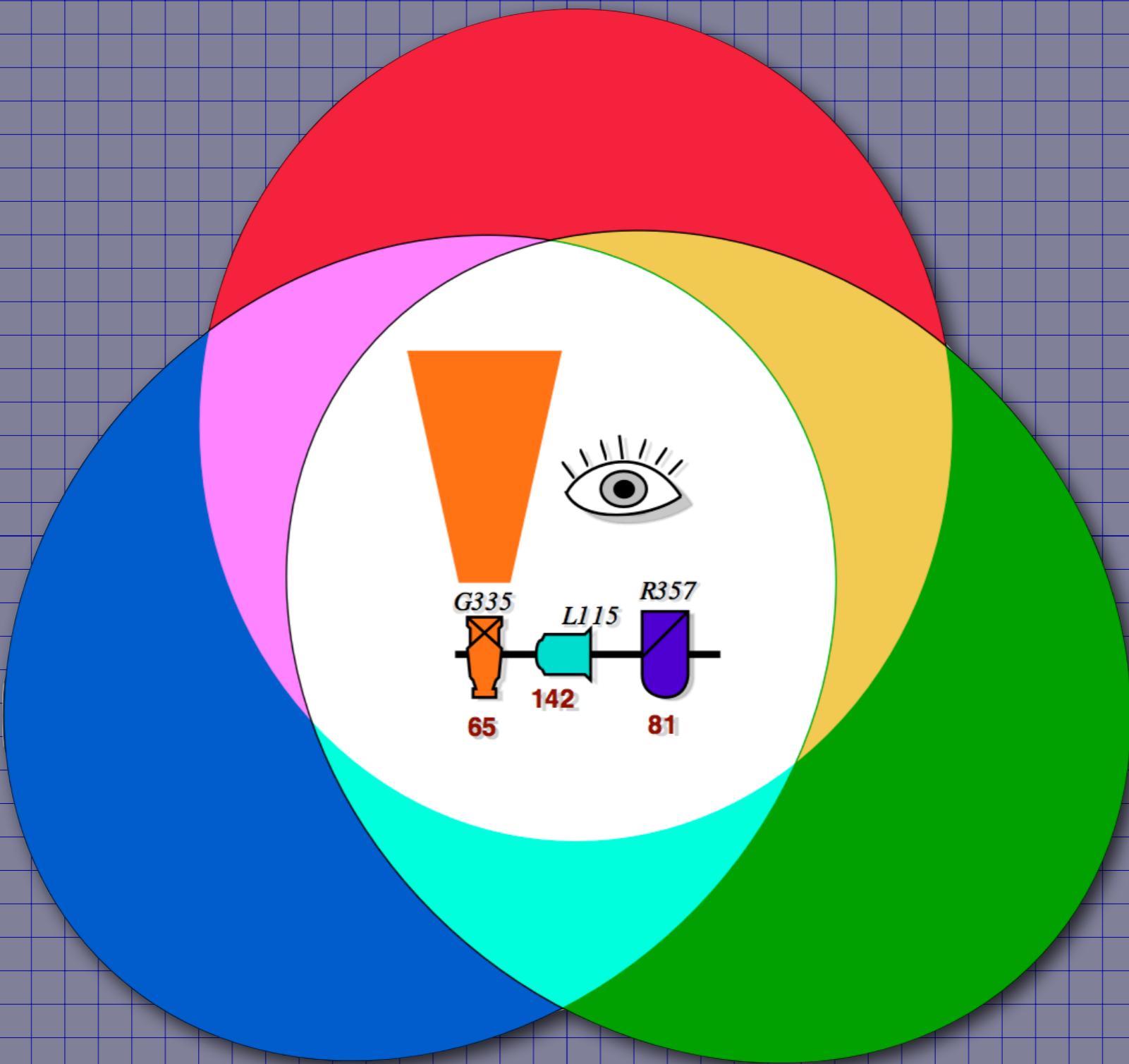


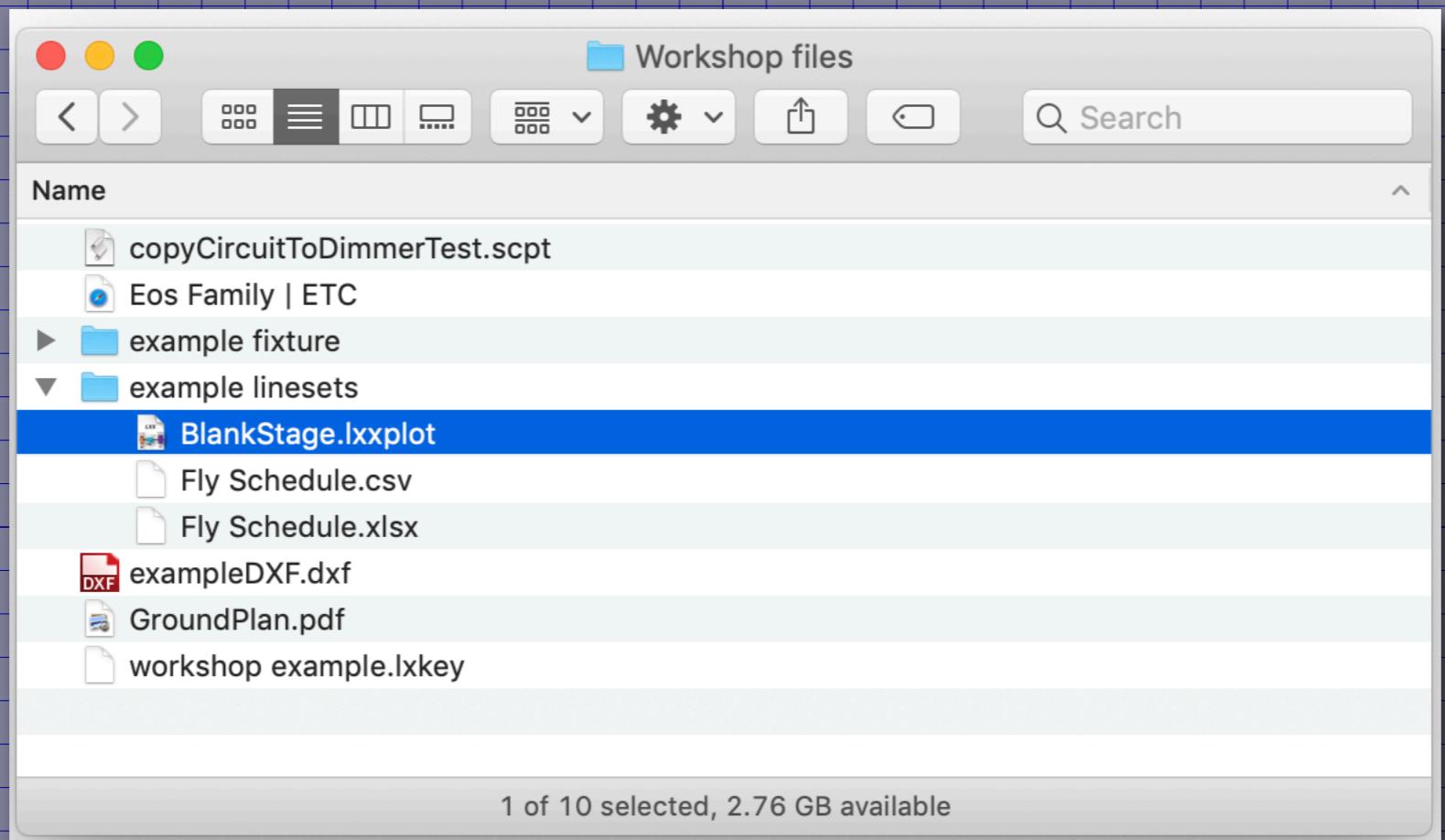
More Import/Export



IATSE 728 Workshop 2020

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In the Workshop Files folder, find “example linesets”.



Open the BlankStage file.

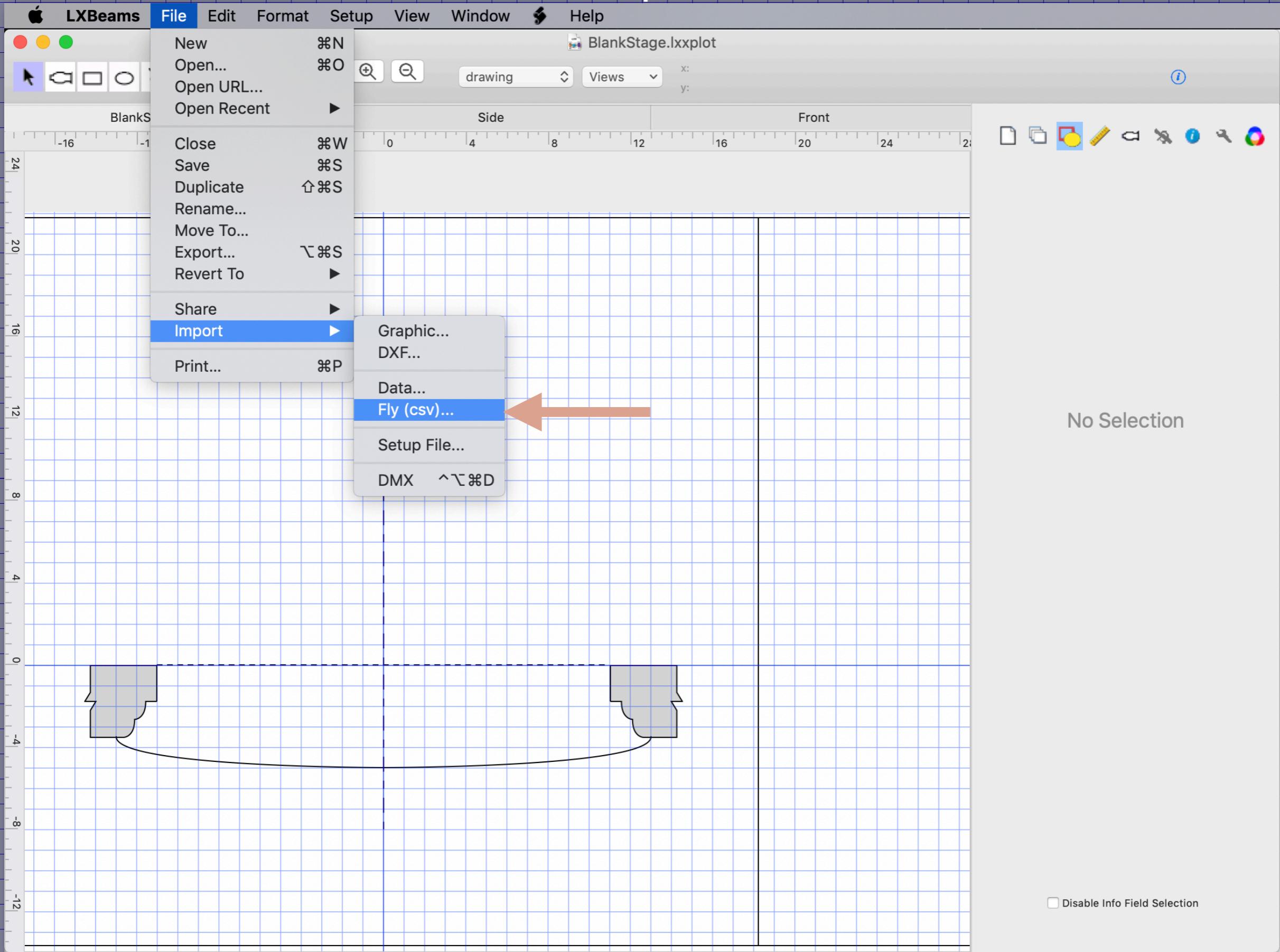
This is a spreadsheet with a fly schedule (and additional layout information).

The screenshot shows a Numbers spreadsheet window titled "Fly Schedule — Edited". The menu bar includes File, Edit, Insert, Table, Organize, Format, Arrange, View, Share, Window, and Help. The toolbar features View, Zoom, Add Category, Insert, Table, Chart, Text, Shape, Media, and Comment tools. The sheet tab "Sheet 1" is selected. The main content area contains a table titled "Fly Schedule" with the following data:

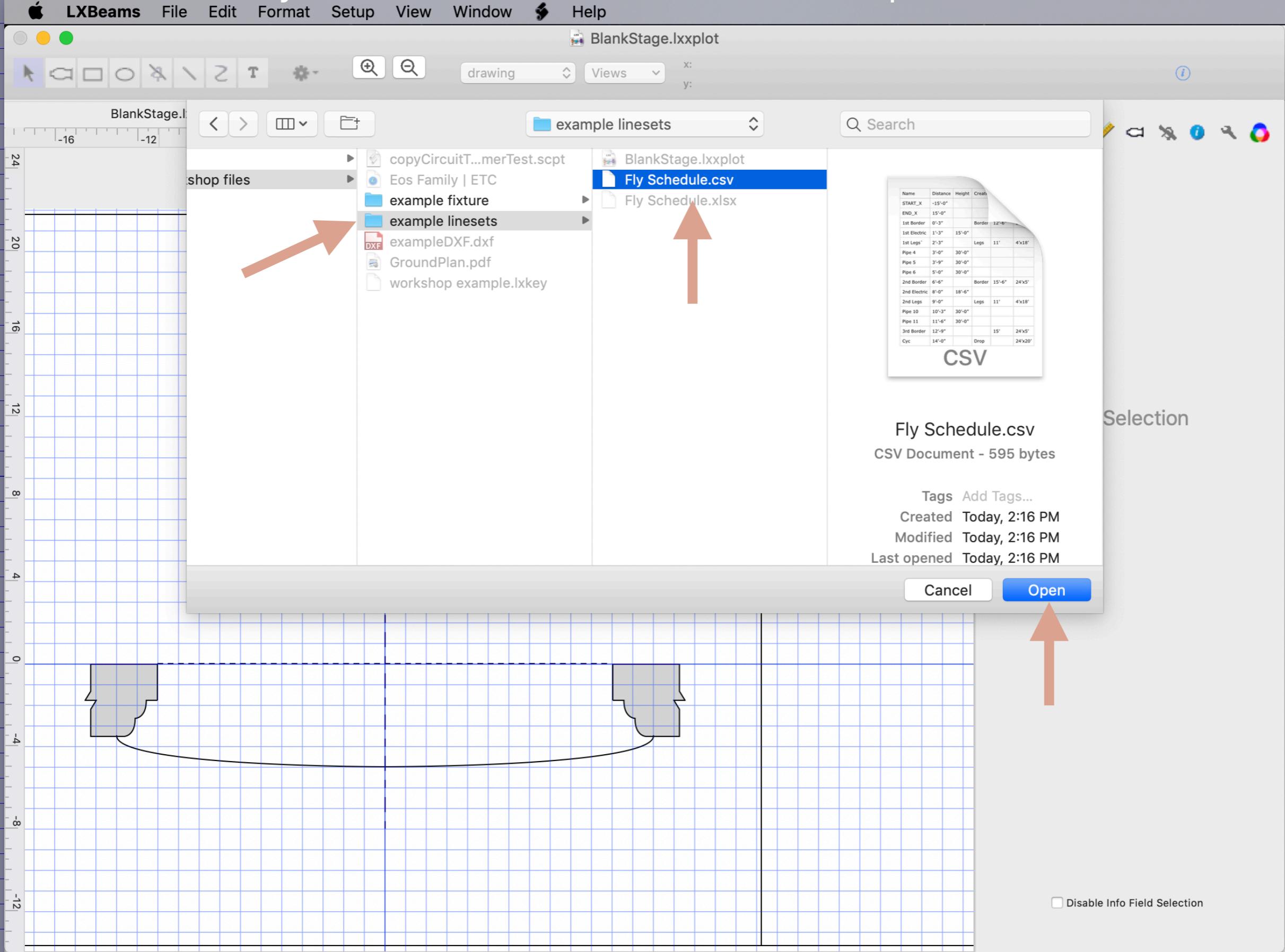
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

The spreadsheet was used to make a CSV file that can be imported into LXBeams.

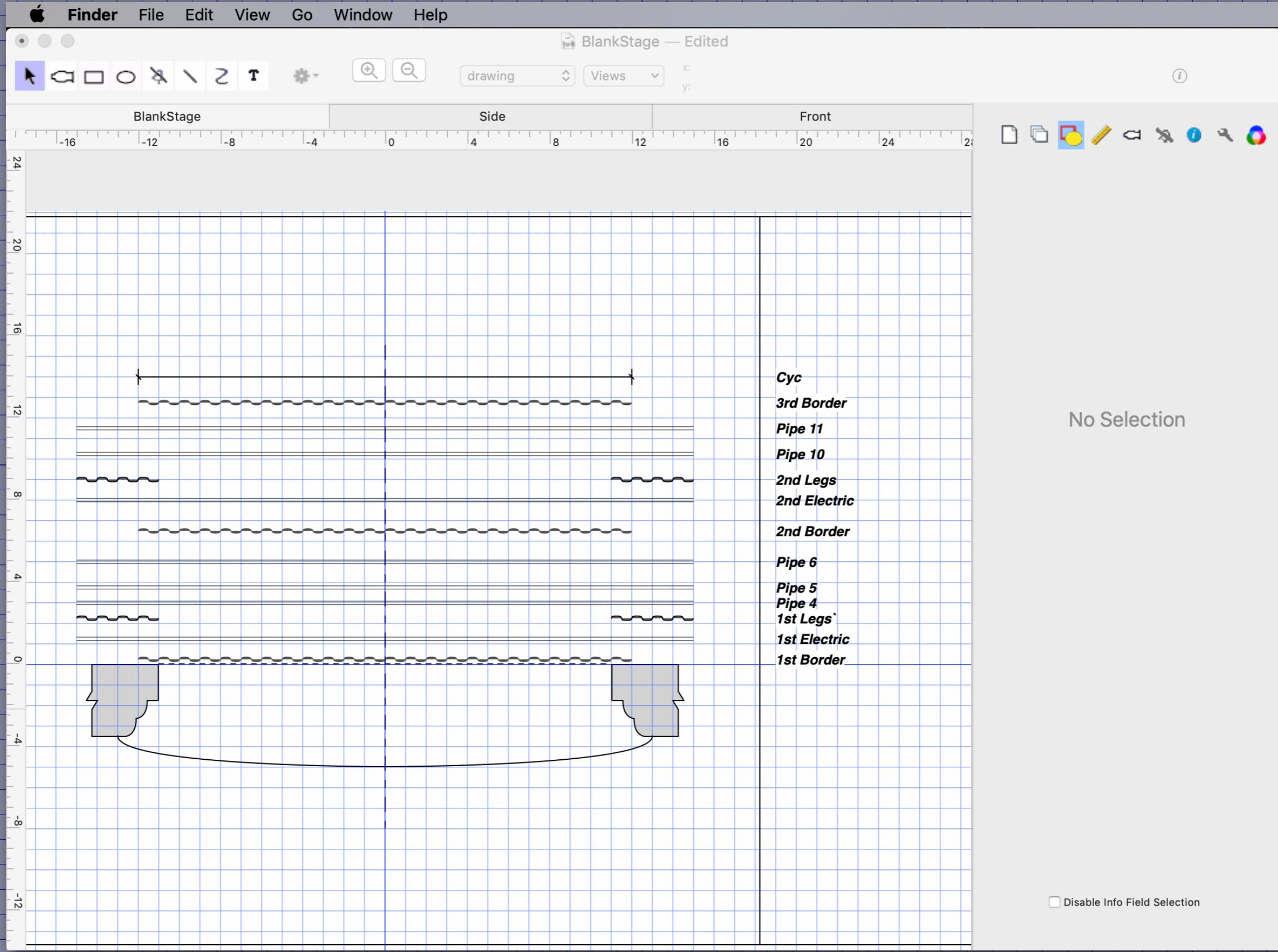
Choose File→Import→Fly (csv)...



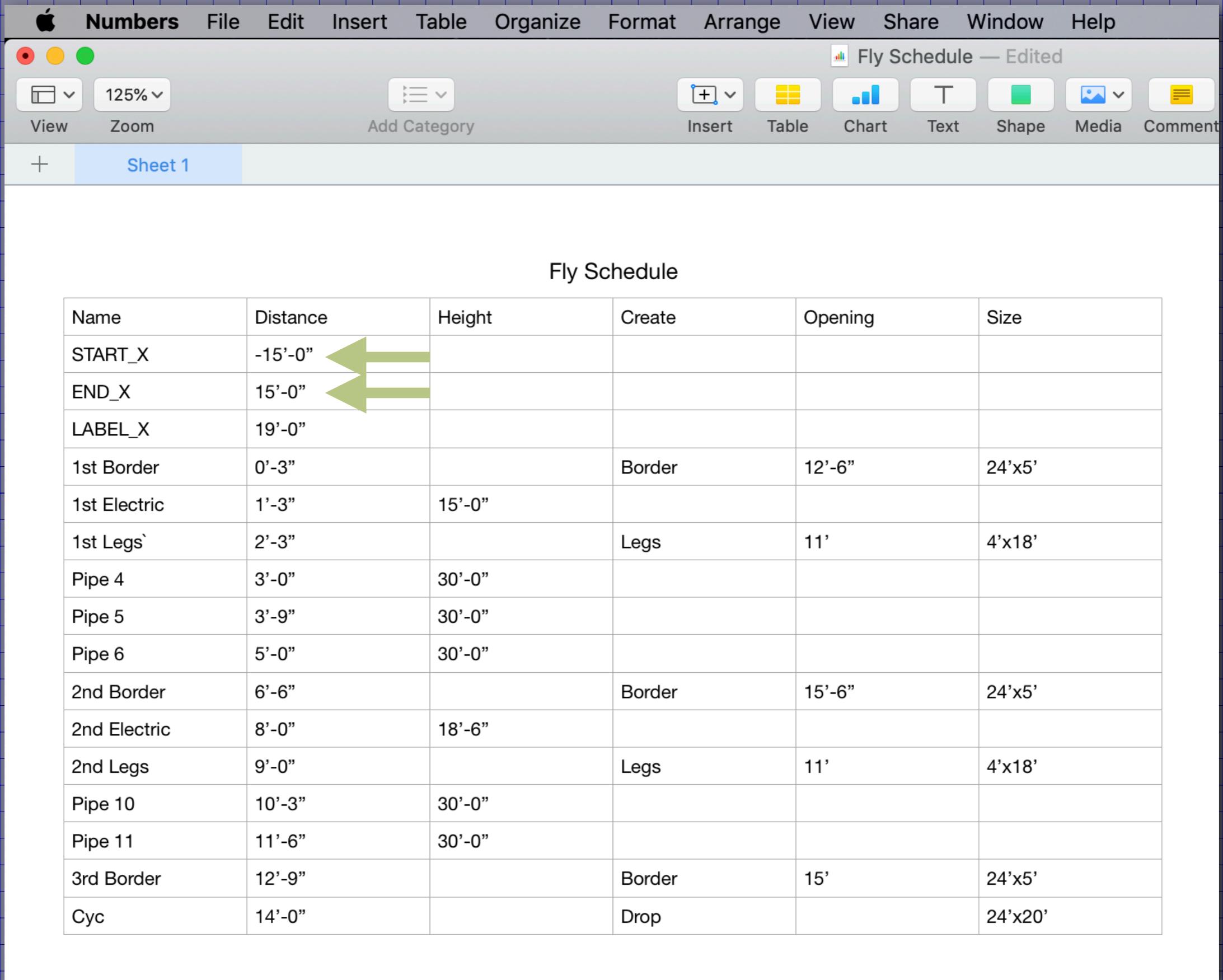
Locate the “Fly Schedule.csv” file in the “example linesets” folder.



The fly information is used to create lines and other objects.



The START_X and END_X rows are used to define the ends of the linesets.

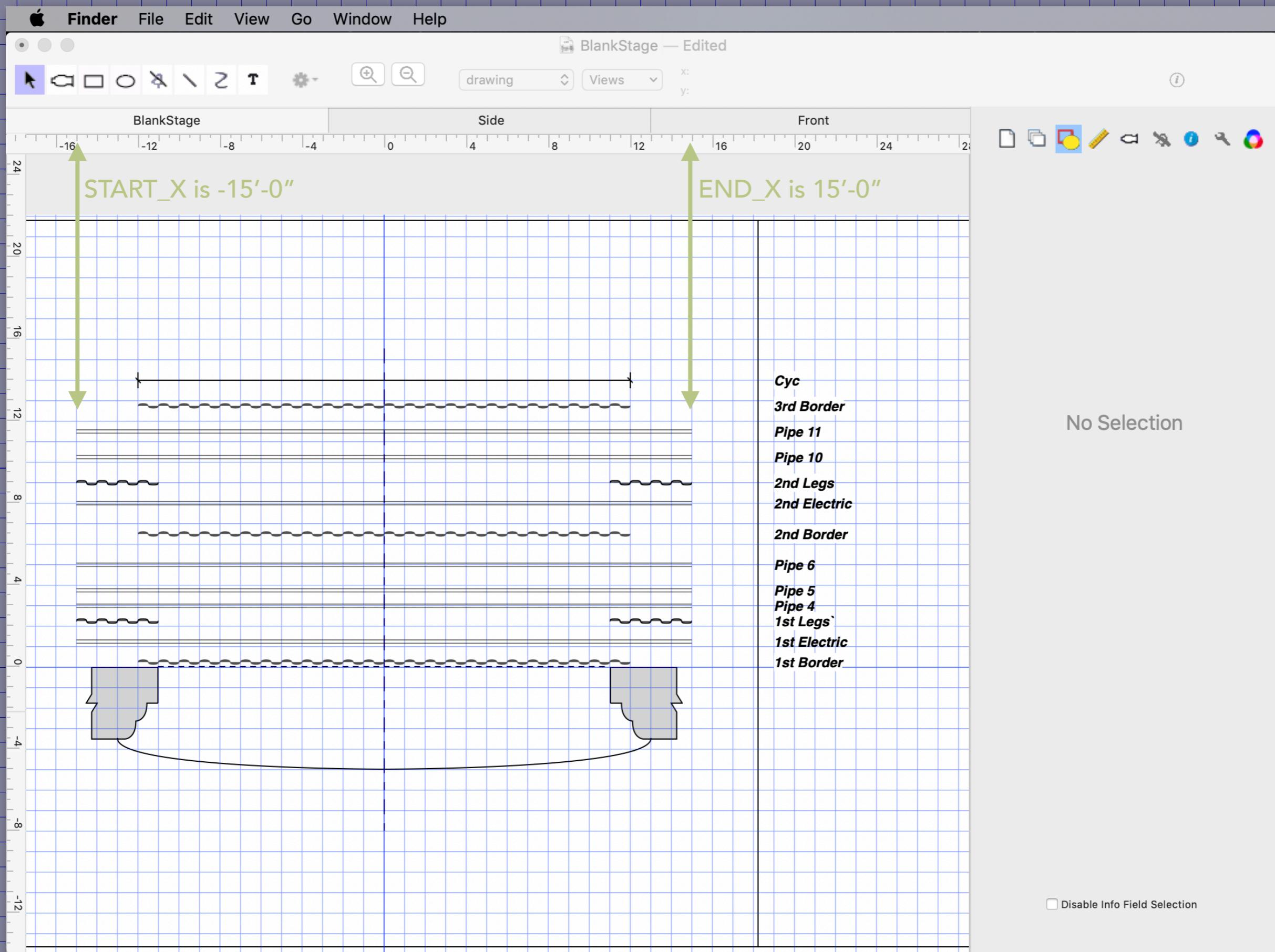


Fly Schedule

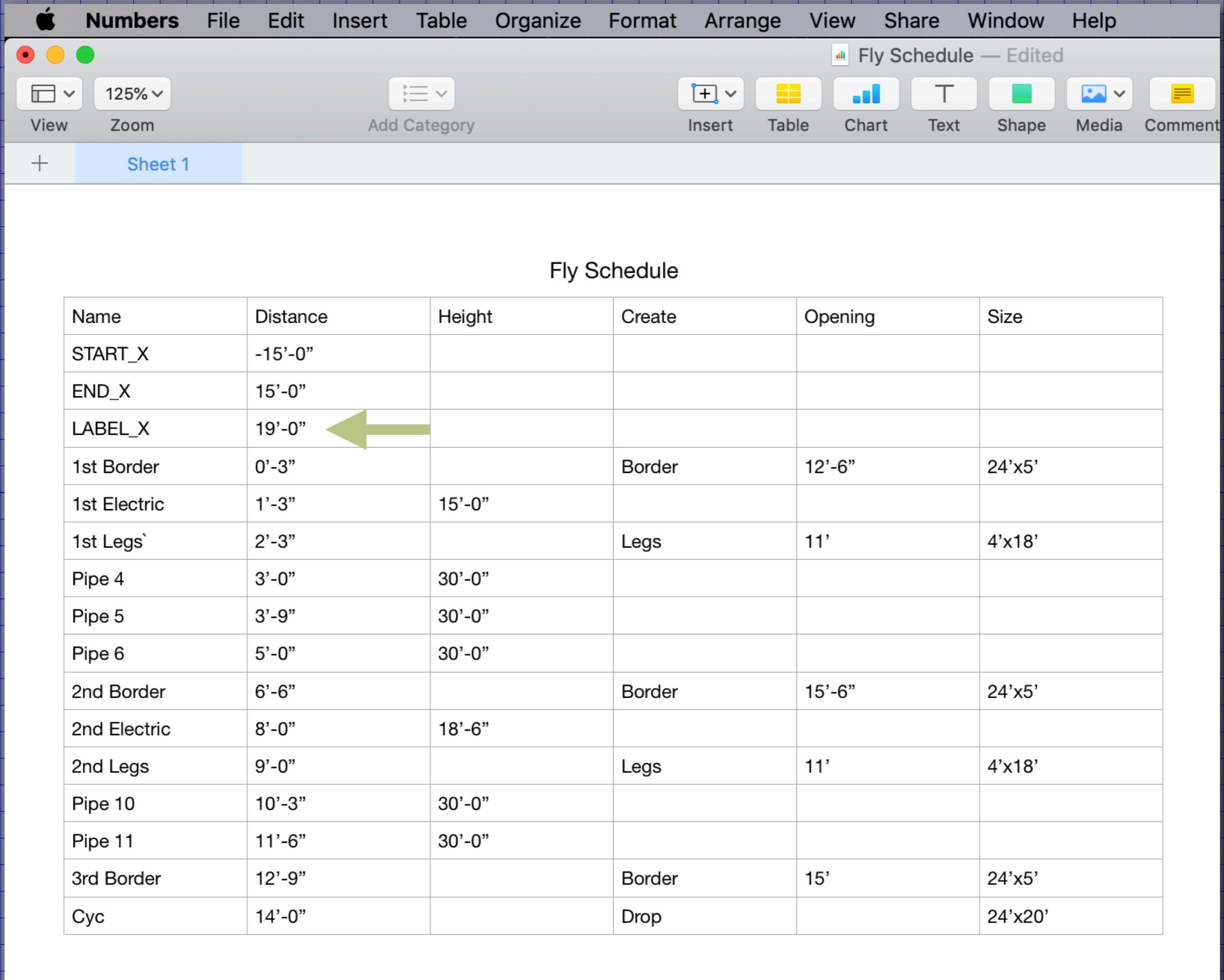
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

In this case the battens are 30' long and centered.

The START_X and END_X distances are the horizontal ends of the lines.



The LABEL_X row tells LXBeams to add labels at the specified position.

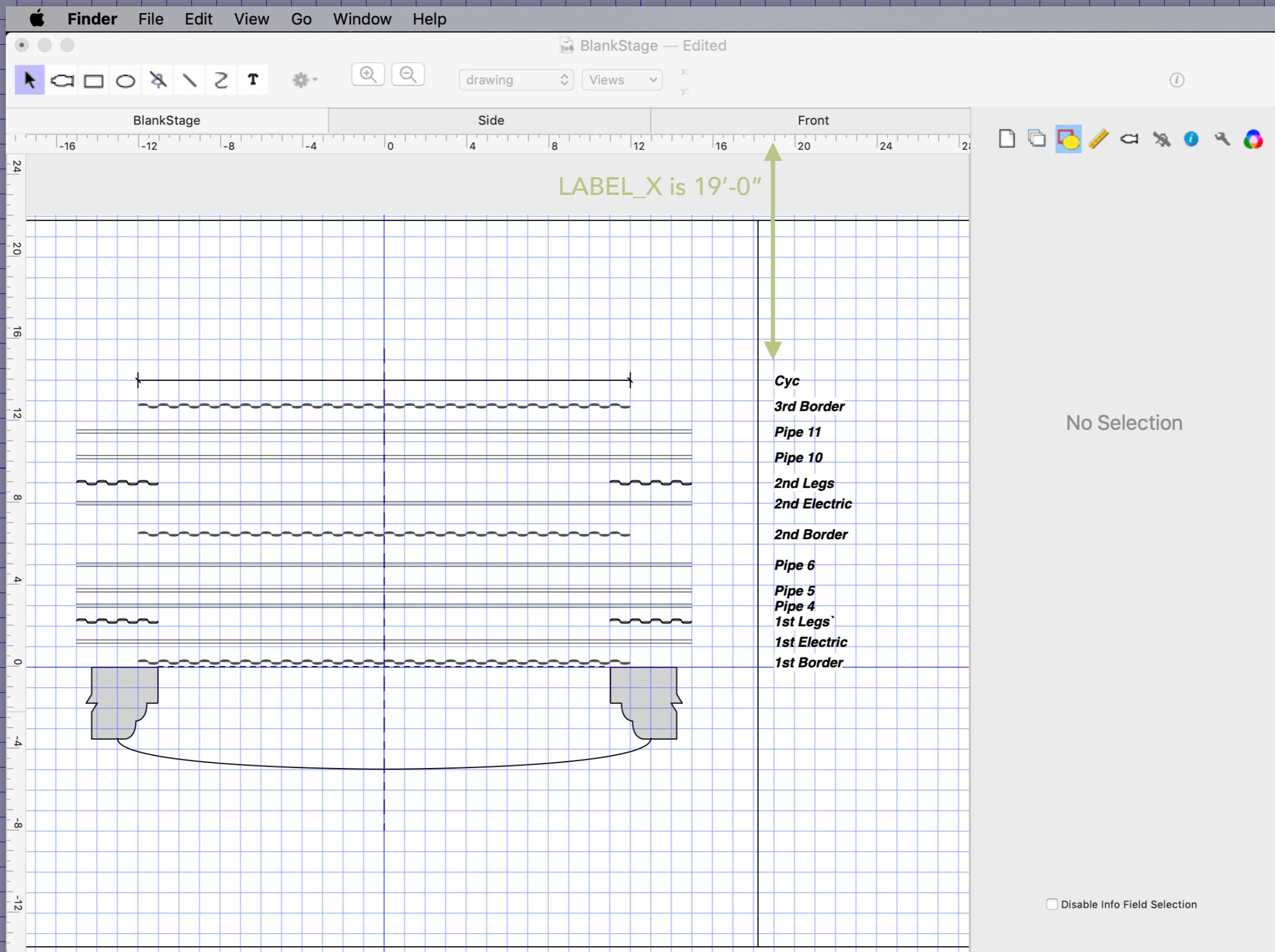


A screenshot of the Apple Numbers spreadsheet application. The title bar reads "Numbers" and the main title of the sheet is "Fly Schedule — Edited". The toolbar includes standard options like View, Zoom, Insert Category, Insert, Table, Chart, Text, Shape, Media, and Comment. The sheet itself is titled "Fly Schedule" and contains a table with the following data:

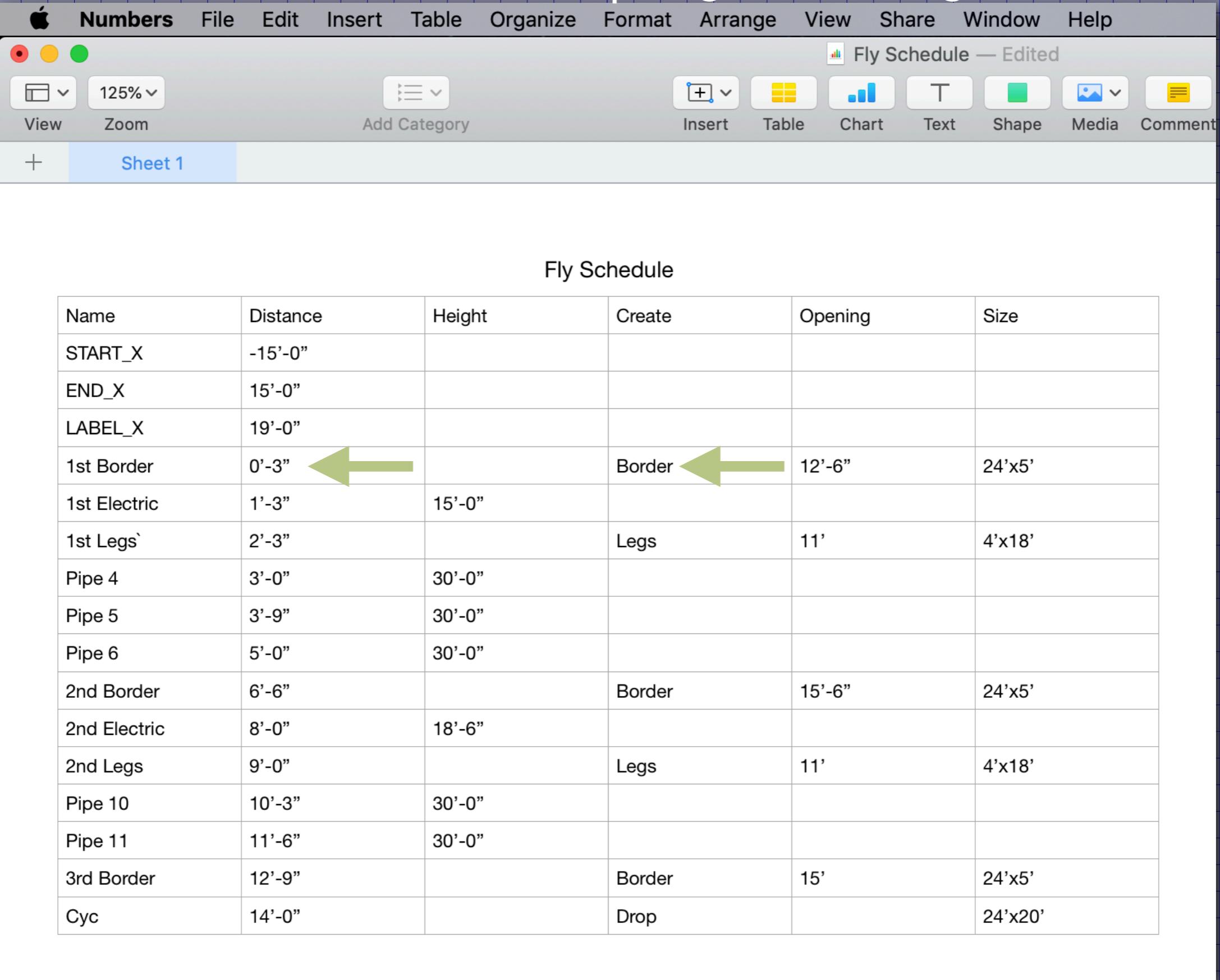
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

LABEL_X is optional. If it is omitted, labels are not created.

The LABEL_X distance is where the labels are aligned.



The Distance column is the upstage/downstage distance.



Numbers Fly Schedule — Edited

View Zoom Add Category Insert Table Chart Text Shape Media Comment

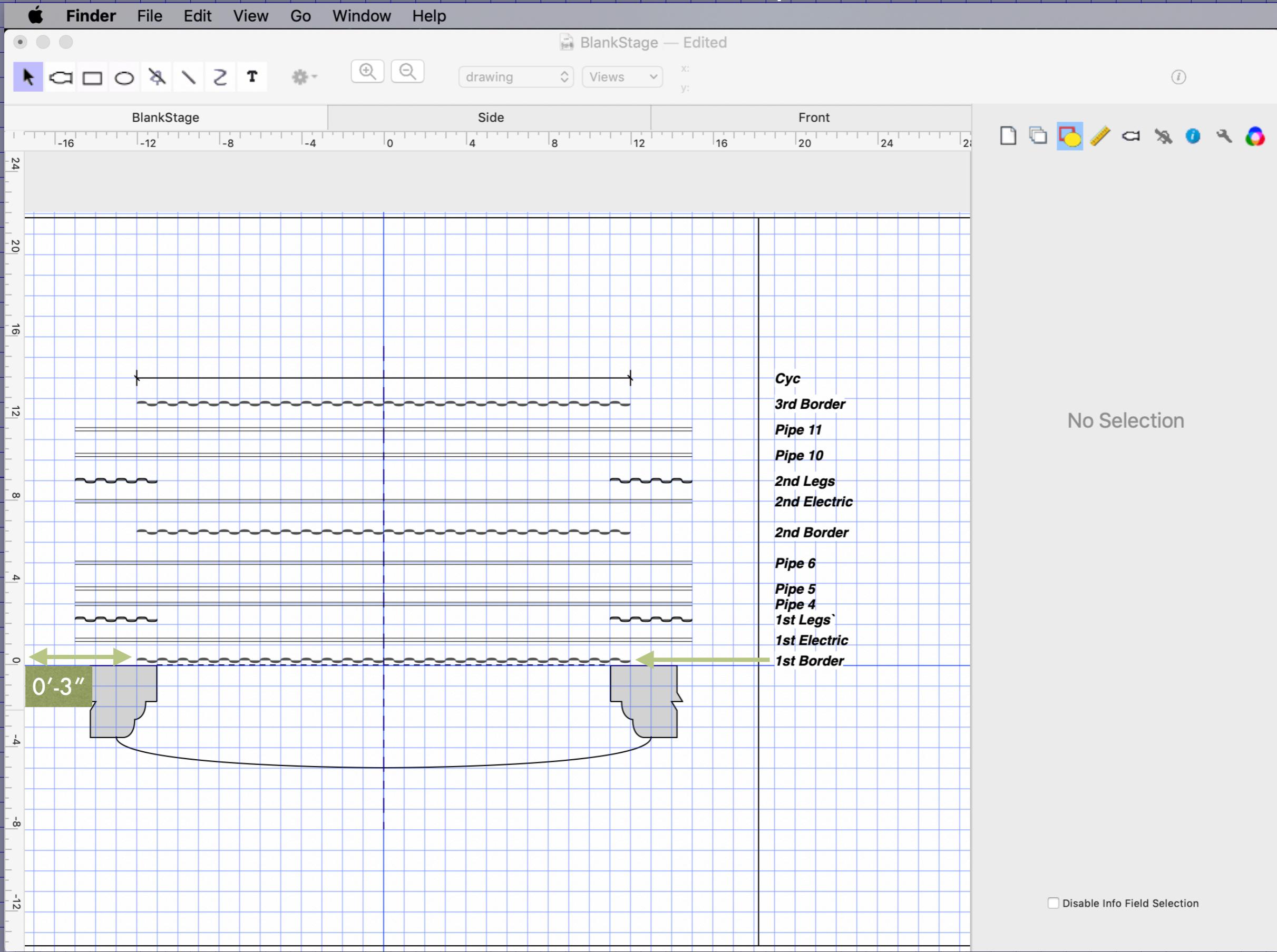
Sheet 1

Fly Schedule

Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

"Border" in the create column tells LXBeams to make a curtain.

The 1st Border is 0'-3" upstage.



The Opening for a border is the trim height to its bottom.

Numbers File Edit Insert Table Organize Format Arrange View Share Window Help

View Zoom Add Category Insert Table Chart Text Shape Media Comment

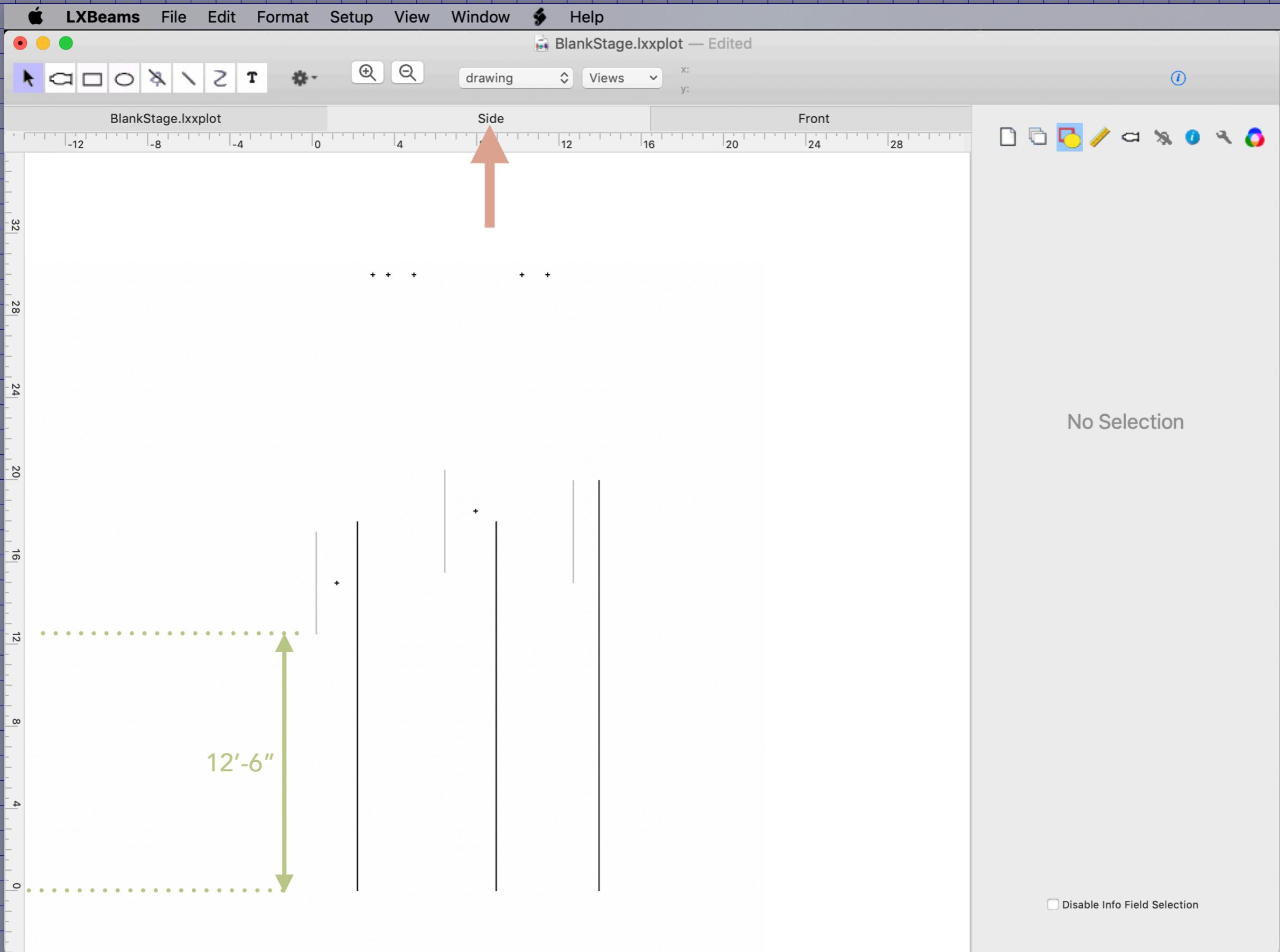
Fly Schedule — Edited

Sheet 1

Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6" ←	24'x5' ←
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

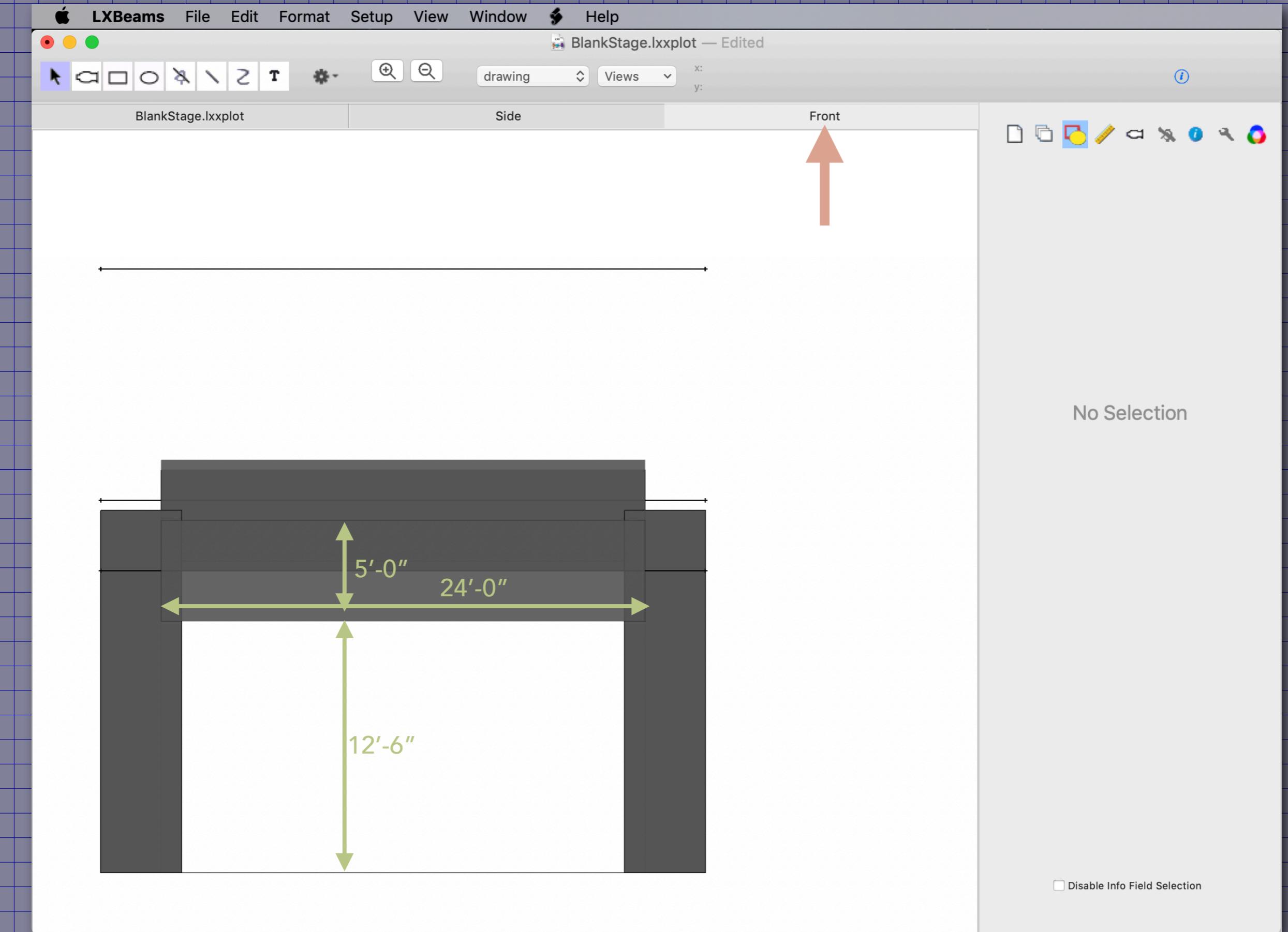
The size is Width x Height.

Seen from the side.



The 1st Border's opening is 12'-6" and it is 24'x5'.

Seen from the front.



The 1st Border's opening is 12'-6" and it is 24'x5'.

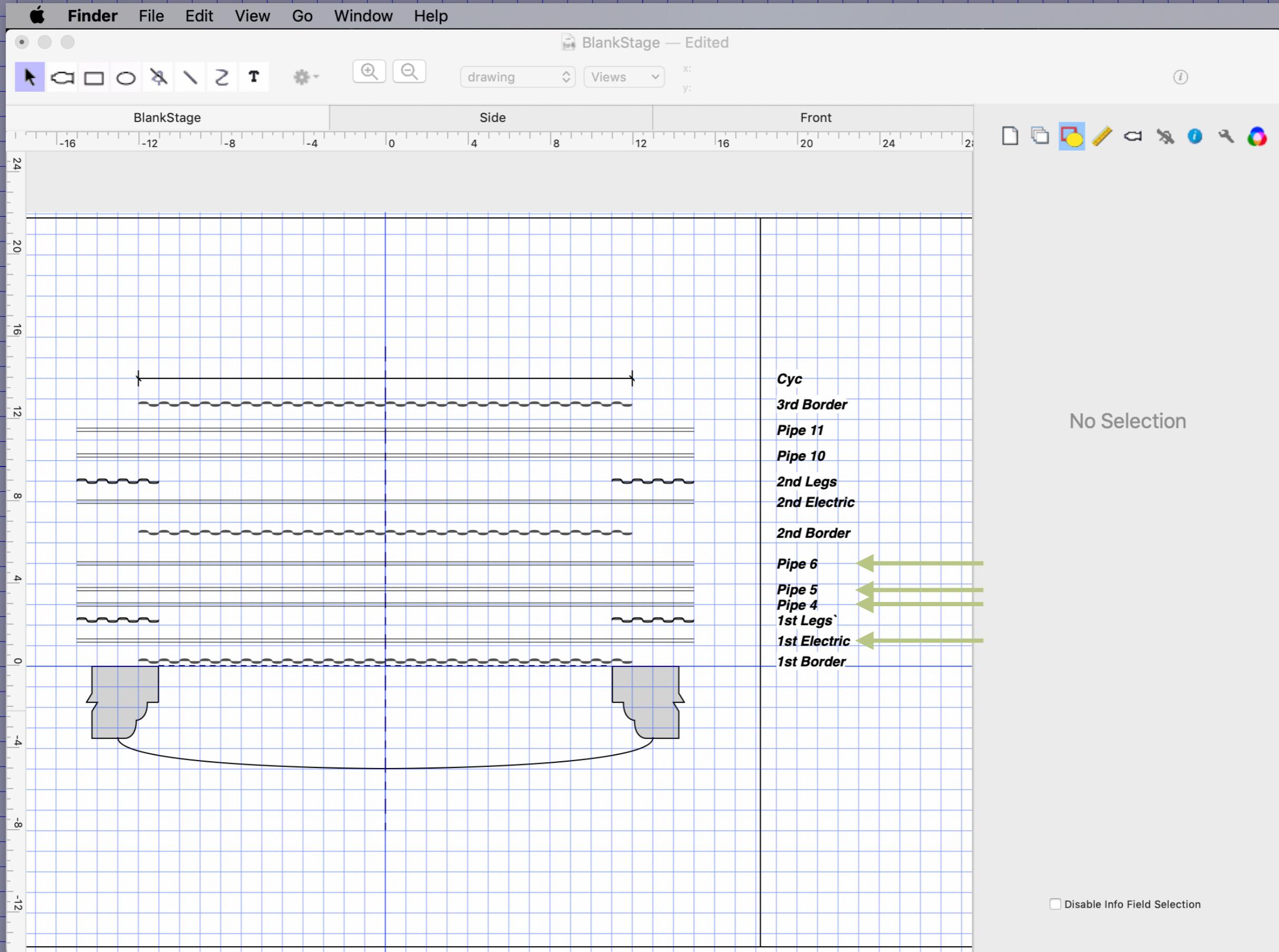
Regular battens are created as position lines.

Screenshot of a Numbers spreadsheet titled "Fly Schedule — Edited". The spreadsheet has a header row with columns for Name, Distance, Height, Create, Opening, and Size. The data rows include various components of a fly schedule, such as borders, electric lines, legs, pipes, and a drop. Four green arrows point from the "Create" column to the "Height" column for the first four rows (Border, Electric, Legs, Pipe 4), indicating that these components are created as position lines.

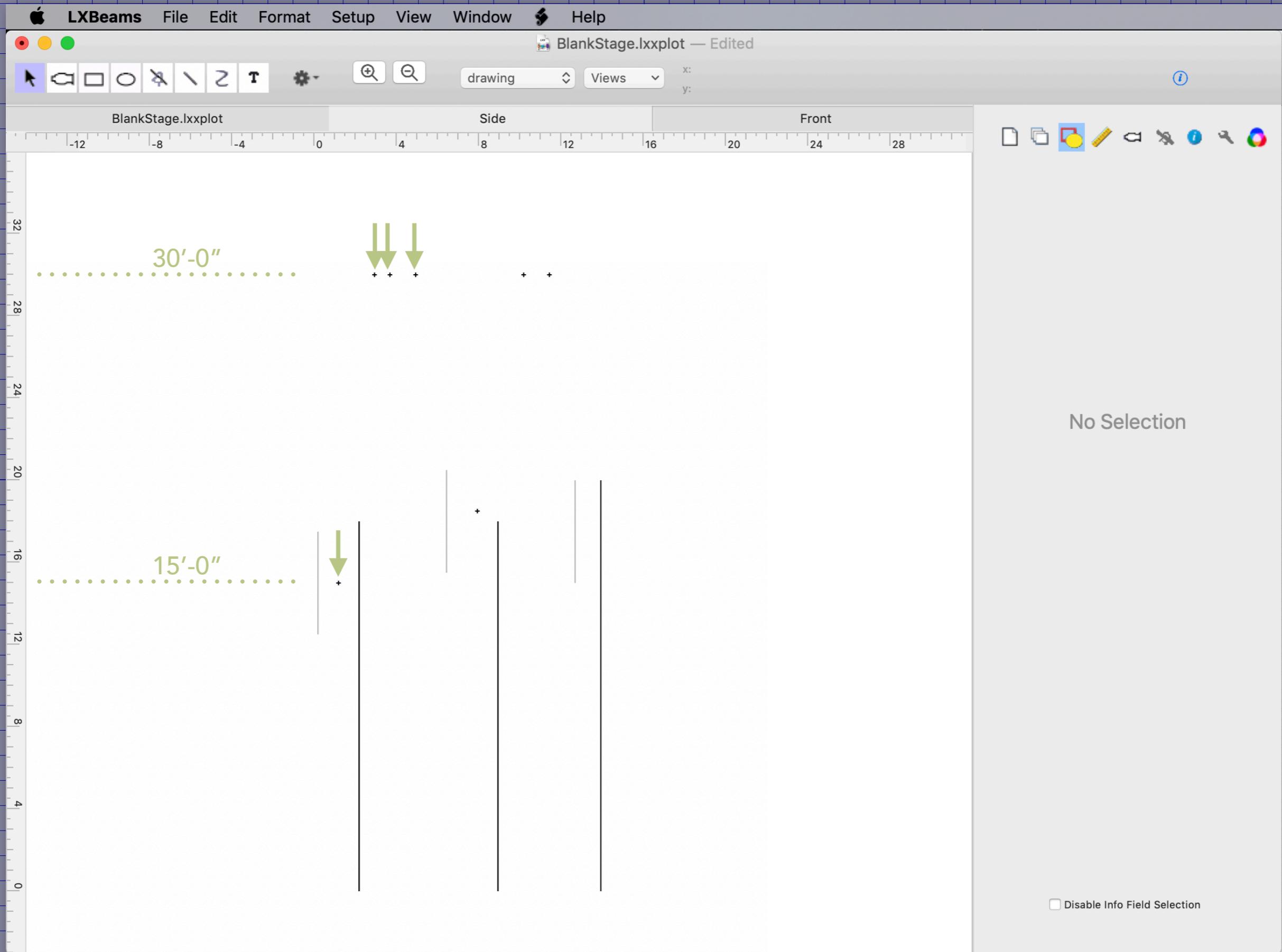
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

Battens have a distance and trim like most house fly schedules.

Regular battens are created as position lines.



Seen from the side.



The location (+) shows the trim height to the pipe.

"Legs" in the create column tells LXBeams to make a pair of curtains.

Numbers File Edit Insert Table Organize Format Arrange View Share Window Help

View Zoom Add Category Insert Table Chart Text Shape Media Comment

Fly Schedule — Edited

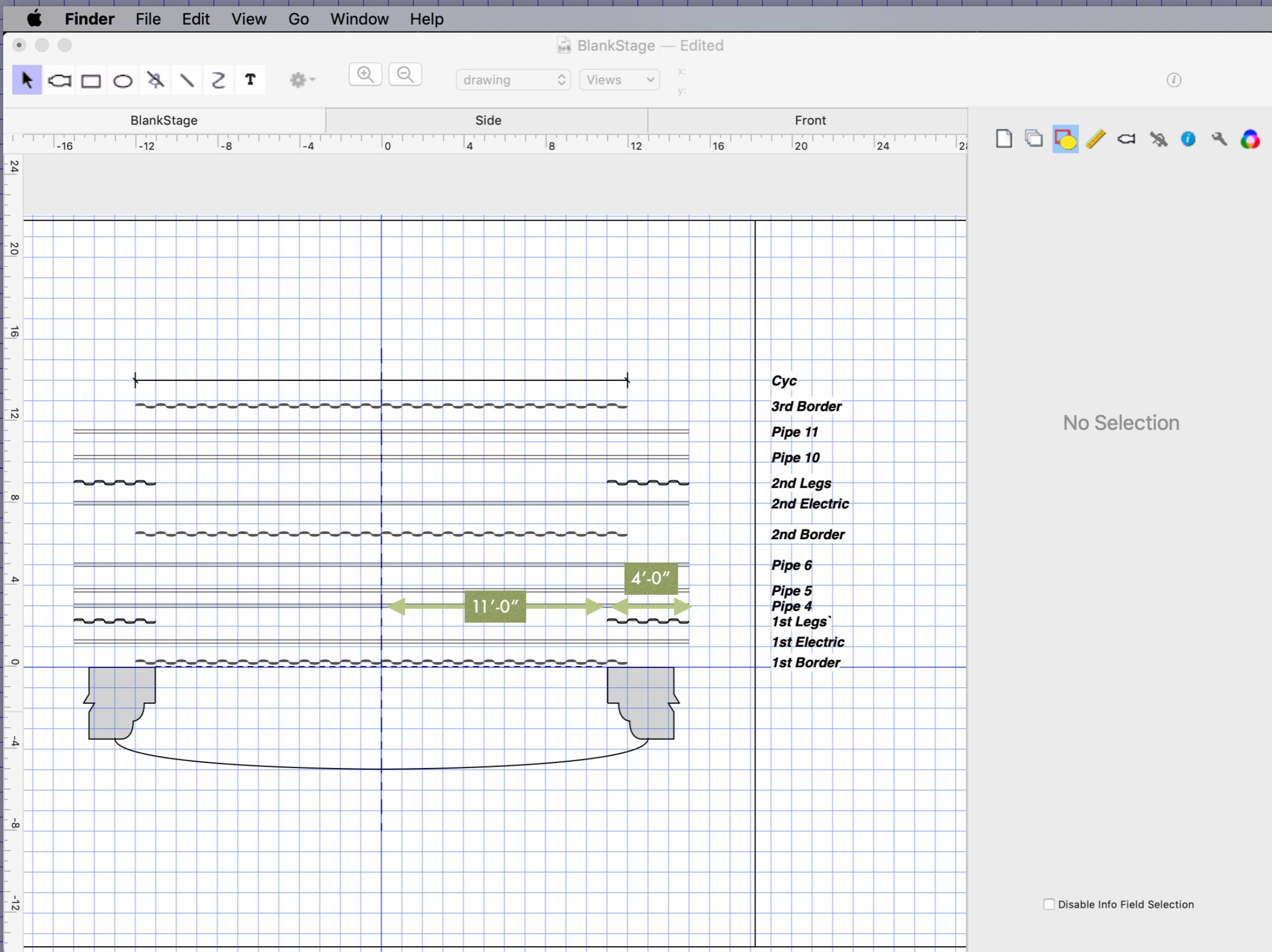
Sheet 1

Fly Schedule

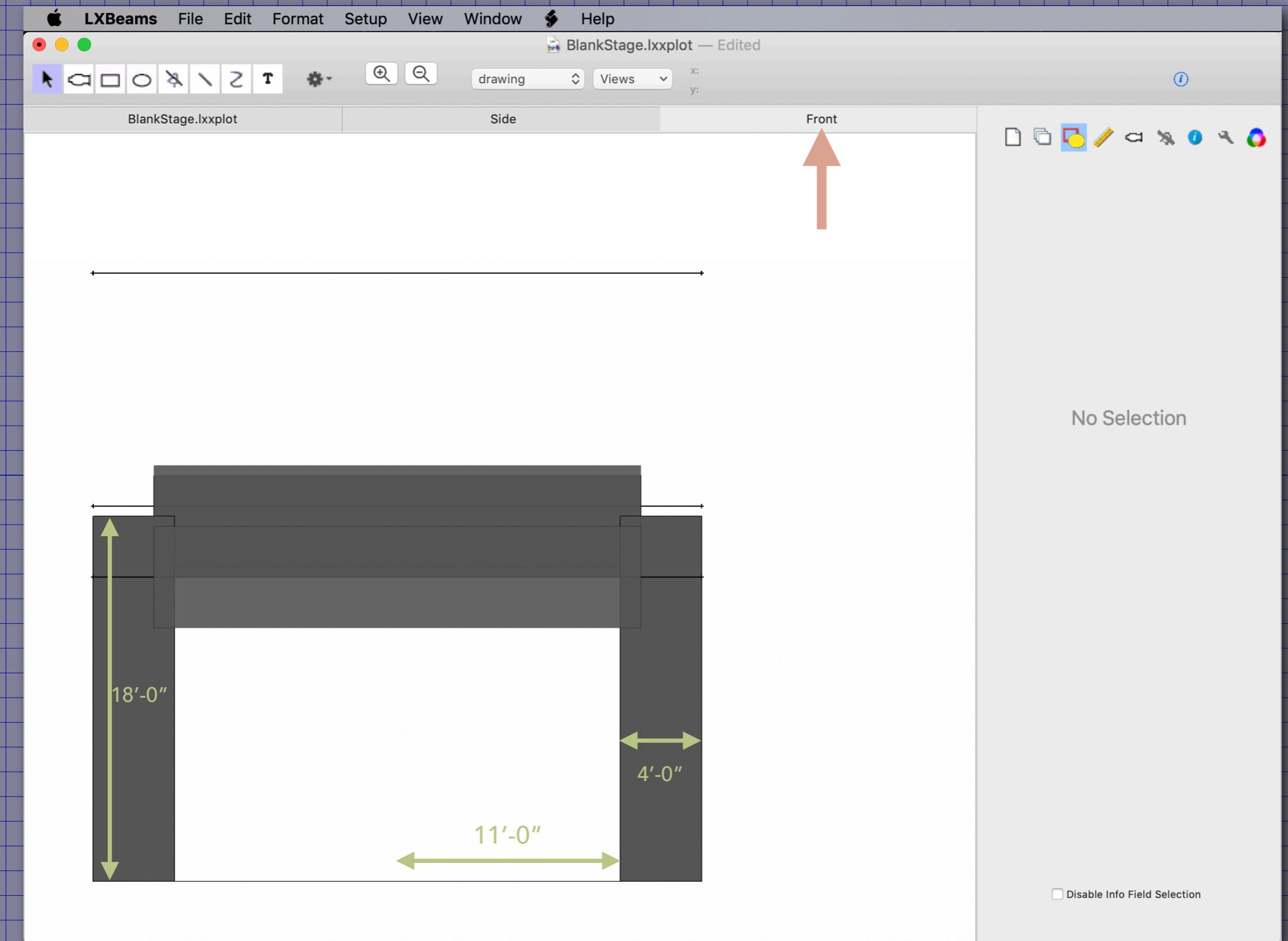
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs ←	11' ←	4'x18' ←
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop		24'x20'

The opening is the distance to each leg from center. The size is width x height.

The 1st Legs are 11' off center and 4' wide.



Seen from the front.



The 1st Legs are each 11'-0" from center and 4' wide x18' tall.

“Drop” in the create column tells LXBeams to make a curtain.

Numbers File Edit Insert Table Organize Format Arrange View Share Window Help

125% View Zoom Add Category Insert Table Chart Text Shape Media Comment

Fly Schedule — Edited

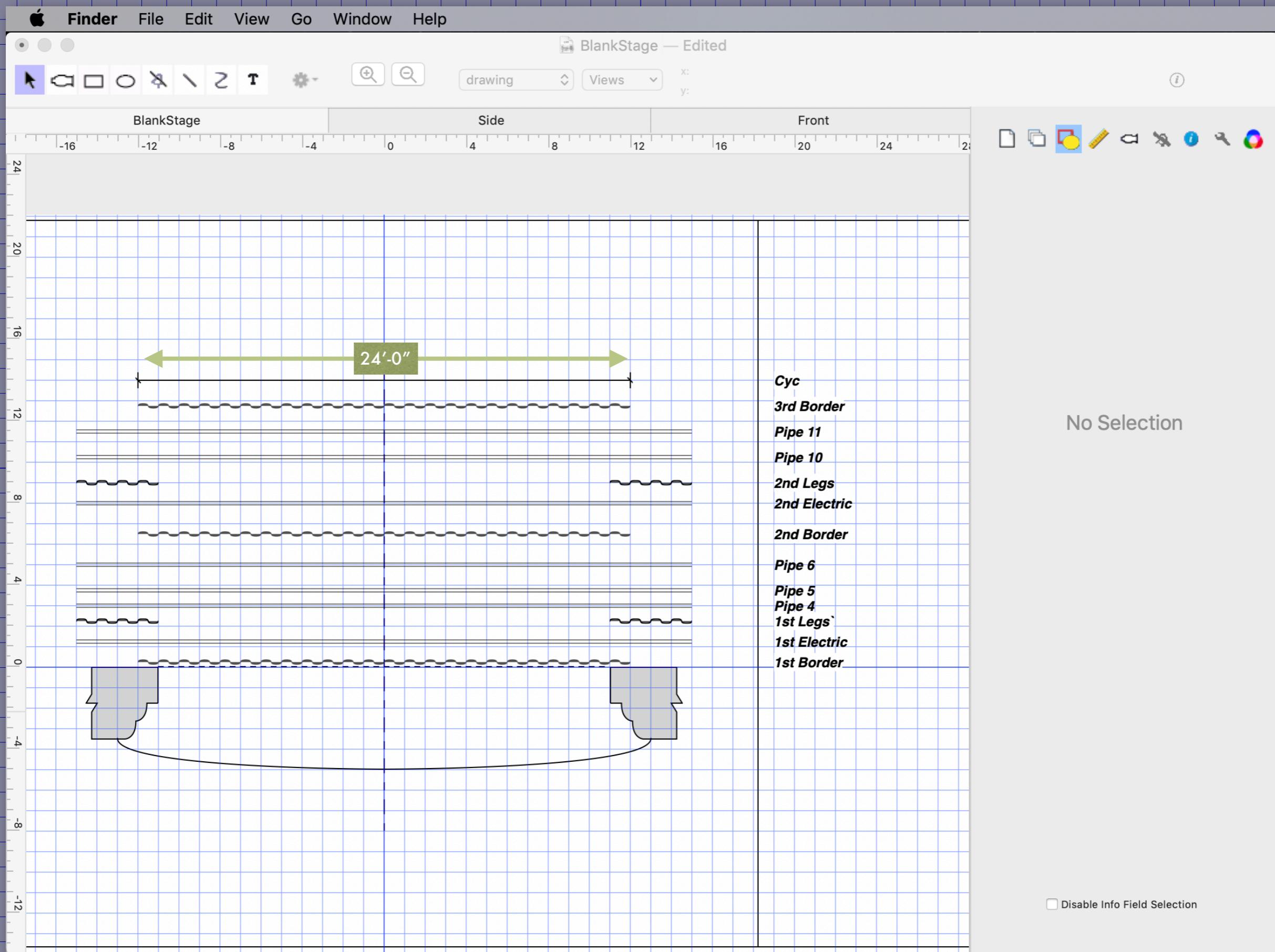
Sheet 1

Fly Schedule

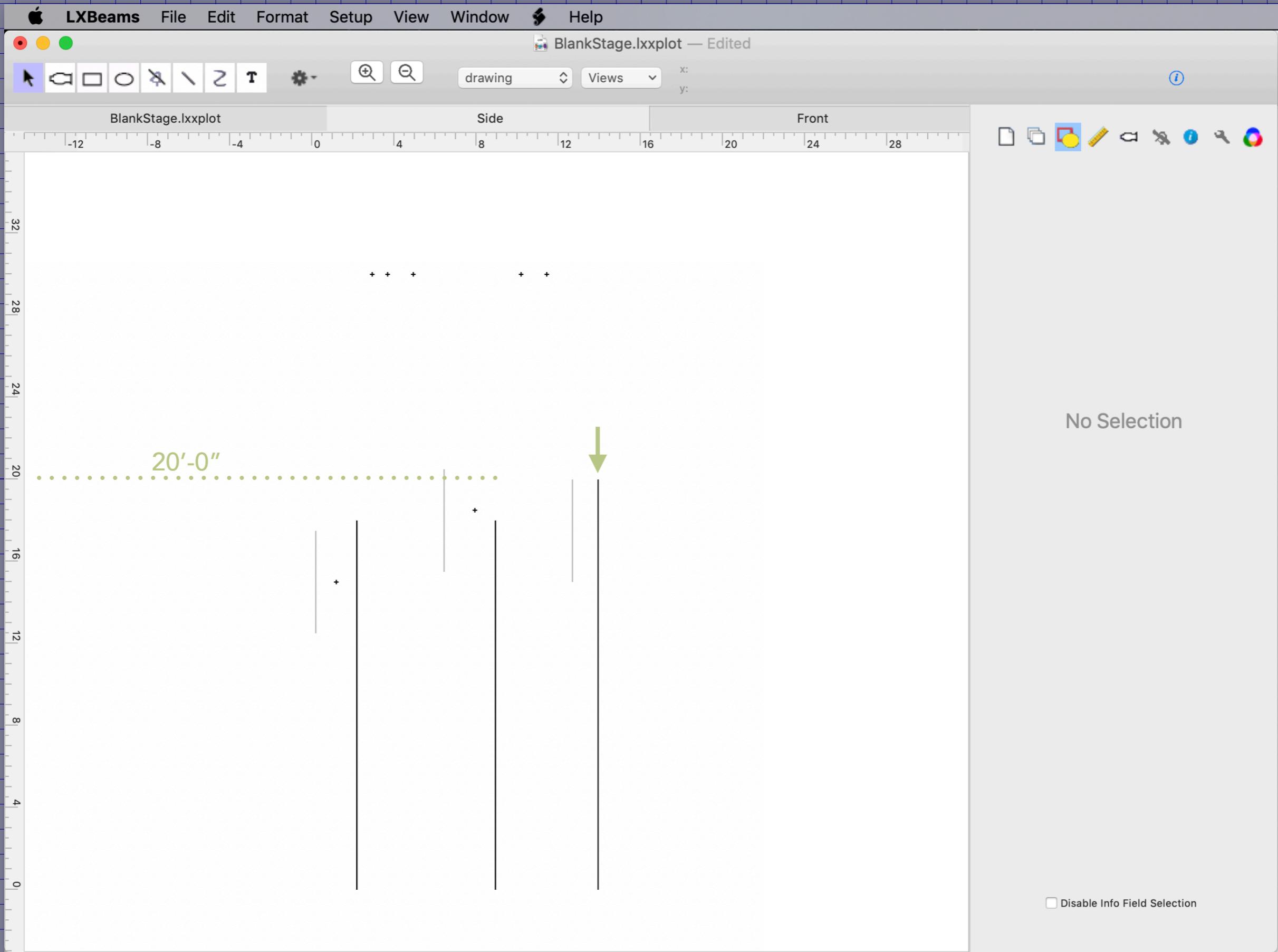
Name	Distance	Height	Create	Opening	Size
START_X	-15'-0"				
END_X	15'-0"				
LABEL_X	19'-0"				
1st Border	0'-3"		Border	12'-6"	24'x5'
1st Electric	1'-3"	15'-0"			
1st Legs`	2'-3"		Legs	11'	4'x18'
Pipe 4	3'-0"	30'-0"			
Pipe 5	3'-9"	30'-0"			
Pipe 6	5'-0"	30'-0"			
2nd Border	6'-6"		Border	15'-6"	24'x5'
2nd Electric	8'-0"	18'-6"			
2nd Legs	9'-0"		Legs	11'	4'x18'
Pipe 10	10'-3"	30'-0"			
Pipe 11	11'-6"	30'-0"			
3rd Border	12'-9"		Border	15'	24'x5'
Cyc	14'-0"		Drop	24'x20'	

The size is width x height.

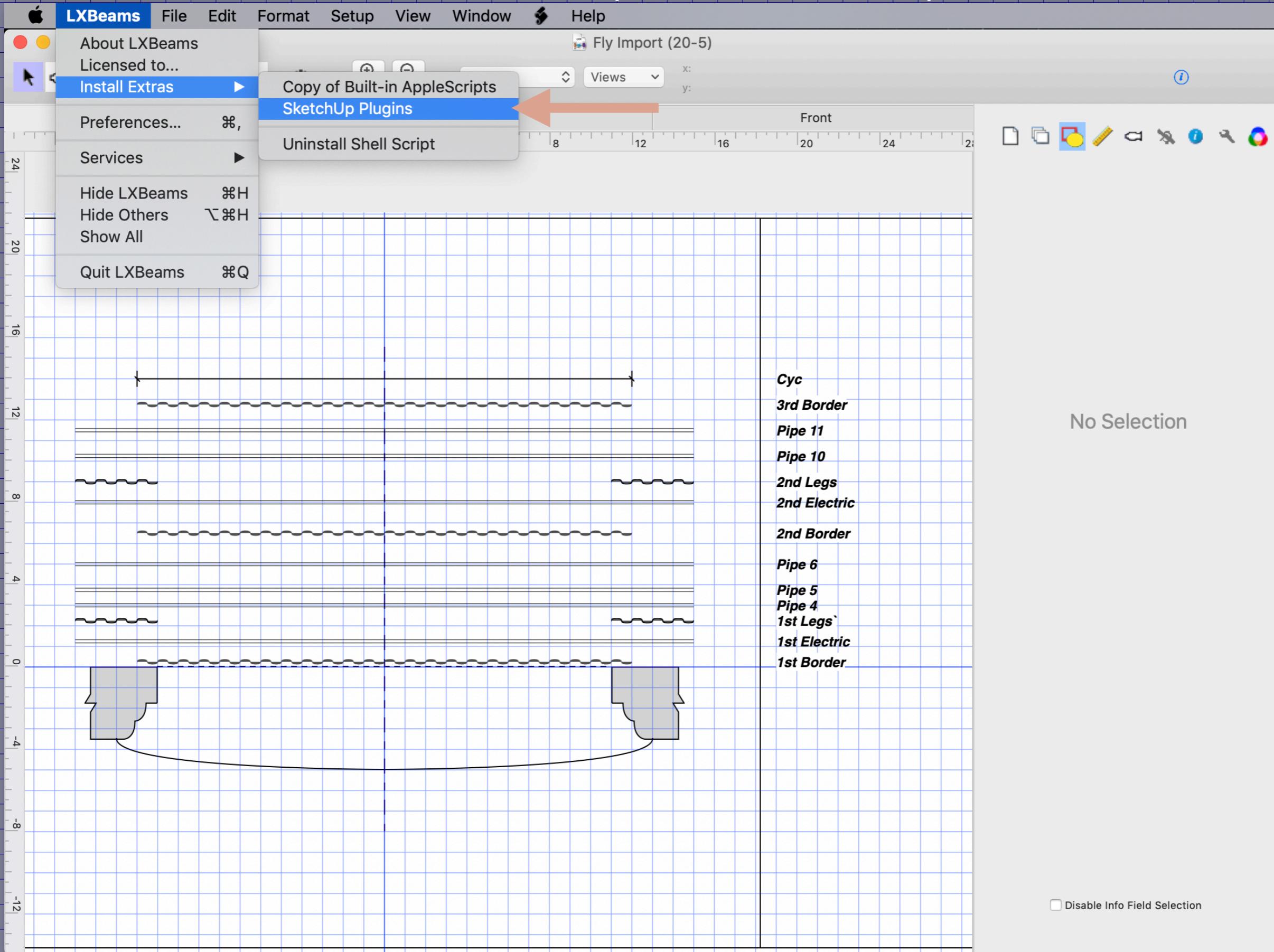
The Cyc is only 24'-0" wide in this example.



Seen from the side.

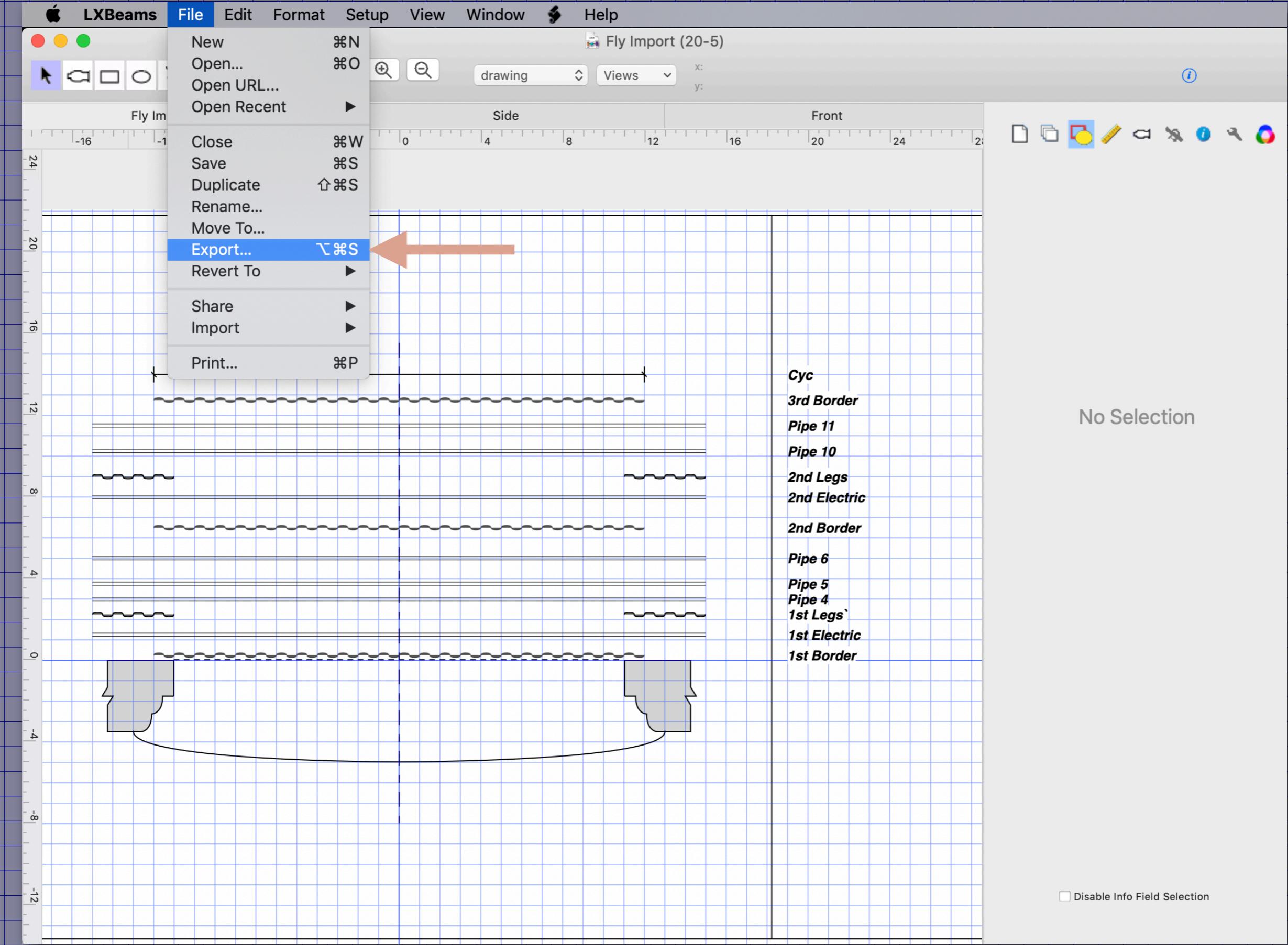


LXBeams has a set of plugins for SketchUp Pro.

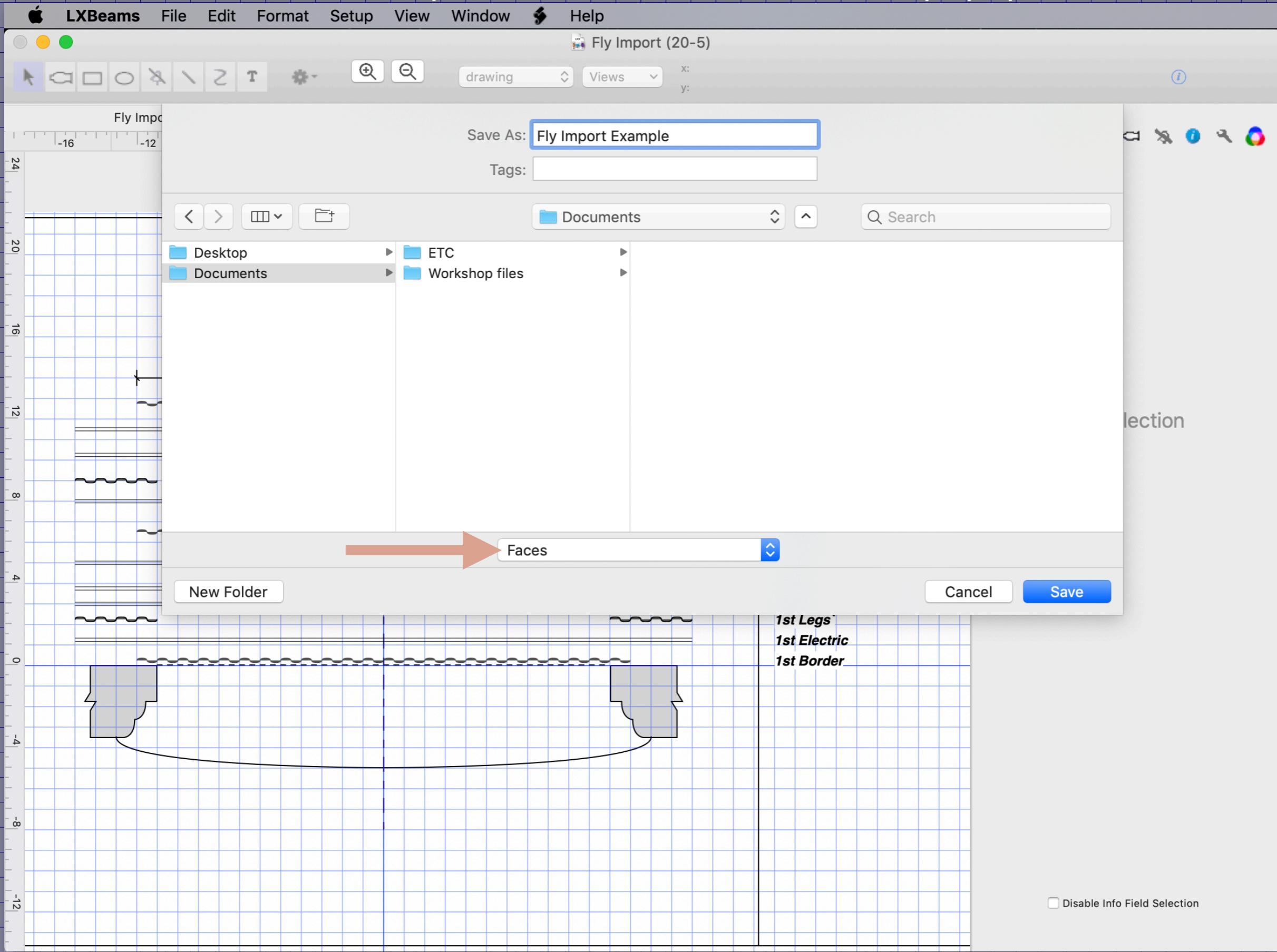


The plugins allow the exchange of "faces" files.

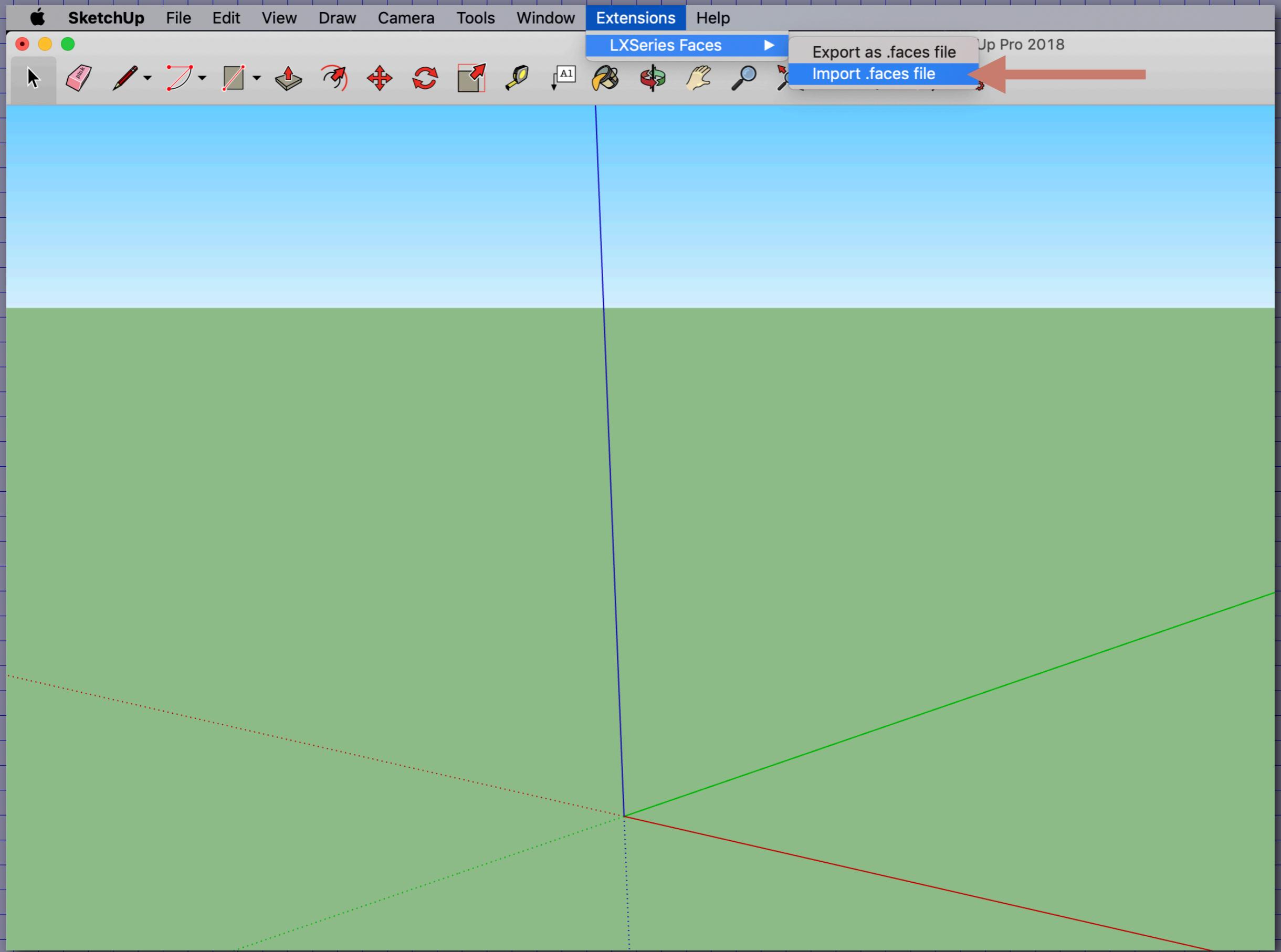
To export to SketchUp Pro, choose File→Export.



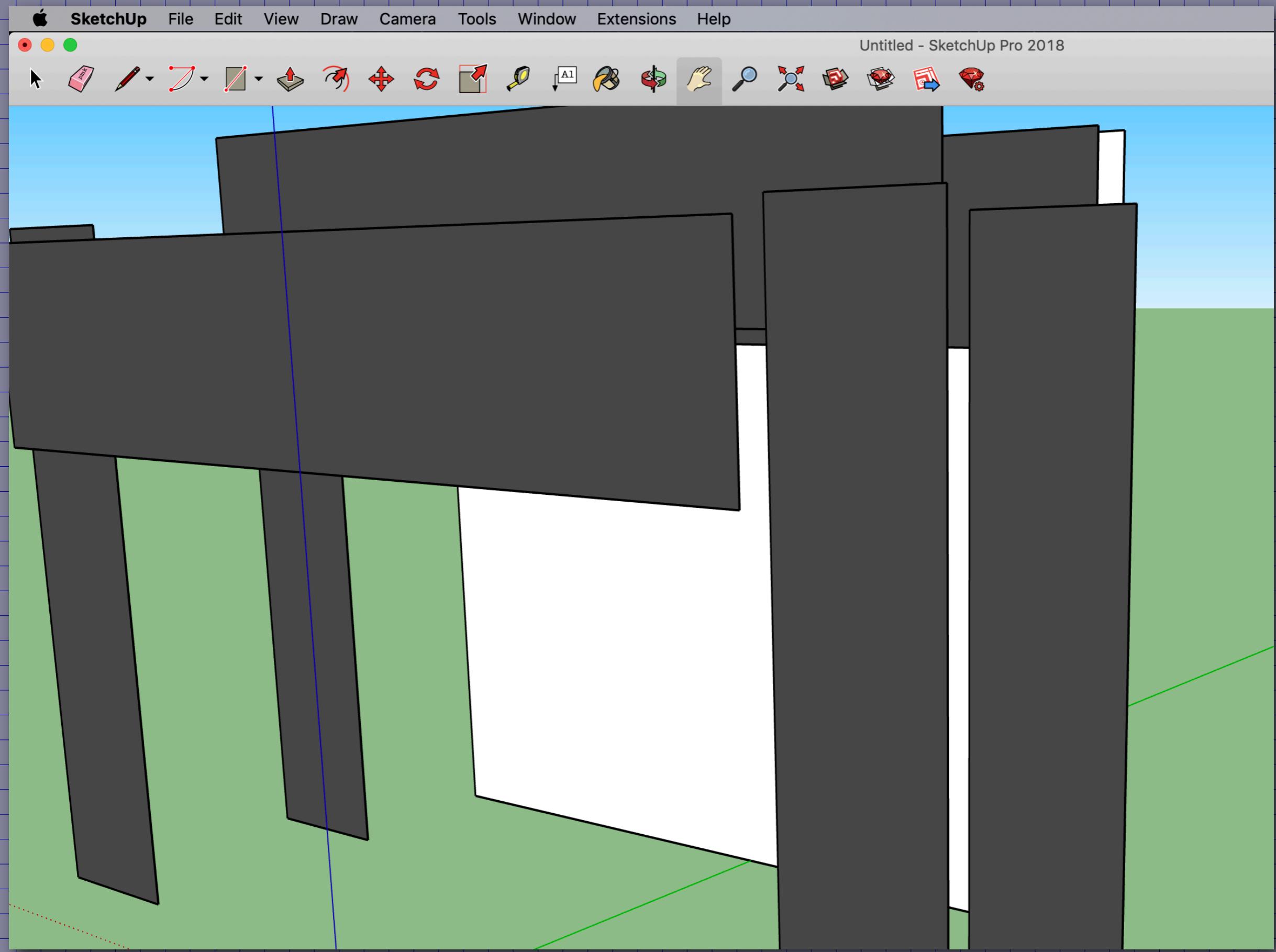
In the Save panel, select "Faces" from the popup.



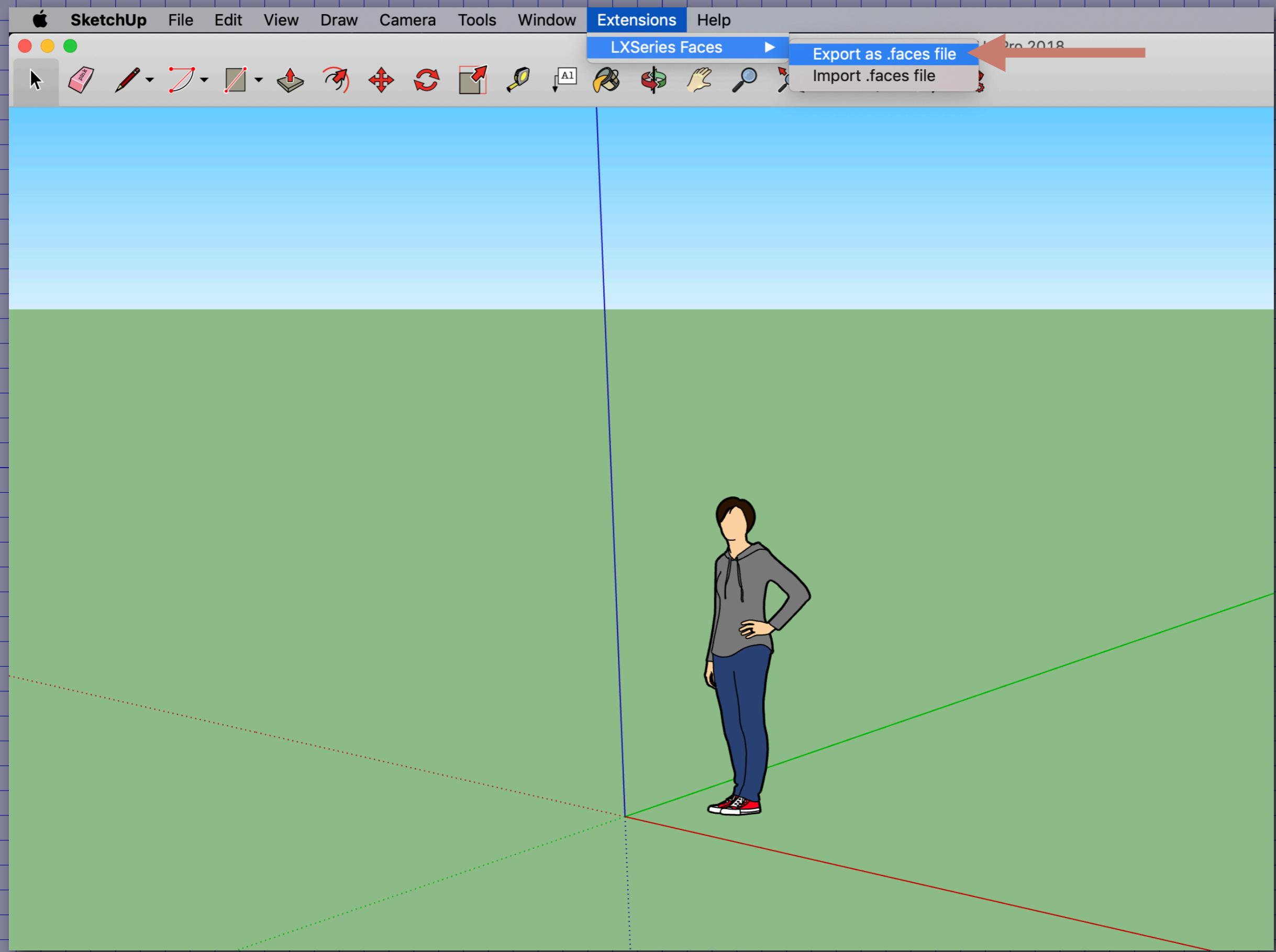
With the plugins installed, there are import/export commands in the Extensions menu.



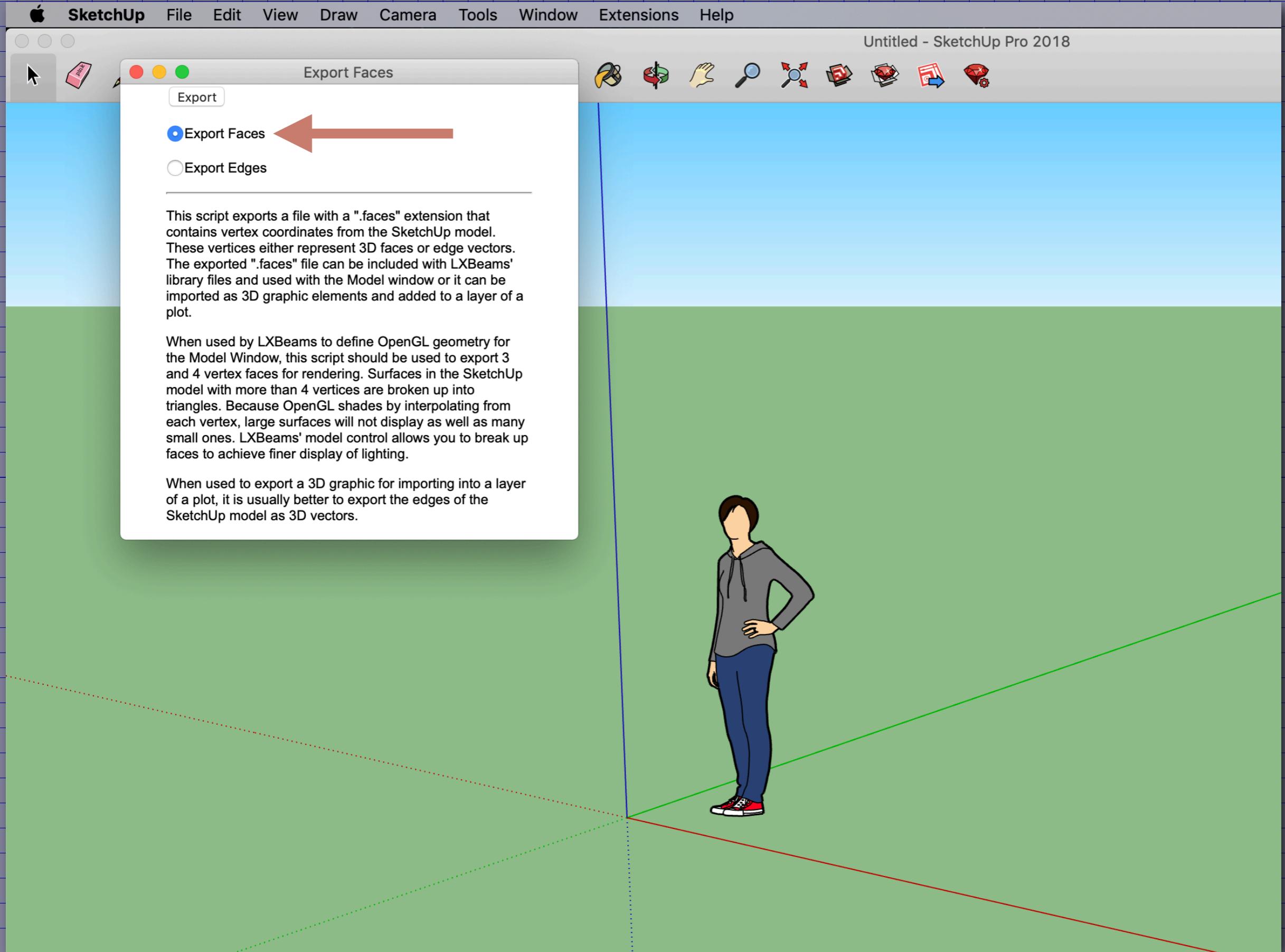
This shows the Fly Import example exported to SketchUp Pro.



You can also export from SketchUp Pro to LXBeams.

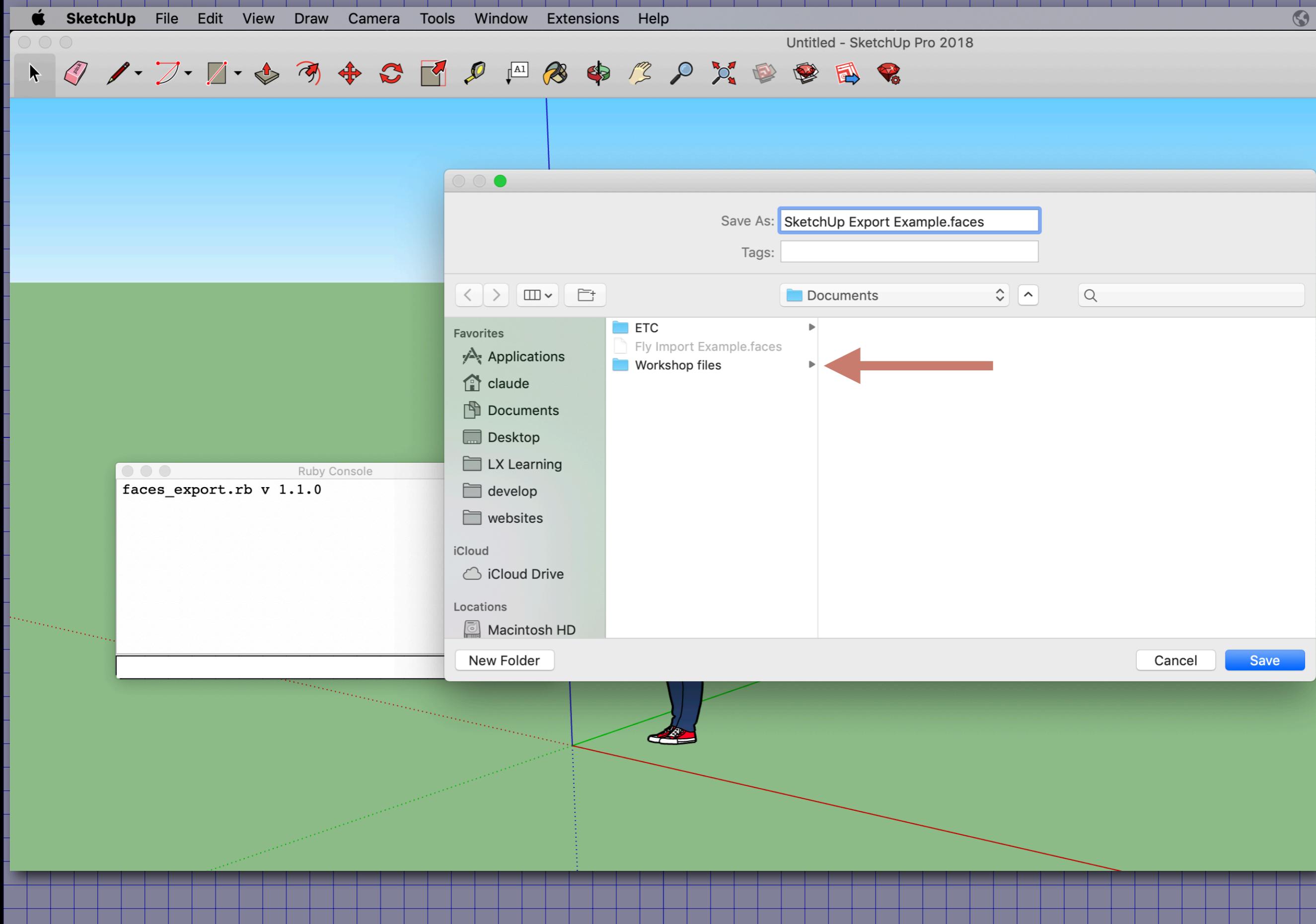


There are two ways to export the geometry. "Export Faces" includes the surfaces.

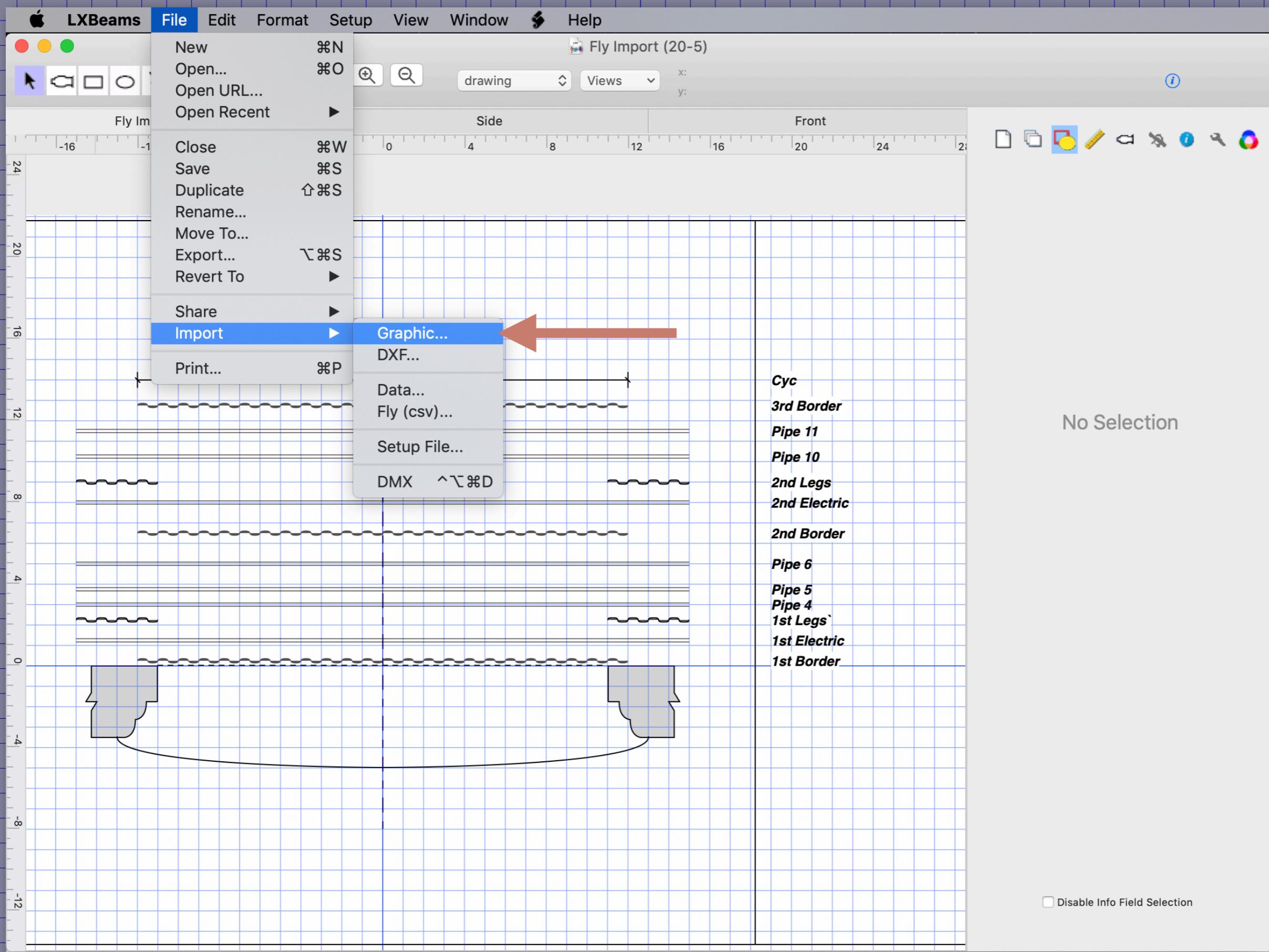


Depending on the complexity and what you want to see, you might choose only edges.

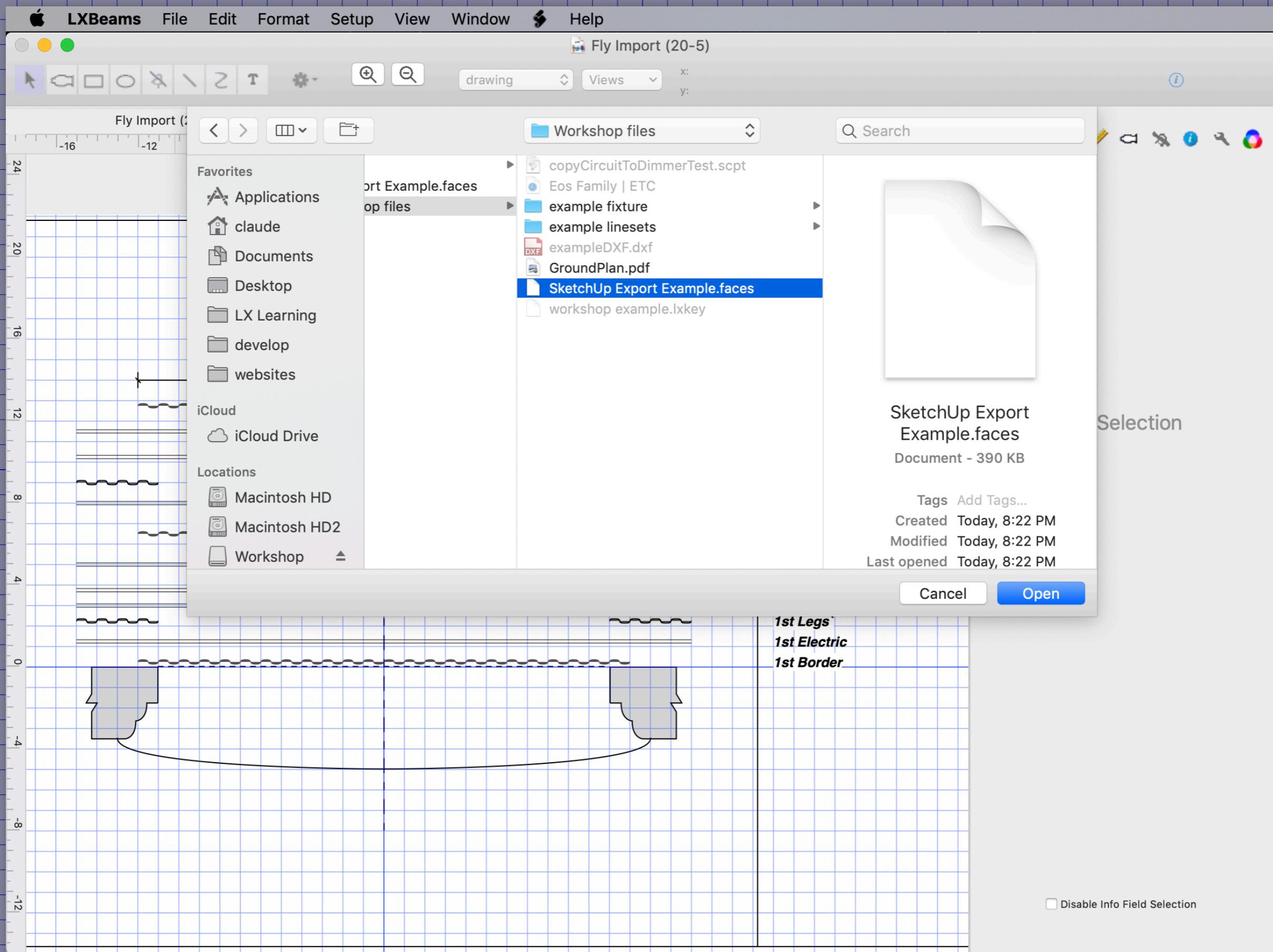
This model was exported and saved in the Workshop Files folder.



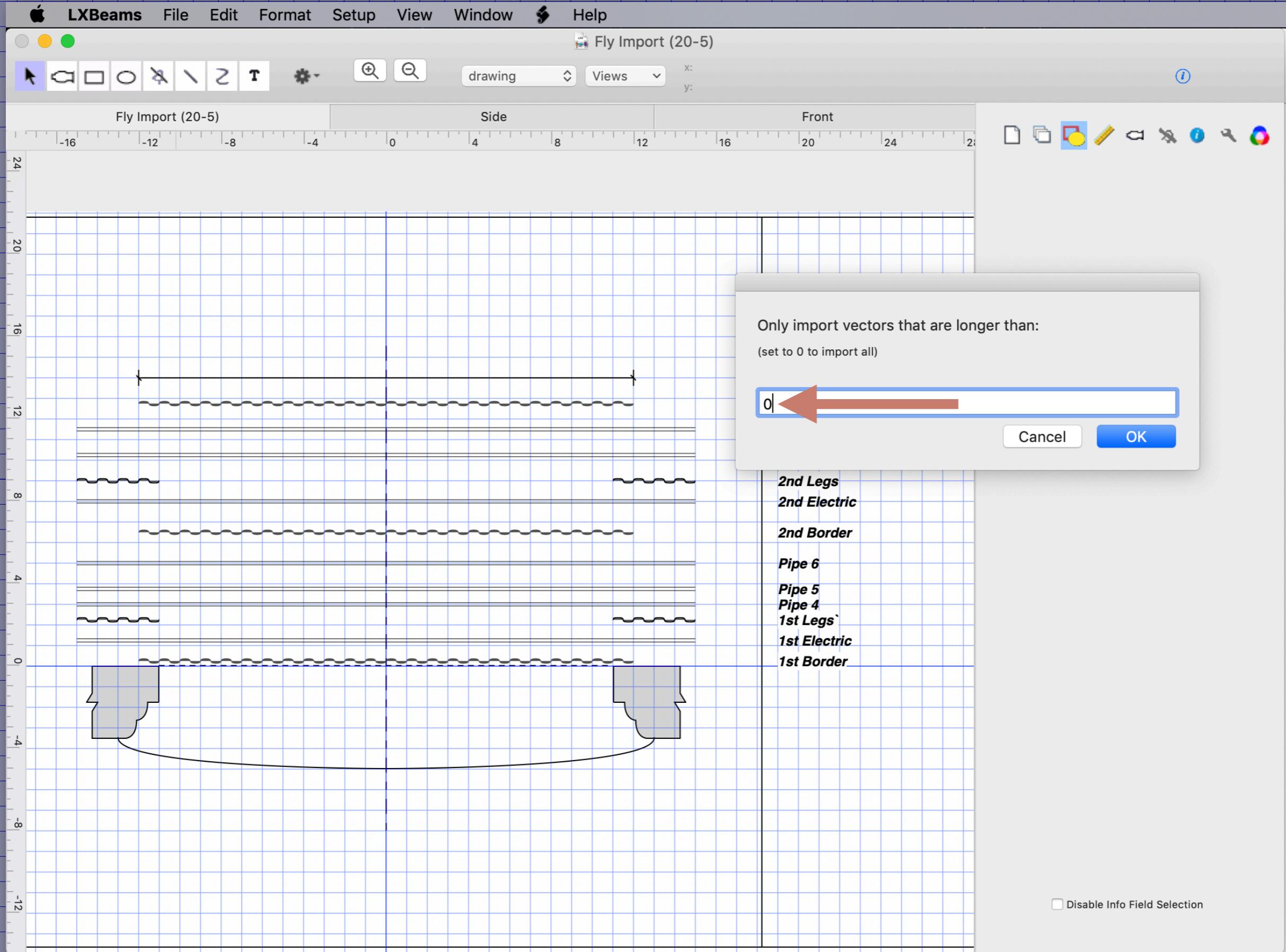
Choose File→Import→Graphic...



Locate the SketchUp Export Example file and open it.

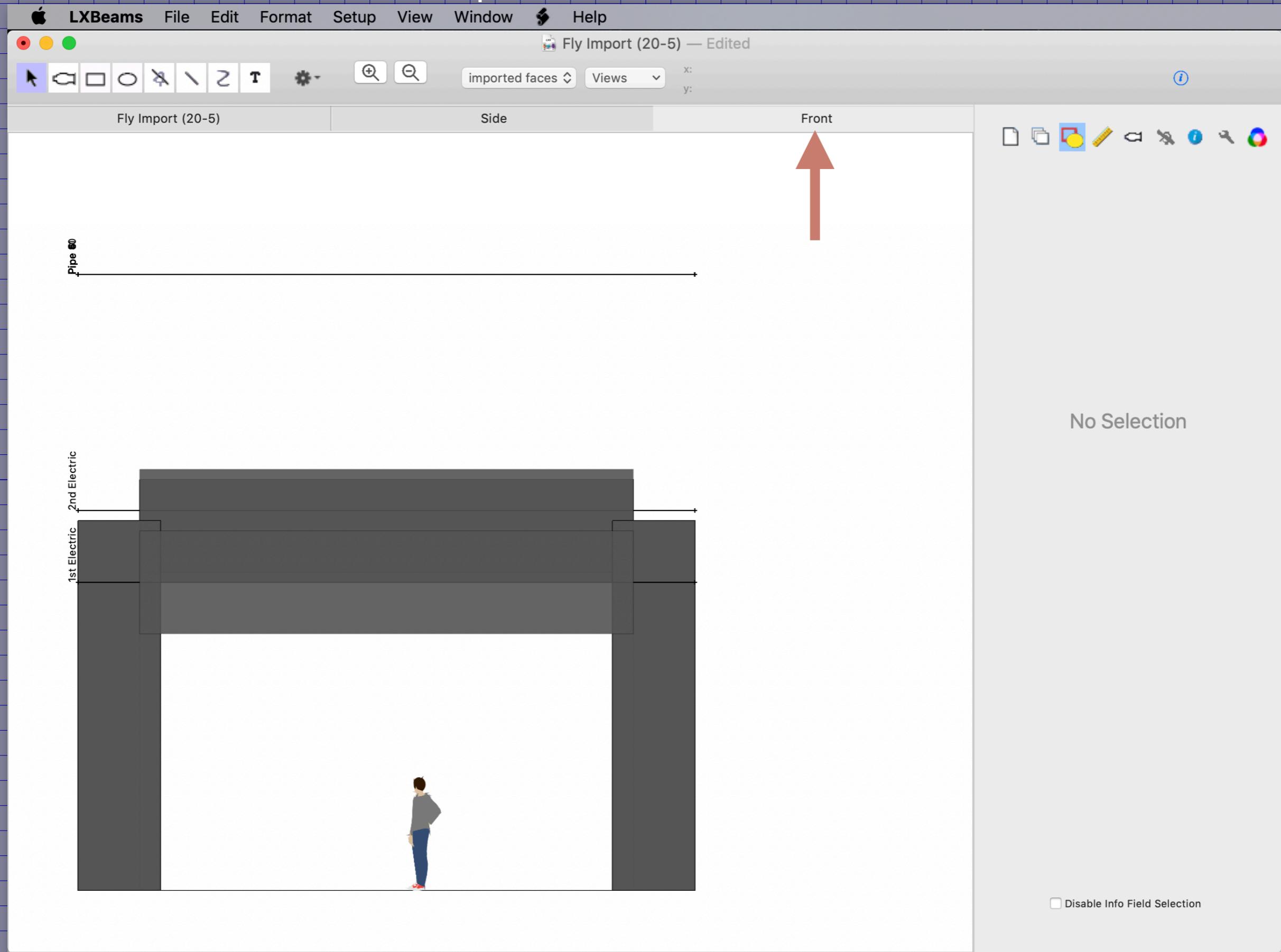


You can simplify a complex model by limiting the small details.



Change the value to zero.

This is the imported model seen from the front.



In this section we've looked at

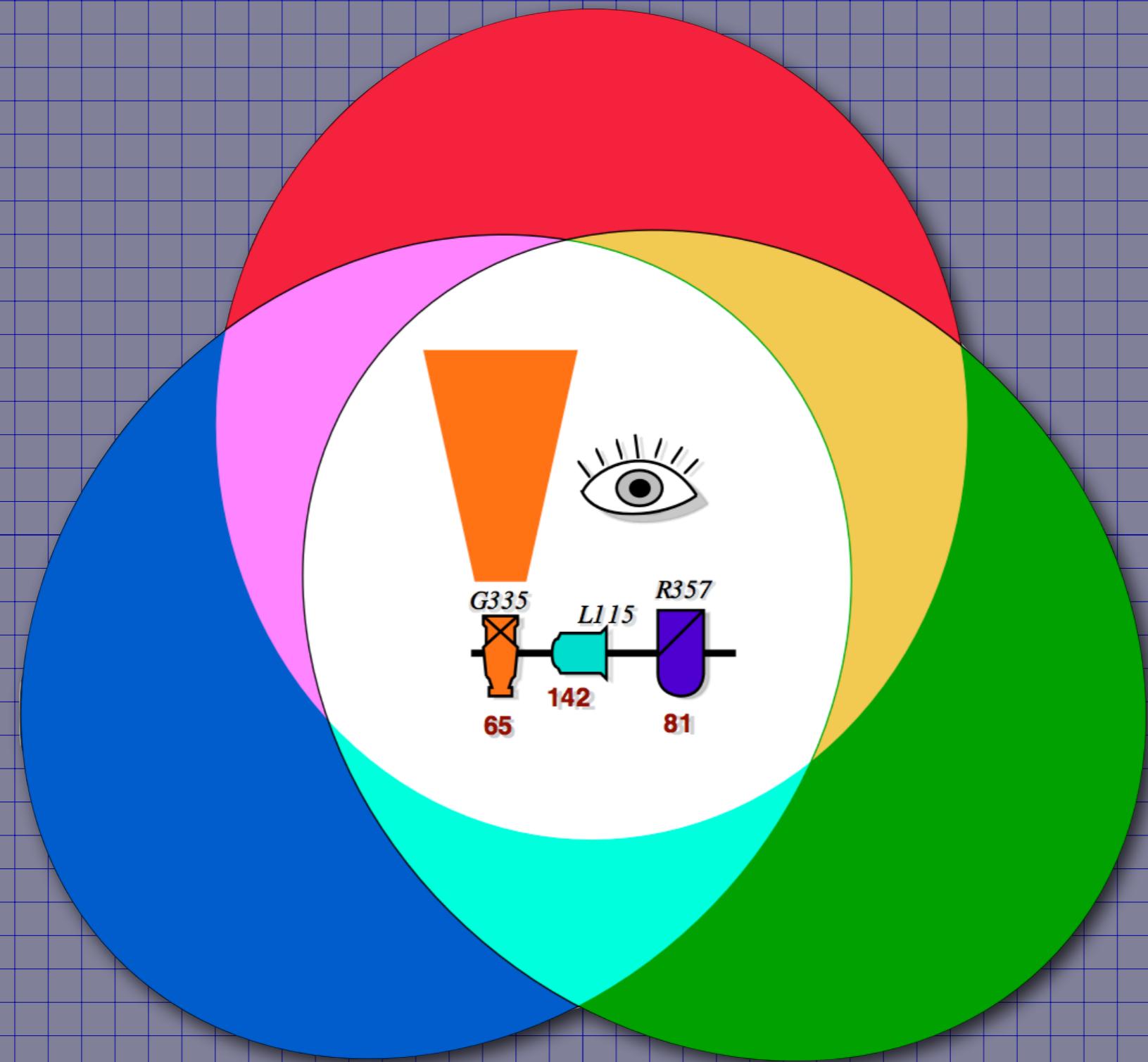
Importing a fly schedule.

- LXBeams can import a fly schedule from a comma separated value (csv) file.
- LXBeams creates positions and other objects based on the information in the spreadsheet.

In this section we've looked at
exporting/importing to/from SketchUp.

- LXBeams includes plugins for SketchUp that allow exchange of files.
- Files can be exported from SketchUp that contain either faces or just the edges.
- Files exported from LXBeams to SketchUp contain the surfaces of its 3D objects.

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