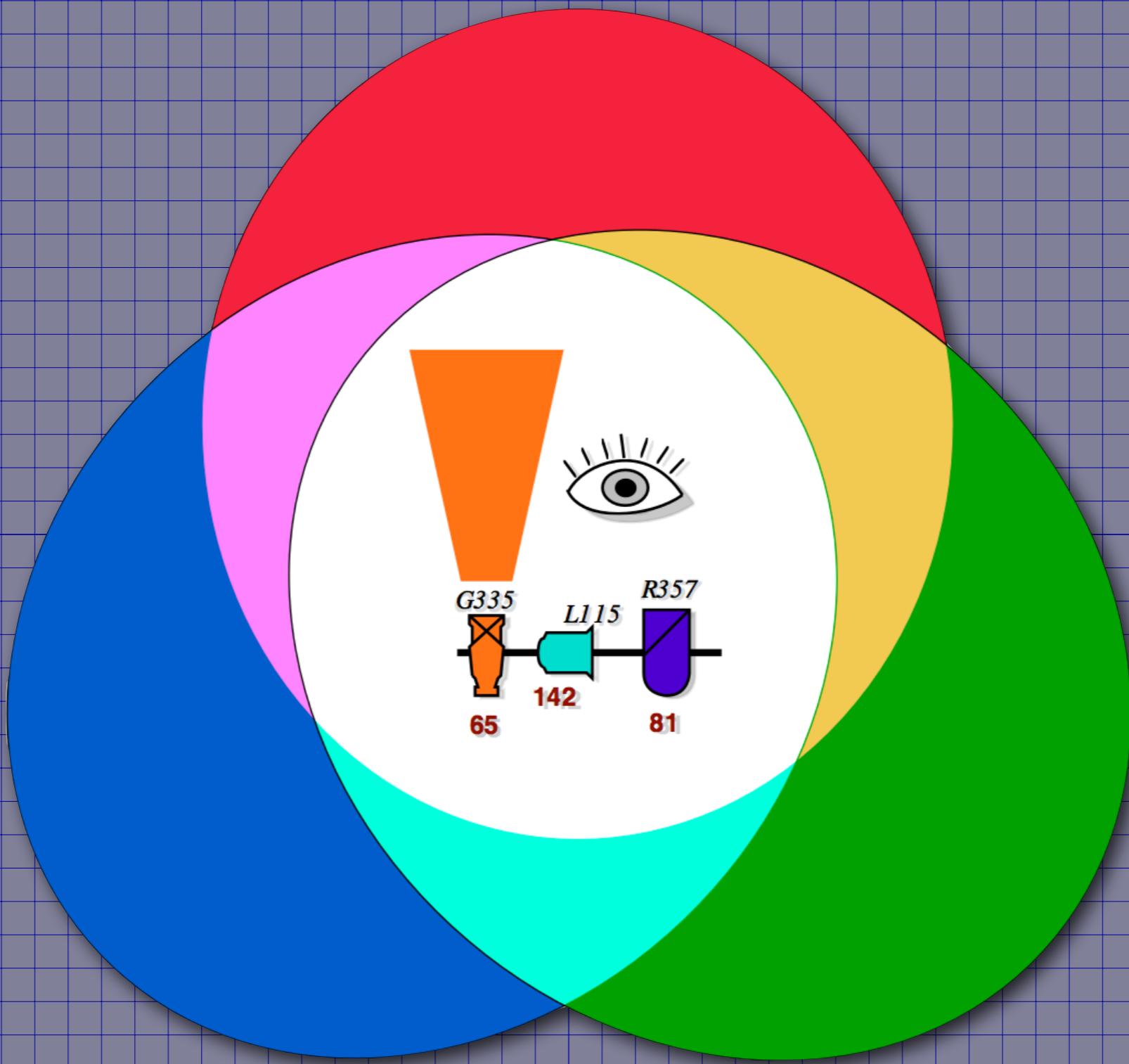


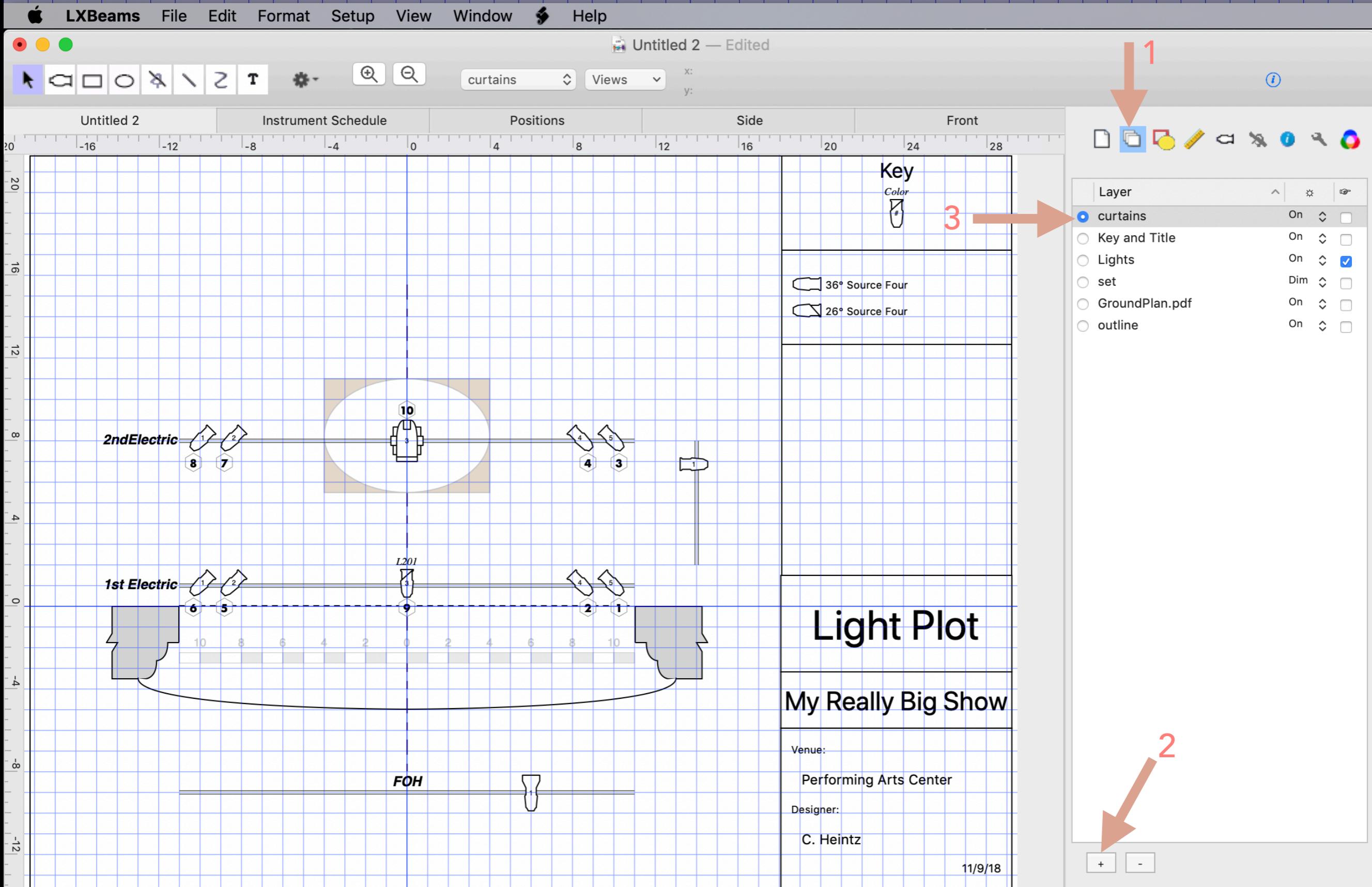
Drawing Properties



IATSE 728 Workshop 2020

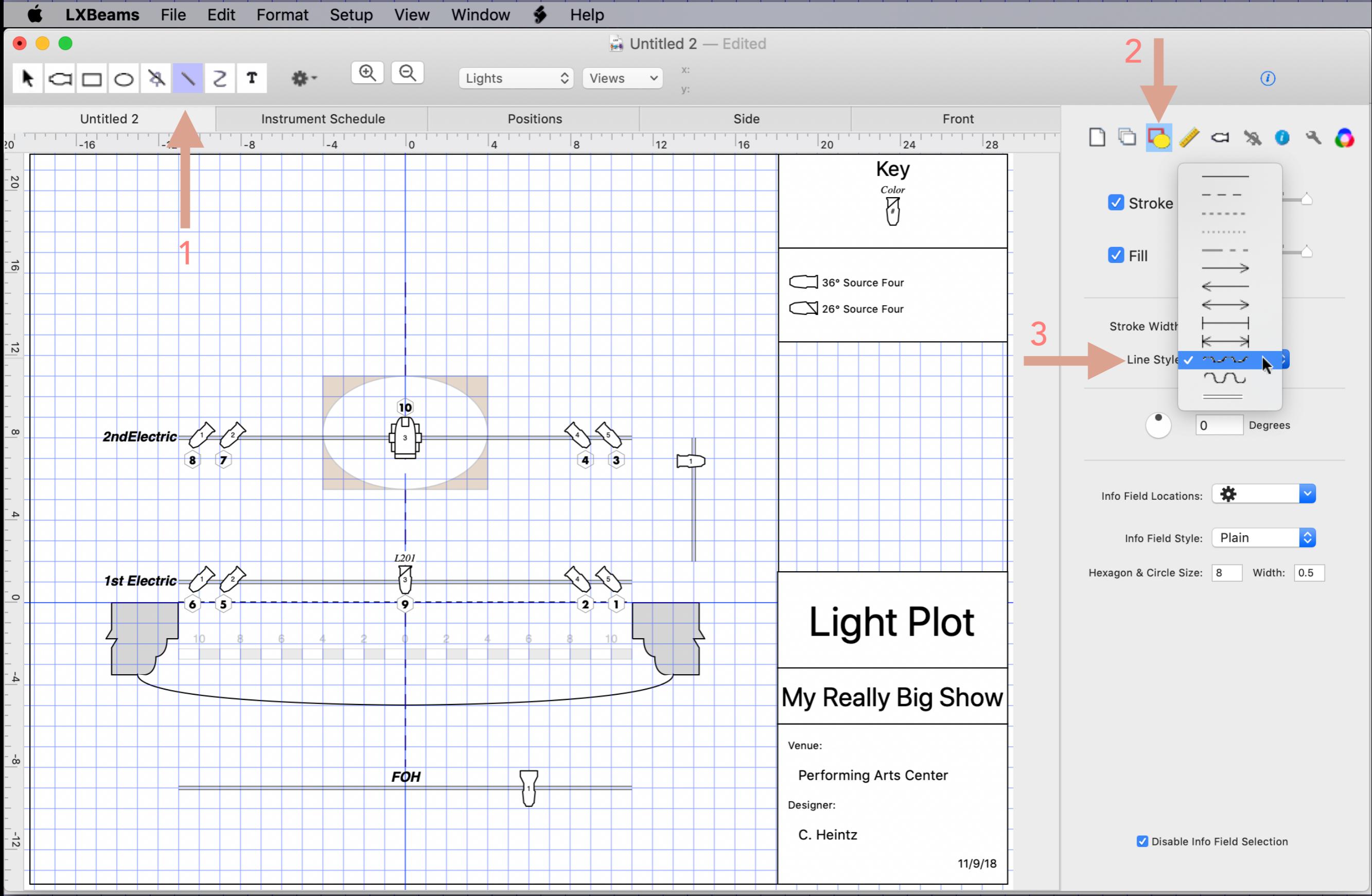
©2020

Add a new layer and name it "curtains".

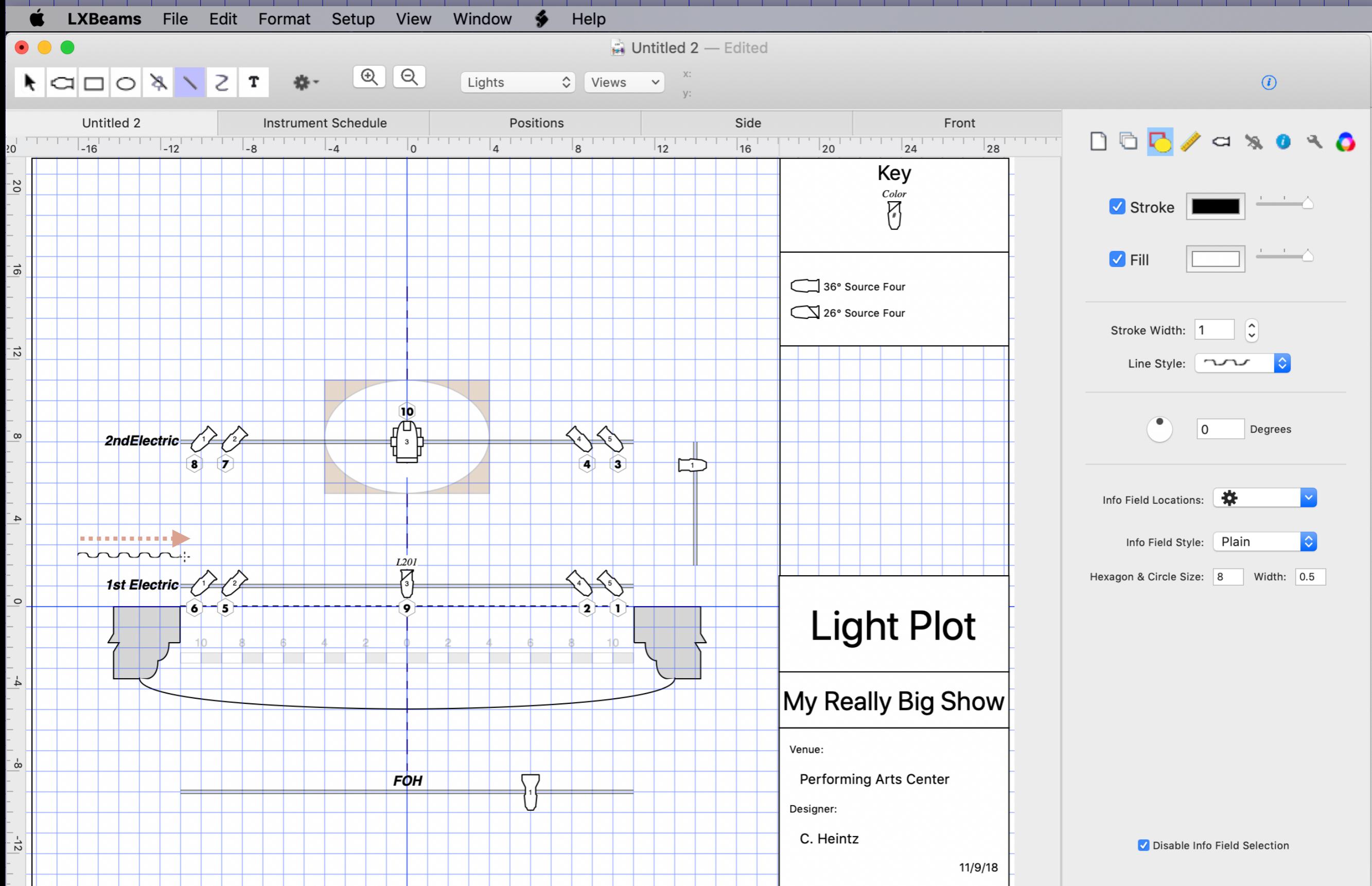


(Double-click the name to edit it.)

Select the line tool. Then, in the Drawing tab select a curtain line style.

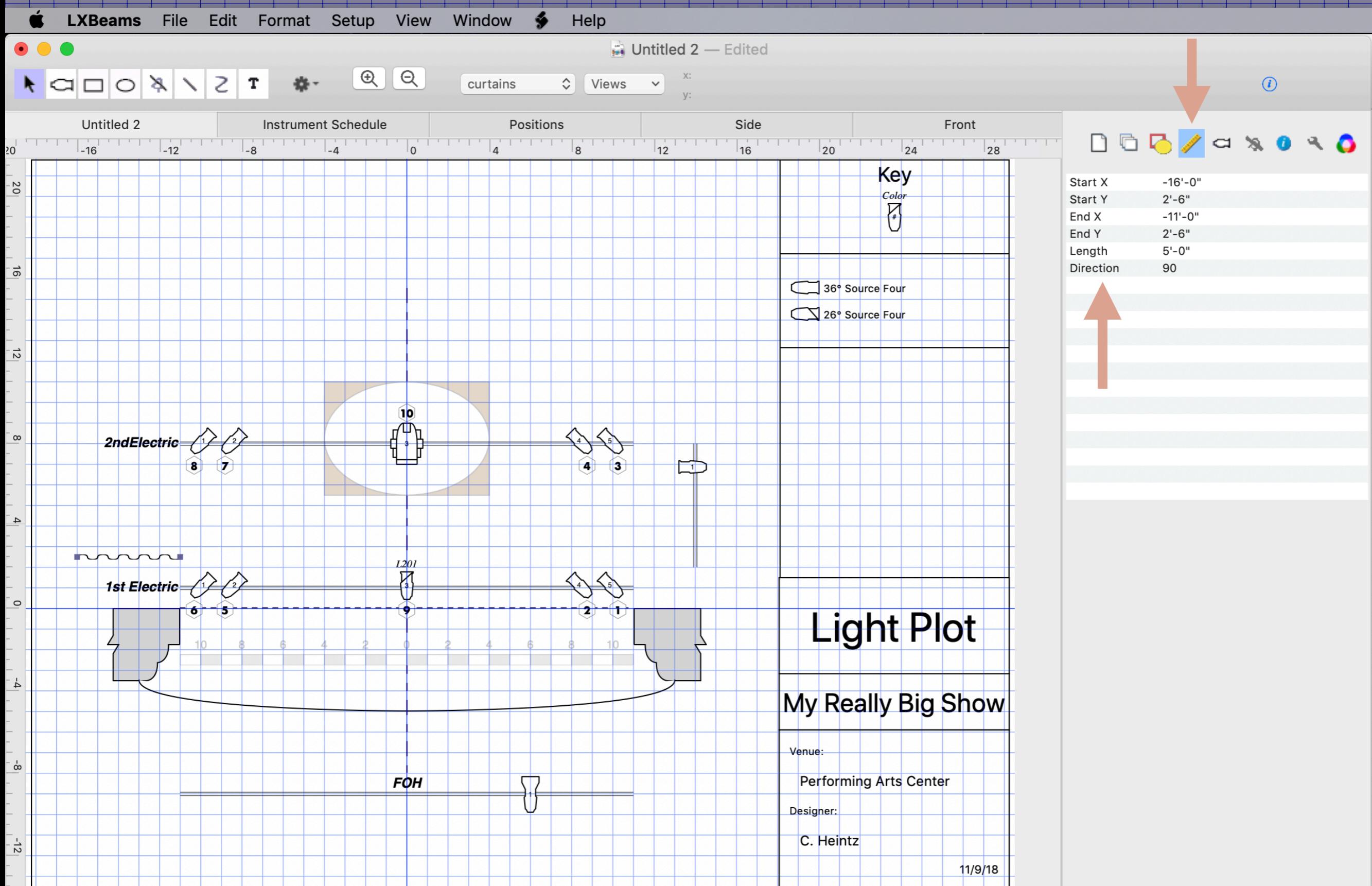


Draw a "leg" about 2-1/2 feet upstage of the proscenium.



Go from 16' offstage to even with the proscenium. (The line should snap to the grid.)

Take a look in the measurements tab to see how you did.



Using the table, you can set the ends of the line precisely.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

curtains Views x: y:

Instrument Schedule Positions Side Front

Start X -16'-0" Start Y 2'-10" End X -11'-0" End Y 2'-10" Length 5'-0.25" Direction 93.8

Key Color #

36° Source Four

26° Source Four

2nd Electric 10 8 7 4 5 3 1

1st Electric L201 6 5 2 1

FOH

Light Plot

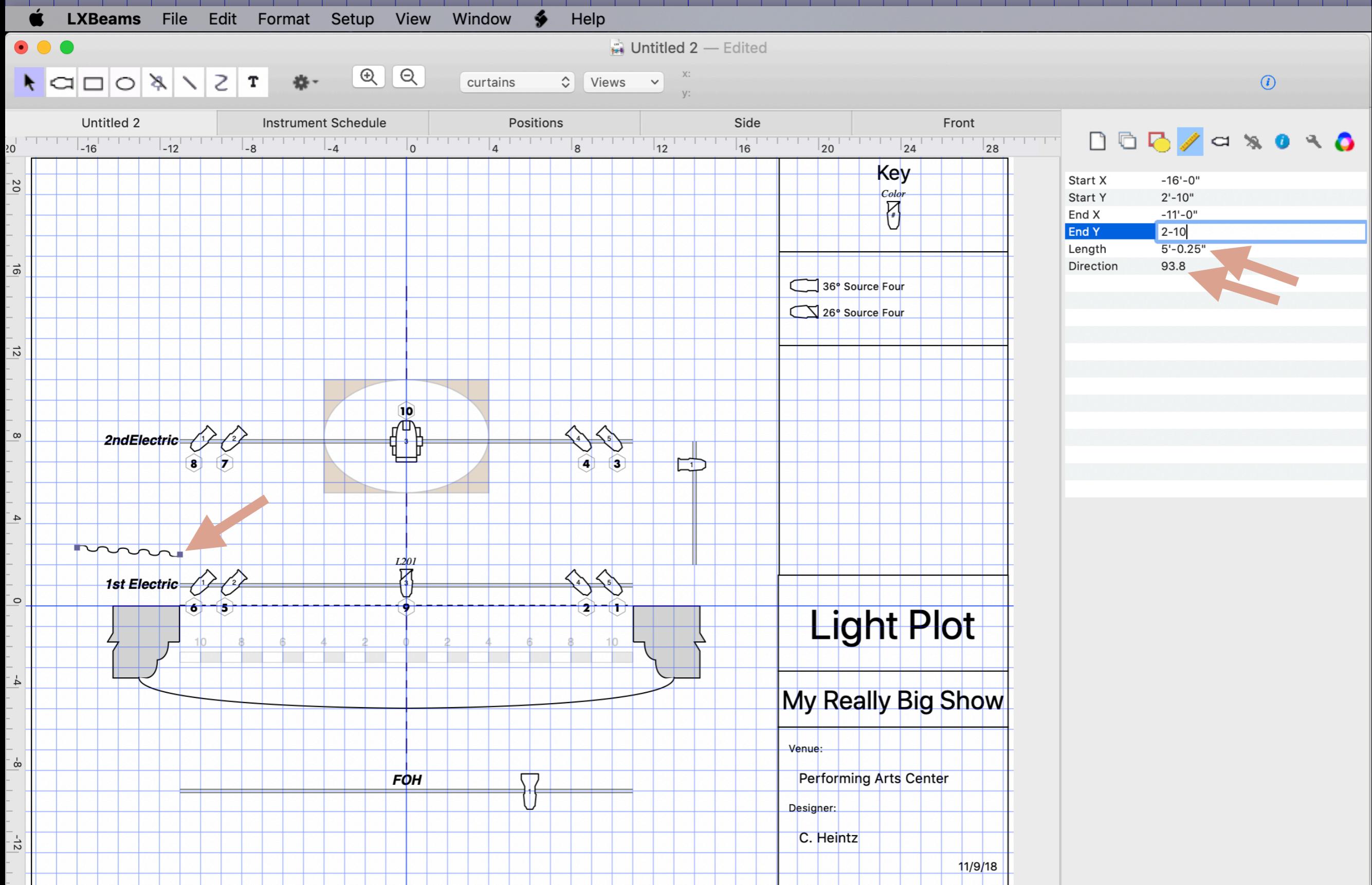
My Really Big Show

Venue:
Performing Arts Center
Designer:
C. Heintz
11/9/18

The screenshot shows a stage plot in LXBeams. On the left, there's a grid-based stage floor plan with various lighting fixtures numbered (1 through 10) and labeled (2nd Electric, 1st Electric, FOH). A central fixture is labeled 'L201'. The right side of the screen features a 'Key' table for a selected leg, which has its 'End Y' value highlighted in blue. Two orange arrows point from the text above to the 'Start Y' and 'End Y' fields in the table. The table also displays the length and direction of the leg. Below the table, there's a large 'Light Plot' section with the text 'My Really Big Show' and information about the venue and designer.

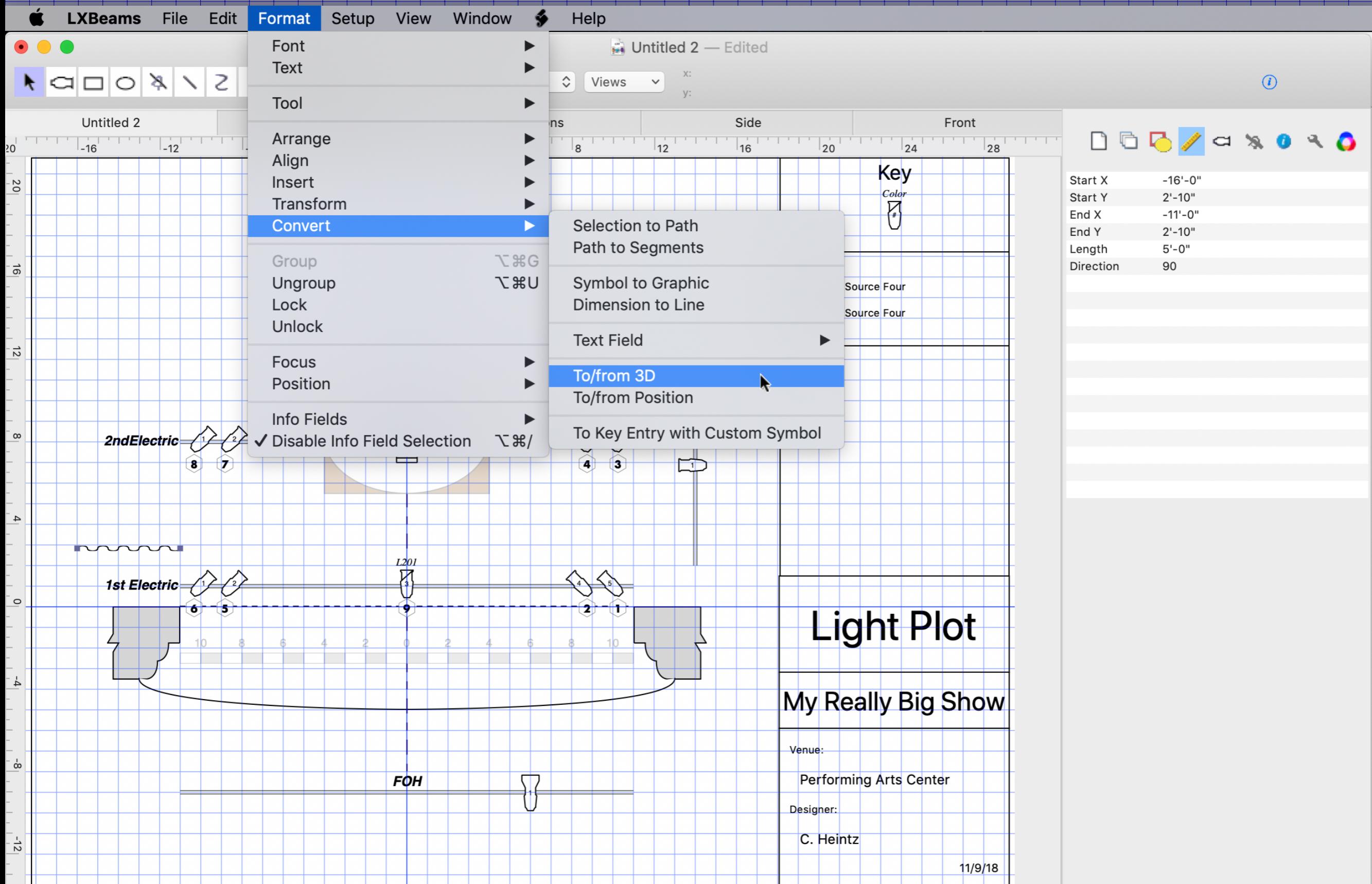
Try setting the leg to 2'-10" upstage. (You have to set both the Start Y and End Y.)

Notice that the Length and Direction properties change as you edit.



The end point hasn't been changed yet...

You can convert a 2D line into a 3D vertical plane.



3D lines are always perpendicular to the x/y plane.

A 3D line has more properties in the Measurements tab.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

curtains Views x:
y:

Instrument Schedule Positions Side Front

Start X -16'-0"
Start Y 2'-10"
End X -11'-0"
End Y 2'-10"
Length 5'-0"
Direction 90
Start Z 0'-0"
End Z 0'-0"
Sides 1
Type face

Key Color #

36° Source Four

26° Source Four

Light Plot

My Really Big Show

Venue:
Performing Arts Center

Designer:
C. Heintz

11/9/18

2ndElectric 10 8 7 4 5 3 1

1st Electric 1 2 6 5 9 8 7 4 3 2 1

L201

FOH

Set the start height (Z) to 15'-0".

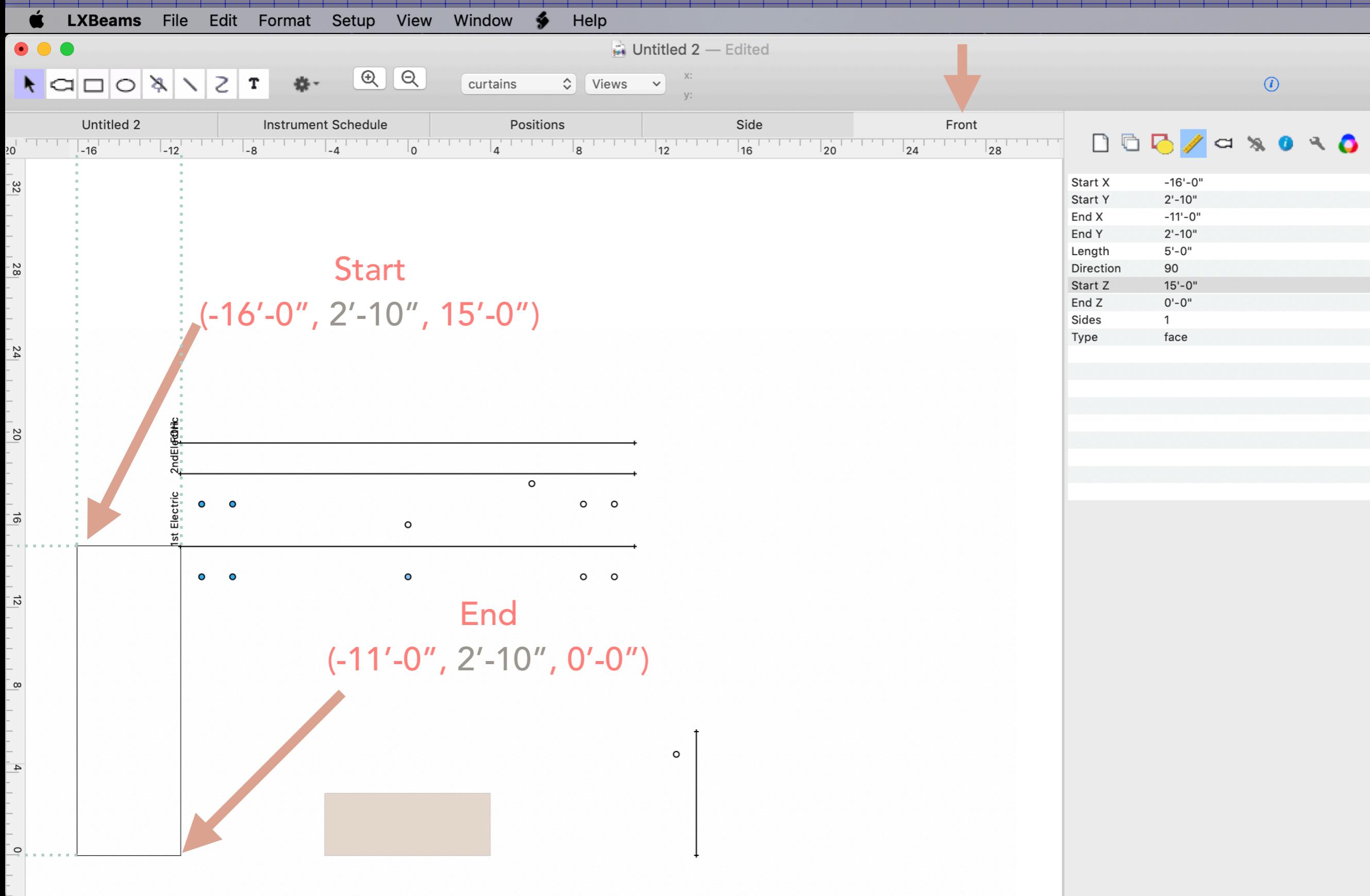
The screenshot shows a stage plot in LXBeams. The plot area includes a grid, axes, and several pieces of equipment labeled with numbers (1 through 10). A central circular area is labeled 'L201'. Below the plot, the text 'FOH' is visible. To the right of the plot is a 'Key' table listing properties for a selected object. An orange arrow points from the text 'A 3D line has more properties in the Measurements tab.' to the 'Key' table. The table lists the following properties:

Start X	-16'-0"
Start Y	2'-10"
End X	-11'-0"
End Y	2'-10"
Length	5'-0"
Direction	90
Start Z	0'-0"
End Z	0'-0"
Sides	1
Type	face

Below the table, there are sections for 'Light Plot' and 'My Really Big Show', along with venue and designer information. At the bottom, it says 'Set the start height (Z) to 15'-0"'.

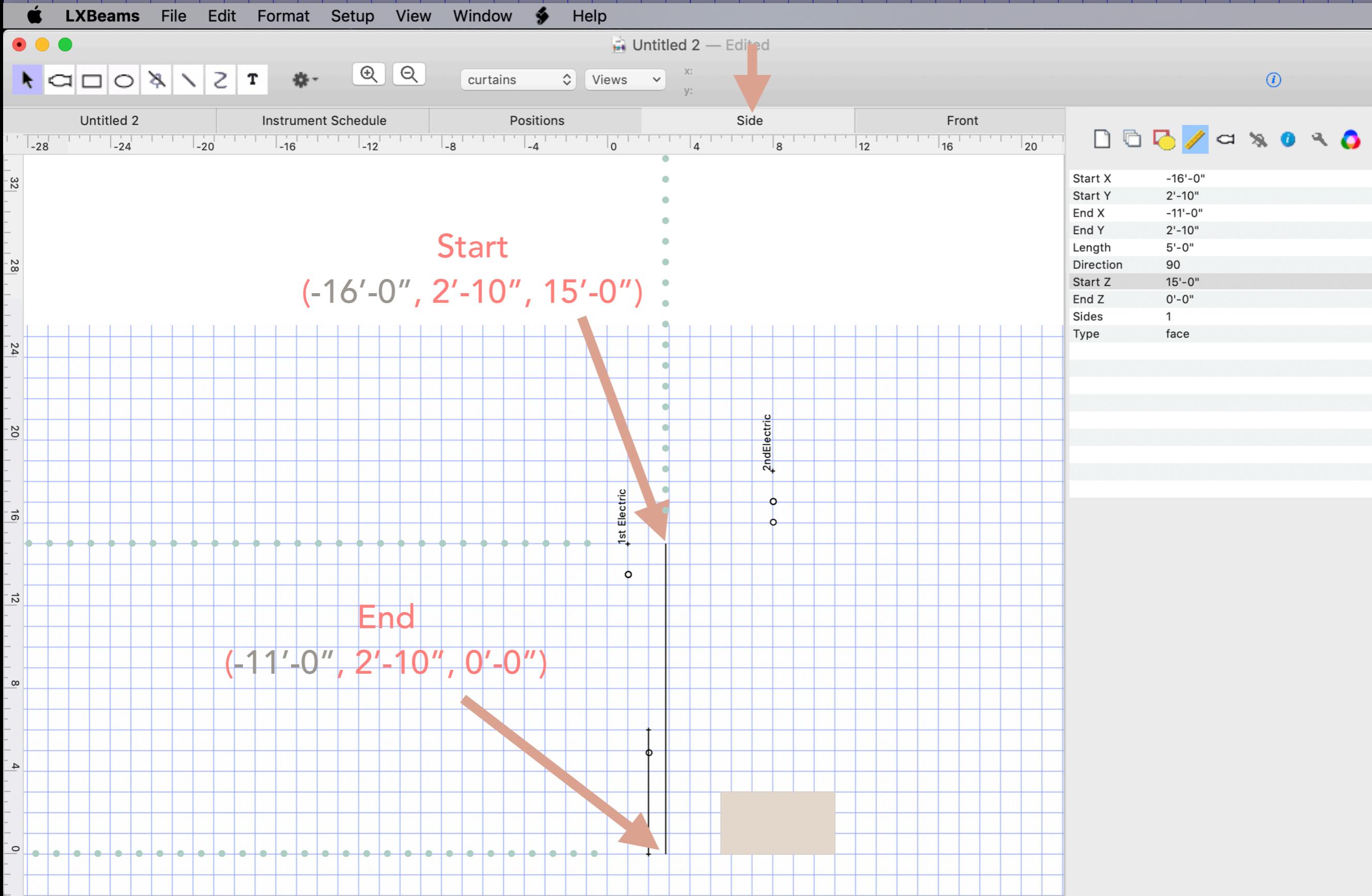
Set the start height (Z) to 15'-0".

You can see this more clearly in the Front tab.



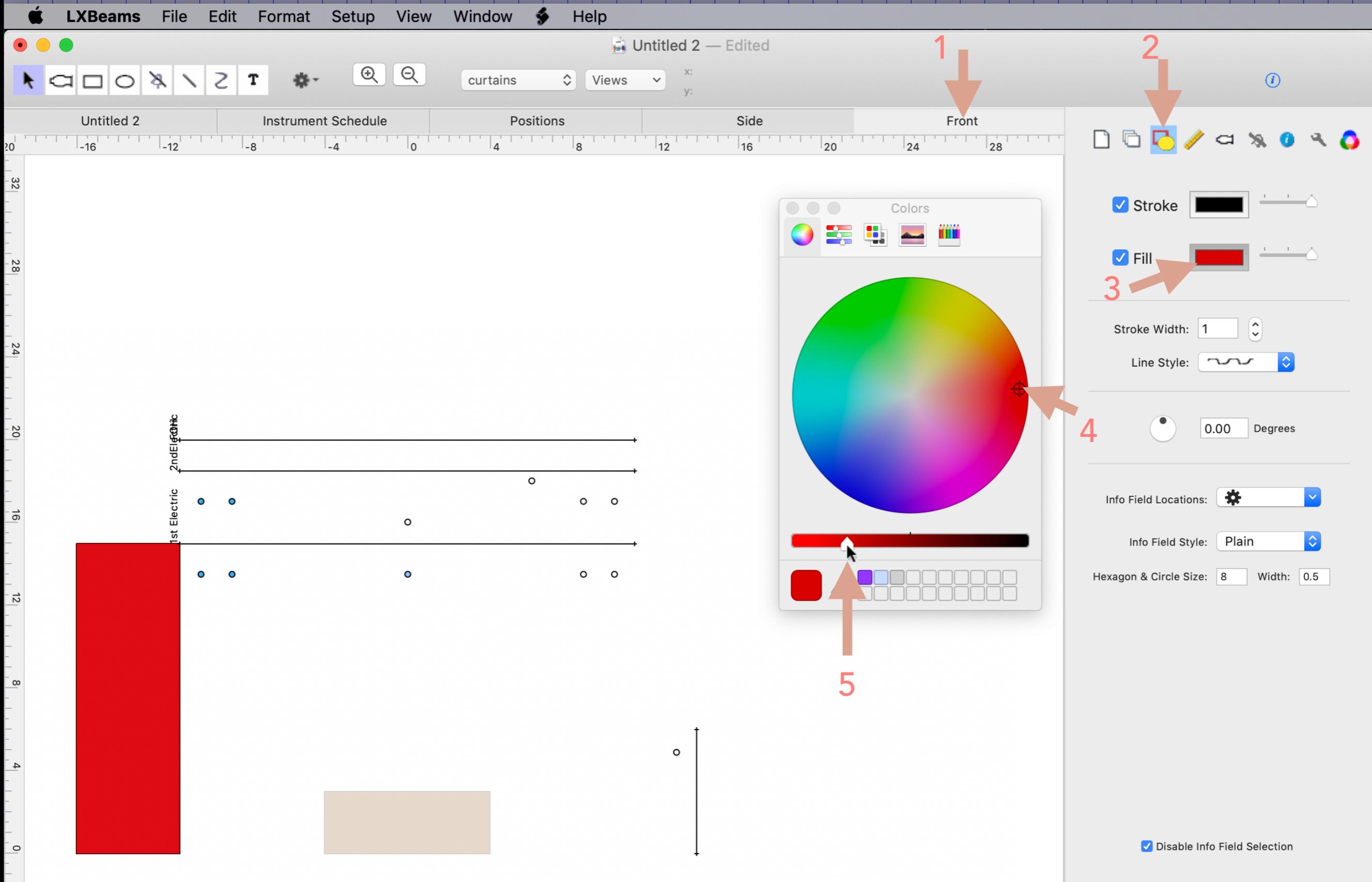
Here left-to-right is the X axis and top-to-bottom is the Z axis.

And, from the side...



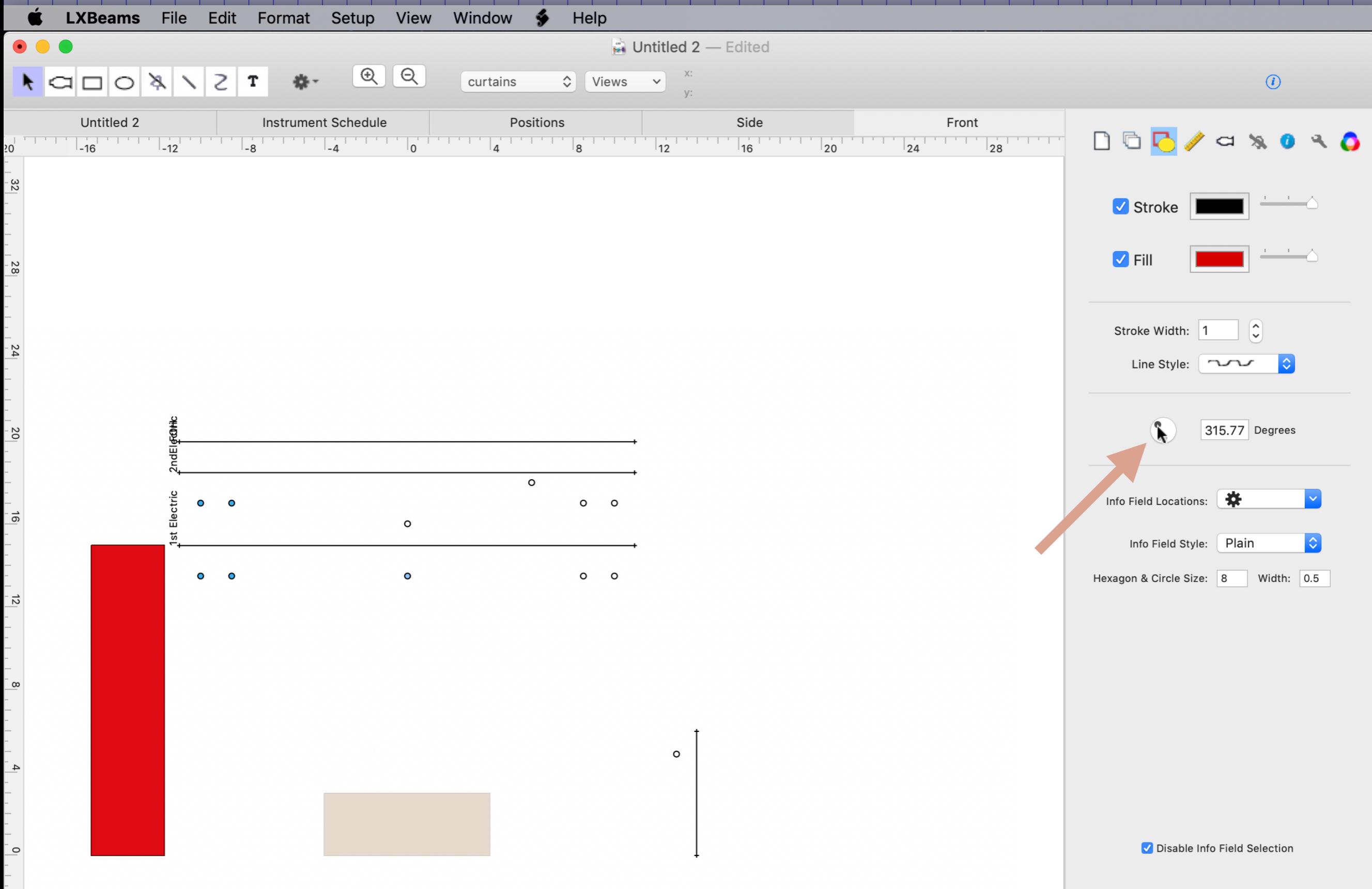
Here left-to-right is the Y axis and top-to-bottom is the Z axis.

As long as the line remains selected, you can edit its drawing properties.



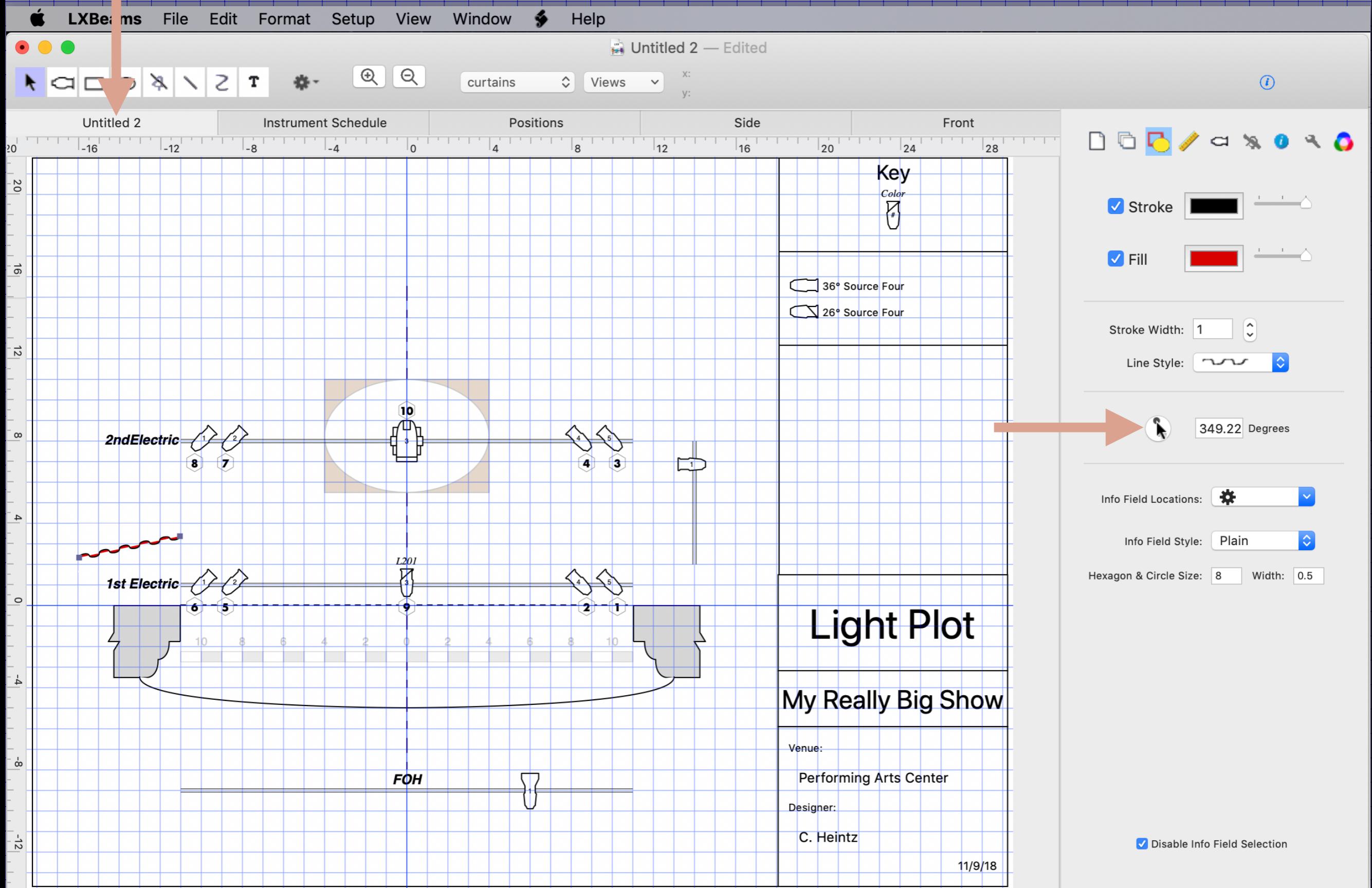
Try changing the fill color while viewing the front tab.

Try adjusting the rotation.

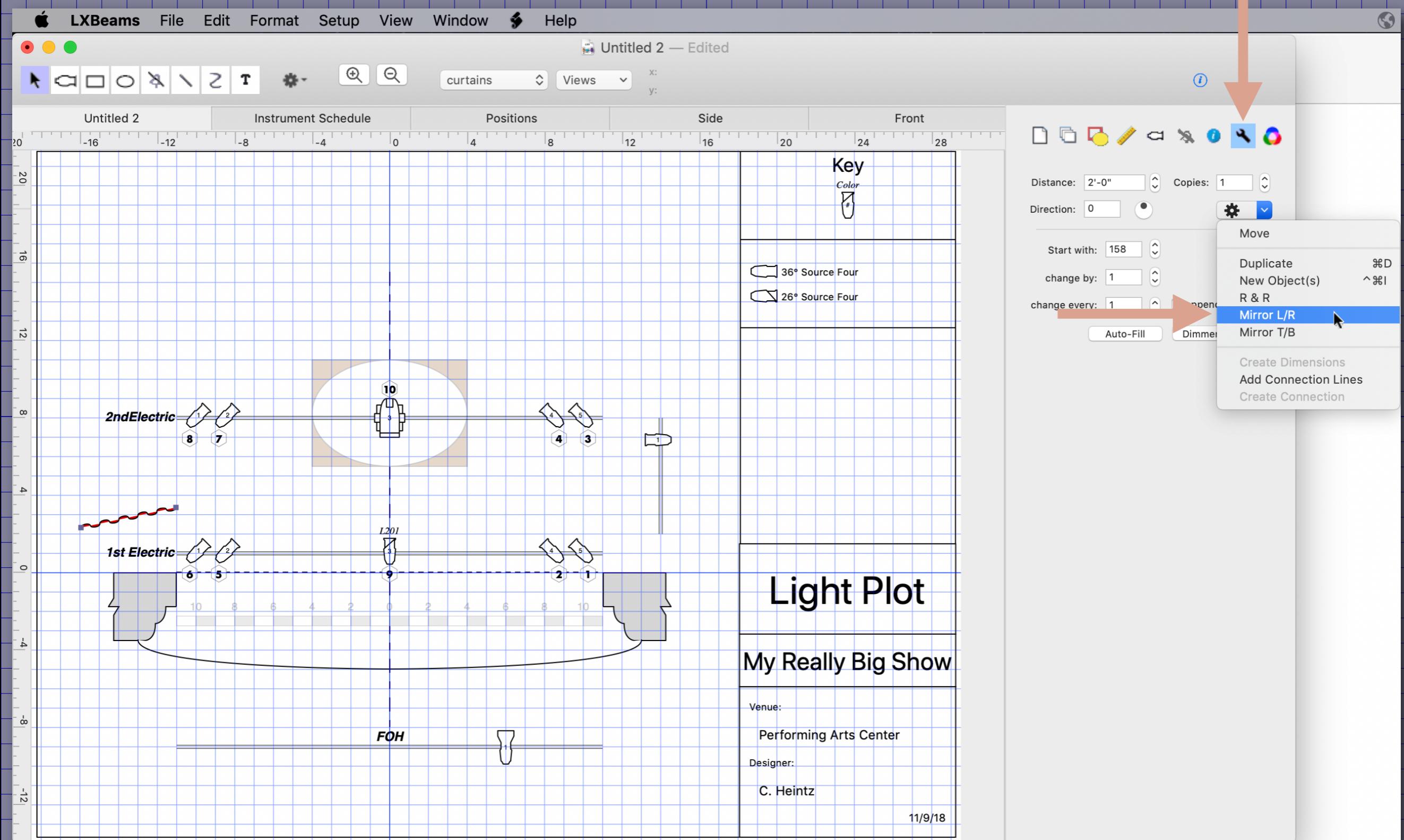


The rotation control is about the lines center on the 2D x/y plane.

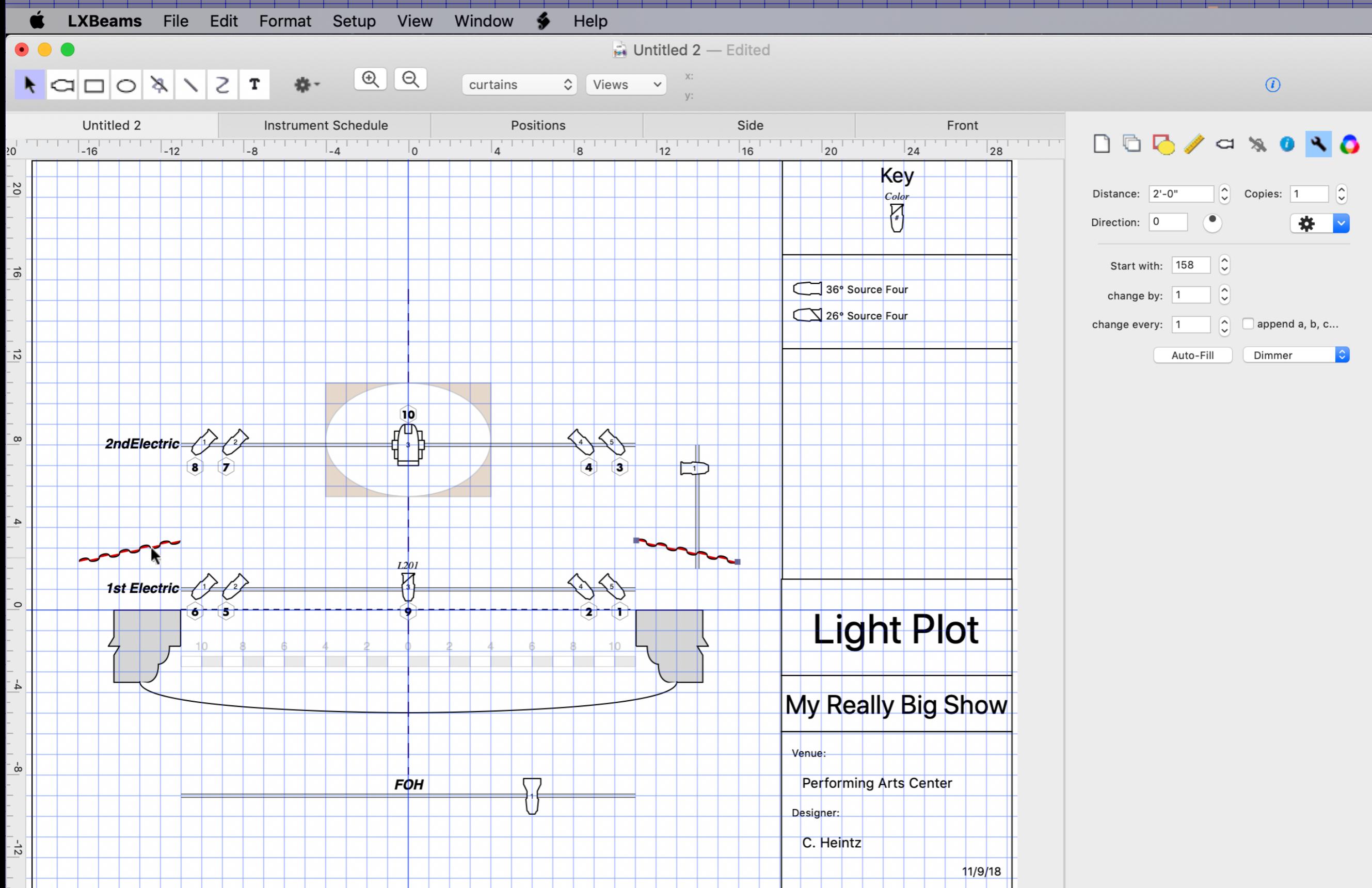
Adjust the rotation in the main view.



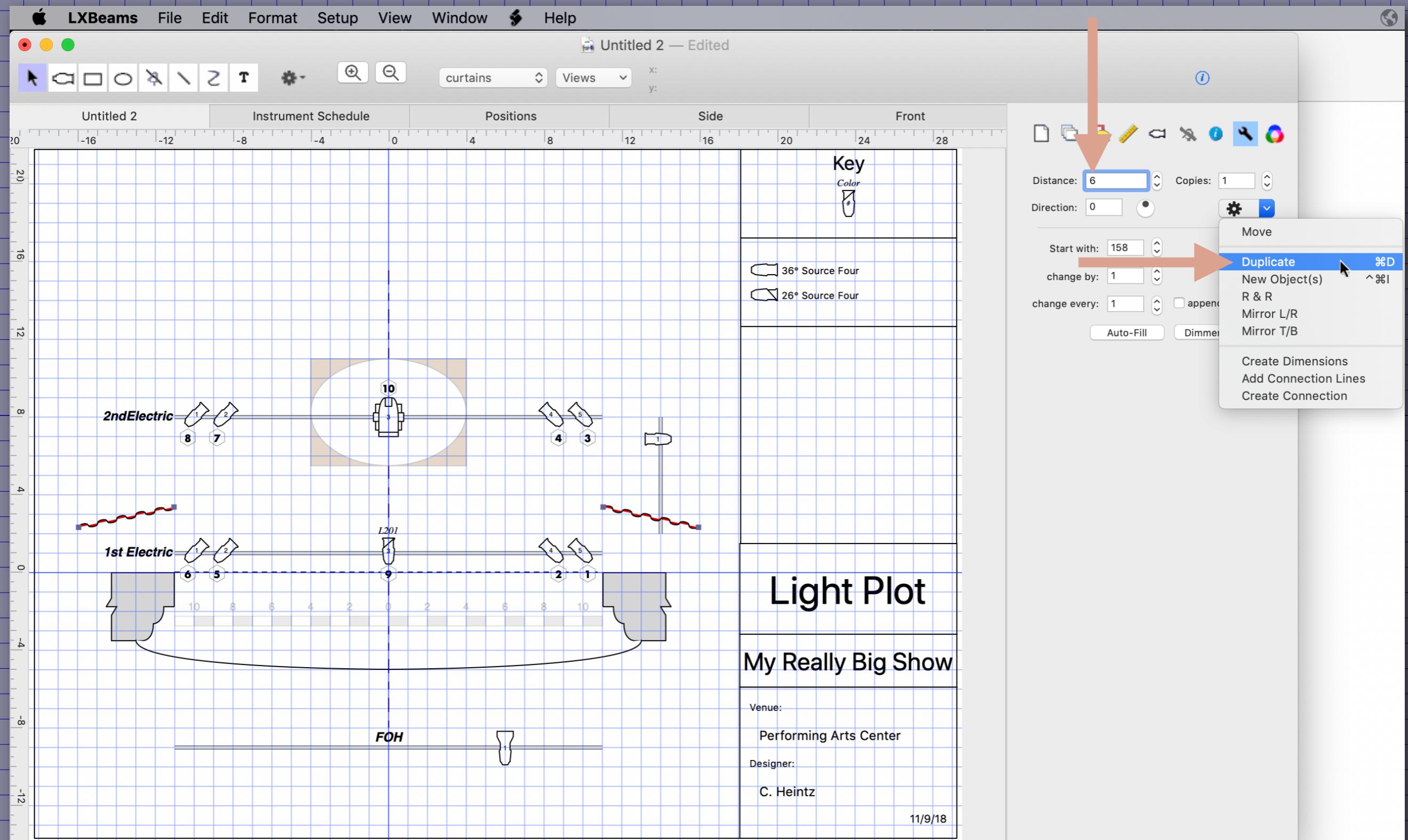
In the tools tab, you can mirror the leg to match it on the other side of the stage.



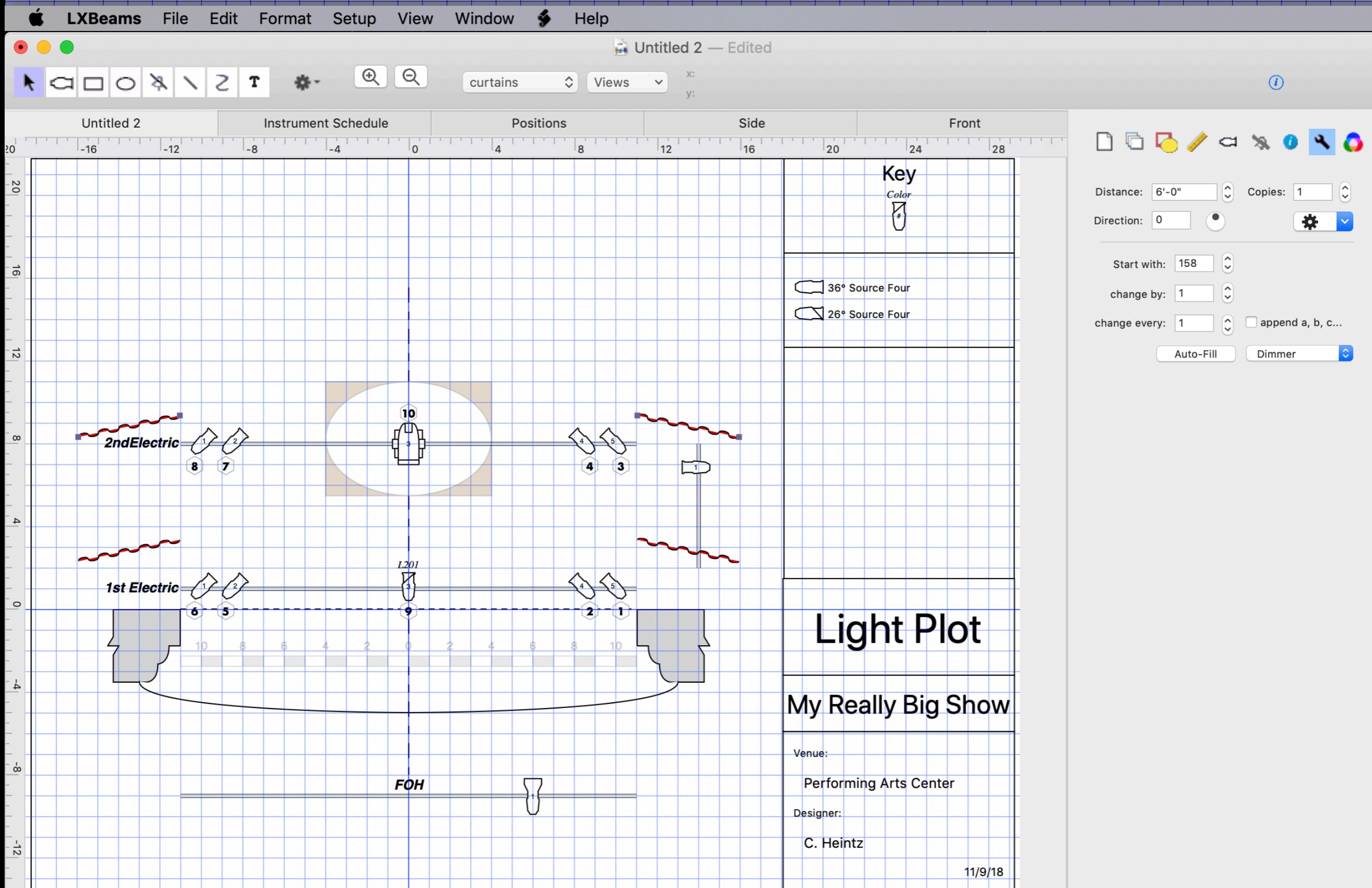
Hold down the shift key and click on the first leg line.



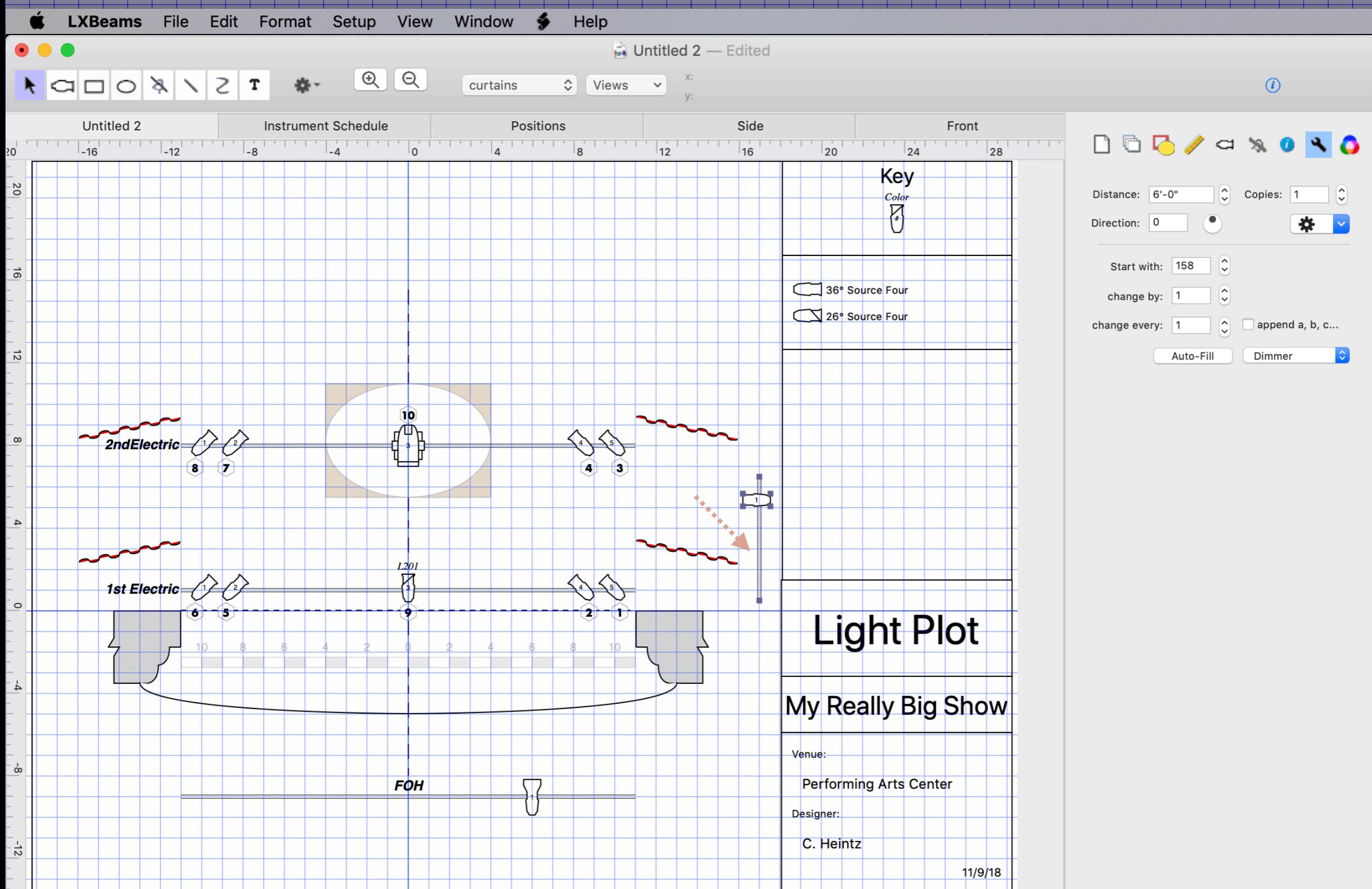
With both leg lines selected, change the distance in the Tools tab to 6 and then select Duplicate from the popup.



Now that there are legs drawn, the boom probably needs to move.



After selecting the boom line and light, drag them to the side.



Load the key named "extras"

LXBeams File Edit Format Setup View Window Help 7:34 AM

Untitled 2 — Edited

Instrument Schedule Positions Side Front

2nd Electric 10 8 7 4 3 1

1st Electric 6 5 9 2 1

L201 10 8 6 4 2 0 2 4 6 8 10

FOH

Key
Color
36° Source Four
26° Source Four

Light Plot

My Really Big Show

Venue:
Designer:
C. Heintz
11/9/18

36° Source Four (9)

Search Key Library

Palette List

Key

Entry Info...
Keep in Key
Show Full Entry Name
Show Palette Scroller
Load Key ►
Export Key...
Add Entry...
Duplicate Entry...
Remove Entry
Remove Unused Entries

Deg:

0.0

default
adb
altman
arri
cct
chauvet
cineo
colortran
etc
extras
fixed_led
hive
kino_flo
litemat
litpanels
mactech
martin
mole
moving
music
niethammer
pars
rankstrand
robertjuliat
selecon
spotlight_it
strand
strandlighting
striplights
workshop example
Import...

The screenshot shows the LXBeams software interface. On the left, there is a 'Light Plot' window titled 'Untitled 2 — Edited'. It displays a stage floor plan with various lighting fixtures and their positions. Labels include '2nd Electric', '1st Electric', 'L201', and 'FOH'. A central fixture is labeled '10'. Other fixtures are numbered 1 through 10. Below the plot, there is a timeline or schedule with numerical values from -12 to 28. To the right of the plot, there is a 'Key' palette with sections for 'Color', '36° Source Four', and '26° Source Four'. Below the palette, there is a section for 'Light Plot' and 'My Really Big Show' with fields for 'Venue', 'Designer', and a date. At the bottom right, there is a search bar for 'Key Library'. On the right side of the screen, there is a 'Key' palette with a list of available keys. The key 'extras' is highlighted in blue, indicating it is selected. A context menu is open over the 'extras' key, listing options such as 'Entry Info...', 'Keep in Key', 'Show Full Entry Name', 'Show Palette Scroller', 'Load Key' (which is also highlighted in blue), 'Export Key...', 'Add Entry...', 'Duplicate Entry...', 'Remove Entry', and 'Remove Unused Entries'. The 'extras' key is described as having 9 entries. The overall interface is a standard Mac OS X style with a dark theme.

Choose the Light tool. Then, select the Location indicator symbol.

The screenshot shows the LXBeams software interface. The main window displays a stage plot with various lighting fixtures and equipment. A red arrow labeled '1' points to the 'Light' tool icon in the toolbar. Another red arrow labeled '2' points to the 'Location' indicator symbol in the light palette. The palette includes sections for Key, Degrees, and Location, with a search bar at the bottom.

LXBeams

File Edit Format Setup View Window Help

Untitled 2 — Edited

curtains Views x: y:

Instrument Schedule Positions Side Front

Untiled 2

Key

Color

36° Source Four

26° Source Four

Degrees 0.00

Location (0)

Search Search

Instrument Schedule

Positions

Side

Front

20

16

12

8

4

0

-4

-8

-12

1

2nd Electric

10

8 7

1 2

1st Electric

L201

6 5

1 2

1 2

1 2

FOH

10 8 6 4 2 2 4 6 8 10

Light Plot

My Really Big Show

Venue:
Performing Arts Center

Designer:
C. Heintz

11/9/18

If you have a light selected you will get an alert. If so, choose "Cancel".

Draw a location indicator where the boom will be placed.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

curtains Views X: y:

Instrument Schedule Positions Side Front

Untitled 2

20 16 12 8 4 0 -4 -8 -12

2nd Electric 10 8 7 4 3 1 2 6 5 L201 9 2 1 4 5 1 FOH 1

Key Color
36° Source Four
26° Source Four

Light Plot

My Really Big Show

Venue:
Performing Arts Center

Designer:
C. Heintz

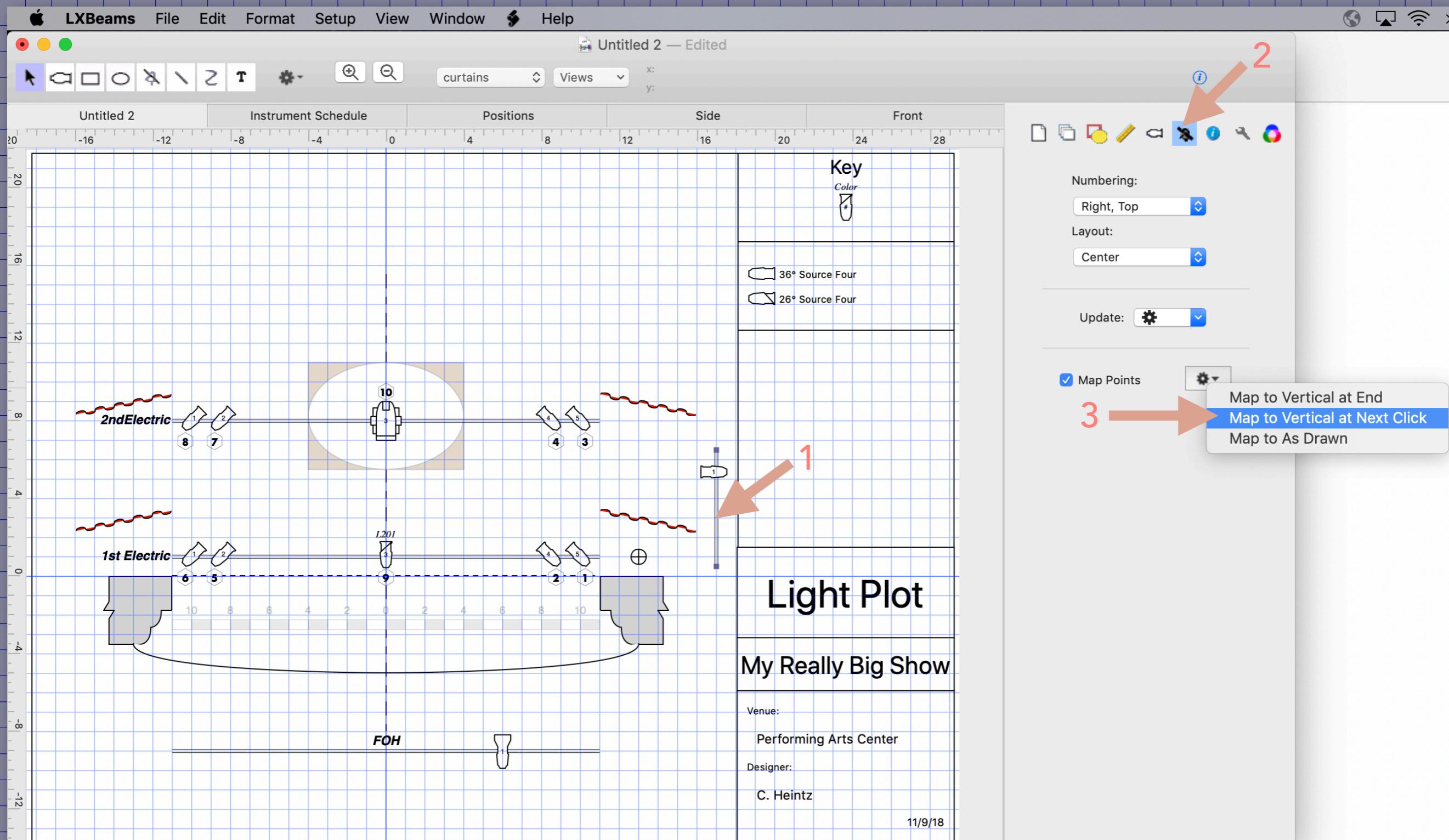
11/9/18

Palette List

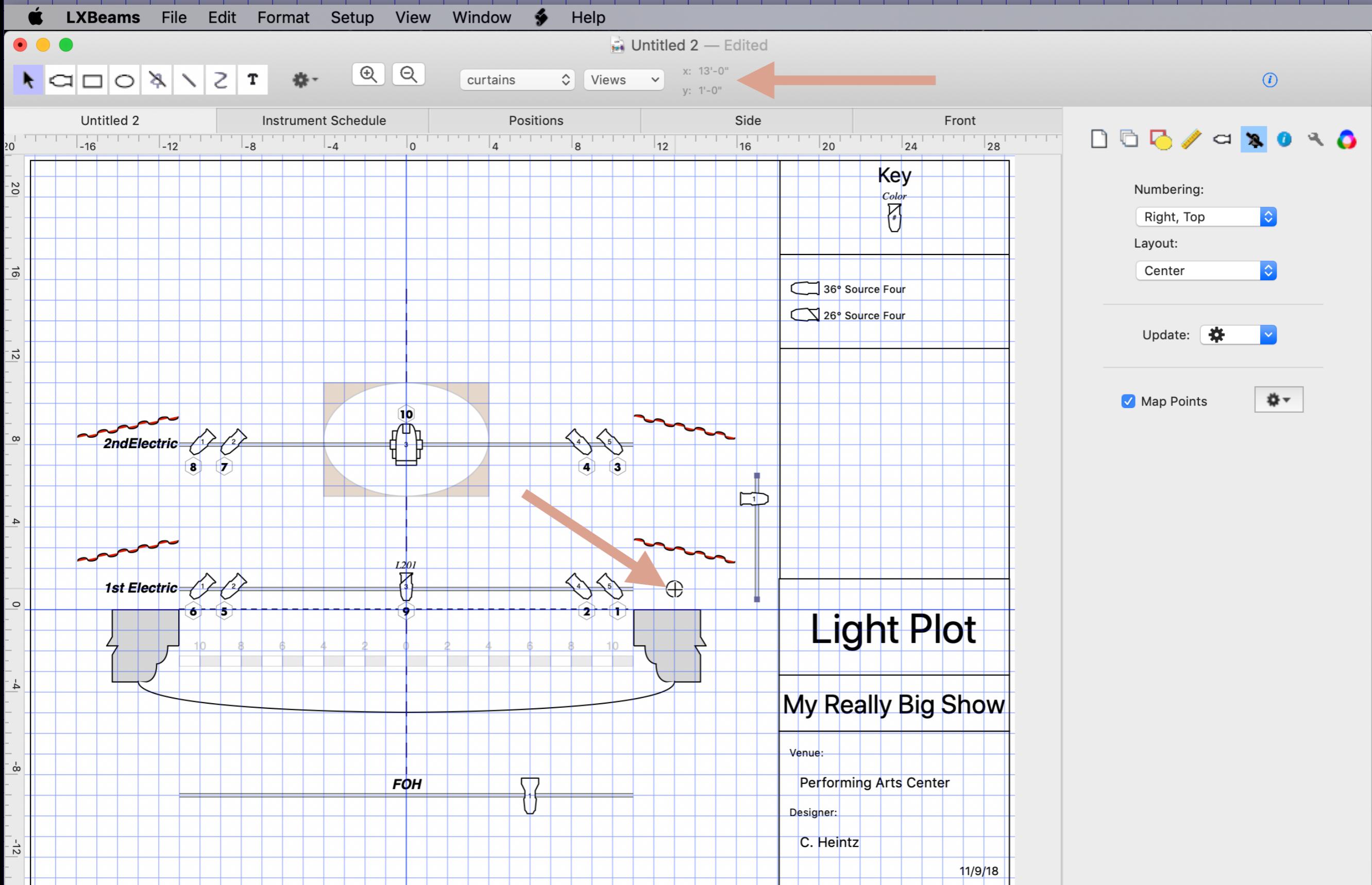
Key Degrees 0.00

Search Search Key Library

Select the boom line and in the Position tab, Map to Vertical at Next Click.

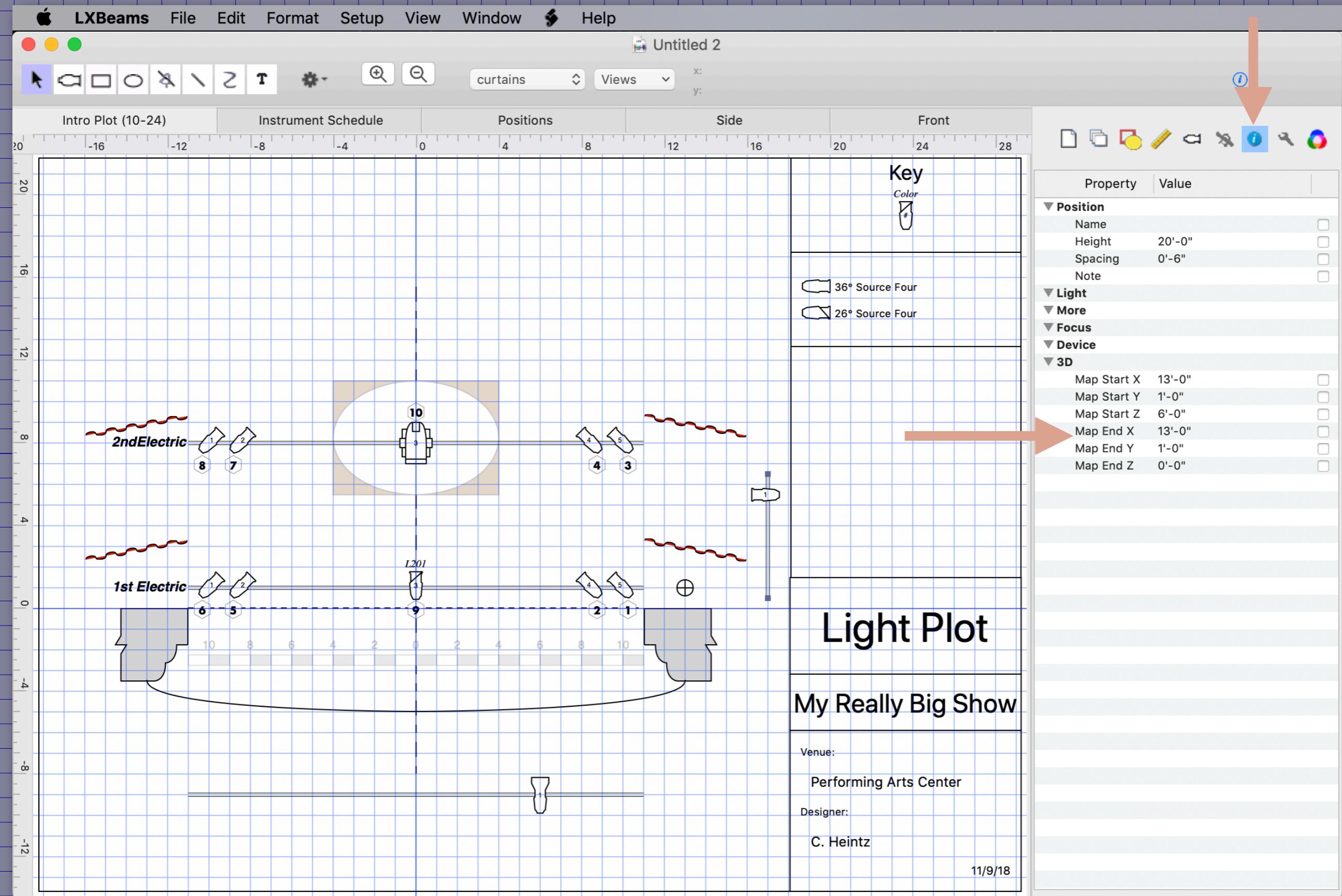


Carefully position the cursor over the boom location and click.



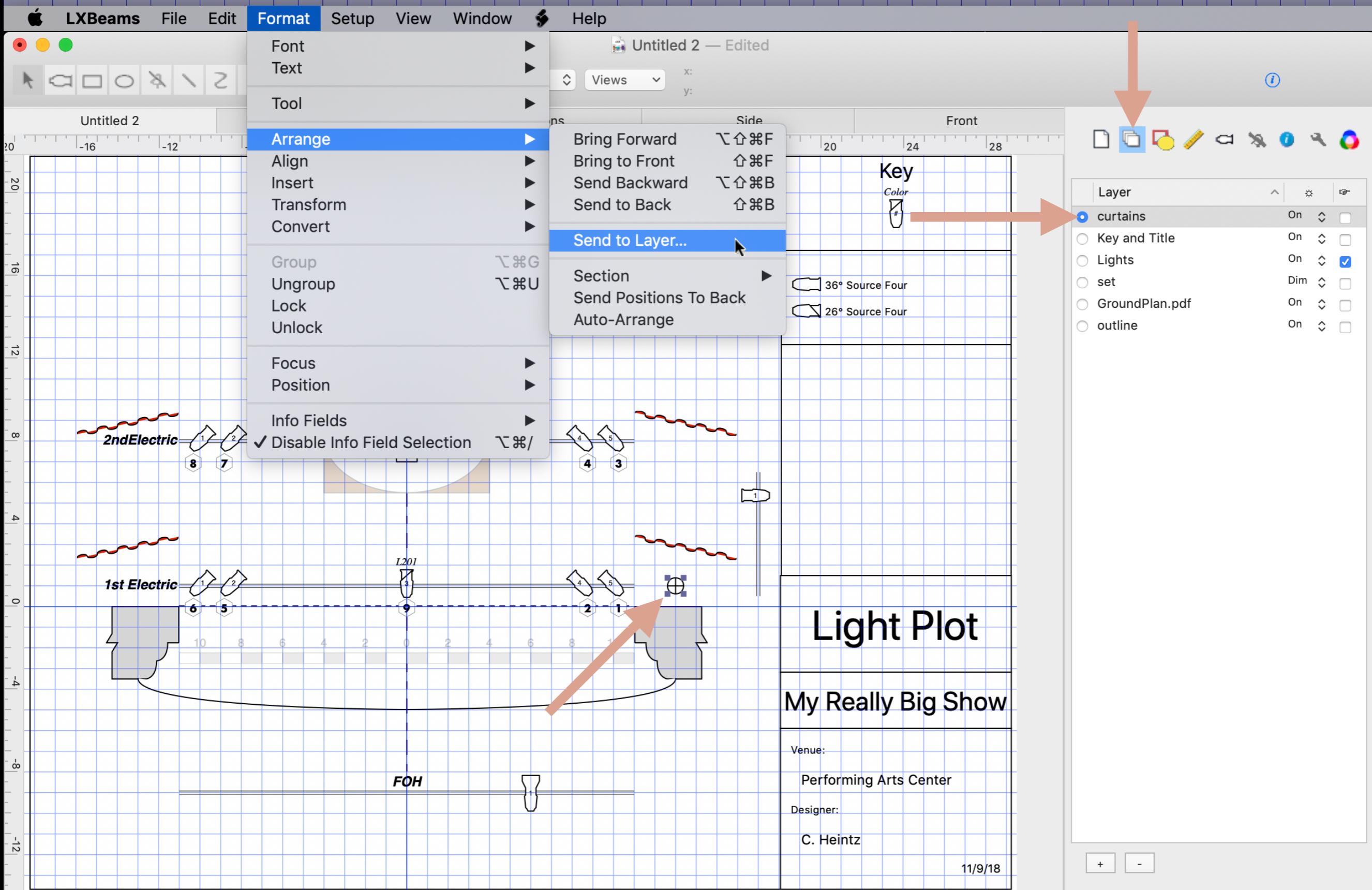
You can use the cursor coordinates displayed in the toolbar to help be precise.

Or, you can edit the Map properties in the Info table.



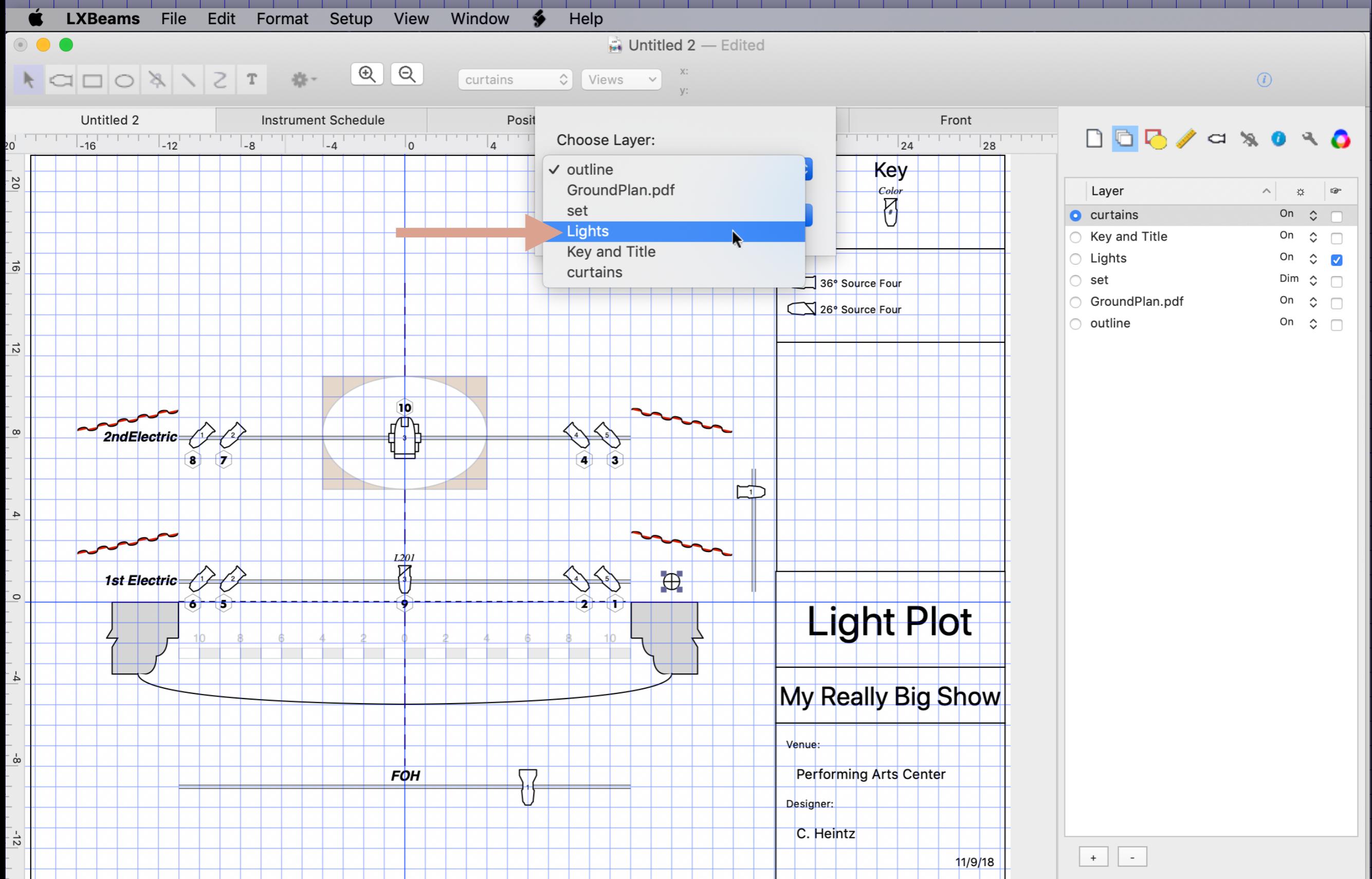
Sometimes it is easier to just clean up the numbers.

The boom location was drawn in the curtains layer.



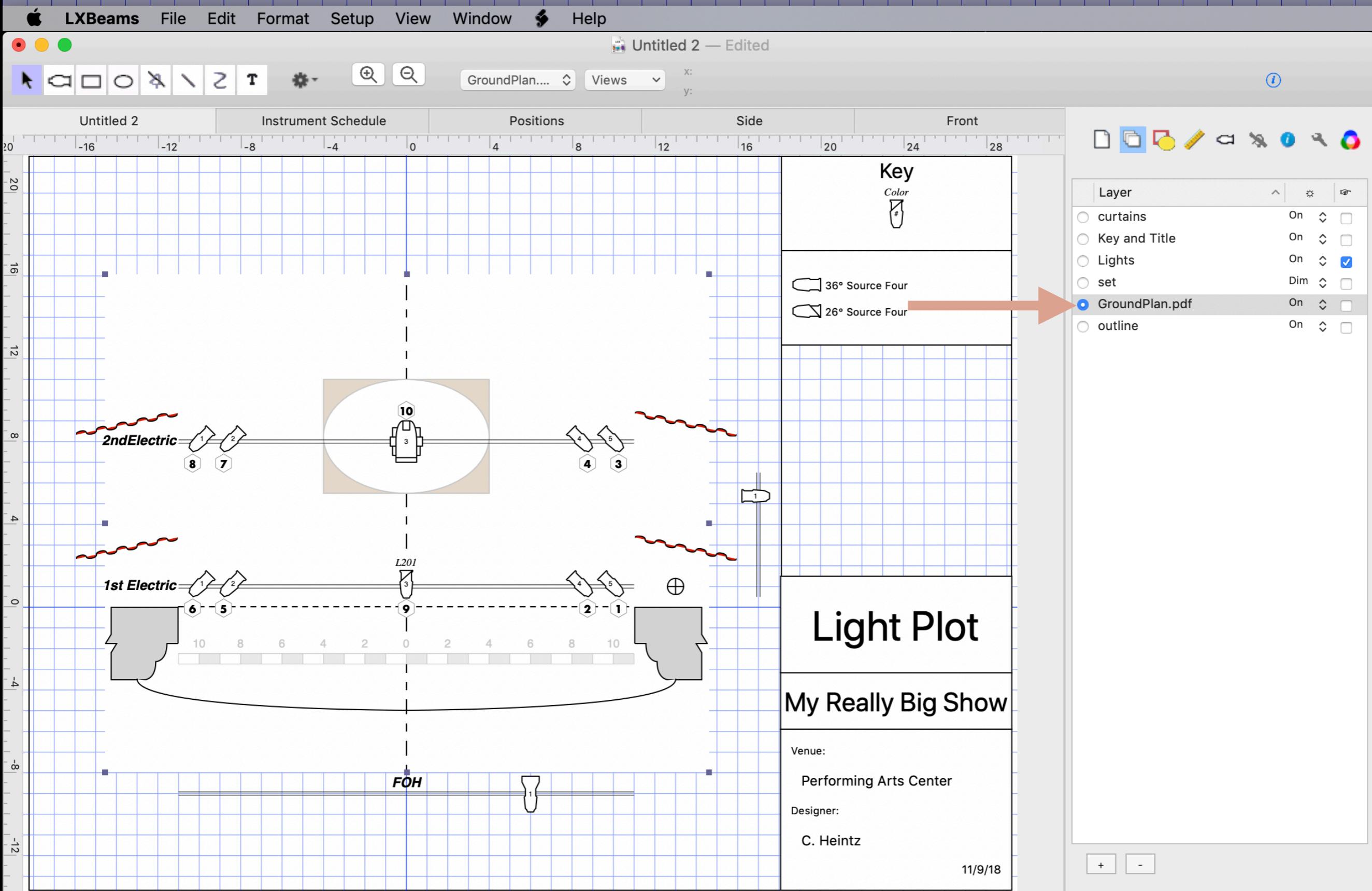
Select the location symbol and choose Format→Arrange→Send to Back.

Choose the Lights layer.



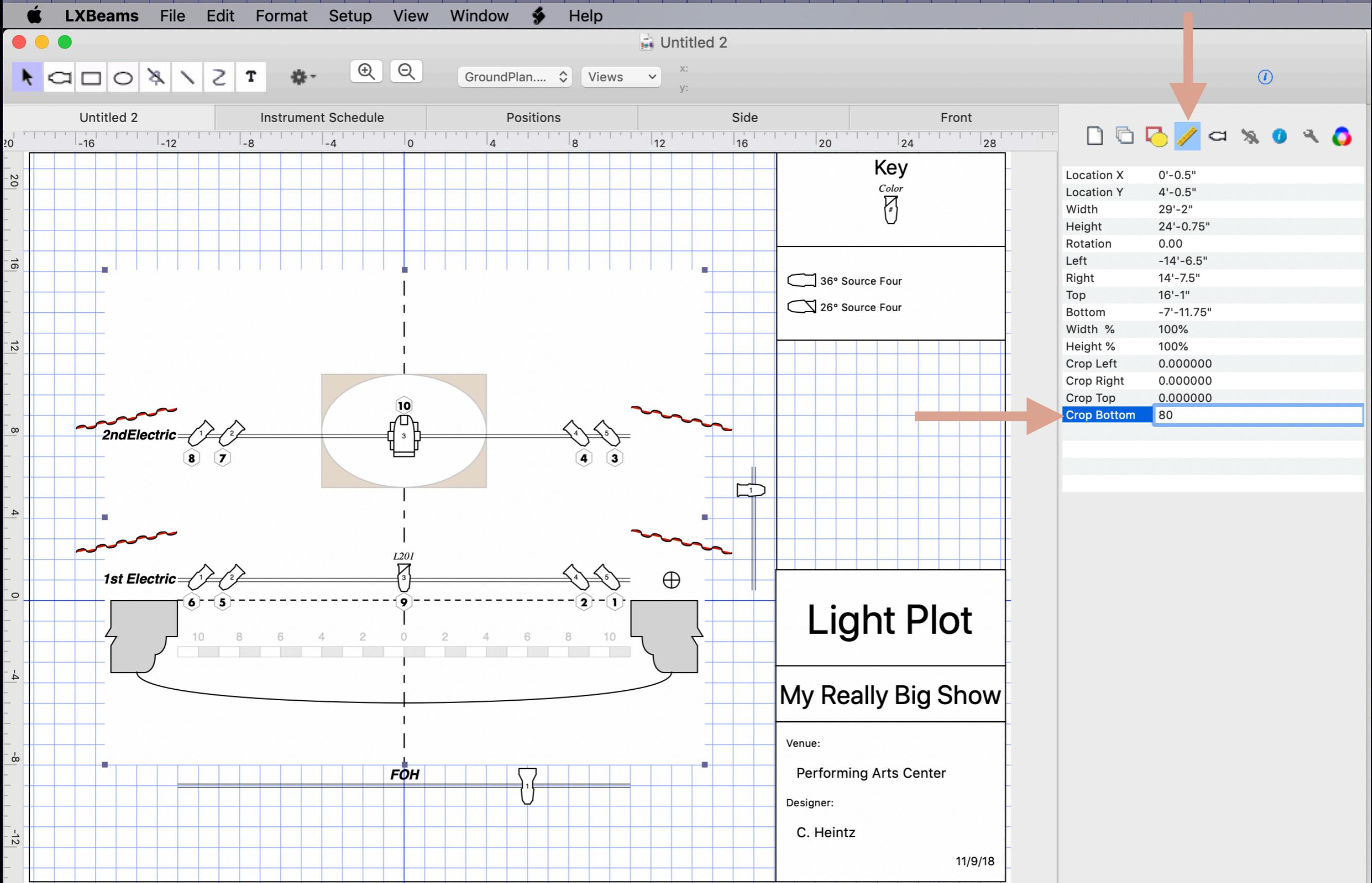
This command moves the selected objects to a different layer.

Choose the GroundPlan.pdf layer.



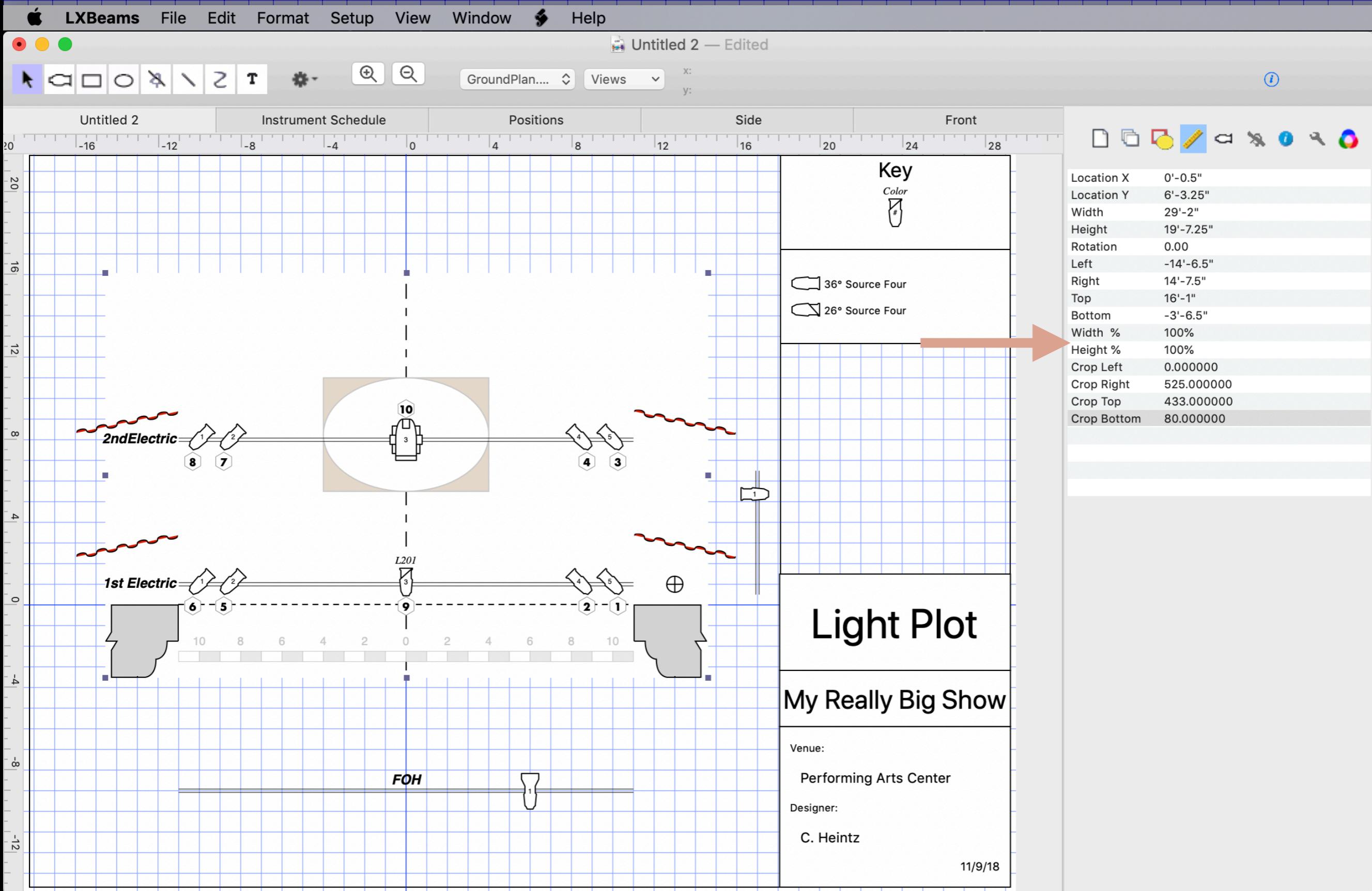
Click to select the ground plan image object.

Switch to the Measurements tab.



Enter 80 for the "Crop Bottom" property.

In addition to scaling an imported image, you can mask unwanted portions.



In this case, perhaps the apron is unused.

In this section we've looked at Properties in the Measurements tab.

- The measurements tab allows you to precisely set coordinates, lengths and angles.
- 3D objects also have a “Z” axis coordinate which is the height above or below the floor.

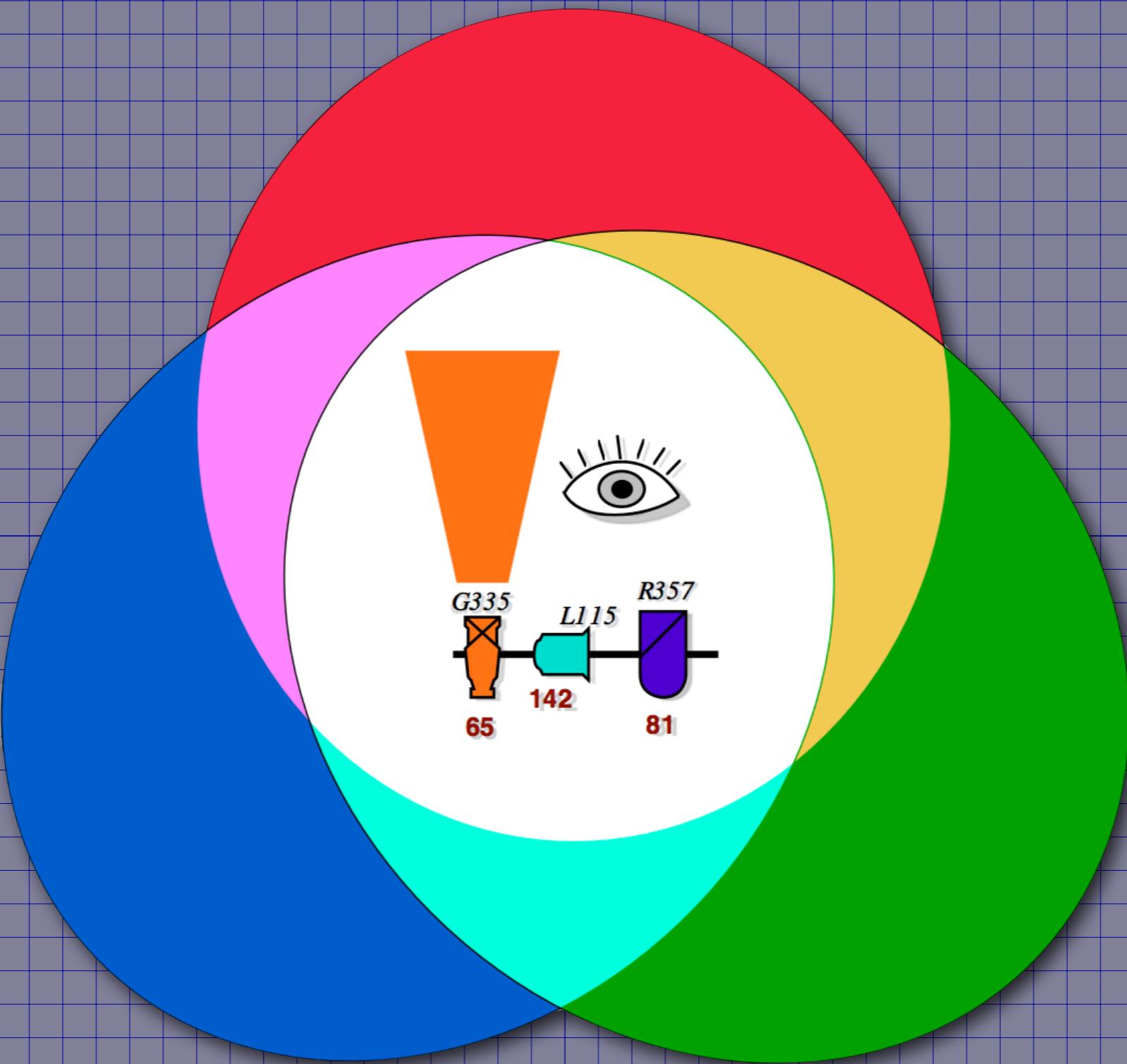
In this section we've looked at Properties in the Measurements tab.

- Positions can be mapped vertically as well as being translated horizontally.
- The measurements tab shows cropping when the selected object is an imported image.

Try It Yourself

- In the studio file (from exercise 1),
 - Add a layer
 - Draw 3D lines representing the walls of the set
 - View them in front and side sections

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