



# Hussey Seating Company – Revit Guide – Fusion Seats

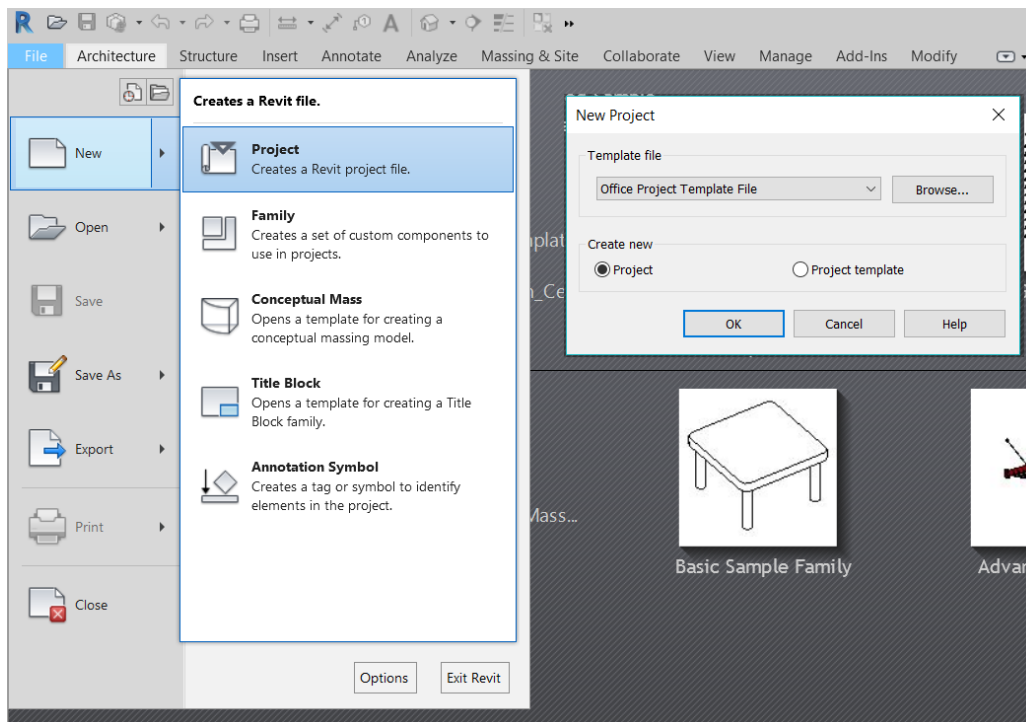


## Overview:

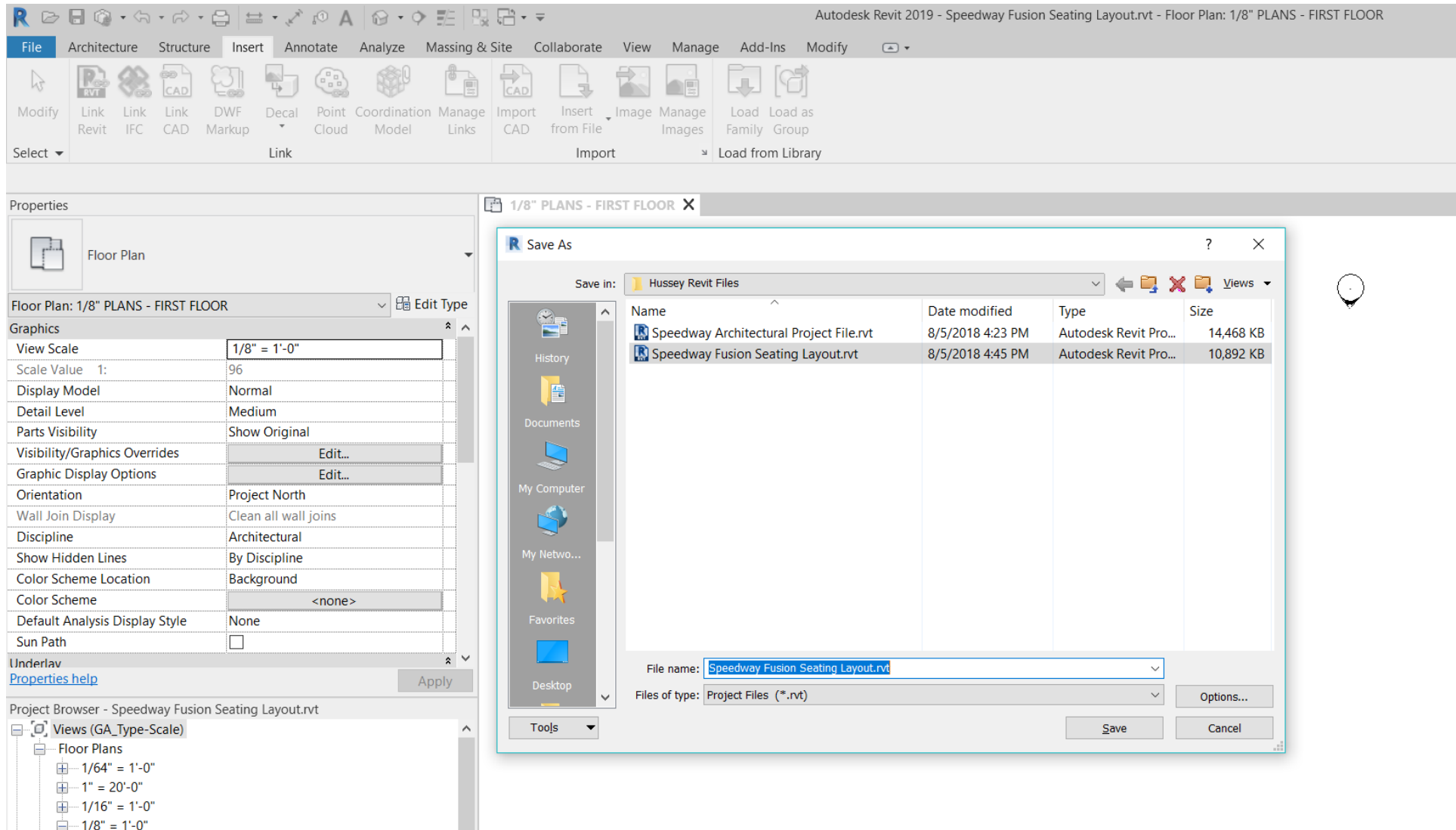
This guide will explain how to create a Fusion Seating Layout as a separate Revit Project, and link it in to your Architectural Revit Project File. This will help keep the file size down on your Construction Model for your Project. To create this Seating Layout file, first, open your Architectural Revit Project. Then, launch a second session of Revit. Revit will allow you to have multiple instances of the software running simultaneously. The reason you need two sessions of Revit running is because Revit will not allow you open a linked project file and the host project file at the same time in the same session of Revit, but we need to work with both.

## Creating the Fusion Seating Layout File to later link in to your Architectural Revit Project File:

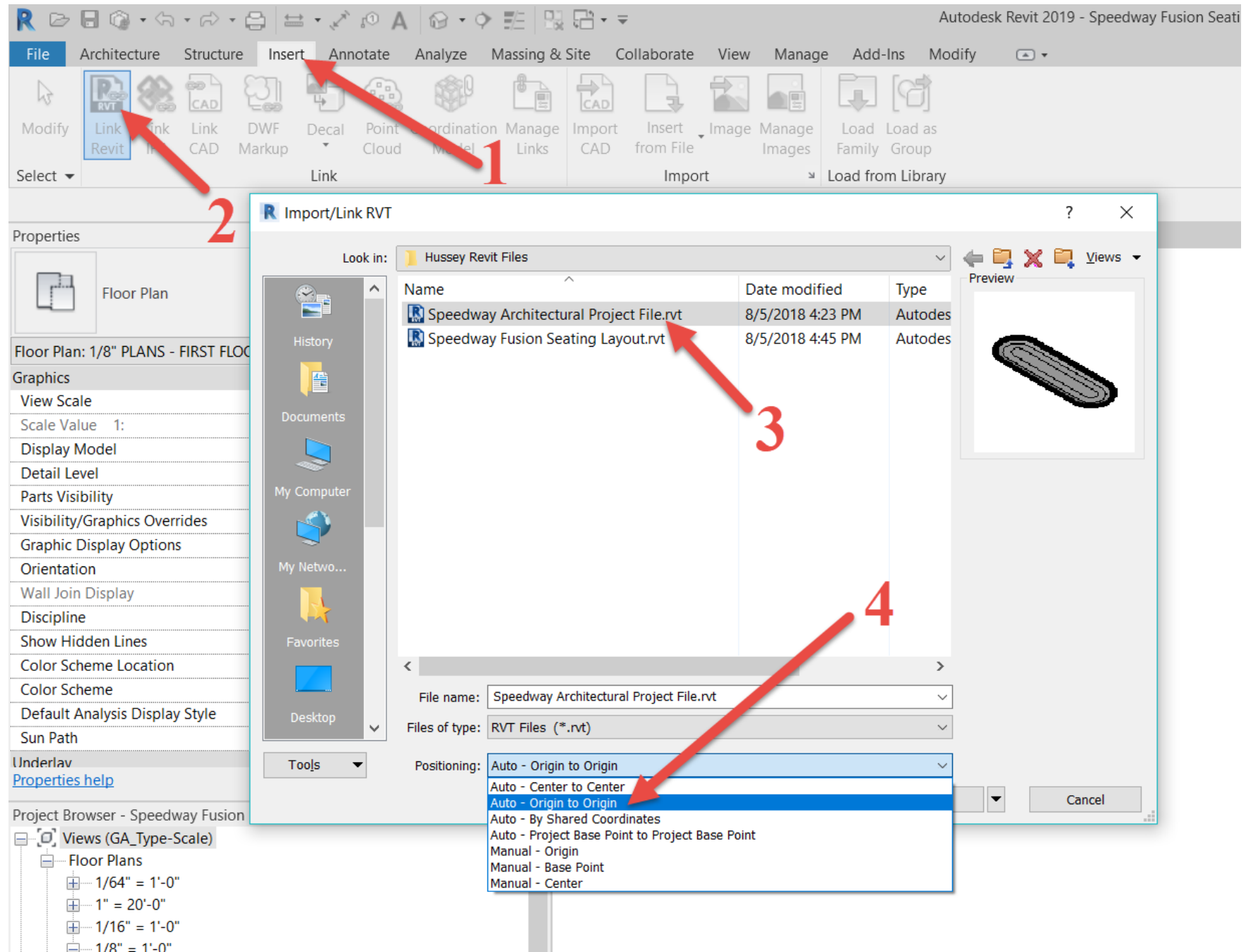
Step 1 – In Revit, Create a New Project using your Office Project Template File as the starting point.

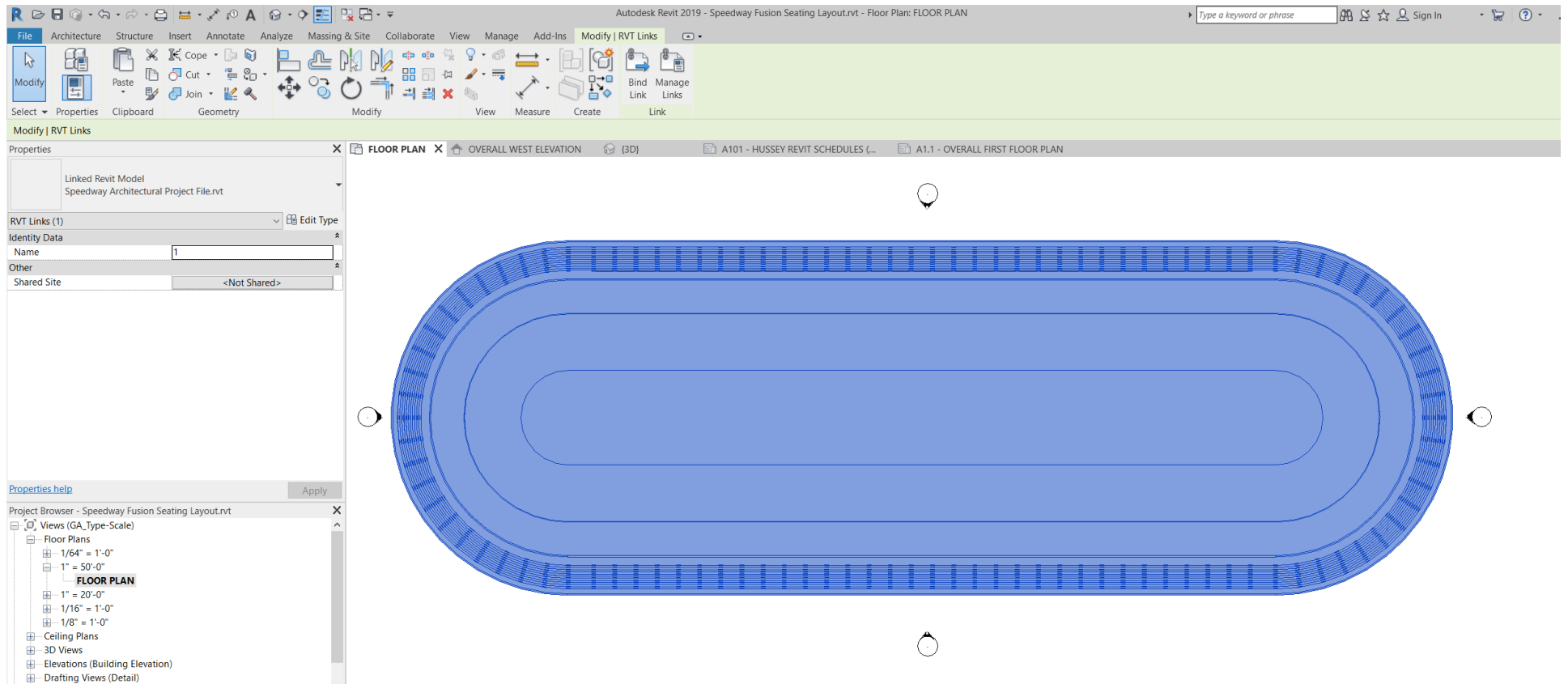


Step 2 – Save your New Project File and name it appropriately as this will become the Fusion Seating Layout File that you will link into your Design Project File.



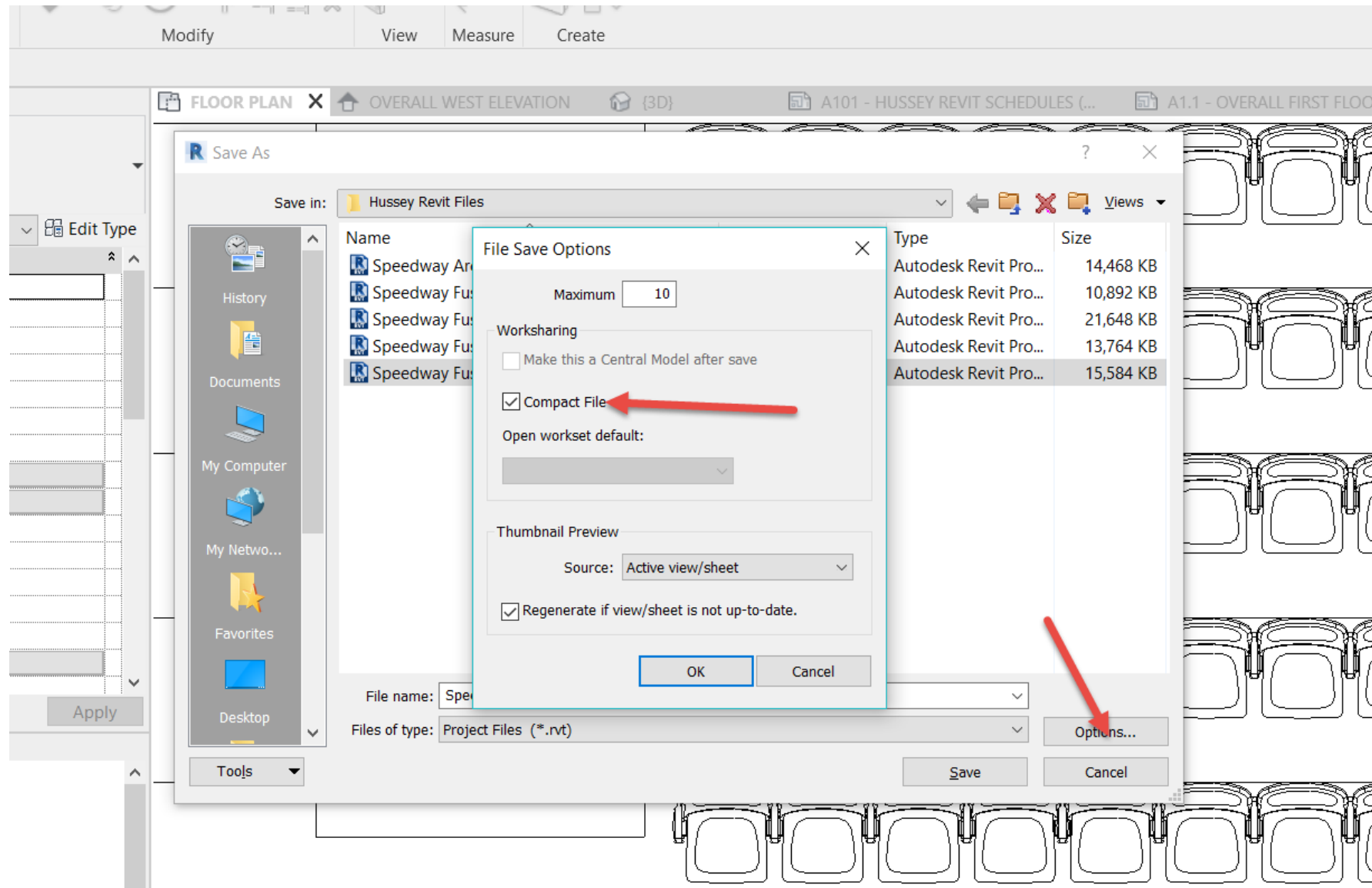
Step 3 – Link your Architectural Revit Project File into your Seating Layout File so you know where to model the Fusion Chairs. Be sure to link the file in using Positioning: Auto – Origin to Origin.



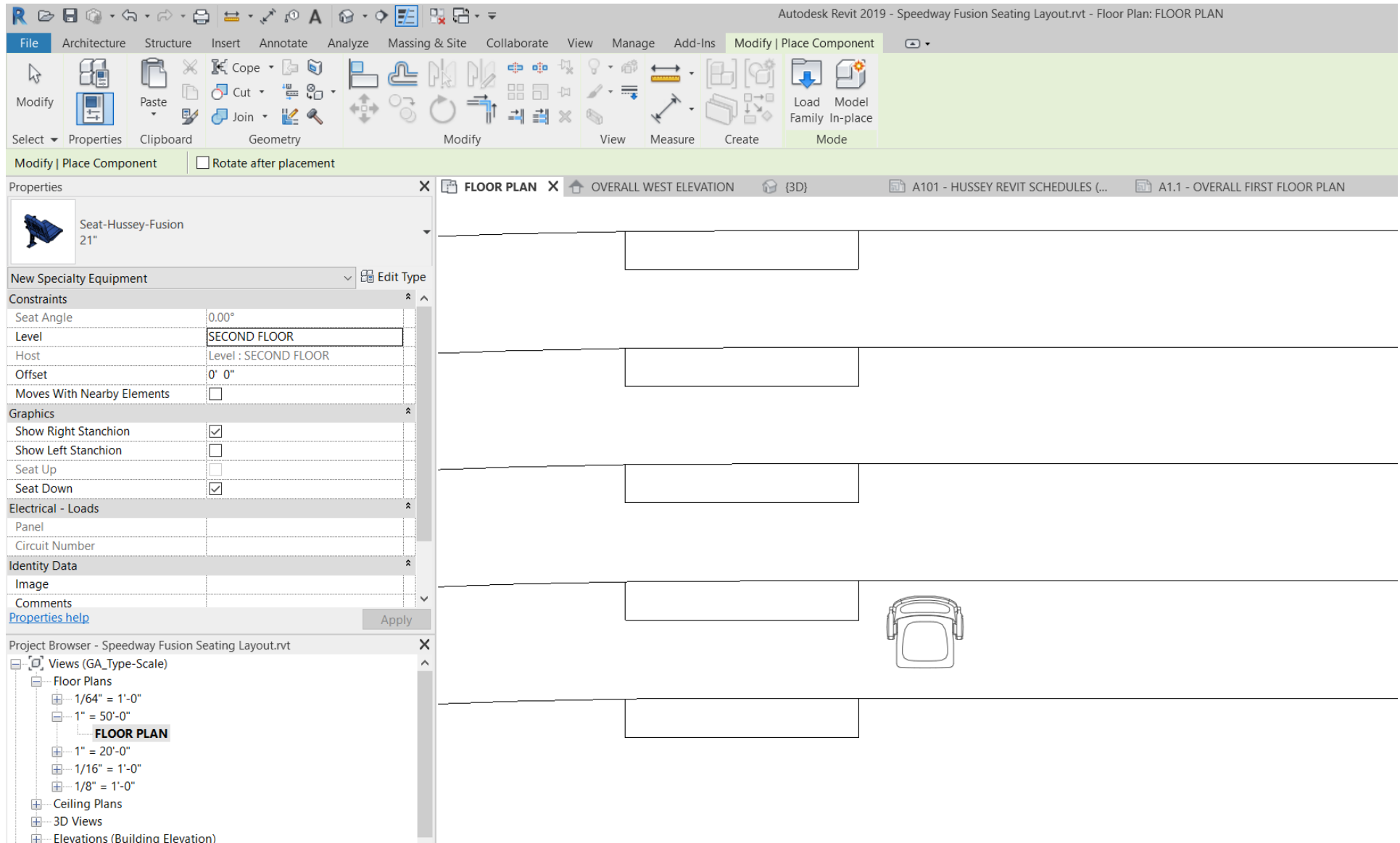


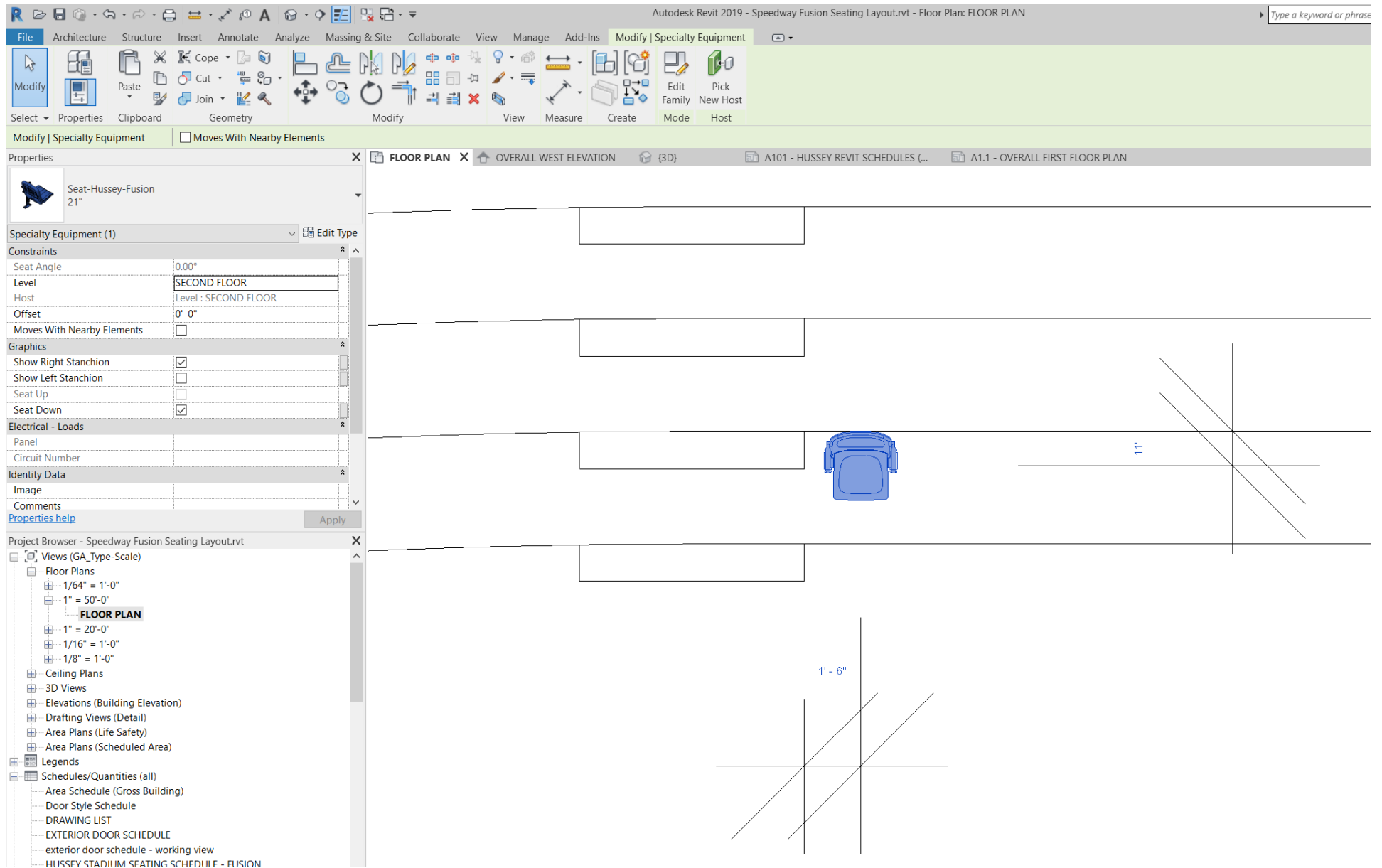
The image above shows the linked Architectural Model highlighted in our Seating Layout Revit Project File.

Step 4 – After loading the Architectural Model into your Seating File, save the file again (by using File>Save As>Project) to see how little impact the linked Architectural Model has on the file size (tip: at the Save As dialog box, choose Options, and make sure to check Compact File – it's always a good idea to do this).



Step 5 – Place a Component and choose Load Family, and select the Fusion Seats you wish to load. Place a component in the general area of where you want to put the first seat, and then use dimensions to fine-tune its placement.





The image above shows how to deliberately locate your Seat after you place it, by using the dimensions for accuracy.

## Step 6 – Configure your Seat vertically by using an Elevation or Section View.

Autodesk Revit 2019 - Speedway Fusion Seating Layout.rvt - Section: Section 1

File Architecture Structure Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify

Select Properties Clipboard Geometry Modify View Measure Create

Properties

Section Wall Section

Section: Section 1 Edit Type

Graphics

View Scale	1" = 50'-0"
Scale Value 1:	600
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Graphics Overrides	Edit...
Graphic Display Options	Edit...
Hide at scales coarser than	1" = 50'-0"
Discipline	Architectural
Show Hidden Lines	By Discipline
Color Scheme Location	Background
Color Scheme	<none>
Default Analysis Display Style	None
Sun Path	<input type="checkbox"/>

Extents

Crop View ☒

[Properties help](#) Apply

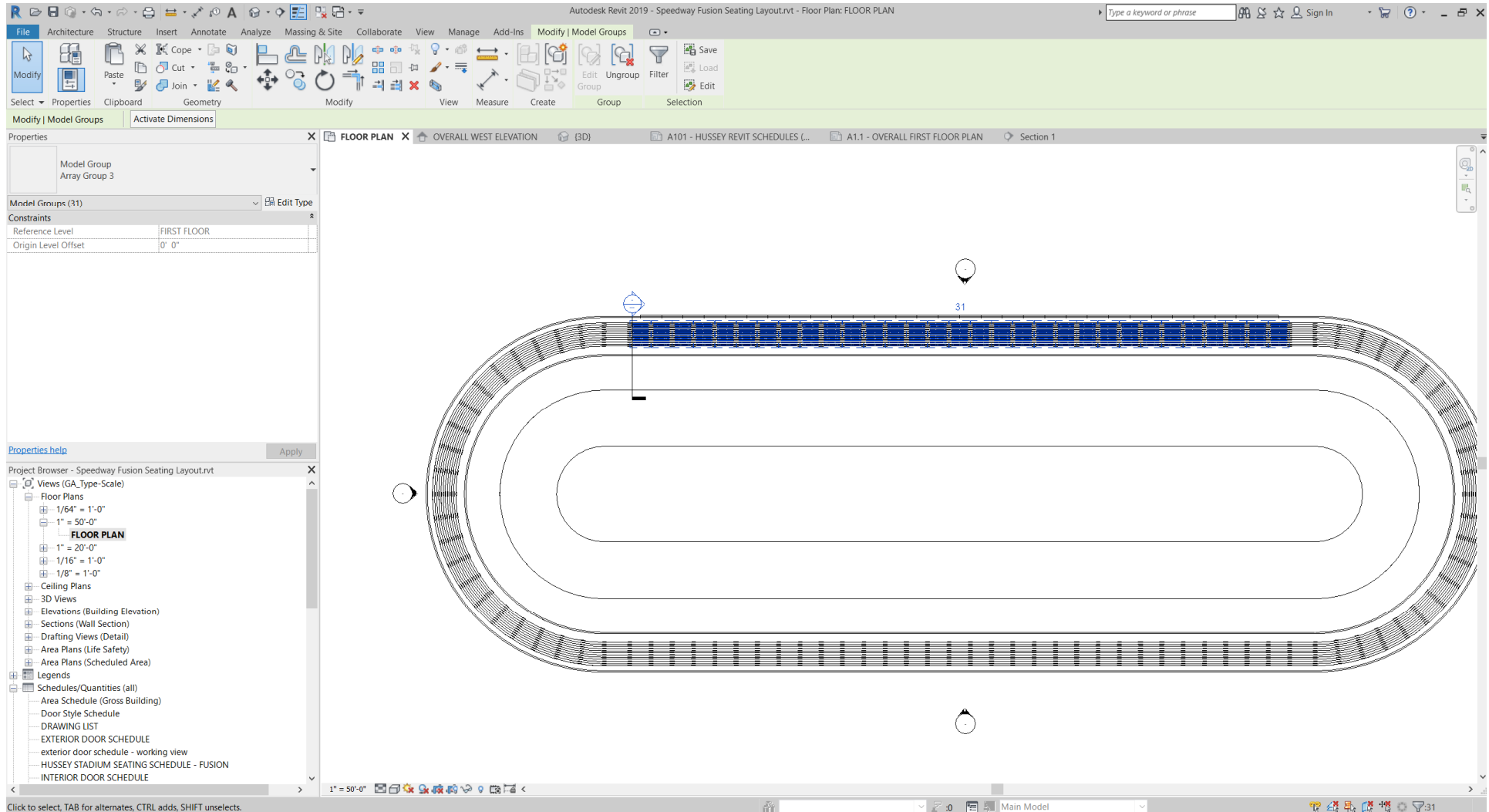
Project Browser - Speedway Fusion Seating Layout.rvt

Views (GA\_Type-Scale)

- Floor Plans
  - 1/64" = 1'-0"
  - 1" = 50'-0"
  - FLOOR PLAN**
  - 1" = 20'-0"
  - 1/16" = 1'-0"



## Step 7 – Copy / Array the Fusion Seats around the Project File to create your complete Seating Layout.

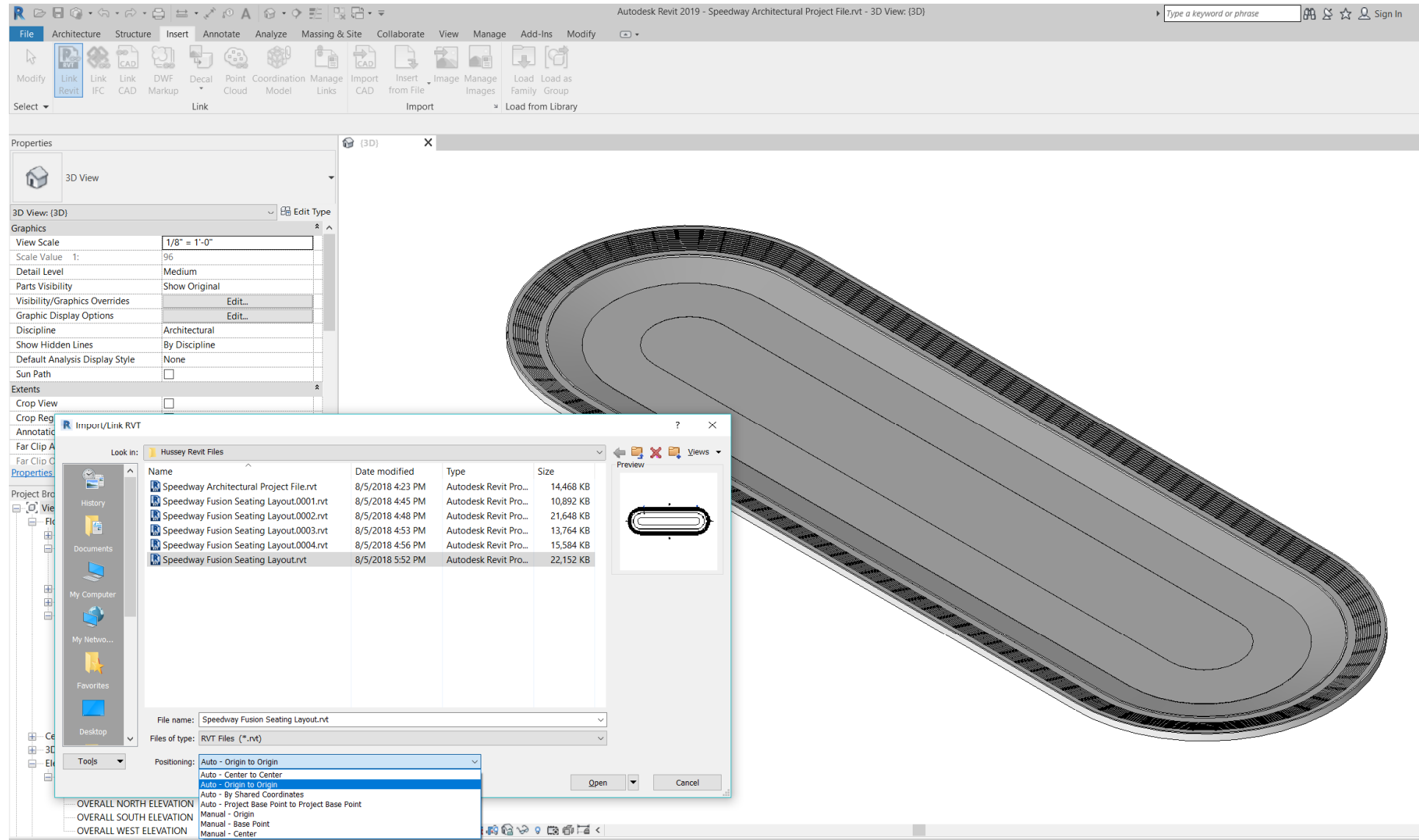


## Step 8 – Save File.

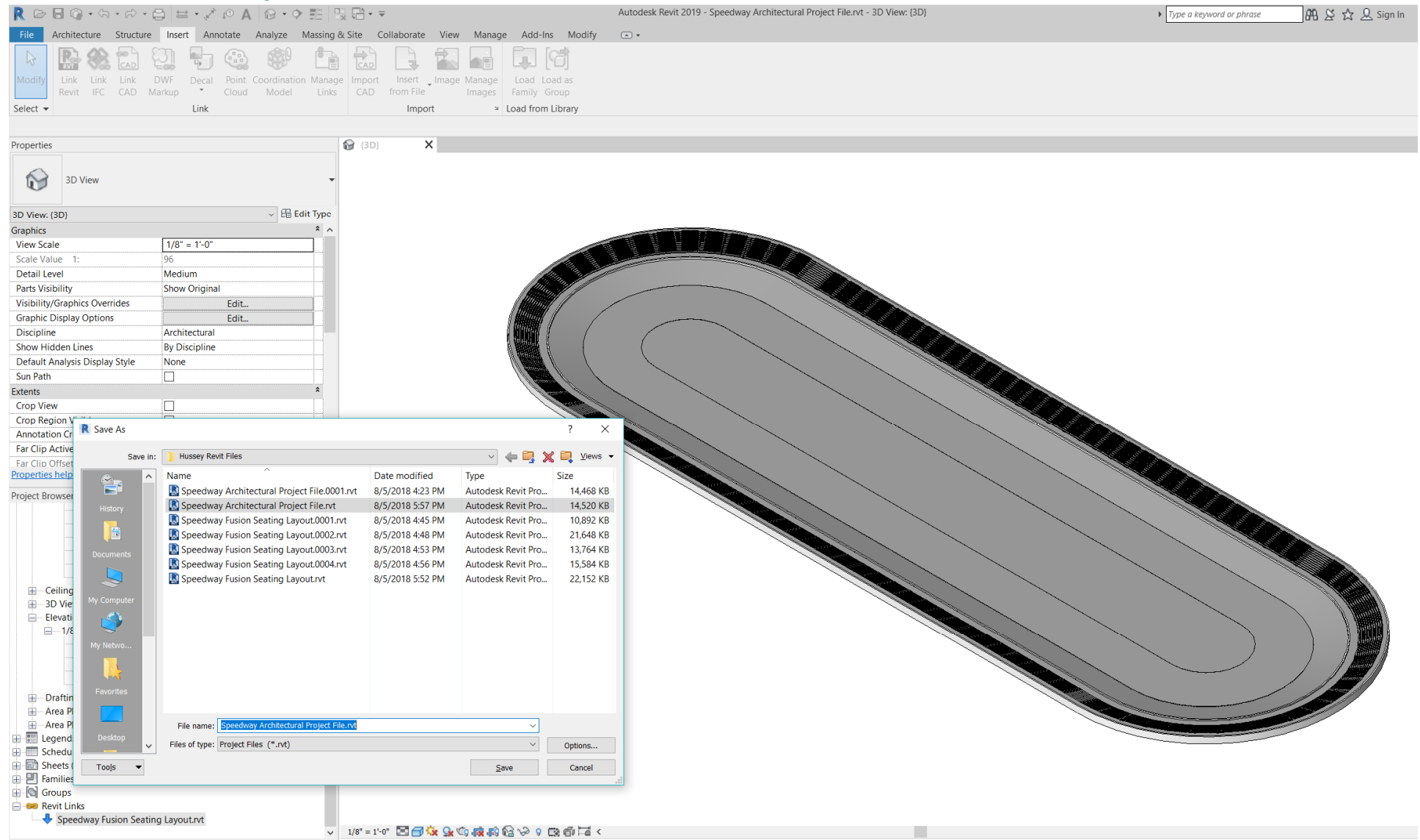
If you need to make changes to the Seating Layout in the future, just open this file and ensure the Architectural Model that is linked in is referencing the most current version of your Project File. After you make your changes in this file, Save it, and then Reload the Link over in your Architectural Project File.

## Linking the Seating Layout File in to your Architectural Project File:

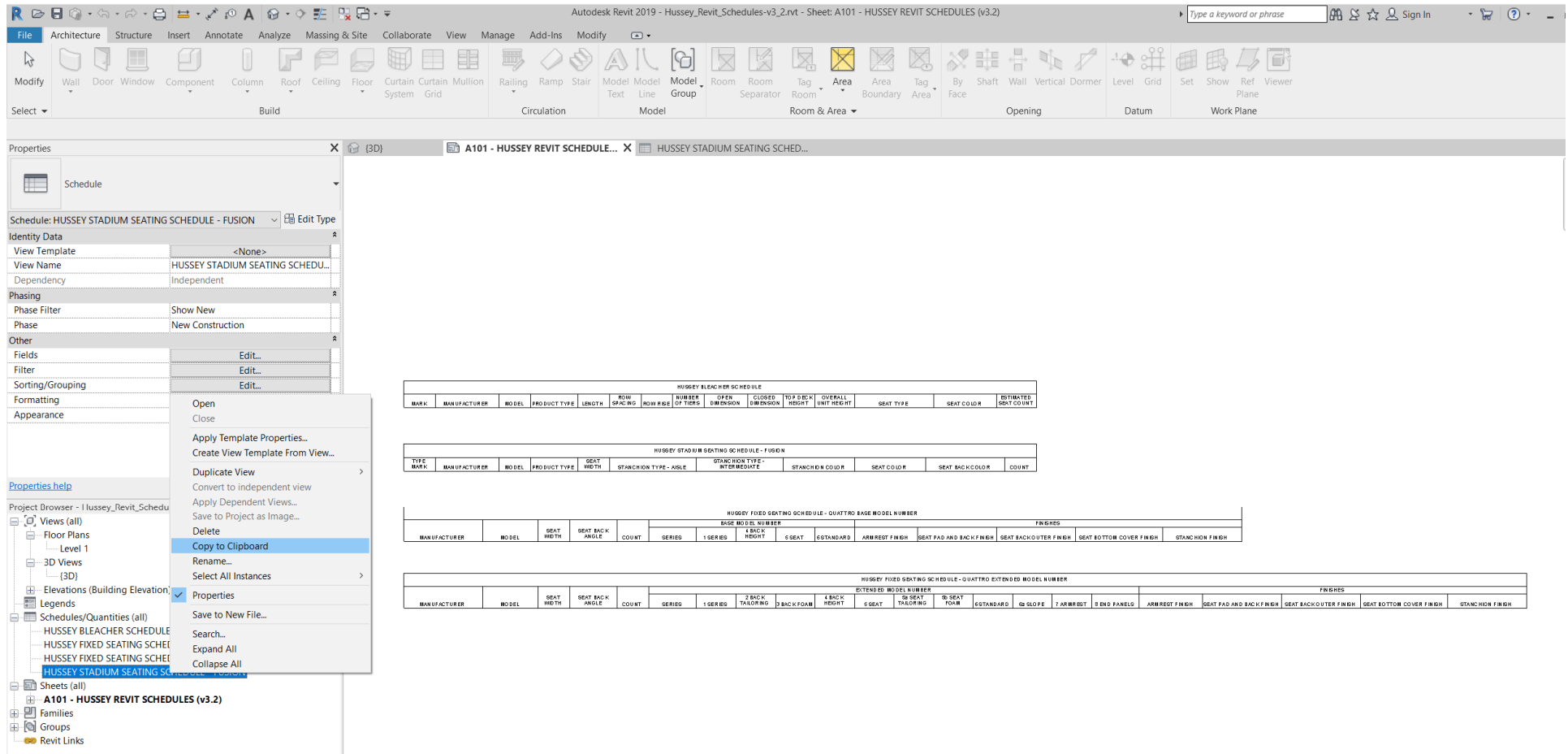
Step 1 – Go to your Architectural Revit Model Project File. Go to Insert>Link Revit and select the Seating Layout Project File and make sure to choose Positioning: Auto – Origin to Origin (Unless you picked something else in your Seating File).



Step 2 – After you have linked the Revit Seating Layout into your Host Project, save your project and note that the file size is not much larger than it was before the file was linked. Linking files like this keeps file size manageable and performance is not degraded. If you experience slow performance in a shaded 3D (or any other) View, you can use Visibility / Graphics to hide the Linked Seating Layout File and performance will pick back up in that View.



Step 3 – You can easily bring in the pre-configured Fusion Revit Schedule and tell Revit to query the Linked Revit File to report the information of all Fusion Chairs in the Project. Simply open the Hussey\_Revit\_Schedules-v3\_2.rvt file, Right-Click on the Schedule View named HUSSEY STADIUM SEATING SCHEDULE – FUSION, and choose Copy to Clipboard.



Step 4 – Go over to your Architectural Project, open any View other than a Schedule View, and from the Modify Tab, choose Paste. The Schedule will open in Revit, but it will be blank (just Titles and Headers). To populate the Schedule, click Edit on Fields (on the Properties Window), and place a check mark in “Include elements in links”. That should take care of it. Be mindful of all other View Settings as they relate to your project, including Phase and Phase Filter, and feel free to configure the Appearance Settings to match your Standard Schedule Fonts, Styles and Sizes for Titles, Headers and Body.

Autodesk Revit 2019 - Speedway Architectural Project File.rvt - Schedule: HUSSEY STADIUM SEATING SCHEDULE - FUSION

File Architecture Structure Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify Modify Schedule/Quantities

Properties

Category: 0.0  
Parameter: Format Unit Calculated Combine Parameters Insert Delete Resize Hide Unhide All Insert Insert Delete Resize Merge Unmerge Insert Image Clear Group Ungroup Shading Borders Reset Font Align Horizontal Align Vertical Highlight in Model

Properties Parameters Columns Rows Titles & Headers Appearance Element

Modify Schedule/Quantities

Properties

Schedule

Schedule: HUSSEY STADIUM SEATING SCHEDULE - FUSION Edit Type

Graphics  
Visibility/Graphics Overrides Edit...

Identity Data  
View Template <None>  
View Name HUSSEY STADIUM SEATING SCHEDULE...  
Dependency Independent

Phasing  
Phase Filter Show All  
Phase New Construction

Other  
Fields Edit...  
Filter Edit...  
Sorting/Grouping Edit...  
Formatting Edit...  
Appearance Edit...

Properties help Apply

Project Browser - Speedway Architectural Project File.rvt

- Door Style Schedule
- DRAWING LIST
- EXTERIOR DOOR SCHEDULE
- exterior door schedule - working view
- HUSSEY STADIUM SEATING SCHEDULE - FUSION**
- INTERIOR DOOR SCHEDULE
- interior door schedule - working view
- ROOM FINISH SCHEDULE

<HUSSEY STADIUM SEATING SCHEDULE - FUSION>

A	B	C	D	E	F	G	H	I	J	K
TYPE MARK	MANUFACTURER	MODEL	PRODUCT TYPE	SEAT WIDTH	STANCHION TYPE - AISLE	STANCHION TYPE - INTERMEDIATE	STANCHION COLOR	SEAT COLOR	SEAT BACK COLOR	COUNT
	Hussey Seating Company	Fusion	Stadium Seating	1' - 9"		Stanchion-Fusion : Floor Mounted	Hussey - 301 Blue	Hussey - 301 Blue	Hussey - 301 Blue	15158
Grand total: 15158										15158

Schedule Properties

Fields Filter Sorting/Grouping Formatting Appearance

Select available fields from:  
Specialty Equipment

Available fields:  
Assembly Code  
Assembly Description  
Assembly Name  
Circuit Number  
Comments  
Cost  
Description  
Equipment Tag  
Family  
Family and Type  
IFCUID  
Image  
Keynote  
Level  
Mark

Scheduled fields (in order):  
Type Mark  
Manufacturer  
Model  
Type Comments  
Seat Width  
Aisle Stanchion Type  
Intermediate Stanchion Type  
Stanchion Color  
Seat Color  
Seat Back Color  
Count

☒ Include elements in links

OK Cancel Help

As you can now see, we have modeled over 15,000 Fusion Seats in a separate project file. The Seating Layout file size is only 15 MB. Trying to model 30,000 or more chairs may take a while for Revit to generate. But regardless of how many Seats you model in the Seating Layout File, by linking it in to the Project Host File, minimal weight will be added.

## Conclusion:

Until we make simplified 3D Versions of the Hussey Fusion Revit Families, this work-around should help you stay productive with the current files and allow you maintain a reasonable project file size and good performance. We hope that you find this information useful and we welcome your feedback. Please send queries or comments to [revit@husseyseating.com](mailto:revit@husseyseating.com) and / or [info@revituspro.com](mailto:info@revituspro.com).

Fusion by Hussey Seating Comp... X 1/8" PLANS - FIRST FLOOR 1/8" PLANS - SECOND FLOOR

