

AS500173

Revit Drawing Production—Let's Make It Easy!

Joao Teixeira

DiRoots

Learning Objectives

- Learn how to batch create Sheets and place Views on Sheets
- Learn how to use Excel to manage Sheets and Views (create, update, change parameters, assign revisions, and more)
- Learn how to print in bulk Sheets and Views to PDF, DWG, IFC, and more, using a specific naming convention
- Learn a new workflow to reduce the drawing production time by up to 90%

Description

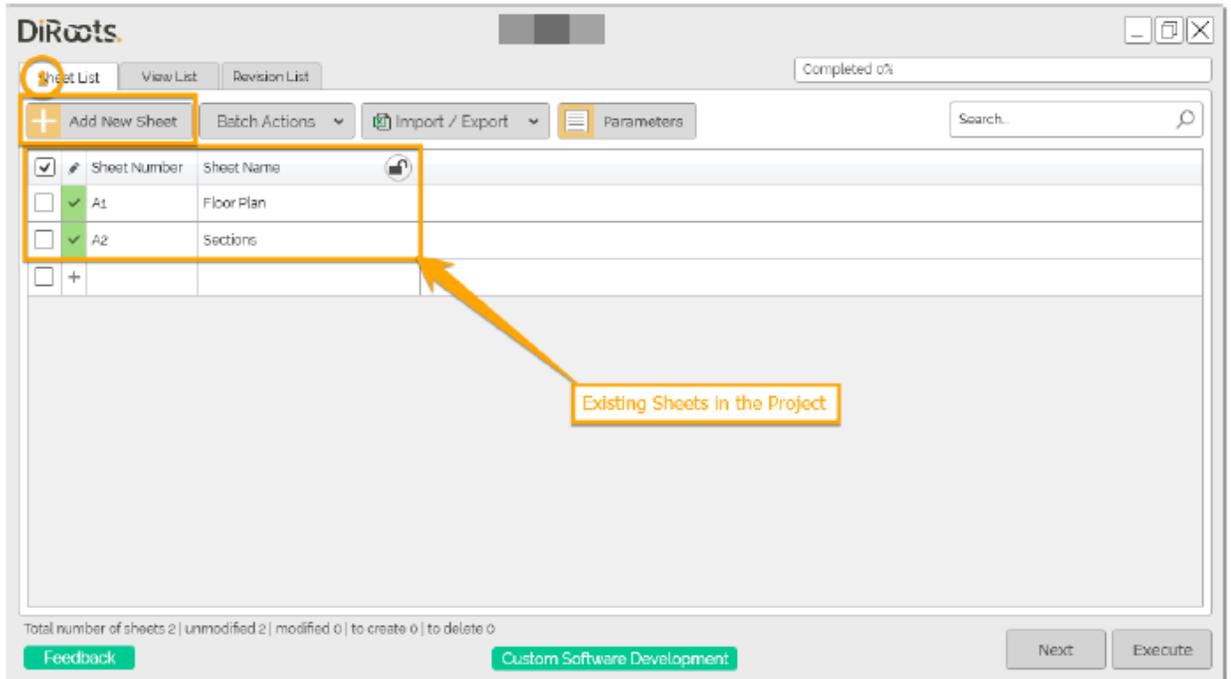
Do you ever wonder why it's so time-consuming to create drawings sheets; place views; and print to PDF, DWG™, and other file formats? If so, this is the right class for you. We will teach you how to automate many parts of this process using various Revit enhancements (SheetGen and ProSheets) and Microsoft Excel. By the end of this class, you'll be able to disrupt the traditional approach and implement a new, super-effective workflow that will make your work more productive and efficient.

Speaker(s)

João Teixeira is working as Product and Client Manager. He is the Head of Customer Support for all DiRoots products, including the well-known free Revit Add-ins. Since 2017 he has been studying the AEC industry and Autodesk products to understand the market needs. In 2018, he became responsible for collecting market insights to help the Software Development Team on making data-driven decisions to create better products. João is also the Content Manager of DiRoots' promotional materials and training videos of its products. The opportunity to work closely with BIM Experts, Engineers, Architects, and Software Developers allowed him to acquire an overall knowledge of the AEC Industry, Revit workflows, and BIM processes.

Batch Creating Sheets

1. Click on the “Add New Sheet” button

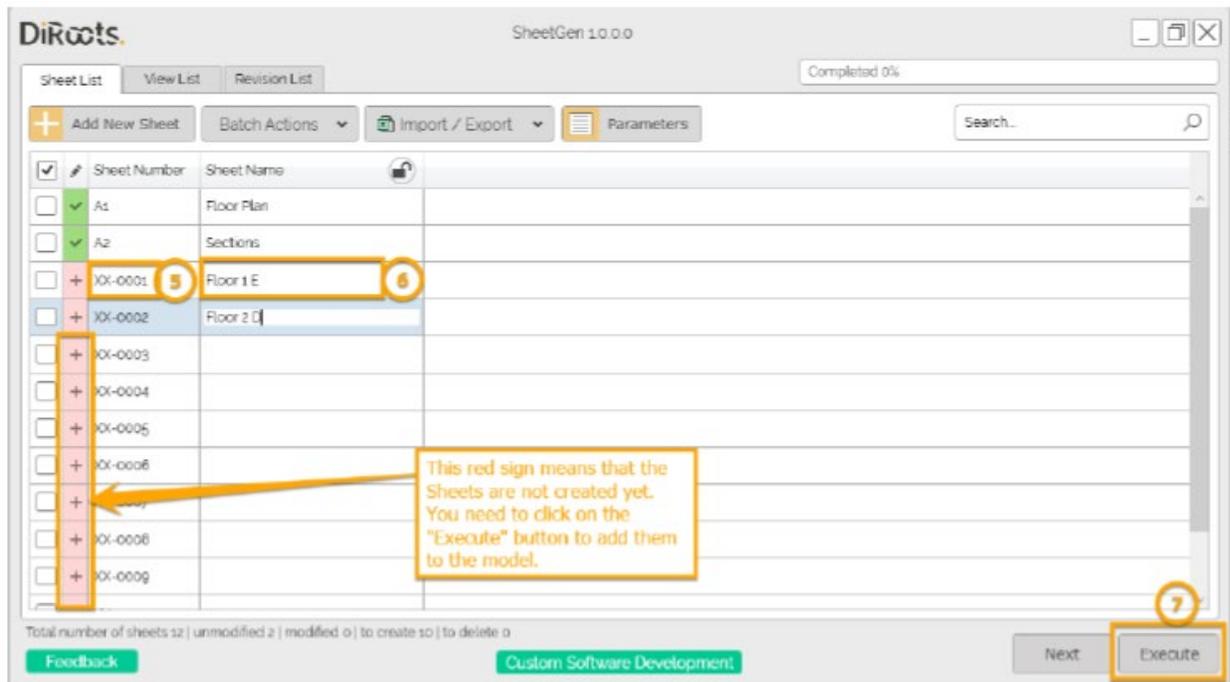


2. Choose the number of Sheets you want to create
3. Pick a Sheet Template
4. Click on the ‘Create’



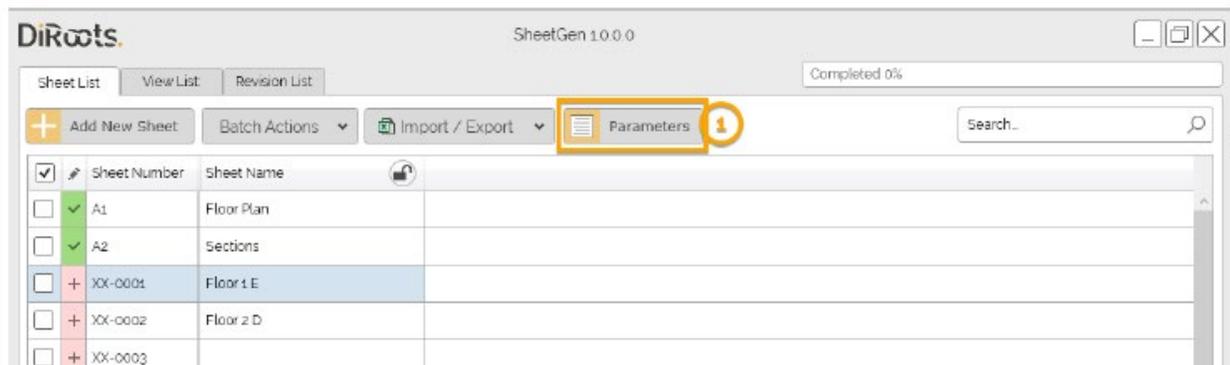
AUTODESK UNIVERSITY

5. Double-click to edit the Sheet Number
6. Double-click to edit the Sheet Name
7. Click on the 'Execute' button to add the Sheets to the model



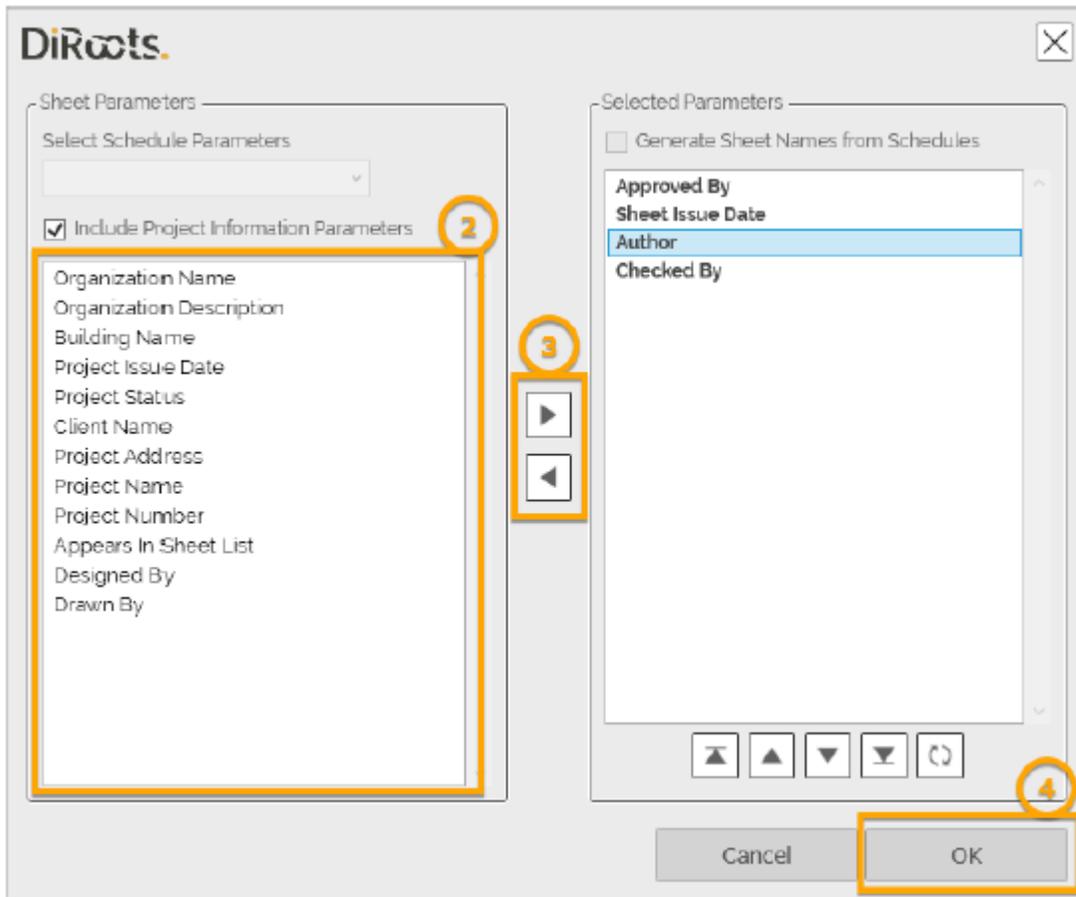
Managing Sheets' parameters

1. Click on the "Parameters" button

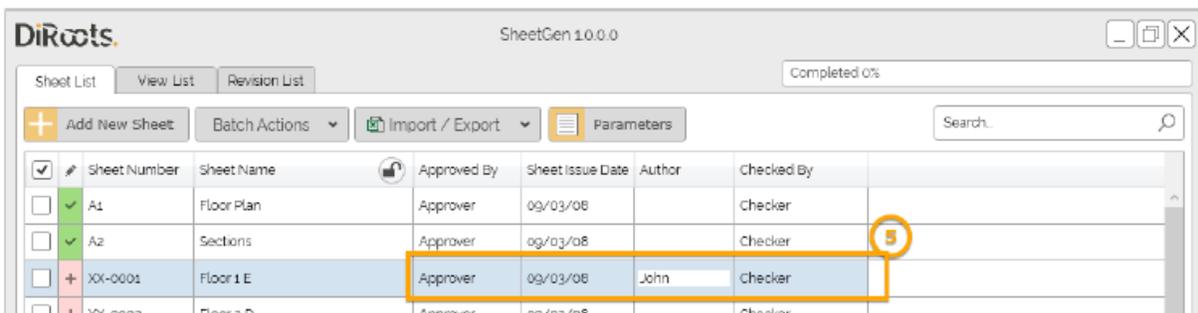


AUTODESK UNIVERSITY

2. Pick the Revit project Parameters you want to add/edit from the list
3. Use the arrows to add or remove them
4. Click on the 'OK' button



5. Double-click on the Parameters to start editing them

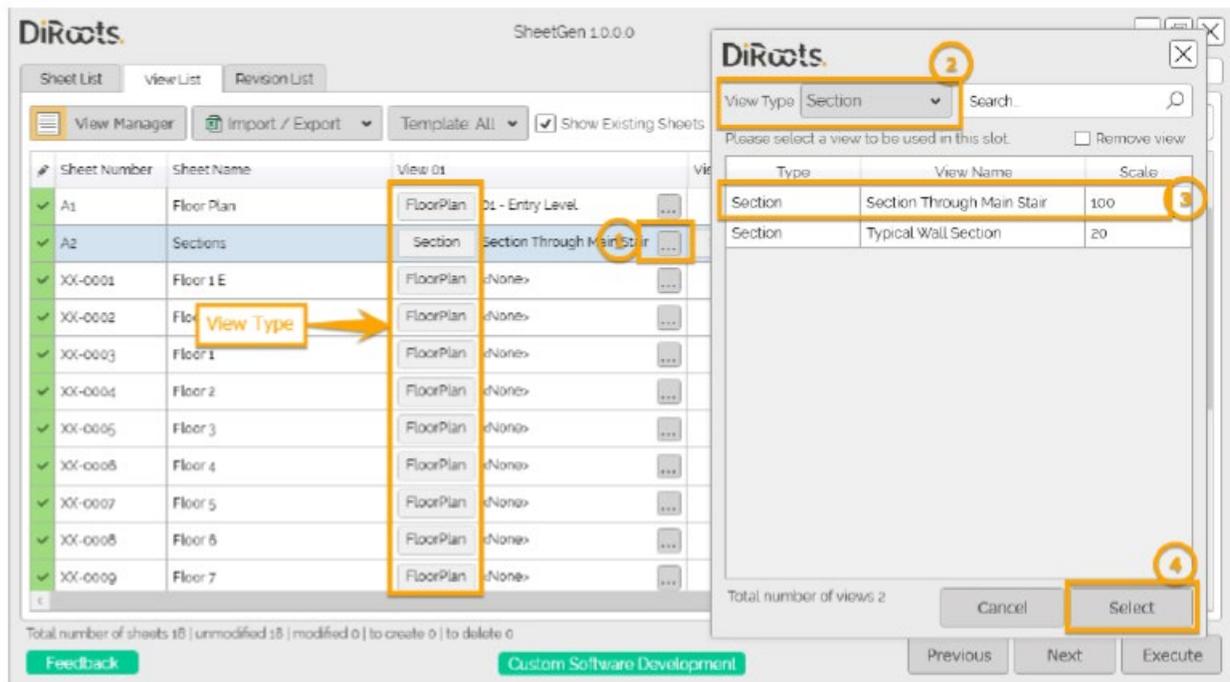


AUTODESK UNIVERSITY

Placing Views on Sheets

SheetGen allows you to easily place your Views on the Sheets based on the previously selected template(s).

1. Click on the '...' button to place/edit the View
2. Filter the Views List by Type
3. Pick a View to put it in place
4. Click on the 'Select' button

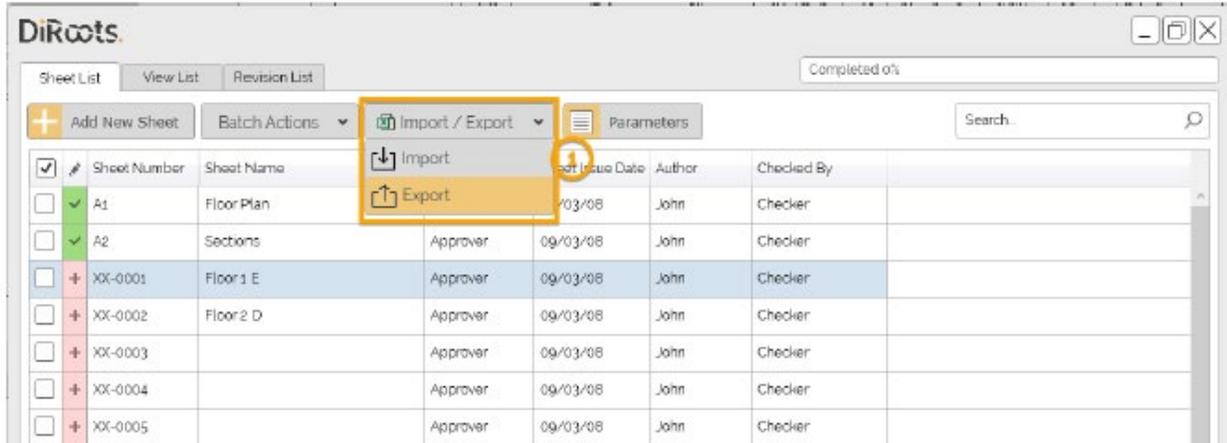


How to use Excel to manage Sheets and Views (create, update, change parameters, assign revisions, and more)

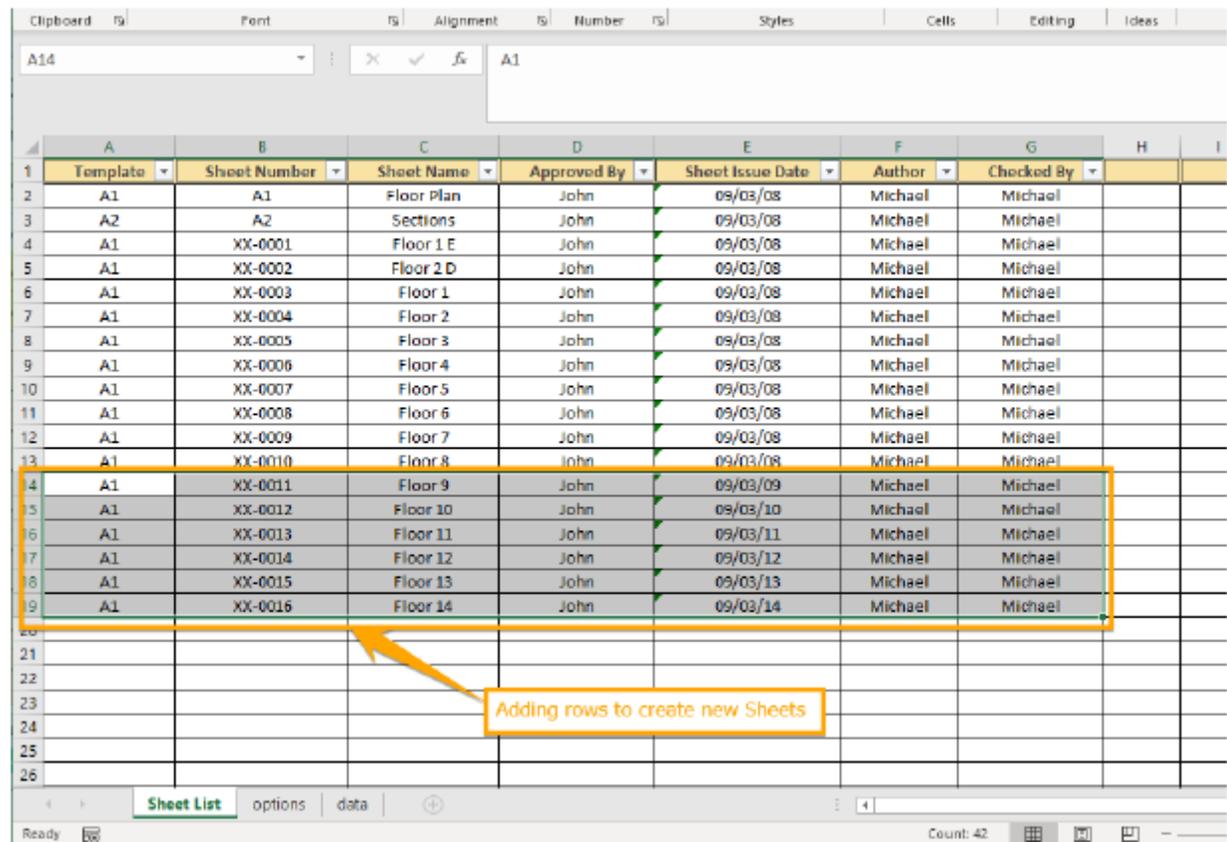
When you don't have many Sheets to create and edit, the plugin User Interface is more than enough to effectively do the job. However, when you have a big number of Sheets to create, using Excel will give you an extra boost!

Exporting/Importing Sheets to Excel

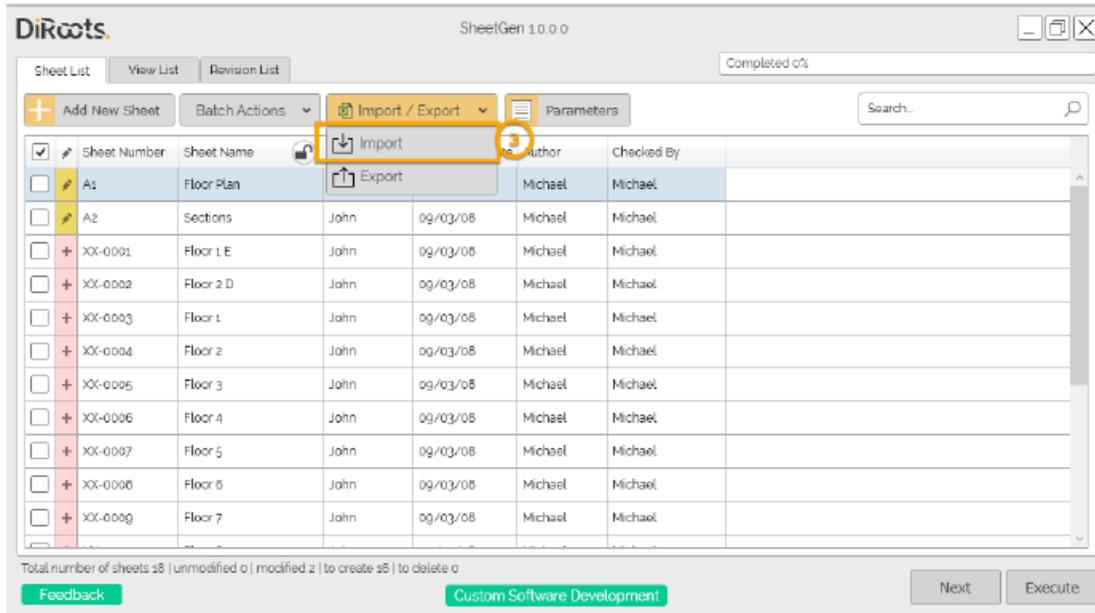
1. Click on the 'Import/Export' dropdown and then click on the 'Export' option



2. Open the spreadsheet to edit the data. You can also add new rows to create new Sheets (note: the Template and Sheet Number **must be filled** before importing back).



3. Import the data back to Revit

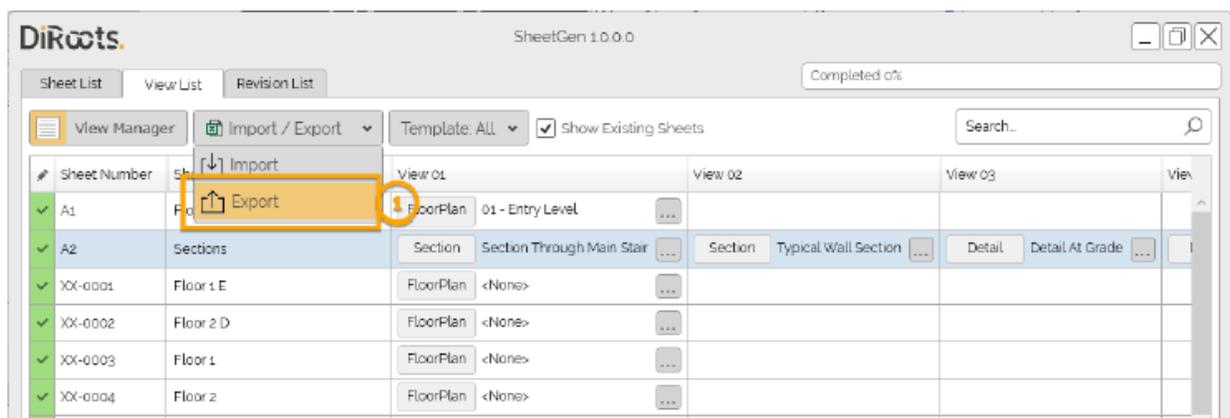


4. Click on the 'Execute' button to create/update the Sheets

Placing Views on Sheets using Excel

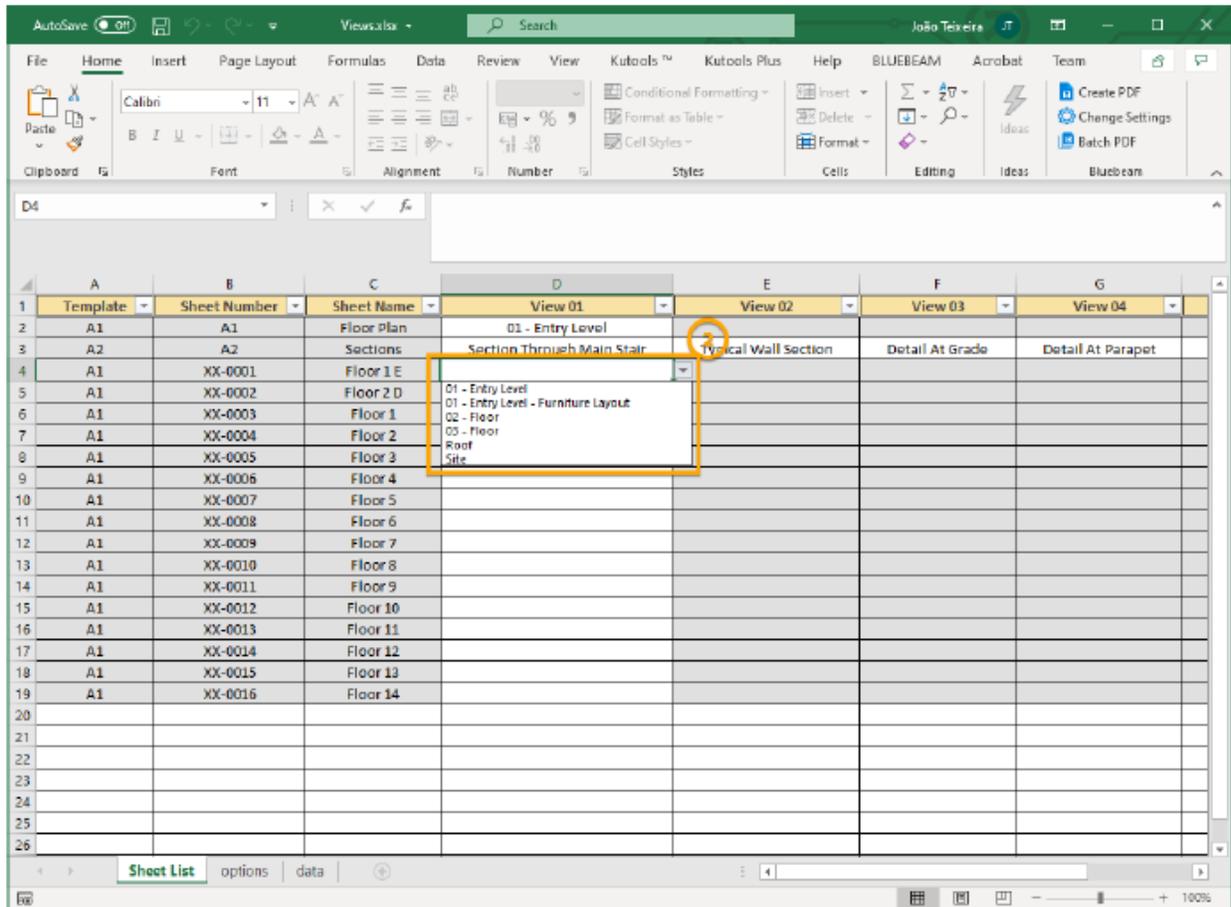
Once again, placing Views on Sheets using the plugins' User Interface works well for small amounts of Sheets and Views. If you're working with a lot of Sheets and Views, SheetGen gives you the power and flexibility of Excel to handle this task.

1. Click on the Dropdown 'Import/Export' and choose the "Export" option



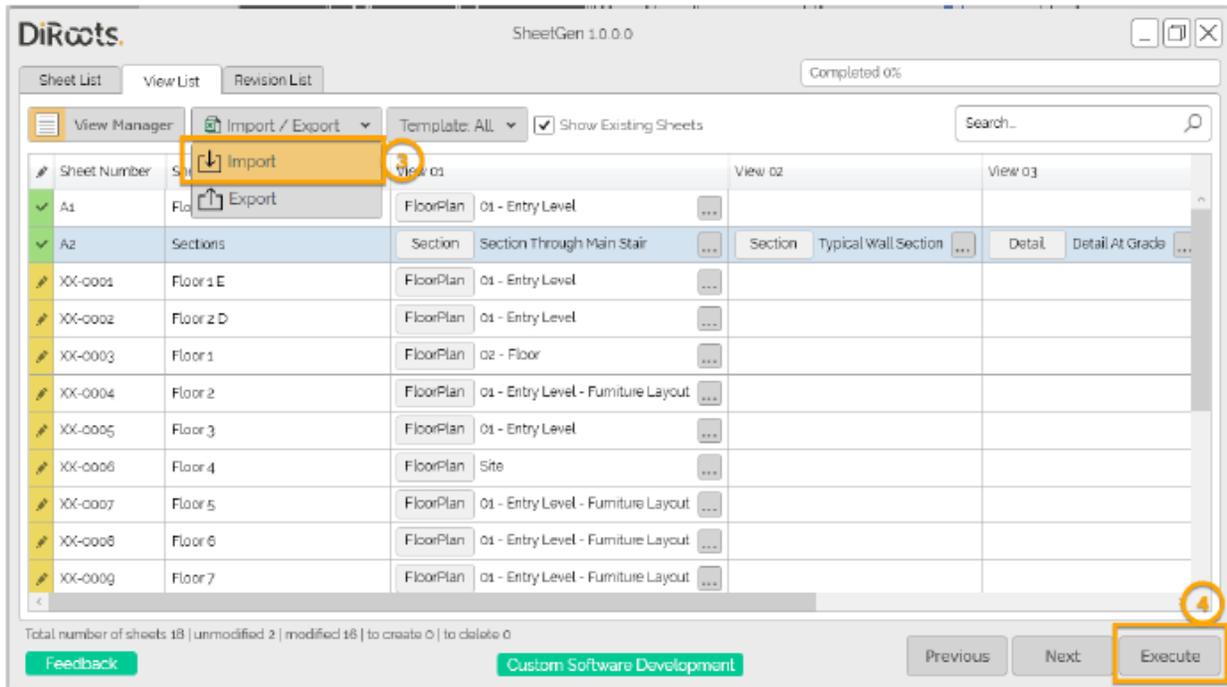
AUTODESK UNIVERSITY

2. In Excel, click on the arrow down sign to select a view from the dropdown menu.



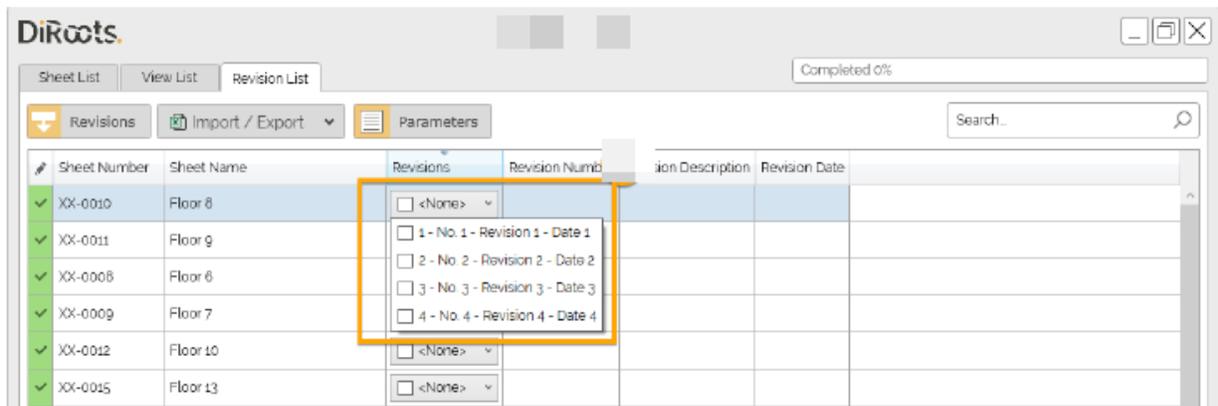
3. Click on the Dropdown 'Import/Export' and choose the 'Import' option

4. Click on the 'Execute' button to place the Views



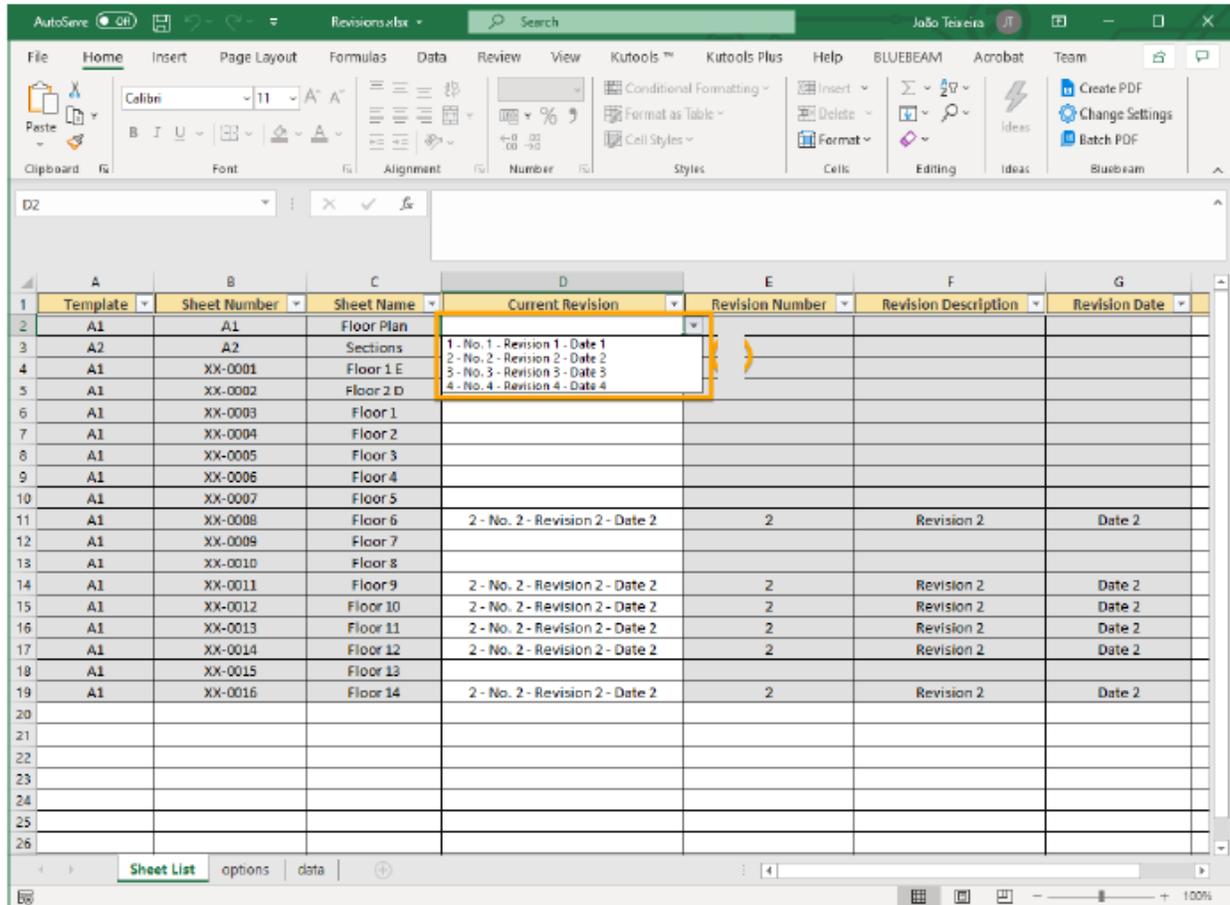
Managing Revisions

Go to the Revisions tab and simply use the dropdown to assign or remove revisions.



AUTODESK UNIVERSITY

Alternatively, export to Excel, click on the arrow down sign to select a Revision from the dropdown menu.



How to batch print/export Sheets and Views to PDF, DWG, IFC, and more, using a specific naming convention

Creating deliverables by exporting Sheets and Views to different files formats is usually a very time-consuming and error-prone task. Often, professionals need to export to several formats one by one and then rename the files to comply with some name convention (e.g., some company standard or an international BIM standard). By using ProSheets (Revit Plugin) you can batch export Views and Sheets to PDF, DWG, DGN, DWF, NWC, IFC, and Images (JPEG, PNG, TIFF, etc.).

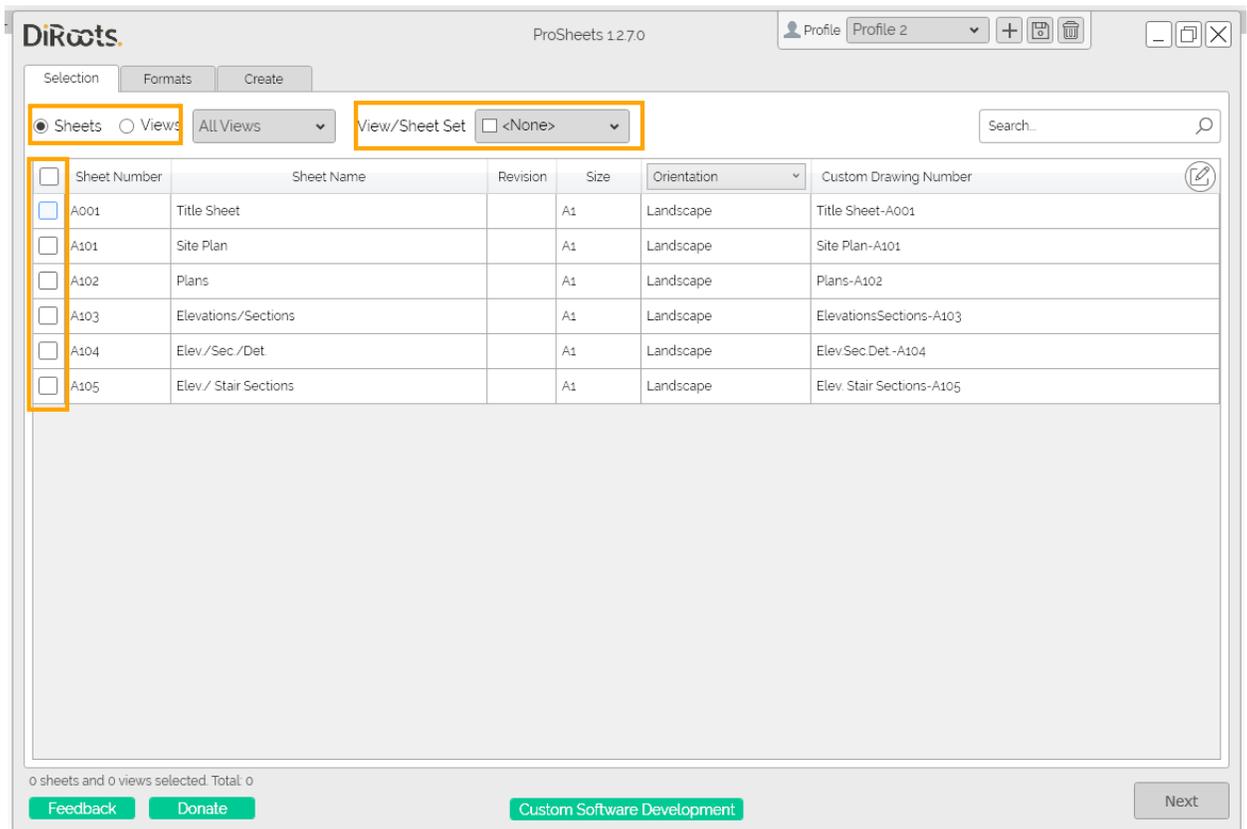
How to get started with ProSheets

ProSheets is a free plugin for Autodesk Revit Add-in to batch export Views and Sheets to PDF, DWG, DGN, DWF, NWC, IFC, and Images (JPEG, PNG, TIFF, etc). It is a plugin developed by DiRoots and it can be downloaded [here](#).

Selecting the Sheets and Views

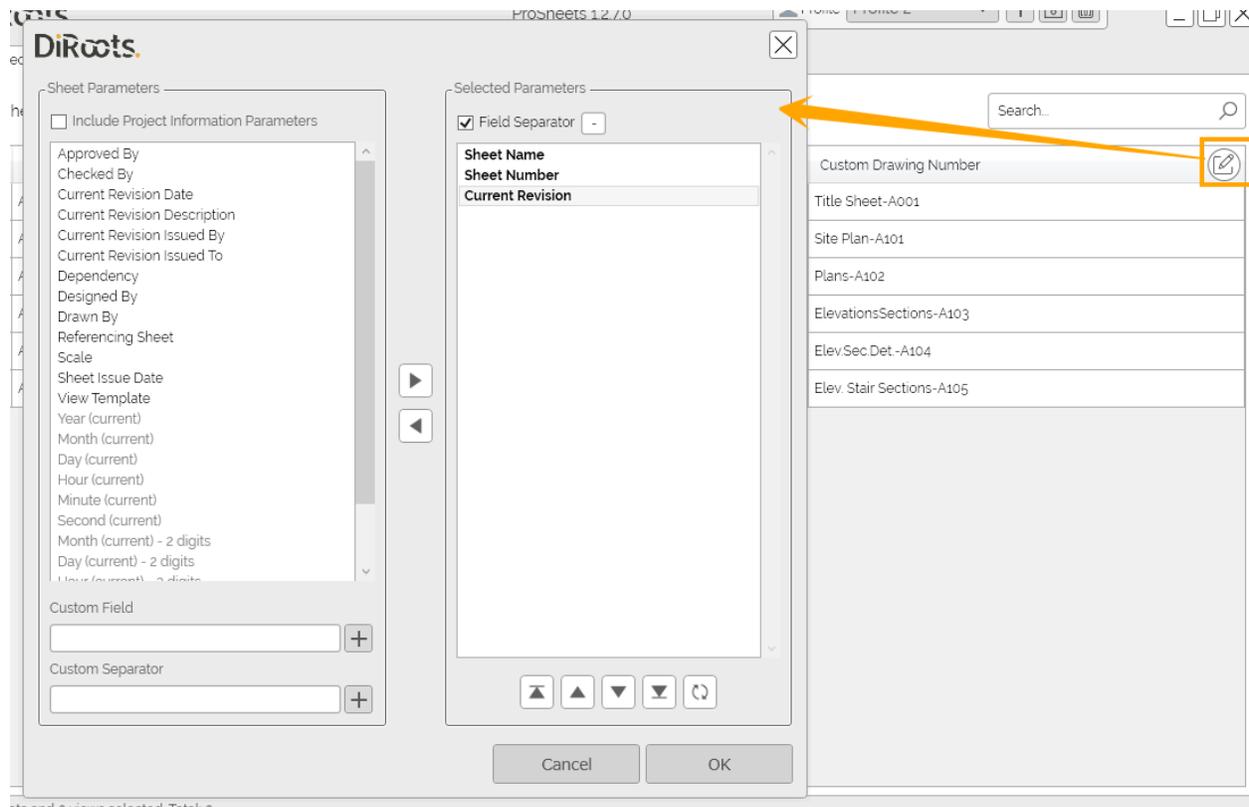
The first step is to select which Sheets and Views you want to export.

The selection can be done manually going through the existing Sheets and Views or you can directly select a View/Sheet Set.



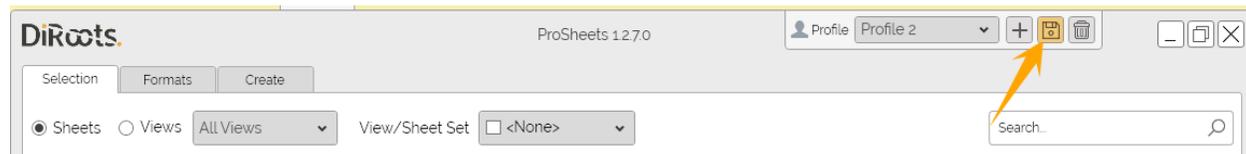
Building the filename

The filename can be set using parameters from the Sheets/Views, Project Information parameters, or static custom parameters. These options provide you the flexibility to fully customize the filenames.



Saving your filename convention to a Profile that can be saved and reused across your organization

Just click on the save icon and name the profile.



Select the file formats that you want to export to

Select the file formats and customize the settings. You can export Views and Sheets to PDF, DWG, DGN, DWF, NWC, IFC, and Images (JPEG, PNG, TIFF, etc.).

Finally, export your Sheet and Views

ProSheets will automatically recognize the width and height and orientation of the Sheets as per your Title Block dimensions. You can also manually change the dimensions. Click create and see your deliverables appearing in the selected location.

The screenshot shows the ProSheets 12.7.0 interface. At the top, there's a header with the DiRoots logo, the version number 'ProSheets 12.7.0', and a profile dropdown set to 'Profile 2'. Below the header are three tabs: 'Selection', 'Formats', and 'Create', with 'Create' being the active tab. The 'Export Rules' section contains a 'Folder Selection' field with the path 'C:\Users\Joao_\Desktop\AU2021\' and a 'Completed 0%' indicator. There are two radio buttons for saving options: 'Save all files in the same folder location' (unselected) and 'Save and split files by file format' (selected). A 'Don't Save Report' dropdown is also present. Below this is a 'Paper Size and Orientation' dropdown. A table lists the sheets and views to be exported:

<input type="checkbox"/>	View/Sheet Number	View / Sheet Name	Format	Size	Orientation	Progress
<input type="checkbox"/>	A001	Title Sheet	PDF	A1	Landscape	
<input type="checkbox"/>	A101	Site Plan	PDF	A1	Landscape	

At the bottom of the interface, there are buttons for 'Feedback', 'Donate', 'Custom Software Development', 'Back', and 'Create'. A yellow arrow points to the 'Create' button. The status bar at the bottom left indicates '2 sheets and 0 views selected. Total: 2'.