

# BUGVA WORKSHOP GUIDE

## Agenda

April 2019

- A. Property Driven Features - Items
- B. Text Favourites & Label Cells
- C. Reports & Tables
- D. Drawing Production - Named Boundaries

2D Drawings from 3D Models

- E. Sheet Index's

## Review Workspace (BUGVA) & WorkSet (WorkShop)

Name	Date modified	Type
WorkShop	8/04/2019 1:06 PM	File folder
WorkShop.cfg	21/02/2019 5:56 PM	CFG File
WorkShop.dgnws	8/04/2019 1:06 PM	DGNWS File

## MicroStation CONNECT Edition

Recent Files

File Name	Path	Modified	Size
LandscapeRD_5.dgn	C:\ProgramData\Bentley\MicroStation CONNECT Edition\Configuration\WorkSpaces\BUGVA\WorkS...	9/04/2019 3:50:01 PM	894 KB
Tree Survey Nth Syd -A2.dgn	C:\ProgramData\Bentley\MicroStation CONNECT Edition\Configuration\WorkSpaces\BUGVA\WorkS...	9/04/2019 12:05:00 PM	215 KB

Properties

Property	Value
Name	WorkShop
Description	April WorkShop WorkSet
Facility	BUGVA
Cad Monkey	S.M.
Checked By	I. Greentree
Date Checked	8/04/2019 12:00:00 AM
Date Drawn	1/10/2018 12:00:00 AM
Surveyor	Tri Trunks

CONNECTED Project Properties

No project attached.

[Show All Properties](#)

A. ITEMS – Are a user-defined set of properties used to describe an object or element.

1. File Open

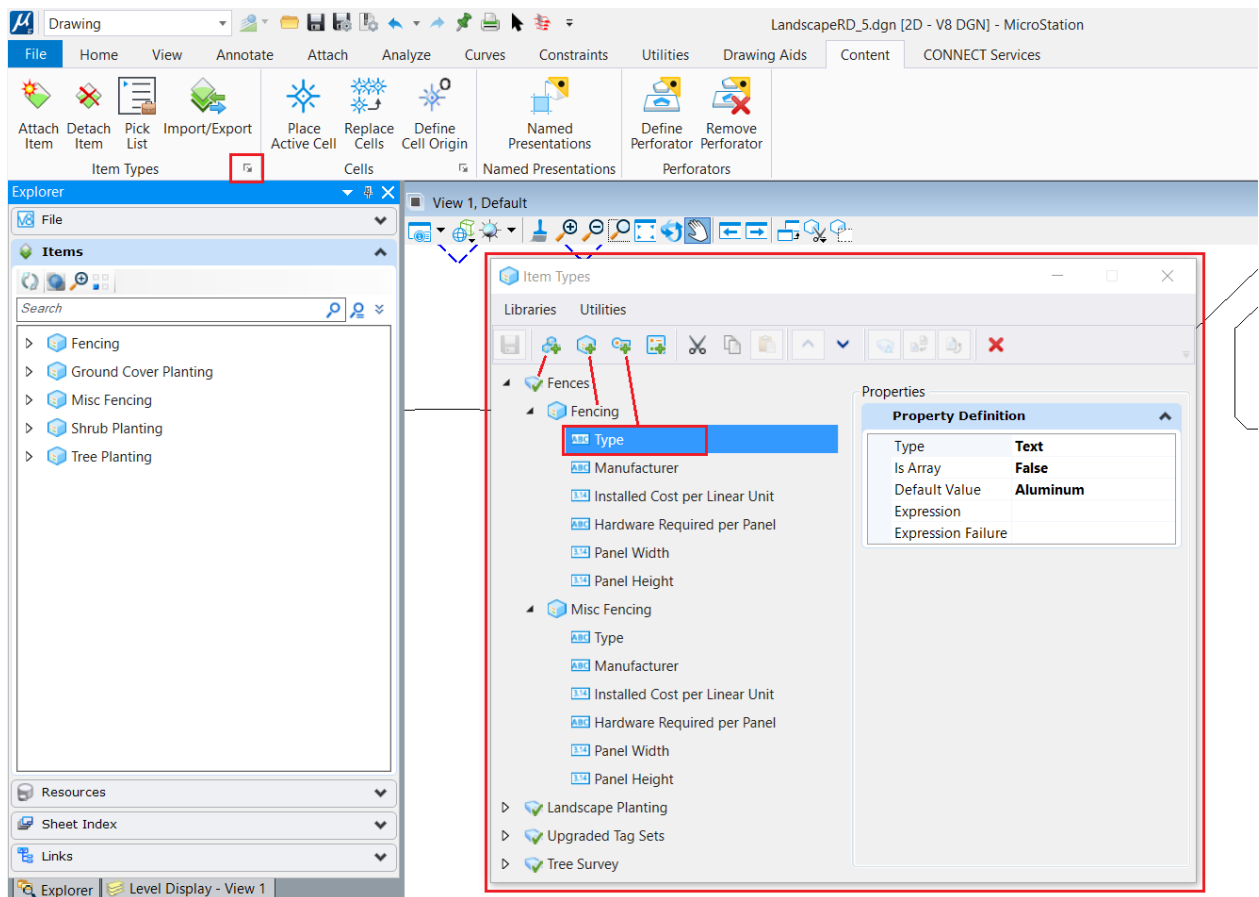
**LandscapeRD\_5.dgn**

2. Review Items

Home>Content Tab or Search 'Items'

3. Create in the Active File, then in Dgnlib, Open 'Item Types Dialog' and Import into the DGNLIB (ReportTemplate.dgnlib).

- Items can be attached to a model within a cell library; every time that model is placed as a cell, the attached items are copied to the new cell.
- Items can be attached to an element template; every time the element template is used, a copy of the template's items are attached to the new element.
- The properties in item types can be used to label, report, or change the display of elements or objects.
- Door schedules and signage reports are some of the real-world examples where item types can be used.



## B. TEXT FAVOURITES & LABEL CELLS

File Open

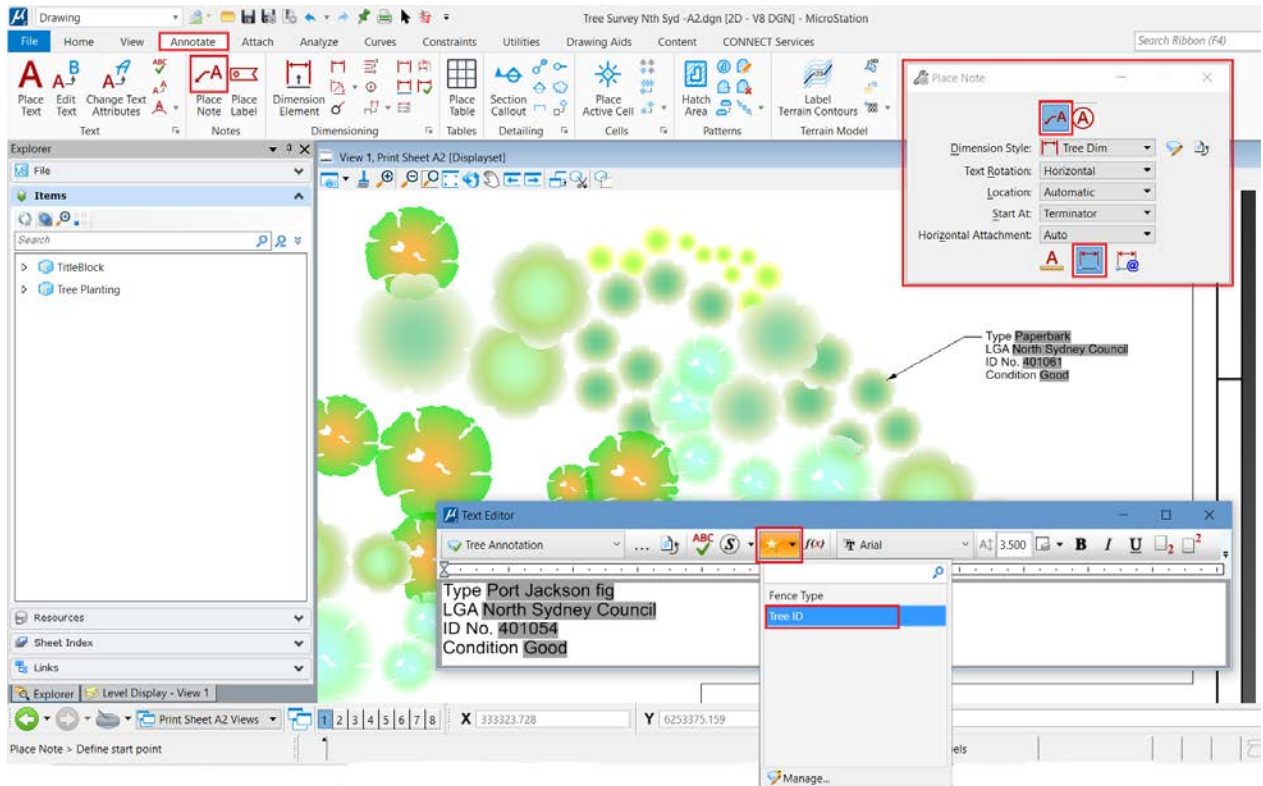
**Tree Survey Nth Syd -A2.dgn**

Review Place Note

Annotate Tab>Notes >Place Note or Search 'Note'

Insert Favourite

Snap data point on one of the Trees and drag out to place.



## LABELS

File Open

**NthSyd\_Office2.dgn**

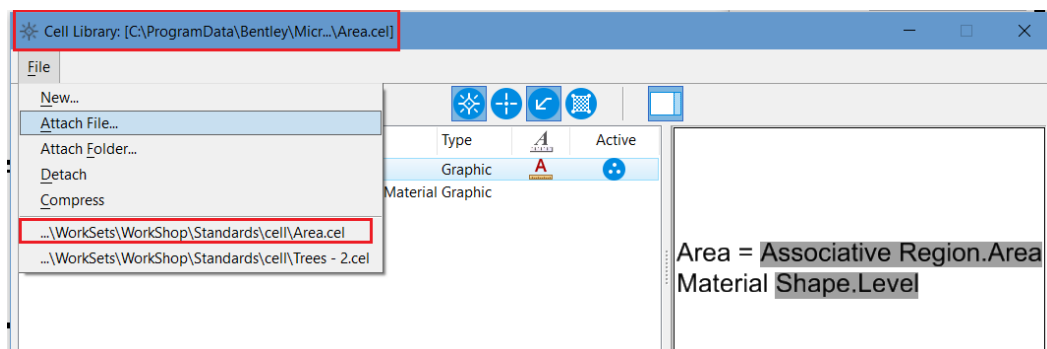
Review Place Label

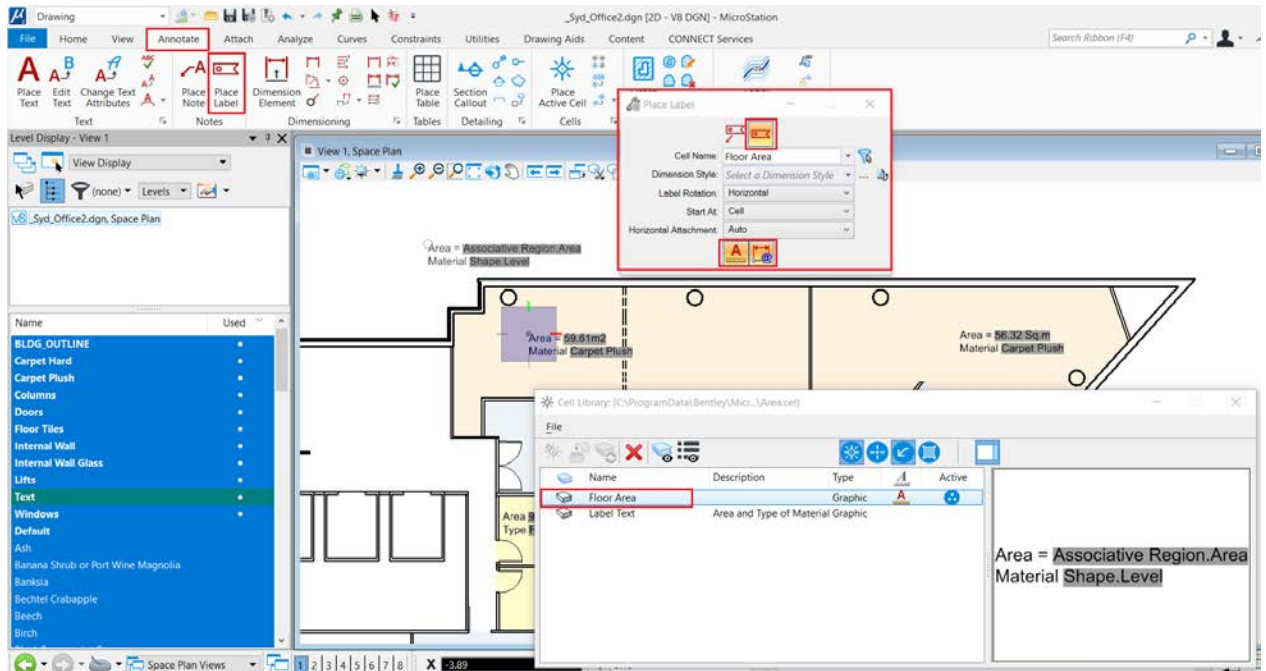
Annotate Tab>Notes >Place Label or Search 'Label'

Attach Cell Library

Area.cel>Floor Area cell

Data Point on Filled Shape





## C. REPORTS AND TABLES

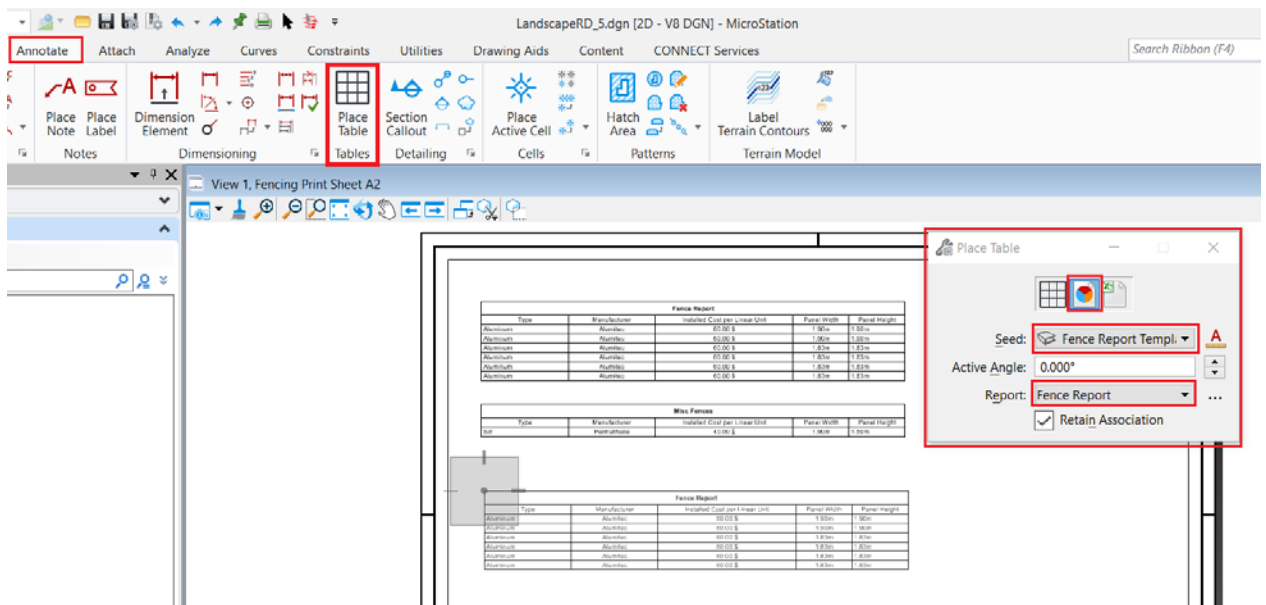
File Open

**LandscapeRD\_5.dgn** (Sheet Model)

Review Place Table

Annotate Tab>Tables or Search 'Place Table'

Select 'From Report' Icon in Tool Settings, Select Seed Template, Select Report Click on ... to Browse to Report (Saved in Dgnlib).



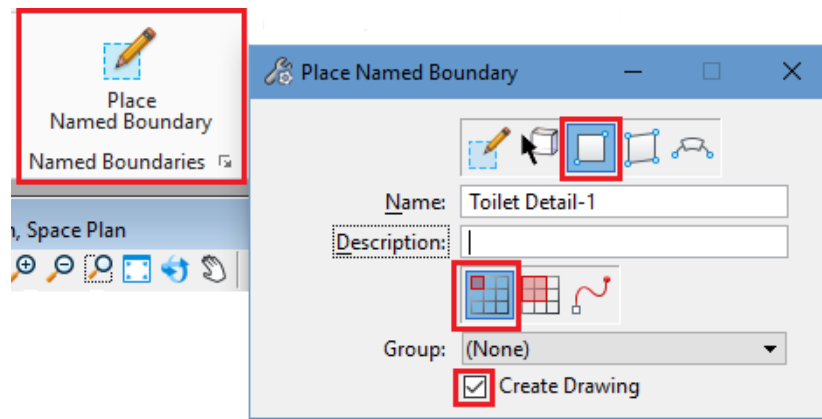
#### D. DRAWING PRODUCTION – NAMED BOUNDARIES

File Open

**NthSyd\_Office2.dgn**

Review Models, then,

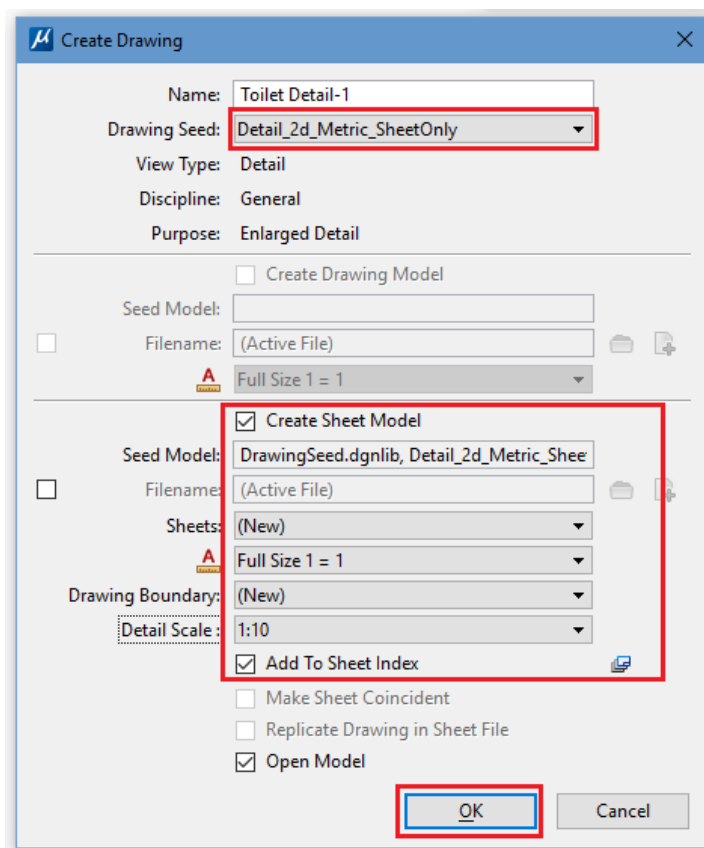
View Tab>Named Boundaries >Place Named Boundary or  
Search 'Boundary'



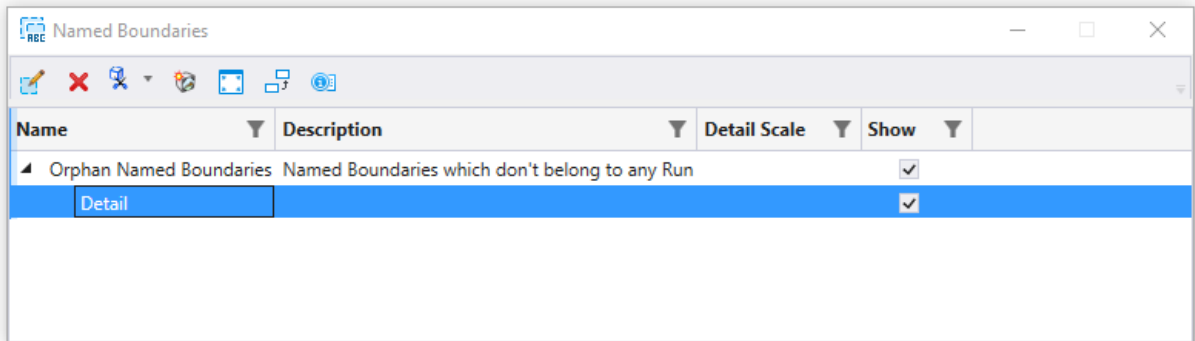
The Named Boundary can be created in the Design or Drawing Model (if one already exists)

The Boundary can automatically generate a new Model with the contents of the Boundary attached as a reference file.

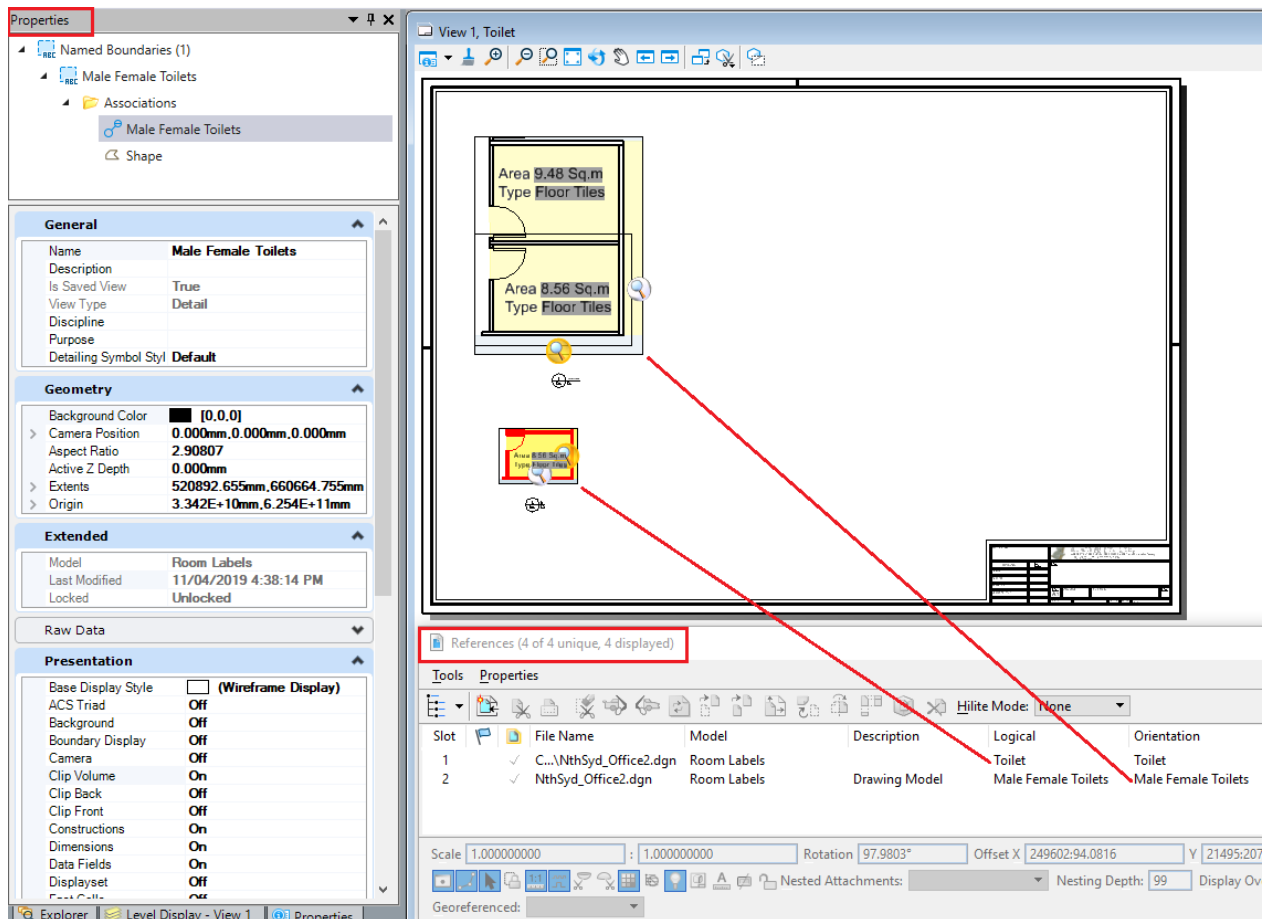
Choosing the relevant 'Drawing Seed' determines the options available, in the example below only a Detail Sheet Model will be generated due to the 'SheetOnly' seed.

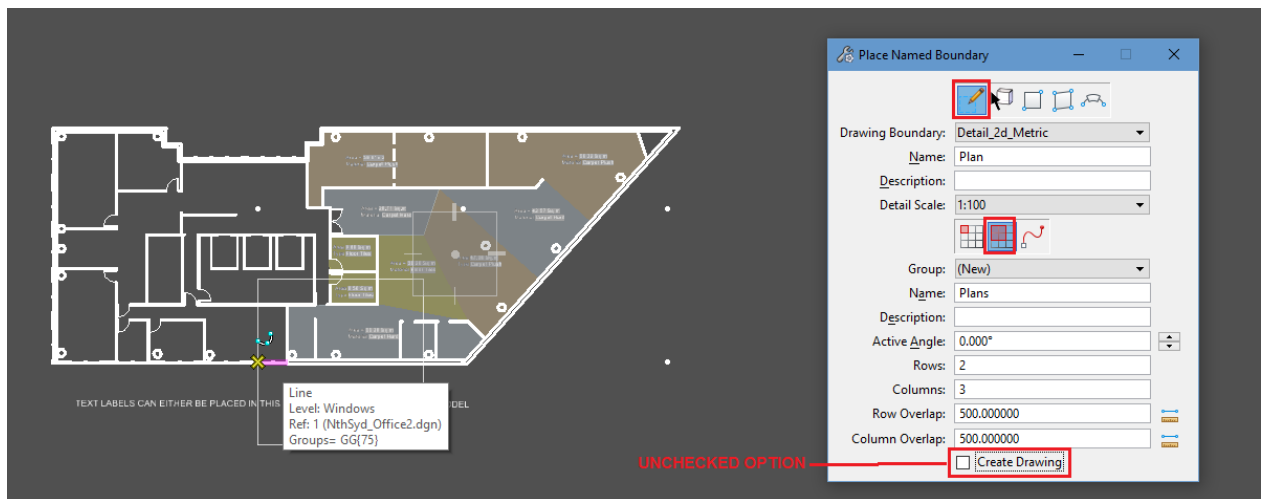


If Create Drawing is 'unchecked' then just a Named Boundary (Saved Fence) is created. Additional options are available from the Named Boundary dialog.

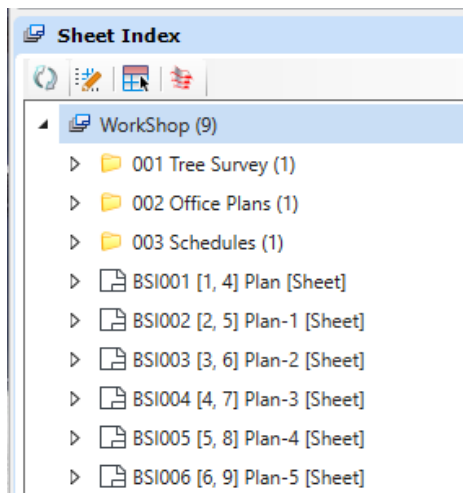


The new 'Sheet Model' shown below with the contents of the Boundary attached as a reference file. Additional Named boundaries/Saved Views can be added to the sheet.





After creation of Plans sheets they can be automatically added to Sheet Index.



The YouTube link below explains what is stored in the **DrawingSeed.dgnlib** file and how it controls the look and feel of your 'Create Drawing' seed options.

[https://www.youtube.com/watch?v=r\\_wwSOFECMg&feature=youtu.be](https://www.youtube.com/watch?v=r_wwSOFECMg&feature=youtu.be)

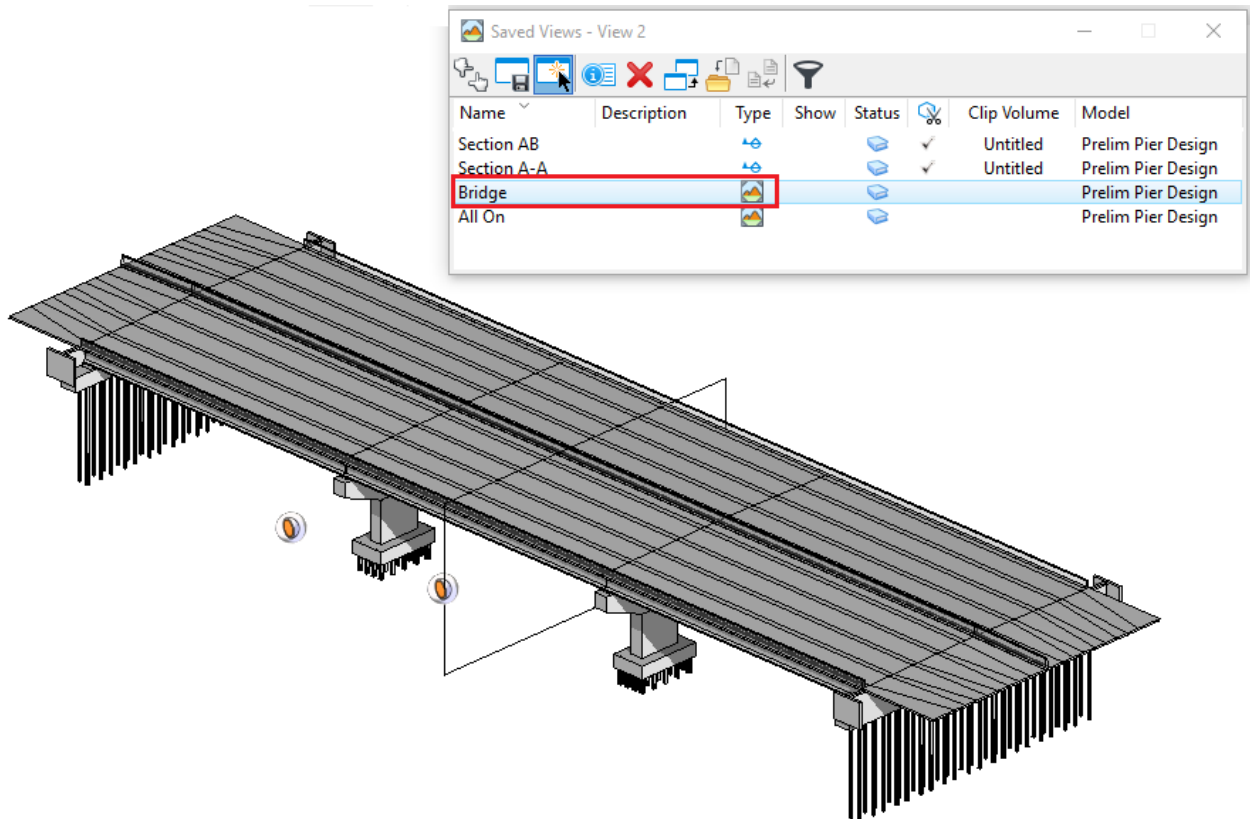
## E. 2D DRAWINGS FROM 3D MODELS

File Open

**Bridge\_Pier\_Plan\_M.dgn** (Design Model)

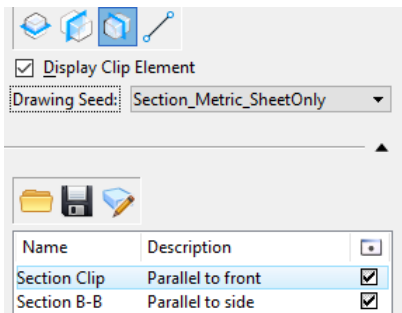
Review Models, then,

View Tab>Saved Views Dialog >Apply Saved View '**Bridge**' or Search 'Saved'

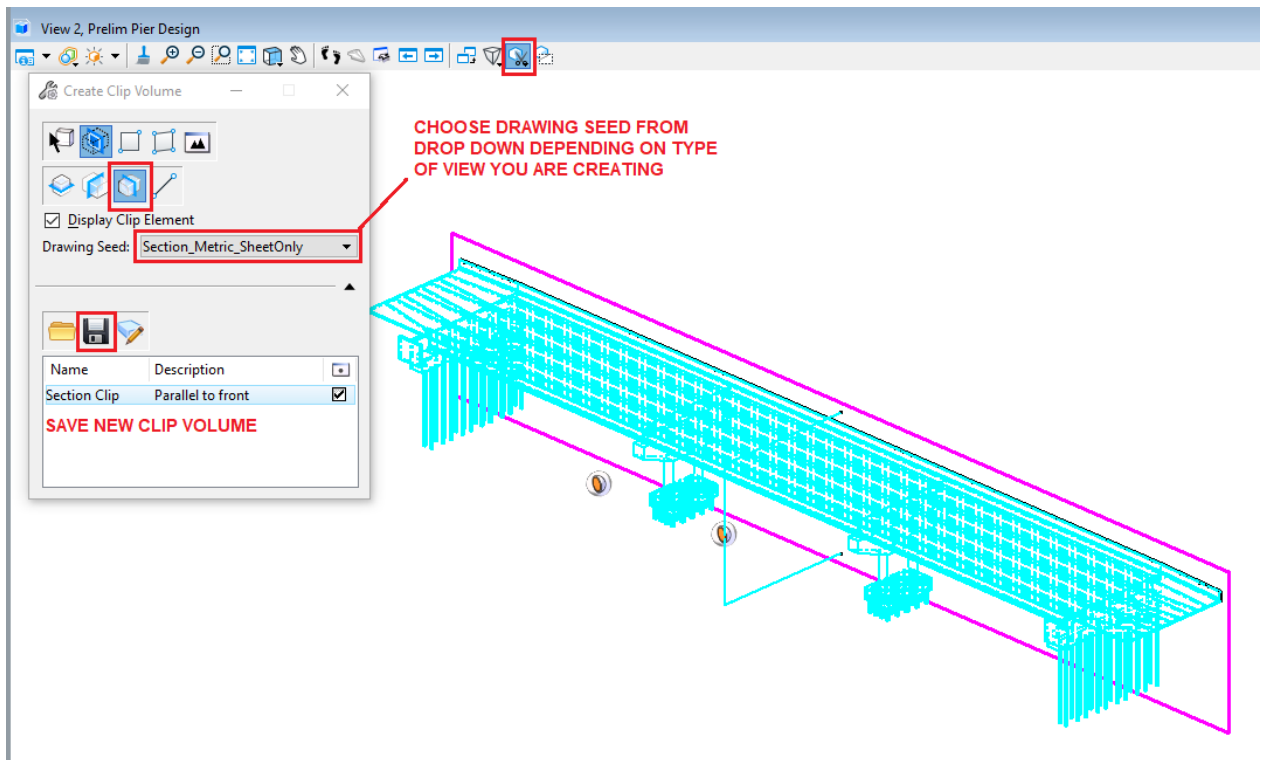


Create a Clip Volume from the ribbon or from View controls on top of window

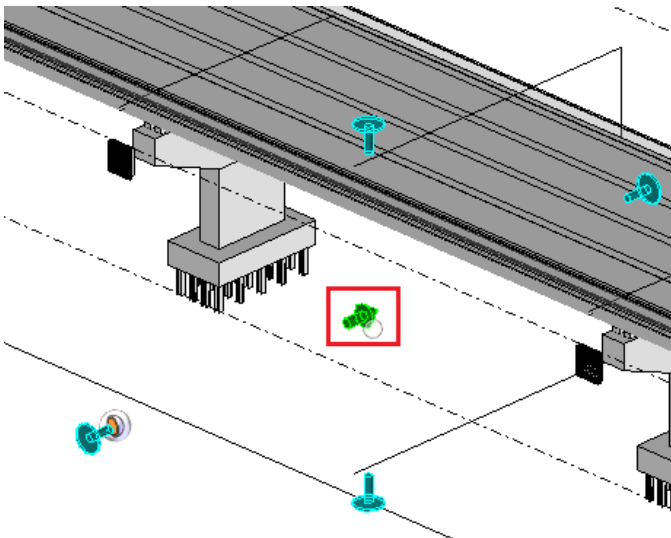
Save the Clip Volume from the drop down of the Tool Settings







Select the Clip Boundary and orientate the direction of the cut and the amount of cut

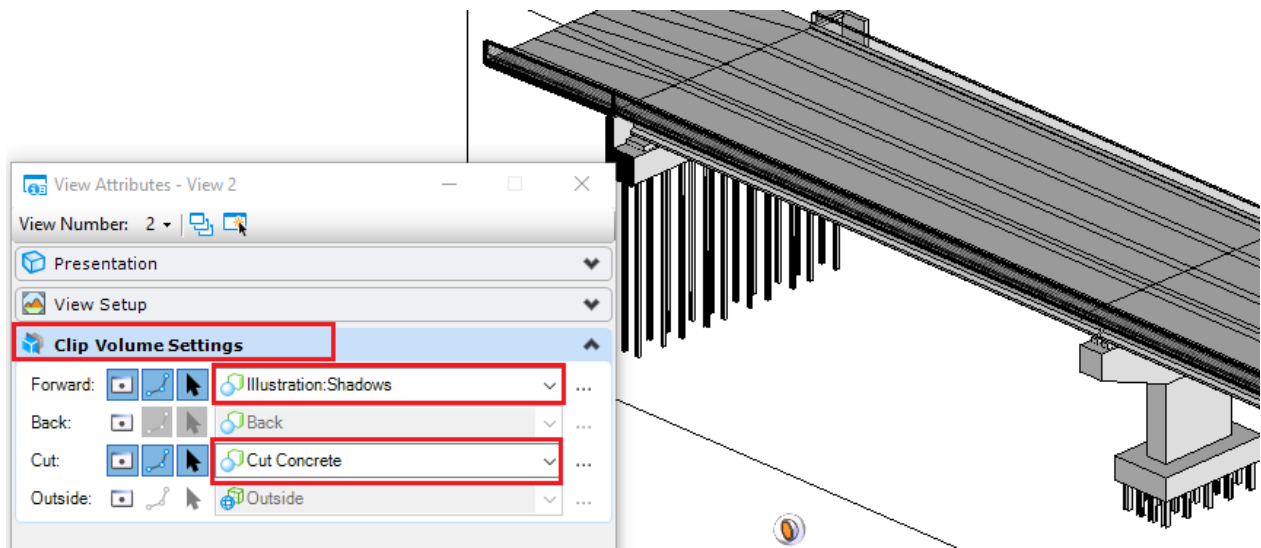


Open View Attributes Ctrl 'B' and in Clip Volume Settings Tab

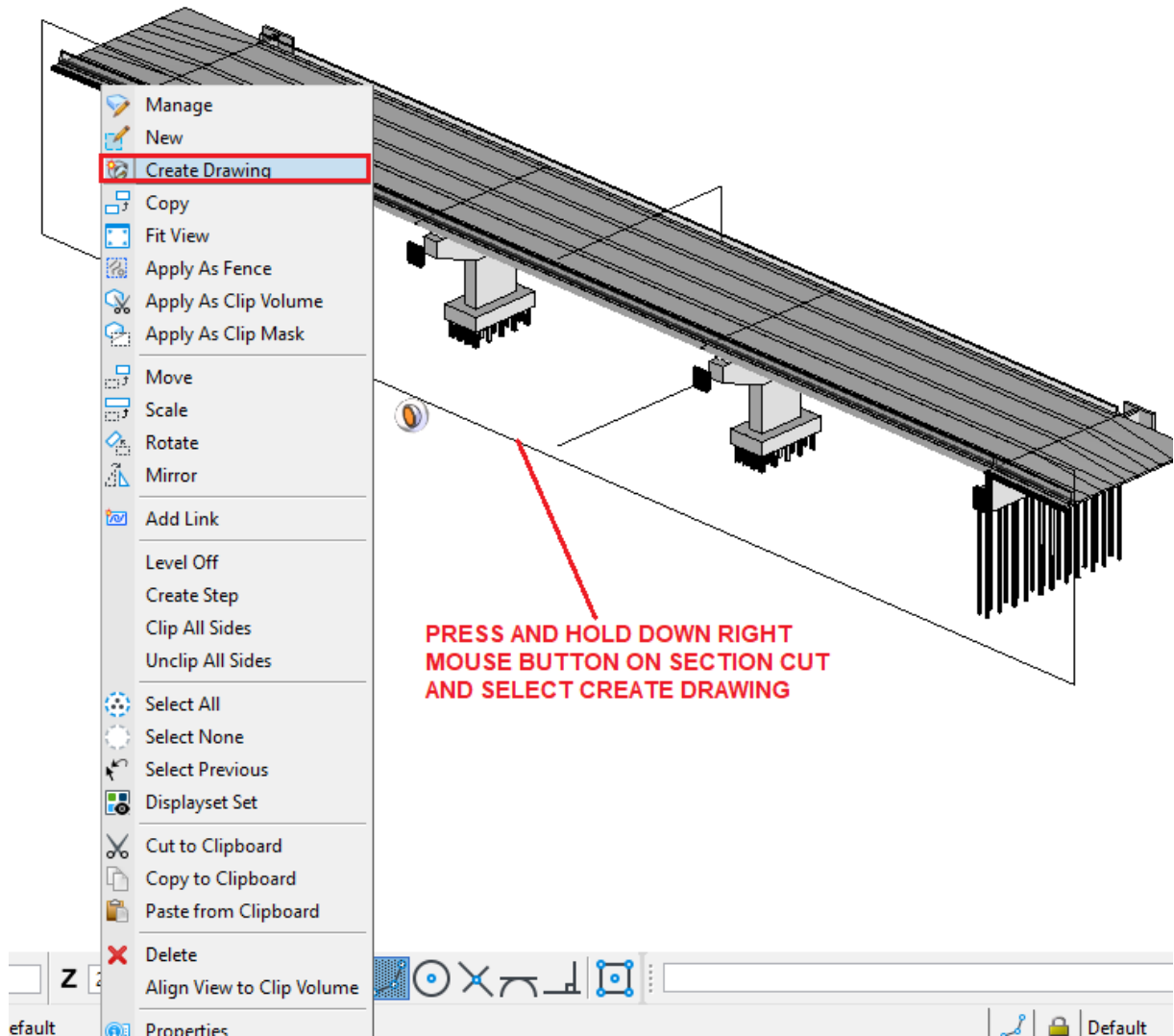
Change the Display Style Forward: **Illustration:Shadows**

Cut: **Cut Concrete**

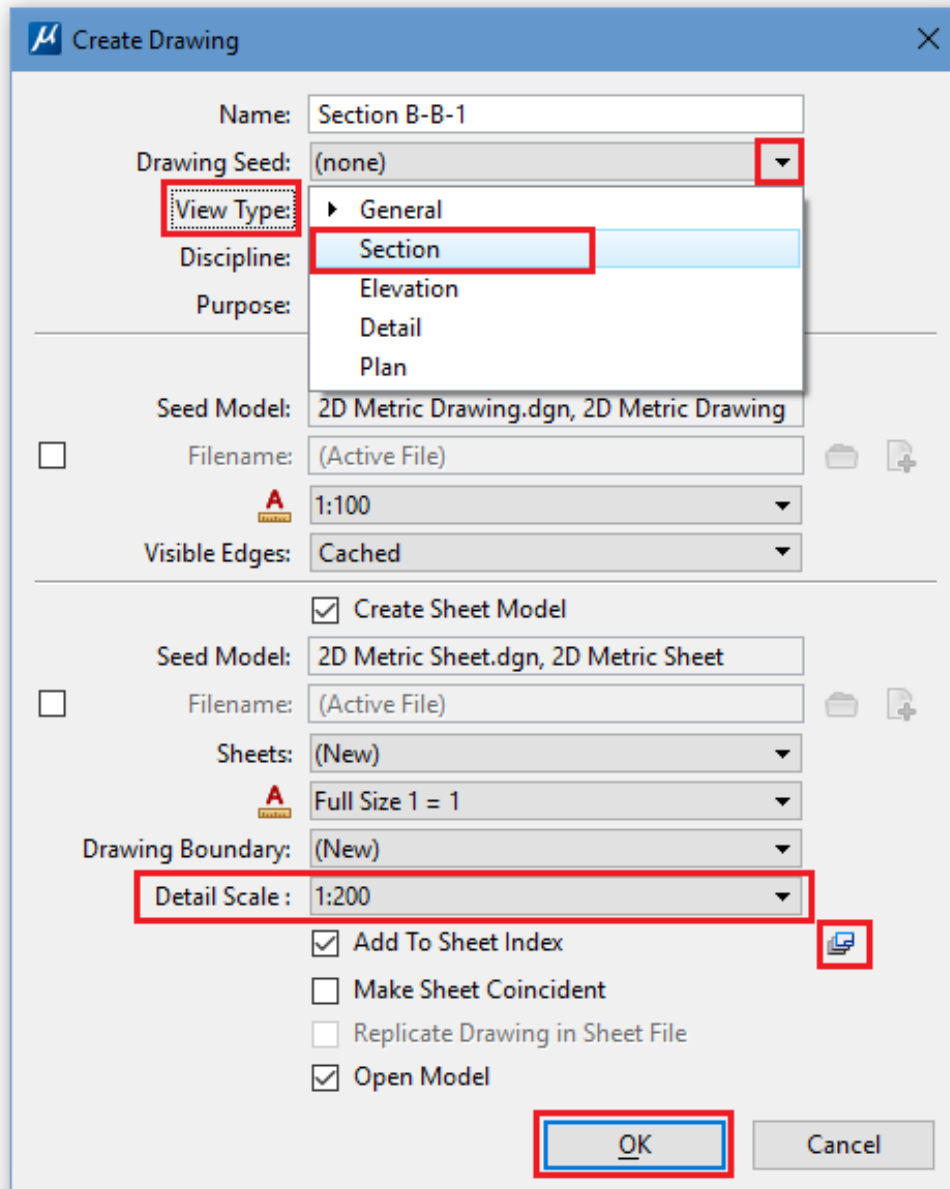
See Image Over



Press and Hold Right mouse button to get Contextual menu



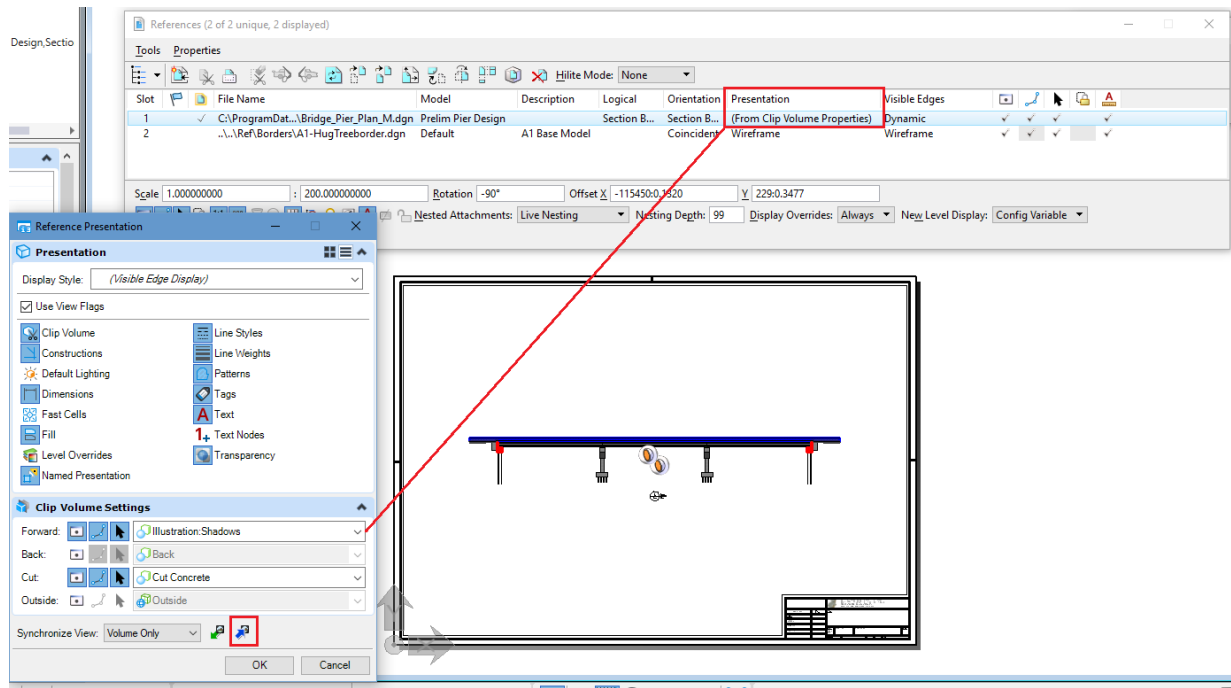
Select **View Type** first, then Drawing Seed to **Section Metric Sheet Only**



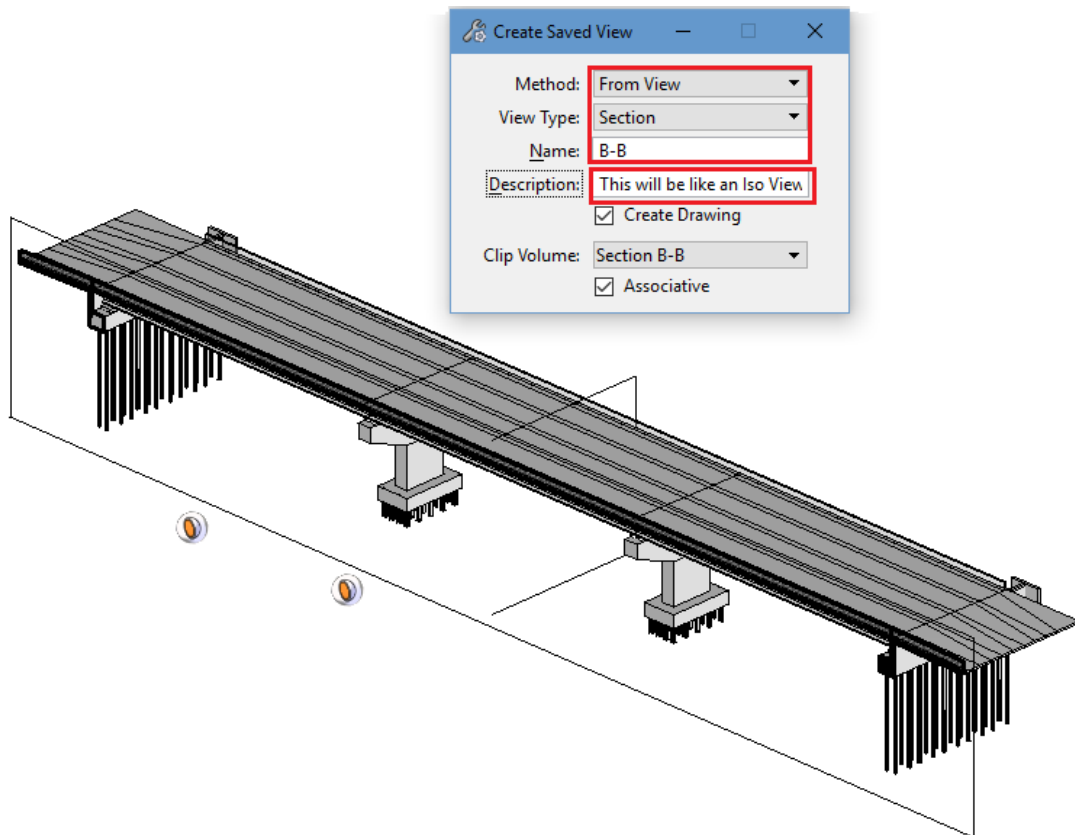
Resulting Image on Sheet will be different to below, as the presentation will be coming from the Clip Volume settings this can be changed as shown on the following page



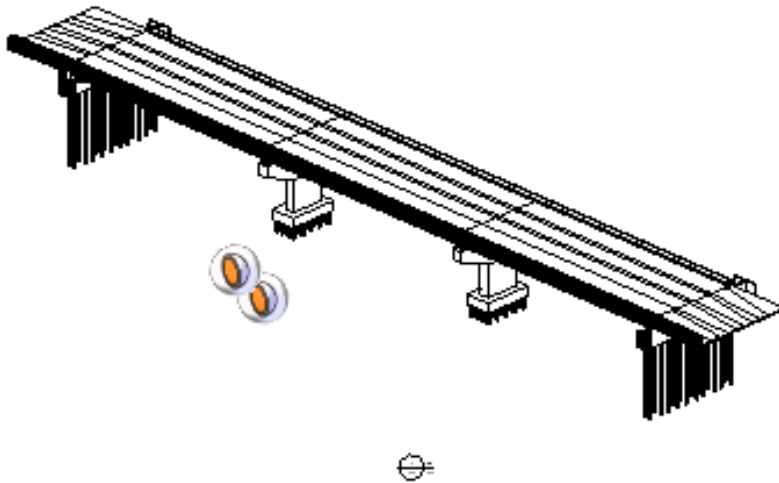
Image on Sheet after adjustments have been applied and then pushed back to the Saved View



A Saved View can be created manually 'From View' for a completely different result



A Manually created 'Saved View' with the 'Create Drawing' checked, Scale set to 1:200 will produce the following result

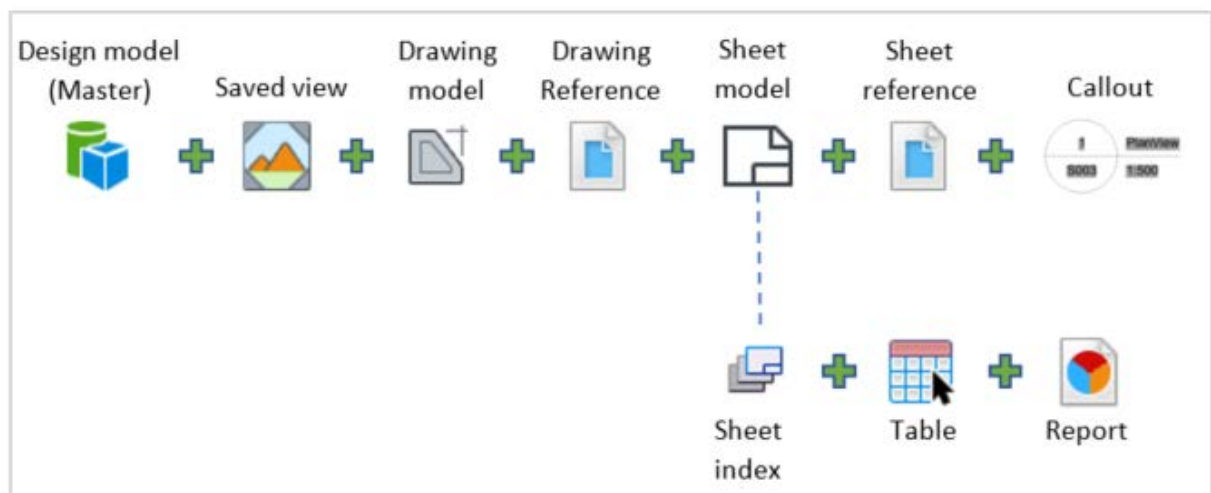


Saved Views can be auto generated and manually created then, added to existing Sheets, or to new Sheets.

There is a fair amount of effort required to obtain the desired presentation including, modifying the 'Default' supplied Display Styles, as well as Seed files used in the generation of Dynamic Views.

The following [Building Blog](https://communities.bentley.com/products/microstation/b/microstation_blog/posts/composing-drawings-blog-series-building-design-blog-1-of-4) is a good place to start understanding the basics of how they work

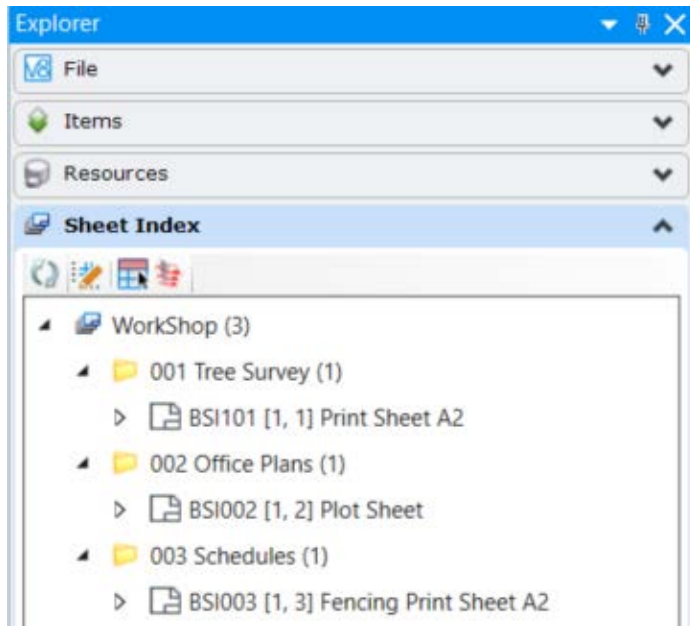
[https://communities.bentley.com/products/microstation/b/microstation\\_blog/posts/composing-drawings-blog-series-building-design-blog-1-of-4](https://communities.bentley.com/products/microstation/b/microstation_blog/posts/composing-drawings-blog-series-building-design-blog-1-of-4)



## F. SHEET INDEX'S

File Open                      **LandscapeRD\_5.dgn**, Tree Survey, or NthSyd\_Office dgn (Sheet)

Review Sheet Index              Explorer>Sheet Index Tab or Search 'Explorer'



Click on 'Open Sheet Index for Edit' - 2<sup>nd</sup> Icon with Pencil



Select Folder Icon to create Folders

Sheets can be adding by drag & drop from the Models dialog or by clicking on Add Sheets



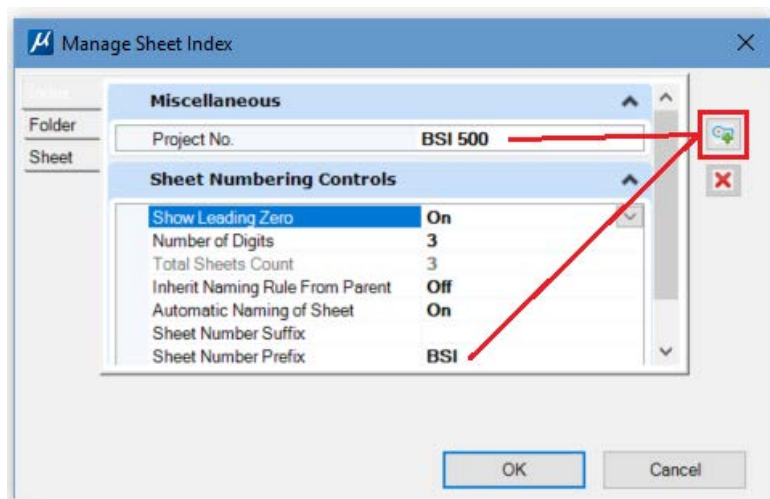
Click on Manage Sheet Index

3<sup>rd</sup> Icon



Click on Icon as shown below

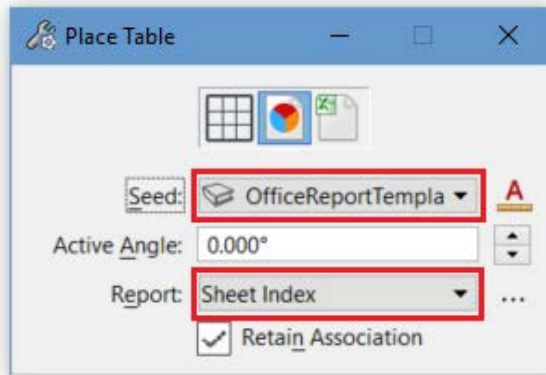
Add Custom Properties i.e. Project No.



Click on Place Table Icon

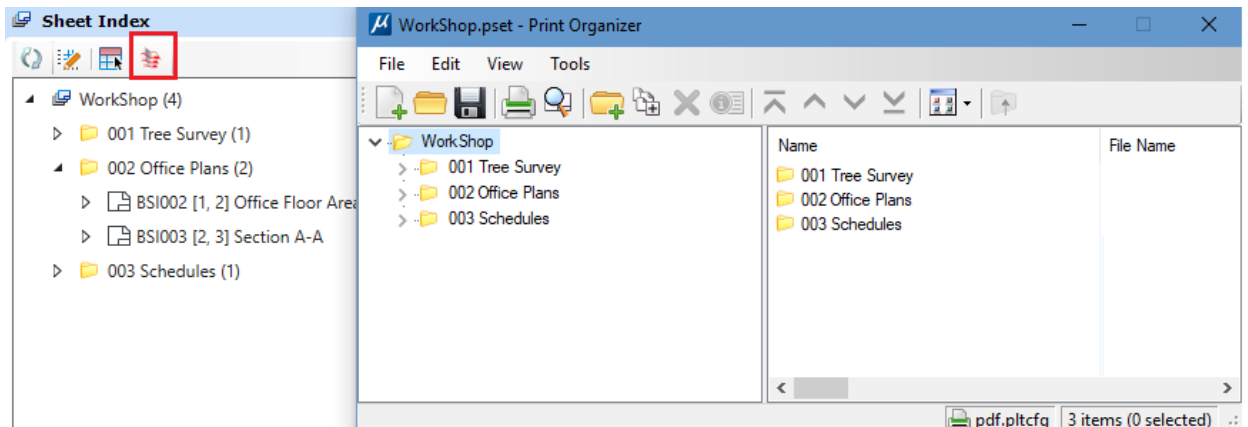


Sheet Index									
Workshop	BSI 500	001 Tree Survey	BSI 001	1	Tree Survey 001.dgn	001	Sheet Index	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe
	BSI 500	002 Office Plans	BSI 002	2	Office Plans 002.dgn	002	Sheet Index	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe
	BSI 500	003 Schedules	BSI 003	3	Schedules 003.dgn	003	Sheet Index	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe	C:\Program Files\Autodesk\AutoCAD 2010\AutoCAD.exe



The Report 'Sheet Index' will be automatically created and selected, a Seed can be used for formatting this is from the Dgnlib or can be set to 'None'.

Print Organizer will automatically add sheets ready for printing.



## Conclusion

Wow that's a lot of Information!!

Thank you for attending ☺