



CONNECT DOCUMENTATION

[Connect Edition Introduction](#)

Drainage Profiles

Table of Contents

Creating Drainage Profiles for Plotting	2
Introduction – Create Drainage Profile - Video	2
Open Drainage Profile in a Profile Model	2
Use Place Named Boundary to Create the Drawing and Sheet Models.....	3

Creating Drainage Profiles for Plotting

Introduction – [Create Drainage Profile - Video](#)

Drainage profiles are needed for complex drainage runs that cross other underground pipes and utilities. They can be used to determine limits of excavation as well as to review depth of cover. Not all drainage runs need to have profiles included in the contract.

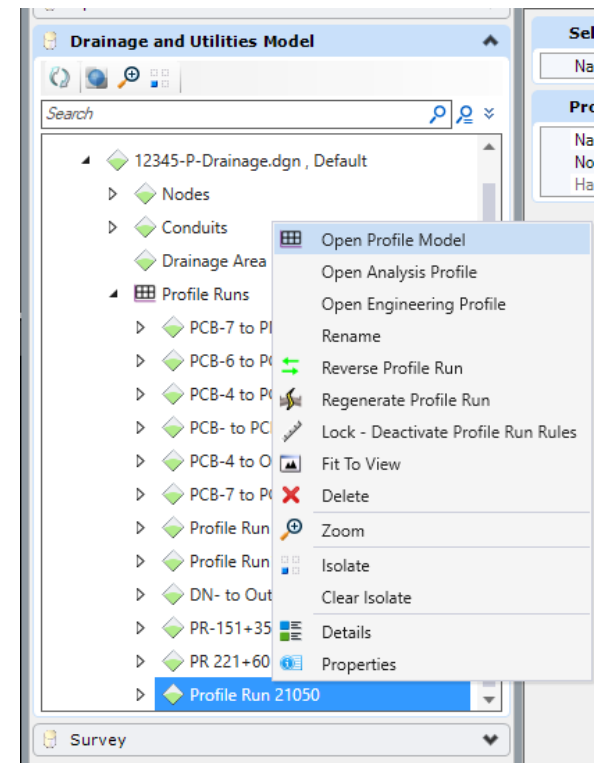
Drainage profiles should be created by following the Section on Creating Proposed Drainage Features – Drainage Profile View. The Actual Drainage profile needs to be created within the dgn that contains the Drainage and Utility Database. The Drawing and Sheet models can be located in a different dgn. These drawings can become rather large very quickly. It is recommended that different areas of the project get modeled separately to keep the files smaller and working well.

Open Drainage Profile in a Profile Model

With the appropriate Proposed drainage drawing open use the Right click menu - *View Plan/Profile* then Cancel. Open Explorer from the home tab and then open the Drainage and Utilities Model view in the explorer. Expand the entries to get to the Profile Runs list. Select the profile run, then right click and select *Open Profile Model*. Click in the bottom view to open the profile.

From the *View Attributes* tool change the Exaggeration to 1 and zoom into the profile. Use the *Annotate Elements* tool at the end of the view tools to annotation all elements in the profile. (May need to zoom out or in to see the annotation).

From the View tools select the *Create 3D Cut* tool and set to *Corners* accept and then drag a box around the profile to place it. This will display all the elements from the *Default-3D* model into the Profile.





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Use Place Named Boundary to Create the Drawing and Sheet Models

Change to the Drawing Production Tab and select *Create Named Boundary*. Drawing seed = **Ansi D – Drn Prof 10**, Detail Scale **1"=10'**, Vertical Exaggeration = **1**, and then click inside the profile view. Next update the start station Setting it to **-10**, left click to accept (a box should then be shown), set the Profile Height = **50**, and update the length as needed to encompass the profile. The Length should not exceed 300 as that is what fits on a landscape border. The height and the top clearance can be adjusted to get the profile centered in the Box. Update the name of the detail to include the station to station (or crossing station) value of the drainage run.

Left click inside the view to accept each entry and bring up the Create Drawing Box.



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The drainage profile models can be created in the same dgn or in a separate dgn. Check the boxes next to the *Filename* and in the *Drawing Model* section use the green + to create a new drawing or the folder to select a previously created drainge profile drawing.

In the *Sheet Model* section use the folder to select the just created drawing to contain the profiles. Set the annotation group to **NH Drainage 10 Prof Grid** and set the detail scale at bottom to **1"=10'**. Click OK.

The profile drawing and sheet models will be created in the designated drawing. Text and labels can be added in the Drawing model and in the Sheet model, the reference file can be moved to the desired location.

If adding an additional profile to an existing sheet the Sheets: toggle can be changed from (New) to the actual sheet name already created.

