

MicroStation – Creating a 3D PDF

MicroStation Print Command

Overview

This Tech Note describes how to create a 3D PDF document from MicroStation. This works well for conveying InRoads surface information to non-CAE users, but can be used with any 3D MicroStation file data.

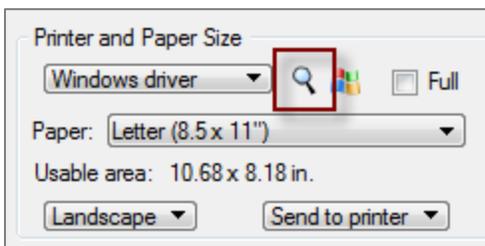
The resulting PDF will include the entire DGN contents regardless of the view or fence selection set at print time. However, the zoomed in area or fence selected will be the Default View. This could be used to focus attention on a specific portion of the PDF.

Workflow

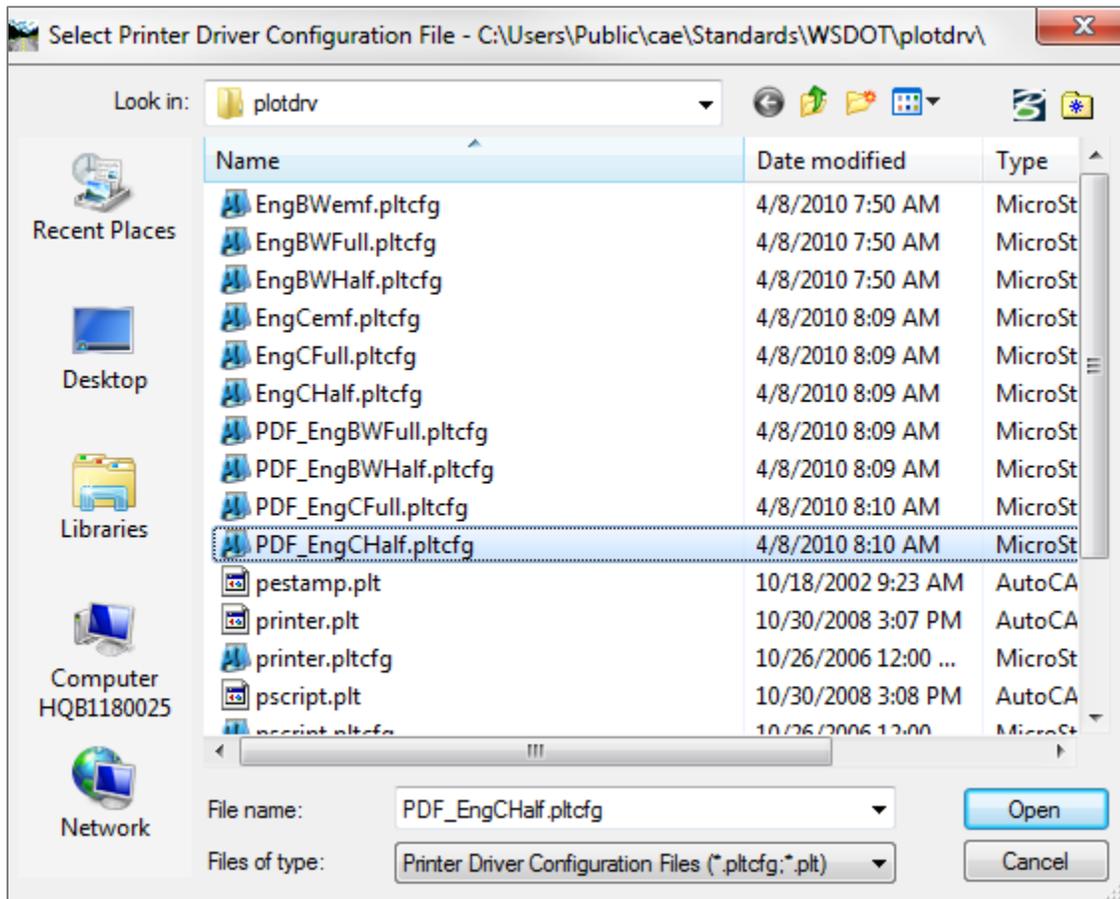
Use the **InRoads3D.dgn** seed file to create a MicroStation graphics file, and display your 3D data, such as InRoads DTM surface triangles and features.

Printing to 3D PDF

1. In MicroStation, select the *File > Print* command.
2. Click on the magnifying glass icon and select one of the WSDOT PDF print drivers.



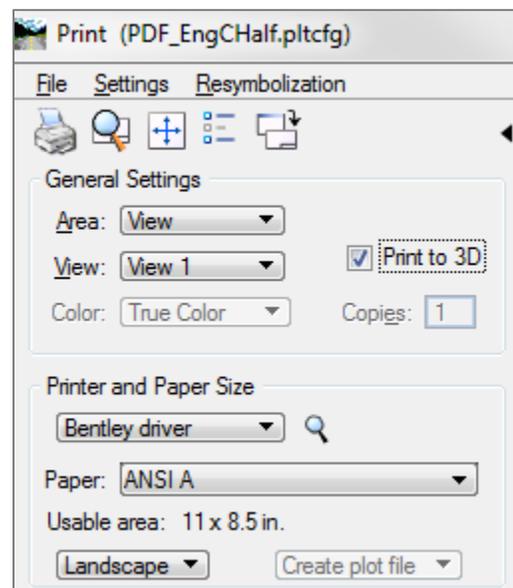
The Select Printer Driver Configuration File dialog displays.



3. Select **PDF_EngCHalf.pltcfg**.
4. Click **Open**.
5. Back in the **Print** dialog, select the **ANSI A** option to minimize the file size.
6. Toggle on the **Print to 3D** option.
7. In the **Print** dialog, select the **File > Print** command.

The **Save Print As** dialog is displayed.

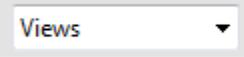
8. Save the PDF file.



Viewing the 3D PDF

The PDF document is displayed on creation. When you open the 3D PDF, a toolbar displays allowing for view navigation and display settings.



	3D Tools	Navigate around file including rotate, spin, pan, zoom, walk, and fly
	Default View	Return to the original view of the content
	Views Manager	Select and manage views
	Model Tree	toggles a pane including Model Levels, Views, and property values
	Projection Mode	Toggles between Projection and Orthographic projection mode
	Model Rendering Mode	Provides view rendering options such as solid, shaded, wireframe, and illustration.
	Extra Lighting	Additional lighting options
	Background Color	Change the background color
	Toggle Cross Section	Cross Section properties and toggle

For questions or comments on this tech note, contact your regional CAE Support Coordinator or the WSDOT CAE Help Desk at (360) 709-**8013**.