

InRoads – Freehand Profile Preferences

Evaluation > Create Profile.

Overview

Profiles typically follow a horizontal roadway alignment and display the existing ground surface along the alignment. This is done for plans production or as a reference in preparation for creating a vertical roadway alignment, and the **WSDOT** profile preference is still recommended for that workflow.

The InRoads Create Profile tool can also be used in *Multipoint Alignment* mode to create freehand profiles (similar to the legacy CAiCE freehand cross section tool) by identifying two or more points anywhere on a surface. The Freehand_features and Freehand_w/o features preferences are recommended when using the Create Profile tool to create freehand profiles. These preferences and the associated workflow are described in this technote.

Workflow

There are two WSDOT preferences for creating freehand profiles. **Freehand_features** will annotate surface graphics and feature points in the profile for any crossing features in the selected surfaces. The **Freehand_w/o feature** preference draws only the surface graphics.

- 1. In InRoads, select the Evaluation > Profile > Create Profile... command.
- Select Preferences. Determine if displaying crossing features is desired and select the appropriate preference from the <u>Preferences</u> dialog.

Note: This tool honors feature filters. Use filters to view only subterranean, roadway, 3D, etc. features.

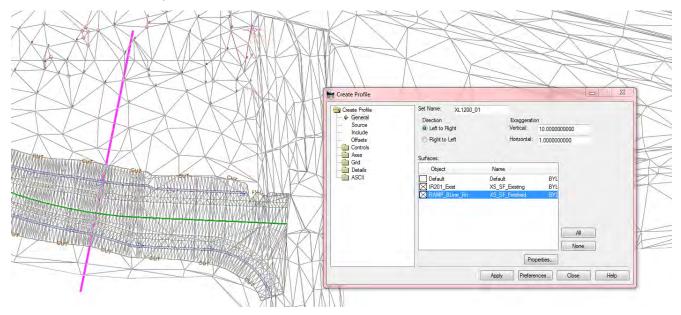
Create Profile General Source Include Offsets	Set Name: Set2 Direction © Left to Right © Right to Left Surfaces:	Exaggeration Vertical: 10.000000 Horizontal: 1.0000000	4977	Name: Default Freehand features Freehand w/o features WSDOT	Close Load Save Save As.,
Grid Grid Details	R201_Exist	Name Default BYL XS_SF_Existing BYL XS_SF_Finished BYL	AI	Active Preference: Freehand_	w/o features
		Properties	None Close Help		

3. Under the *General* tab, type a *Set Name* (starting a series with _01 will allow automatic incrementing) and select the desired *Exaggeration* and *Surfaces*.

NOTE: Vertical exaggeration also impacts the feature symbology, so default exaggeration is set to 1:1 for the **Freehand_features** preference.

Create Profile General Cource Include Offsets Axes	Set Name: XL1200_0 Direction © Left to Right © Right to Left Surfaces:	Exaggeration Vertical: Horizontal:	10.0000000 1.00000000	
Grid Cetails Cetails ASCII	Object □ Default ⊠ IR201_Exist ⊠ IRAMP_BLine_Fin	_Existing _Finished	BYL BYL BYL	
			perties	All

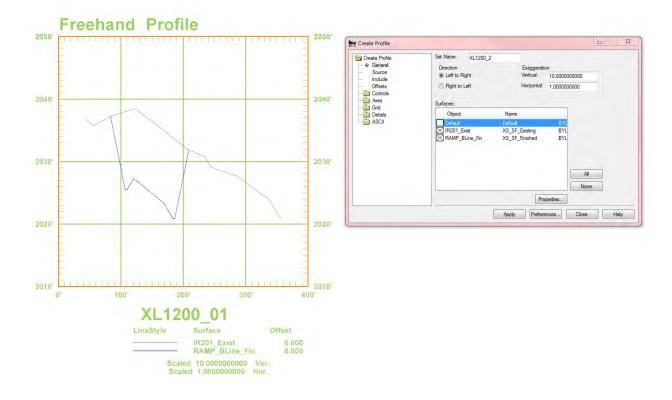
4. Select the **Apply** button, and following the MicroStation prompts, identify two points to define the limits of the freehand profile, and then reset.



Тесн Моте

WSDOT CAE SUPPORT

5. Complete the command by selecting a location to place the bottom left corner of the profile. The resulting freehand profile is annotated with color coded surfaces, the set name, and a legend documenting surface names, linestyles and vertical exaggeration.



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