

InRoads – Surface to SurvCE Custom Cross Section File

Overview

This process uses an InRoads surface file to create an InRoads Station Base XML file and saves it to a WSDOT SurvCE Custom Cross Section file.

Basic Workflow

Open InRoads alignment (ALG) and surface (DTM) files. Create a Station Base XML report file of the surface features to be included in the cross section file. Use this XML report file to create a WSDOT SurvCE Custom Cross Section XSL report.

Load Geometry Project into InRoads

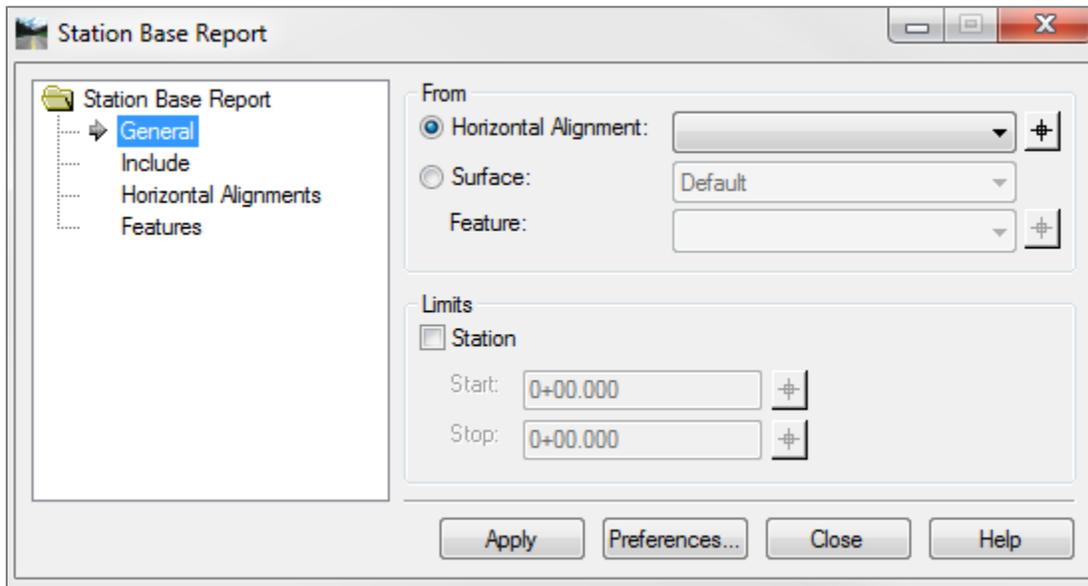
1. Select the *File > Open* command.
2. Set the *File Type* to **Geometry Projects (*.alg)** if it is not already set to all InRoads file types.
3. Browse and select the geometry project that contains the alignment to be used in the station base XML data file.

Load Surface into InRoads

1. Select the *File > Open* command.
2. Set the *File Type* to **Surface (*.dtm)**.
3. Browse and select the surface file to be used in the station base XML data file.

Create Station Base XML File

1. Select the *Tools > XML Reports > Station Base* command.
The Station Base Report dialog appears.
2. Click the **General** folder in the *Station Base Report* folder.
3. In the *From* area, select the appropriate horizontal alignment.

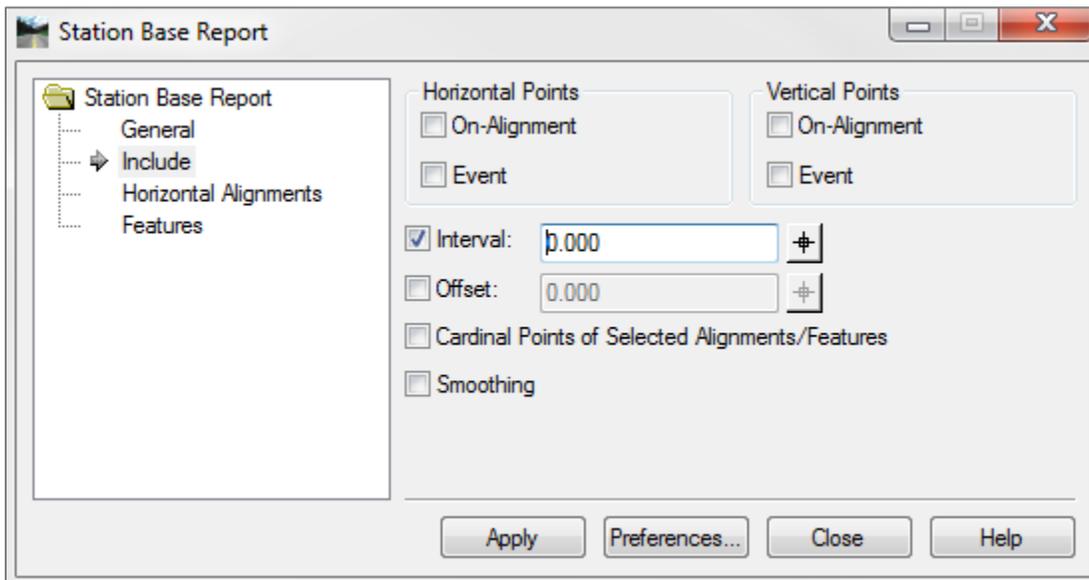


4. Select the **Include** leaf.
5. Enable **On-Alignment** in the *Horizontal Points* area.

Doing this ensures that the POB, PC, PT, and POE of the *From* alignment will be included in the report.

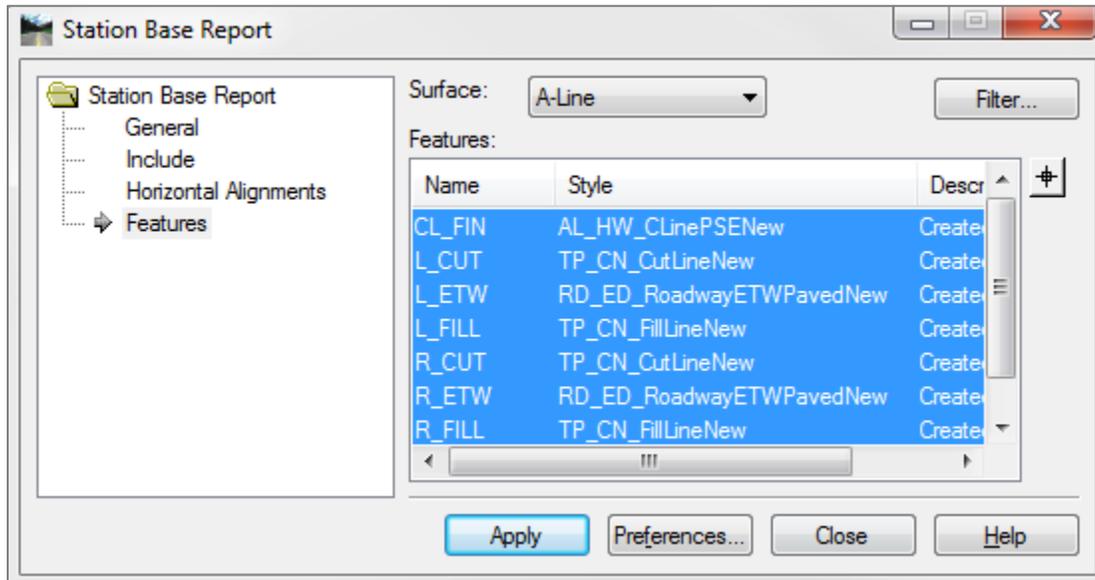
6. Enable **Interval** and key-in the desired distance.

The interval should match the interval used in the Roadway Modeler to create the surface and the interval needed to be staked in the field.



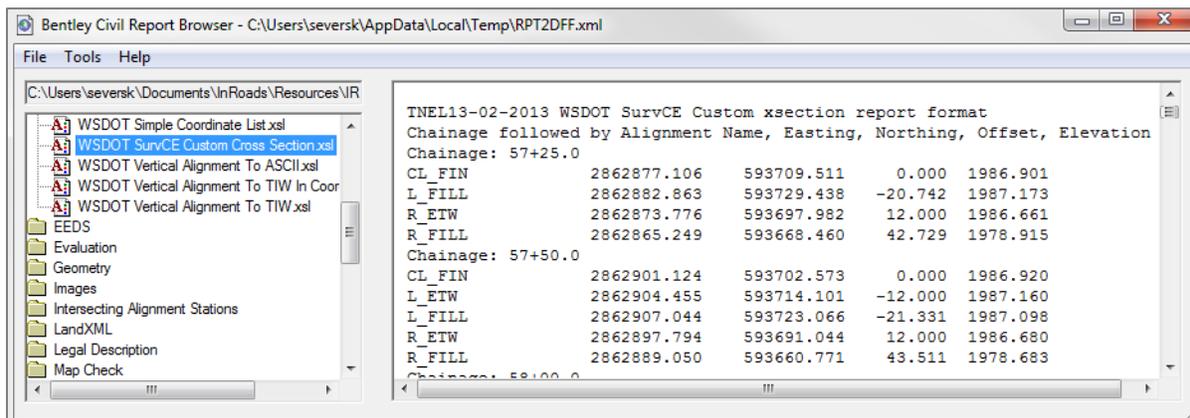
7. Select the **Features** folder.

8. Make active the appropriate surface and features that you want to include in the cross section file.
9. Click **Apply**.



The InRoads Report Browser dialog appears, and the temporary report file is viewed in a default XSL stylesheet.

10. Select the **Data Collection** Folder.
11. Select the **WSDOT SurvCE Custom Cross Section.XSL** report.



12. Select the *File > Save As* command.
13. Set the *Save as type* to **Text File (*.txt)**.
14. Browse to the appropriate folder, enter a file name and click **Save**.

The file is saved and is ready to be imported into the SurvCE application.

Refer to the [SurvCE – Importing InRoads Station-Base Cross Sections](#) technote for directions on importing and converting the file to a SurvCE (*.SCT) section file.

15. Set the *Save as type* to **XML File (*.XML)**.

16. Key in a file name and click **Save**.

The file is saved and is ready to be used to create a WSDOT Staking Report.

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