

## Trimble – Generating a TGO Road Definition from InRoads

### Overview

This process imports InRoads horizontal and vertical alignments and cross sections into a Trimble Geomatics Office **Road Link** to create a Road Definition file in SC V10.70 file format.

### Workflow

Use InRoads to create alignments and cross section reports. Use Trimble Geomatics Office **Road Link** to import and convert InRoads reports to a road definition. The road definition templates, horizontal and vertical alignment are reviewed and then exported to a Trimble Road definition file.

### Create InRoads Reports

For horizontal and vertical alignment reports, refer to the [Exporting Geometry to ASCII for Trimble Geomatic Office](#) tech note.

For cross section reports, refer to the [InRoads - Surface to Trimble Custom Cross Section File](#) tech note.

### Import InRoads Report into Trimble Geomatics Office Road Link

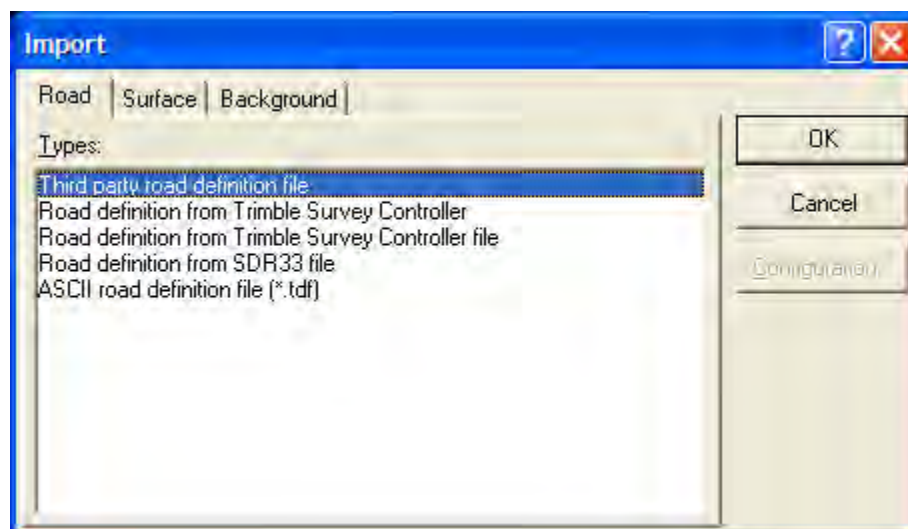
1. Open a project in Trimble Geomatics Office.
2. Select the *Tools > RoadLink > Start* command.

The Trimble RoadLink window appears.

3. Select the *File > Import* command.

The Import dialog appears.

4. In the *Road* tab, select the **Third party road definition file** type.
5. Click **OK**.

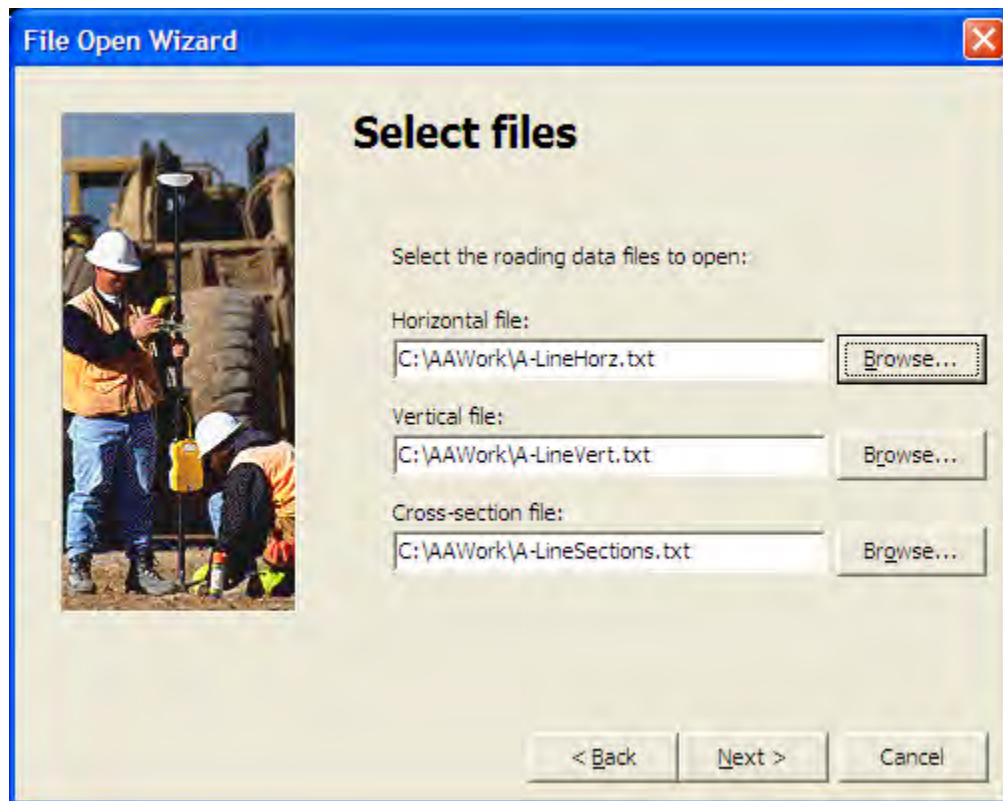


The File Open Wizard dialog appears.

6. Set the *Data Format* to **InRoads**.
7. Click **Next**.



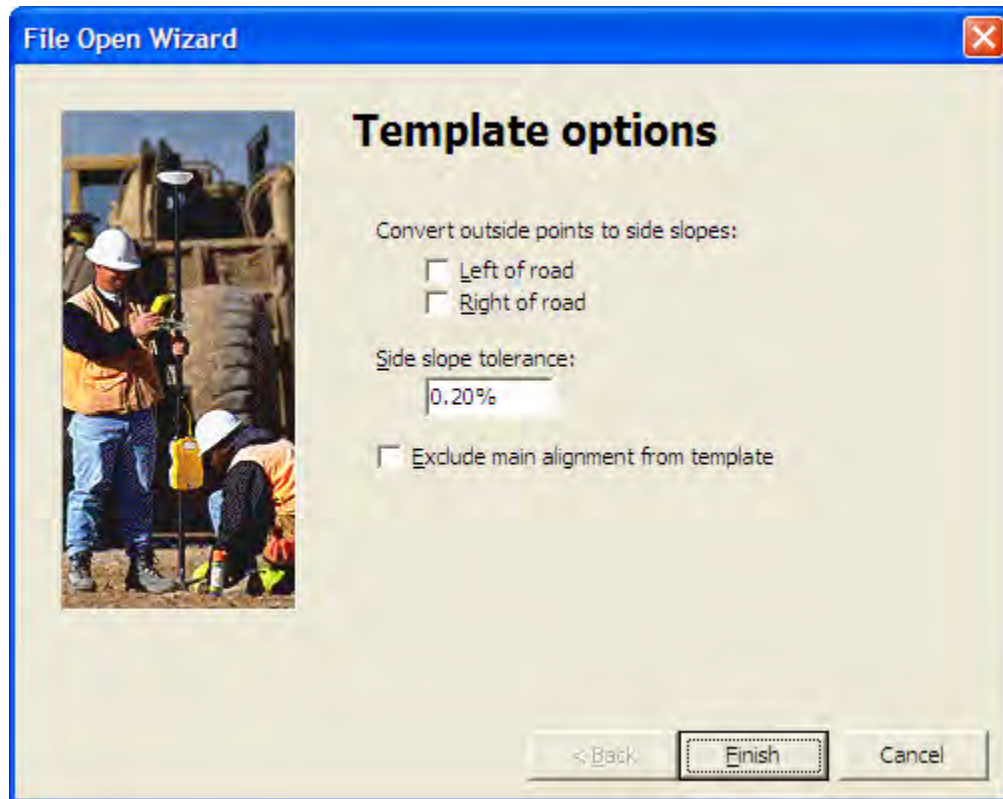
8. Enter or browse to each of the horizontal, vertical, and cross-section ASCII files generated by InRoads at the beginning of this process.
9. Click **Next**.



10. In the Template Options page, uncheck all options.

11. Click **Next**.

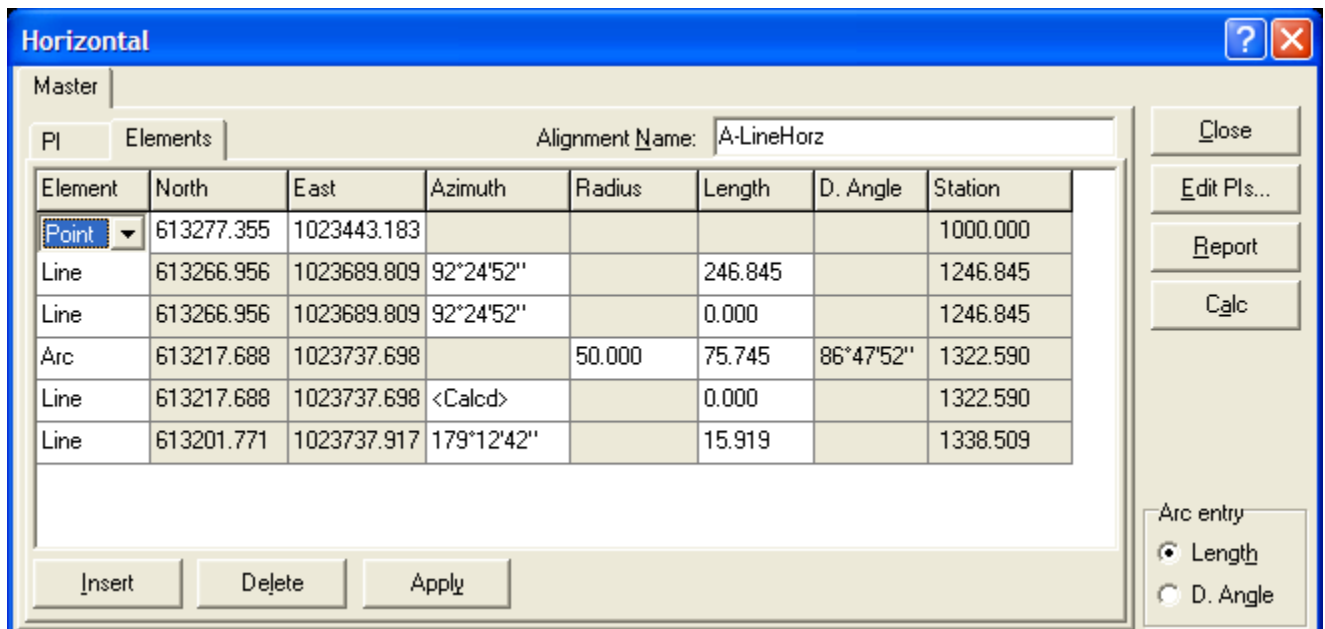
The files are imported and the Road Link window appears.



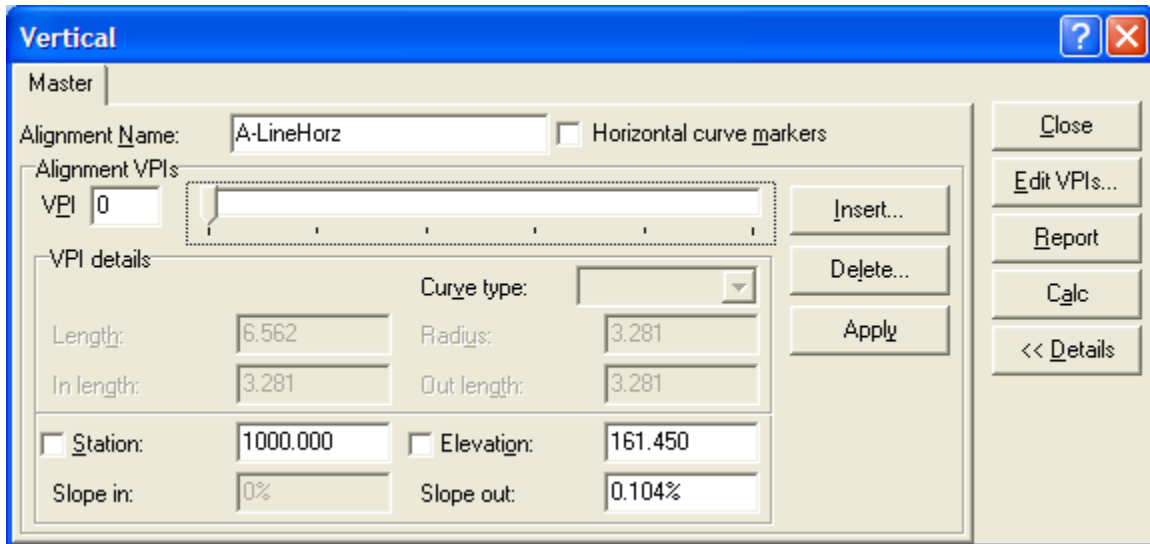
**Verifying Imported Alignments**

1. Select the *Roads > Horizontal* command.

The Horizontal dialog appears with the imported alignment loaded,



2. Verify that the values of the horizontal alignment are the same as exported from InRoads.
3. Click **Close**.
4. Select the *Roads > Vertical* command.  
The Vertical dialog appears with the imported alignment loaded.
5. Click **Details**.



6. Use the *Slider* to select the PIs and verify the values of the vertical alignment are the same as exported from InRoads.
7. Click **Close**.

### Verifying Imported X-Sections

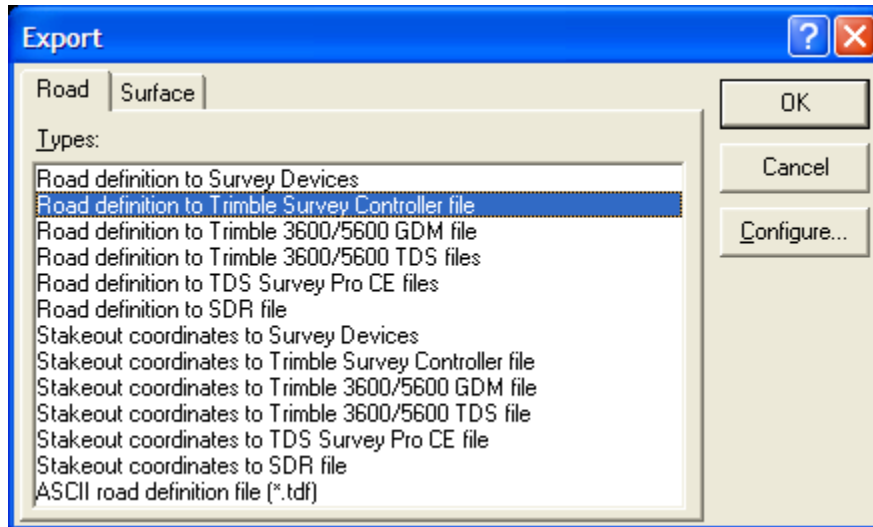
1. Select the *Utilities > Template Editor* command.  
The Edit Template dialog appears with the imported templates loaded.
2. Select a station in the Library list.  
The template links are drawn in the Road Link window. Templates are arranged by station with a right and left for each imported.
3. Double-click on a template link to access the Properties dialog.
4. Verify the templates values are the same as exported from InRoads.
5. Click **OK**.  
The Edit Template dialog closes.

### Creating a Road Definition to Survey Controller File

1. Select the *File > Export* command.
2. Select **Road definition to Trimble Survey Controller** file.
3. Browse to the appropriate folder.

4. Key in a file name.
5. Click **Save**.

The road definition is saved to a DC file format. The file is ready to upload into a **Trimble Controller**.



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