

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 <u>Exporting Geometry to ASCII for Trimble</u> <u>Geomatic Office</u> 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.

Import	2 🔀
Road Surface Background	
<u>T</u> ypes:	OK
Third party toad definition file Boad definition from Trimble Survey Controller	Cancel
Road definition from Trimble Survey Controller file Road definition from SDR33 file ASCII road definition file (*.tdf)	Loniguaian

The File Open Wizard dialog appears.

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- 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.

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- 10. In the <u>Template Options</u> page, uncheck all options.
- 11. Click Next.

The files are imported and the Road Link window appears.

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Verifying Imported Alignments

1. Select the *Roads > Horizontal* command.

The Horizontal dialog appears with the imported alignment loaded,

Horizontal						? 🔀				
1	Master									
1	PI Elements Alignment Name: A-LineHorz				<u>C</u> lose					
	Element	North	East	Azimuth	Radius	Length	D. Angle	Station		<u>E</u> dit PIs
	Point 💌	613277.355	1023443.183					1000.000		Beport
	Line	613266.956	1023689.809	92*24'52''		246.845		1246.845		
	Line	613266.956	1023689.809	92*24'52''		0.000		1246.845		<u> </u>
	Arc	613217.688	1023737.698		50.000	75.745	86°47'52''	1322.590		
	Line	613217.688	1023737.698	<calcd></calcd>		0.000		1322.590		
	Line	613201.771	1023737.917	179°12'42''		15.919		1338.509		
								Arc entry		
	Insert Delete Apply						C D. Angle			

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- 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 <u>Vertical</u> dialog appears with the imported alignment loaded.

5. Click Details.

Vertical					? 🗙	
Master						
Alignment <u>N</u> ame:	A-LineHorz	A-LineHorz Horizontal curve markers				
Alignment VPIs					<u>E</u> dit VPIs	
	Y	ı ı			<u>R</u> eport	
VPI details		Cur <u>v</u> e type:	_	Delete	Calc	
Lengt <u>h</u> :	6.562	Radi <u>u</u> s:	3.281	Apply	<< Details	
In length:	3.281	Out length:	3.281			
□ <u>S</u> tation:	1000.000	Elevati <u>o</u> n:	161.450			
Slope in:	0%	Slope out:	0.104%			

- 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 <u>Road Link</u> 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.

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- 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**.

Export	? 🗙
Road Surface	ОК
Types:	Cancel
Road definition to Survey Devices Boad definition to Trimble Survey Controller file	
Road definition to Trimble 3600/5600 GDM file Road definition to Trimble 3600/5600 TDS files Road definition to TDS Survey Pro CE files Road definition to SDR file Stakeout coordinates to Survey Devices Stakeout coordinates to Trimble Survey Controller file Stakeout coordinates to Trimble 3600/5600 GDM file Stakeout coordinates to Trimble 3600/5600 TDS file Stakeout coordinates to TDS Survey Pro CE file Stakeout coordinates to SDR file ASCII road definition file (*.tdf)	<u>C</u> onfigure

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