

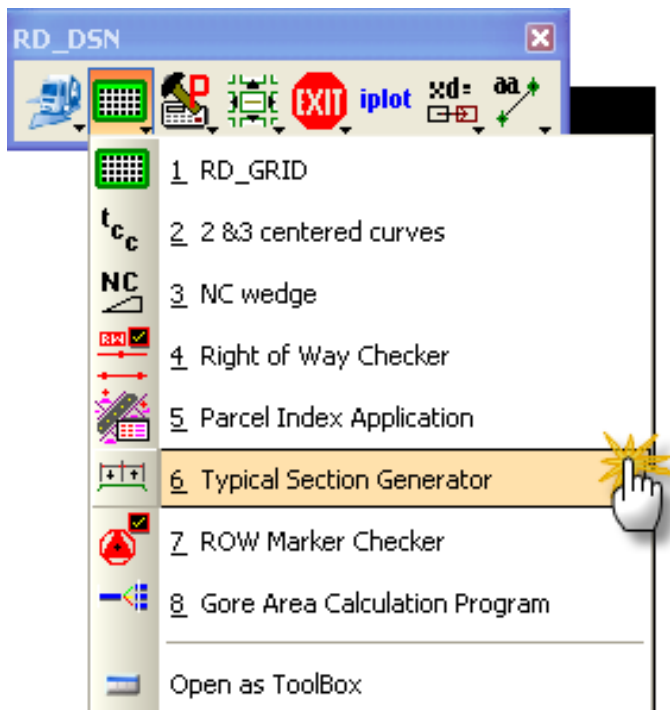
NCTS GENERATOR

A. Introduction

Developed in 2011 by Ross McDowell – Cadd IT to replace the older typical section generator that will no longer be supported.

The NCTS Generator is a beta version close to completion with minor enhancements to the program still left to be included.

B. Location

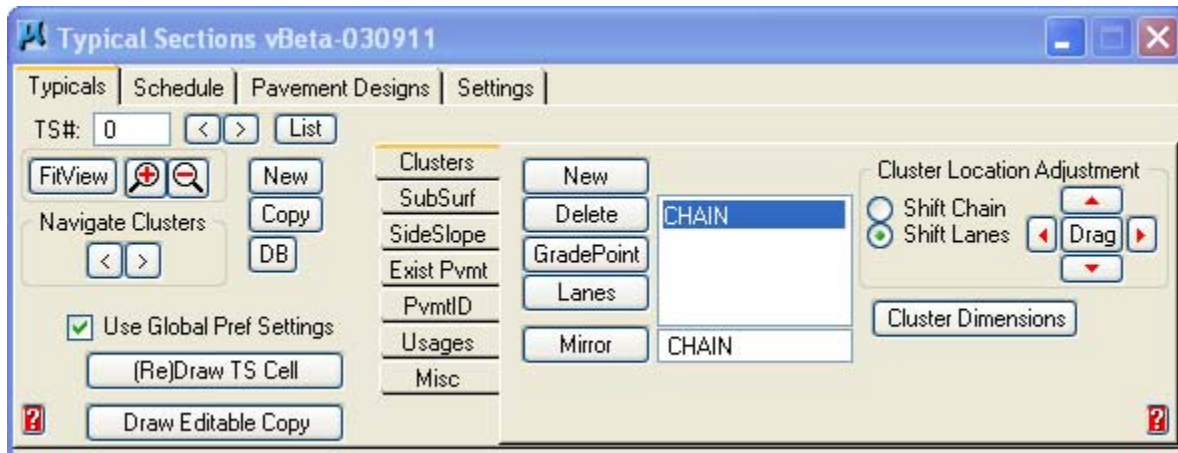


Notes

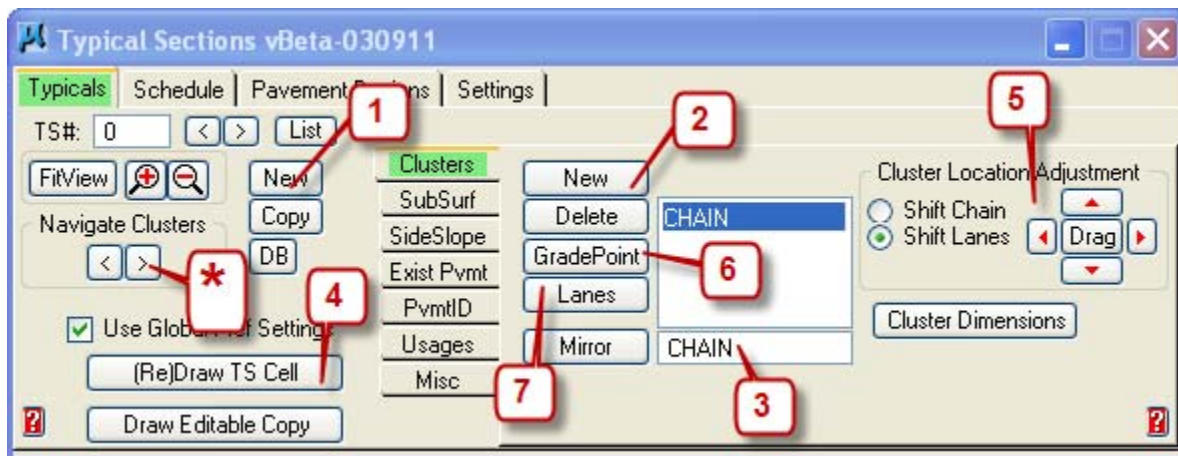


Do not delete this cell It is automatically placed in your Microstation when the typical section generator program is first used.

C. Typicalals

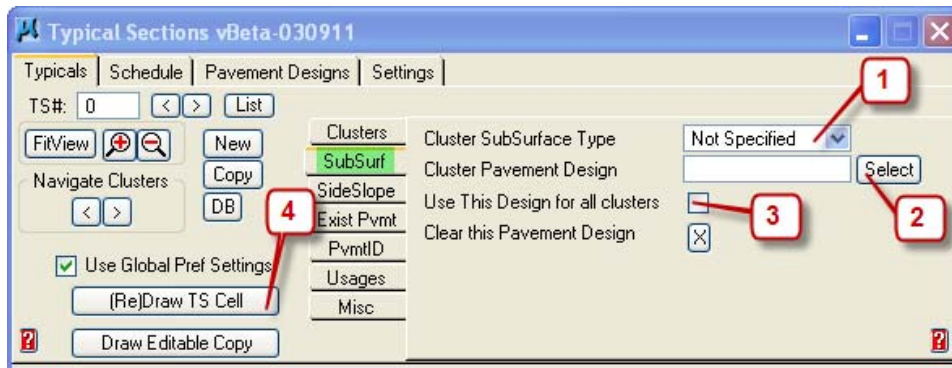


C1. Cluster Tab



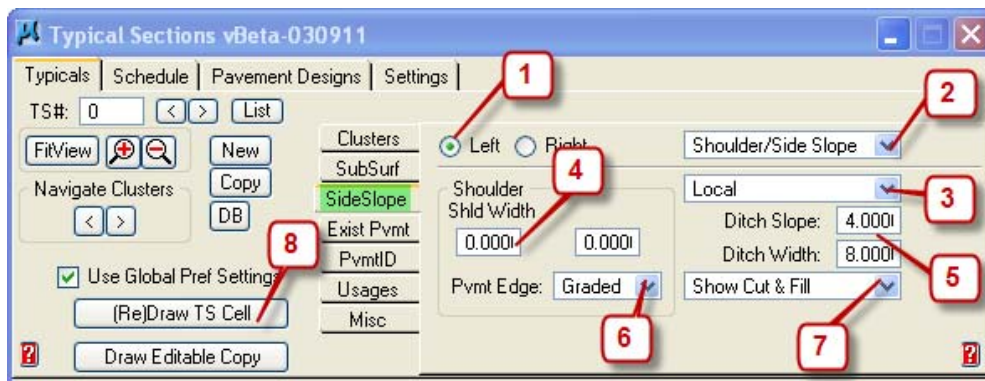
1. Select the new button
2. Select Cluster Tab then Select New
3. Name the cluster Alignment
4. Select (Re)Draw the typical section then tag within the file to place typical
5. Adjusts your Cluster Location (* use to switch between clusters)
6. Sets the Grade point by selecting location on lane
7. Set the Lane configuration (note: Add lane by selecting RT or LT side of lane)

C2. SubSurf Tab



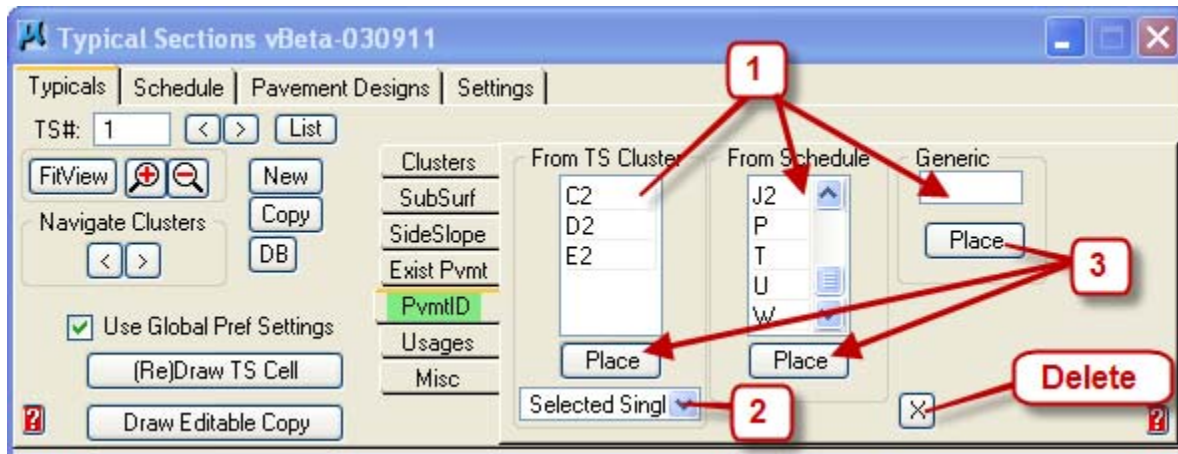
1. Select the Sub Surf Tab and then select type new or widening/wedge
2. Select your pavement design (See [Section E](#) on how to create a pavement design)
3. Select to apply to both clusters
4. (Re)Draw your Typical Section

C3. Side Slope Tab



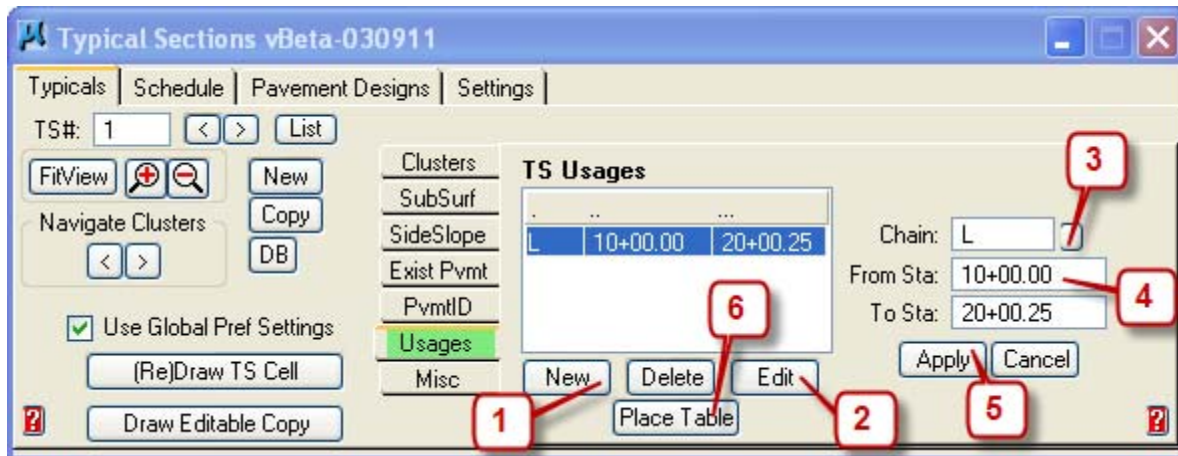
1. Select Side Slope tab then Select LT or RT side
2. Set the type of Side Slope
3. Set the facility type
4. Set the shoulder dimensions
5. Set the ditch dimensions
6. Set the pavement edge type
7. Select type of side slope; cut, fill, or both
8. (Re)Draw your Typical Section

C4. PvmtID Tab



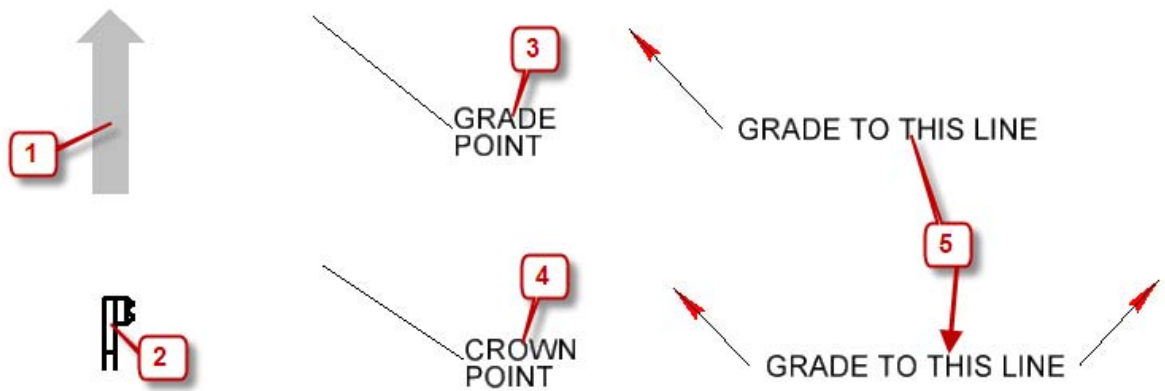
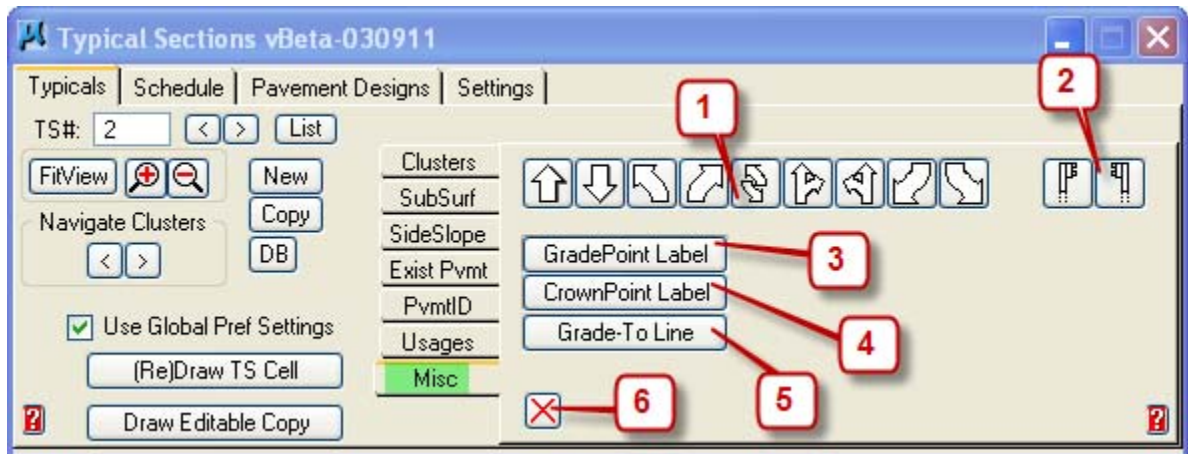
1. Select the Pavement ID tab then select layer
2. Select how to display layer(s) bubbles
3. Select layer(s) to be placed

C5. Usages Tab



1. Select the Usage Tab then select New
2. Select Edit
3. Edit or select the Chain from cogo
4. Edit the station range
5. Select Apply to apply edited changes
6. Place the table in the Microstation dgn file

C6. Misc Tab



1. Select the Misc tab then place the type of lane arrow
2. Place the guardrail symbol
3. Place the grade point label
4. Place the crown point label
5. Place the Grade to this Line label
6. Use to delete any Label

D. Creating a Pavement Schedule

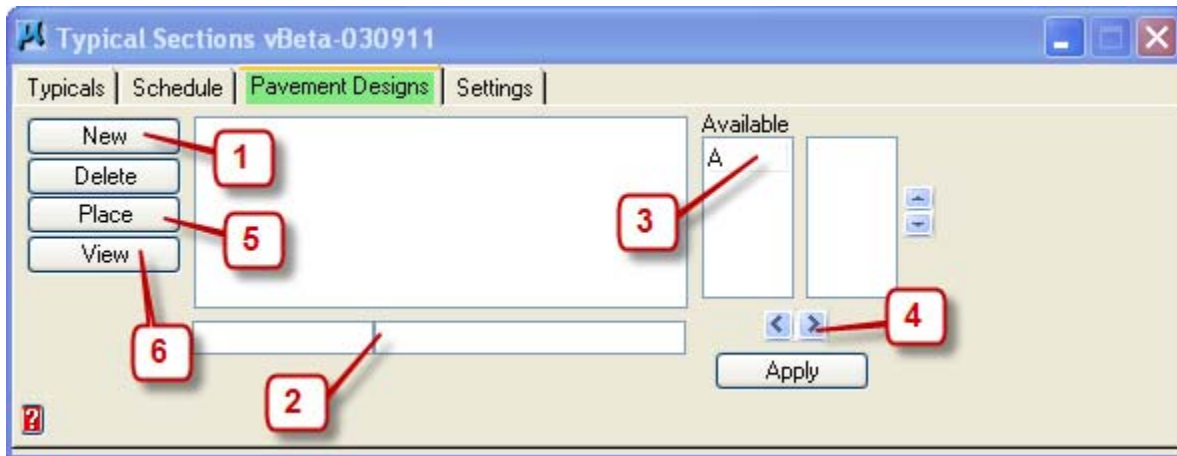


1. Select the new button
2. Select pavement type
3. Select the pavement type designation number
4. Select the pavement depth
5. Make any text edits for example S9.5X to S9.5C
6. Select Apply to add to dialog
7. Select to draw in Microstation File

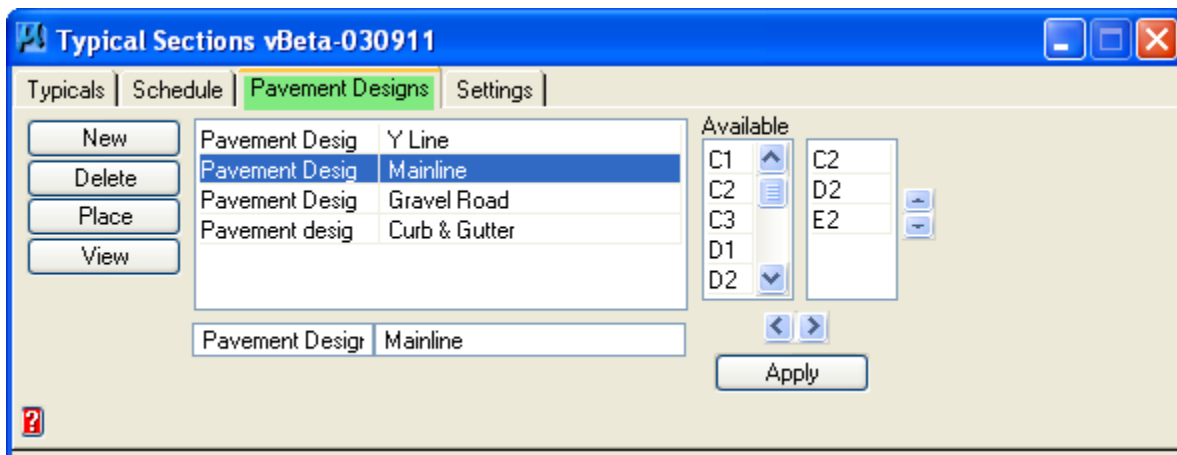


C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
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E. Creating a Pavement Design



1. Select the new button
2. Name your typical in description field
3. Select the pavement layer(s) (See [Section D](#) on how to create a pavement schedule)
4. Add the pavement layer(s)
5. Place the Pavement Design Cell
6. View - zooms to the pavement design cell



NCTS PAVEMENT DESIGN CELL
Pavement Design 2
Mainline
C2 D2 E2

F. Settings

Typical Sections vBeta-030911

Typicals | Schedule | Pavement Designs | **Settings**

Editing Global Preferences

Sync Views To Current TS
 Sync View to Current Cluster
CrossSlope Labels
 Label Pavement CrossSlopes
Cross Slope Decimals

GradePoint Symbol Scale:
Sideslope Cell Scale:
Cluster Indicator Scale:
Cluster Indicator Height:
Pvmnt Layers, Vertical Scale:

Lane Drag Increments
Horizontal
Vertical

Font Settings | Dimension Settings | Set Defaults | Save Preferences