

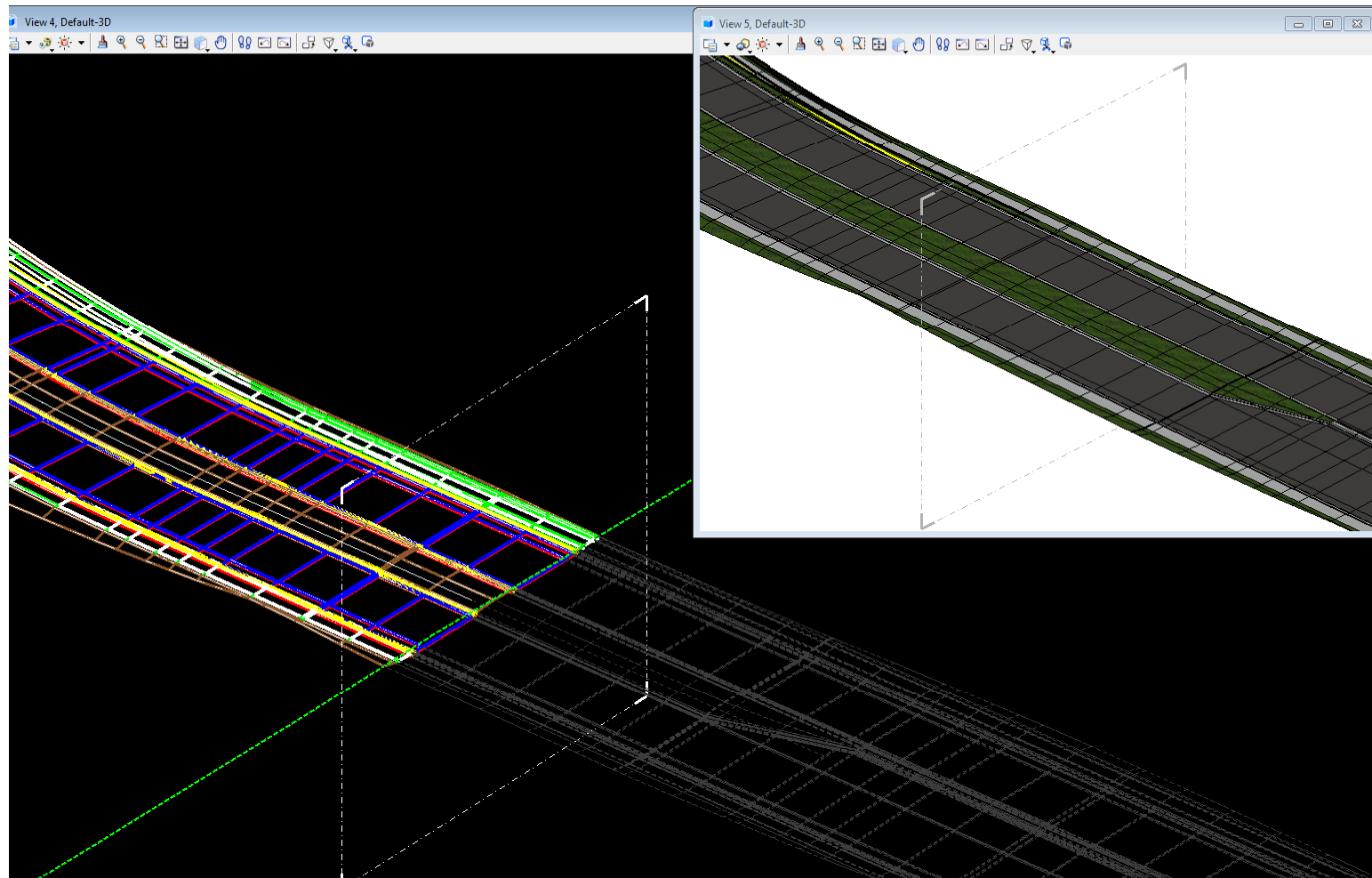
From Civil Model to Cross Section Sheets in FDOTSS3



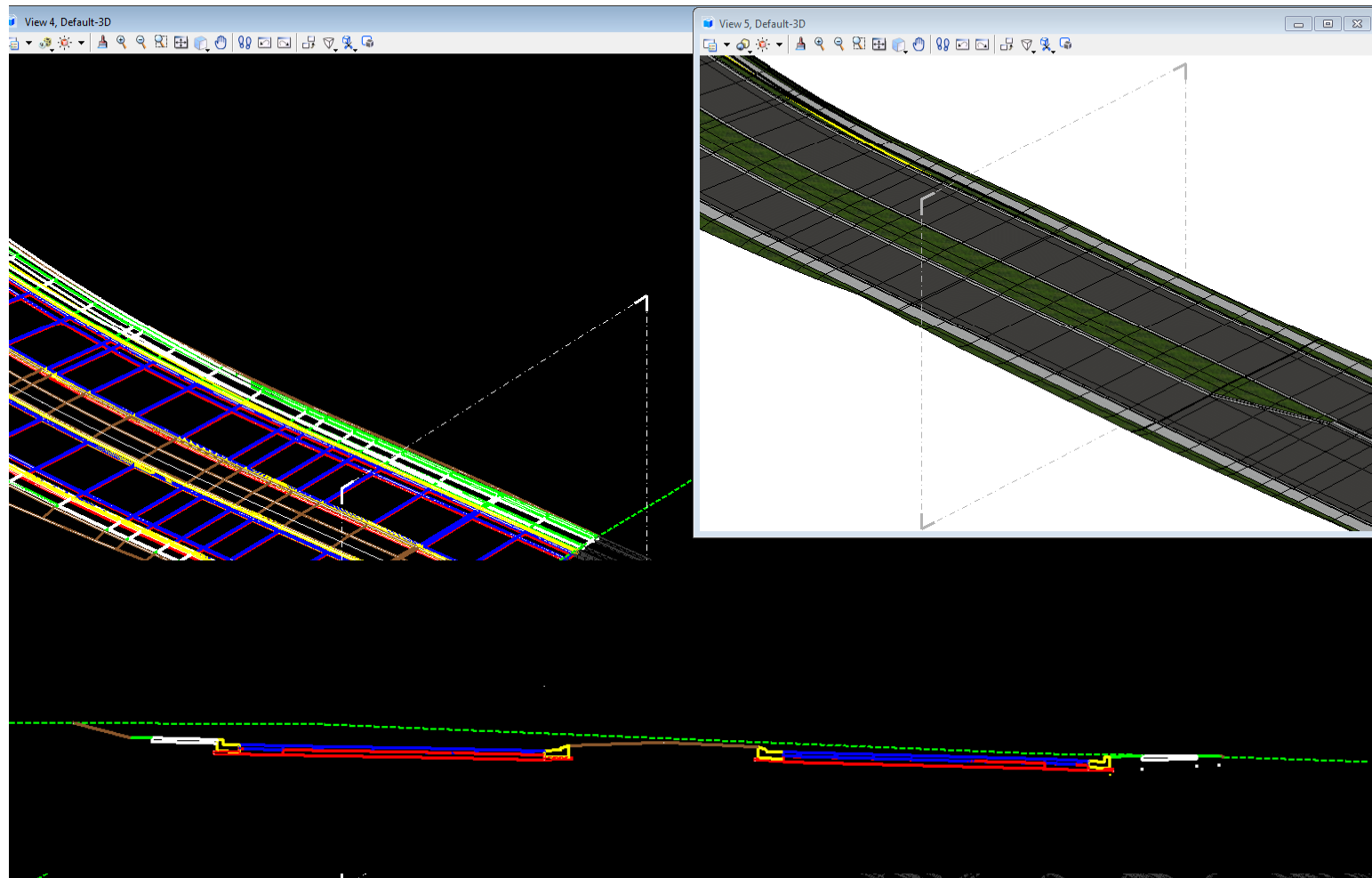
Vern Danforth

Wednesday, June 11, 2014 2pm

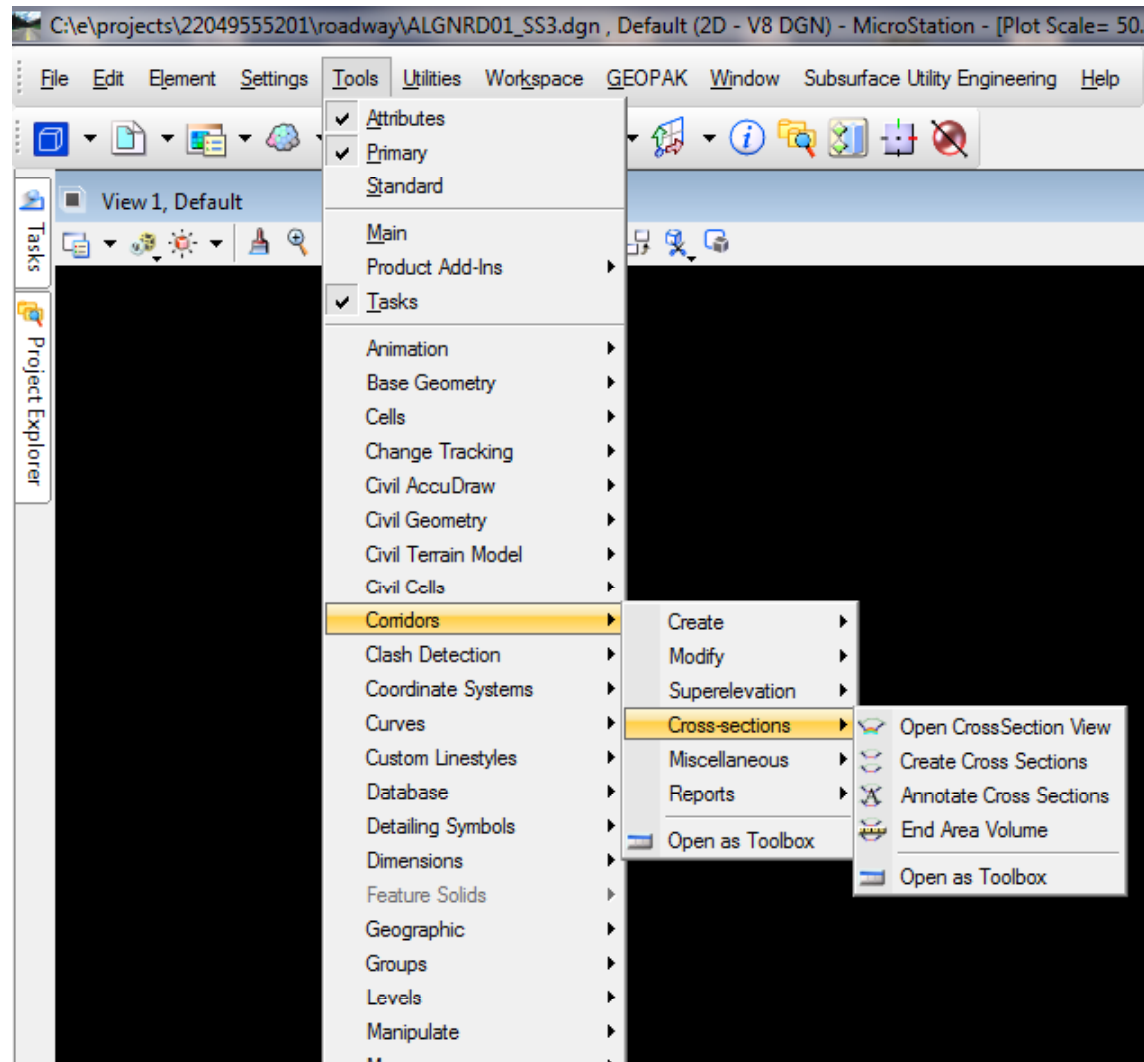
Civil Model to Cross Section



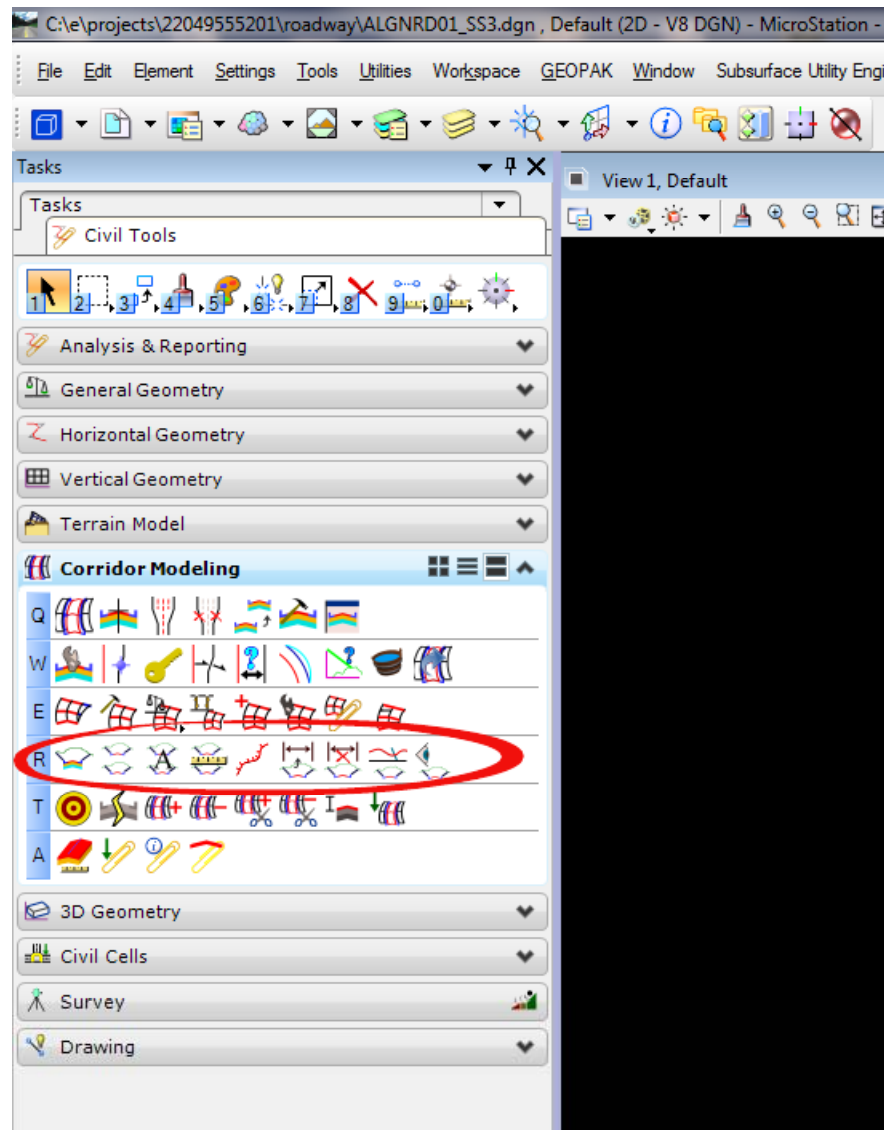
Civil Model to Cross Section



Tools Corridor > Cross-sections



Civil Tools – Corridor Modeling



Cross Section Tools

◆ Cross Section View

- Ex Terrain and features will display with 3D Model
- Dimension Cross Section Temporary
- Cross Section by Data point

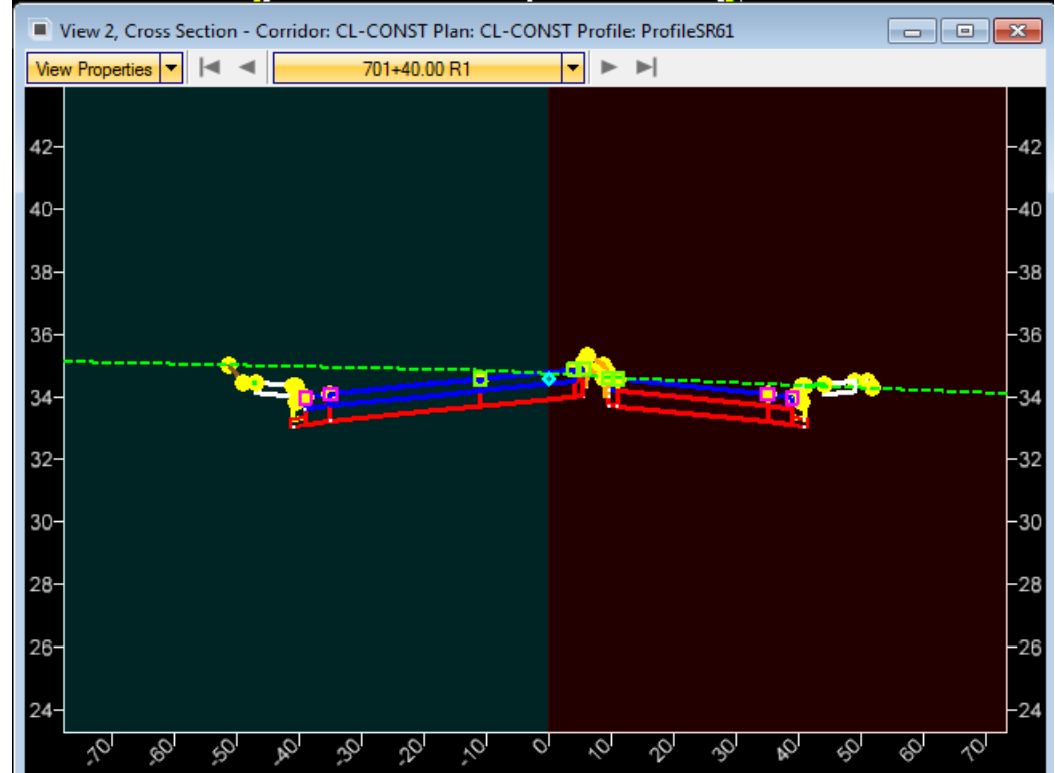
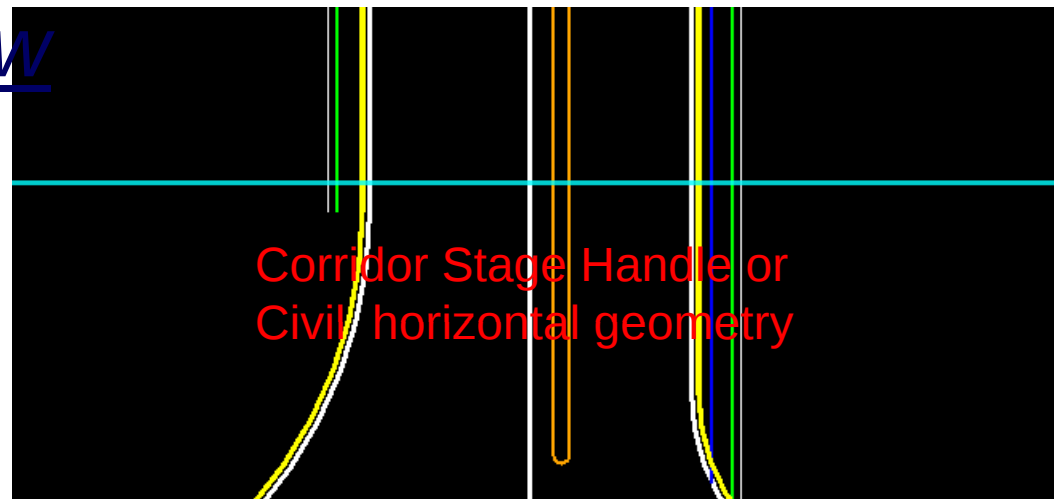
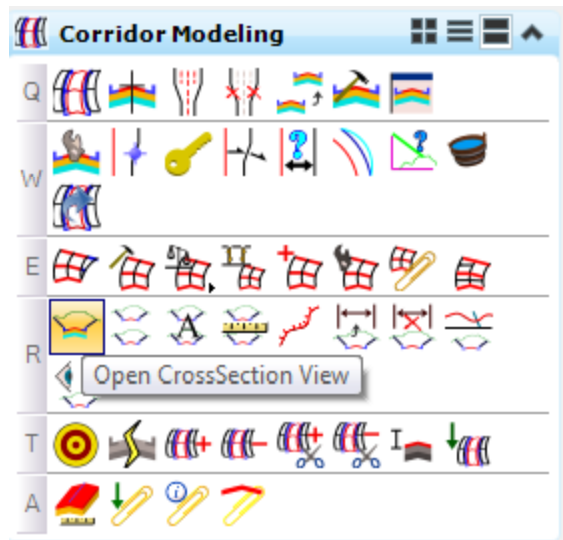
◆ Create Cross Sections

- Pattern Lines or Station Range
- Stacked or by Sheets

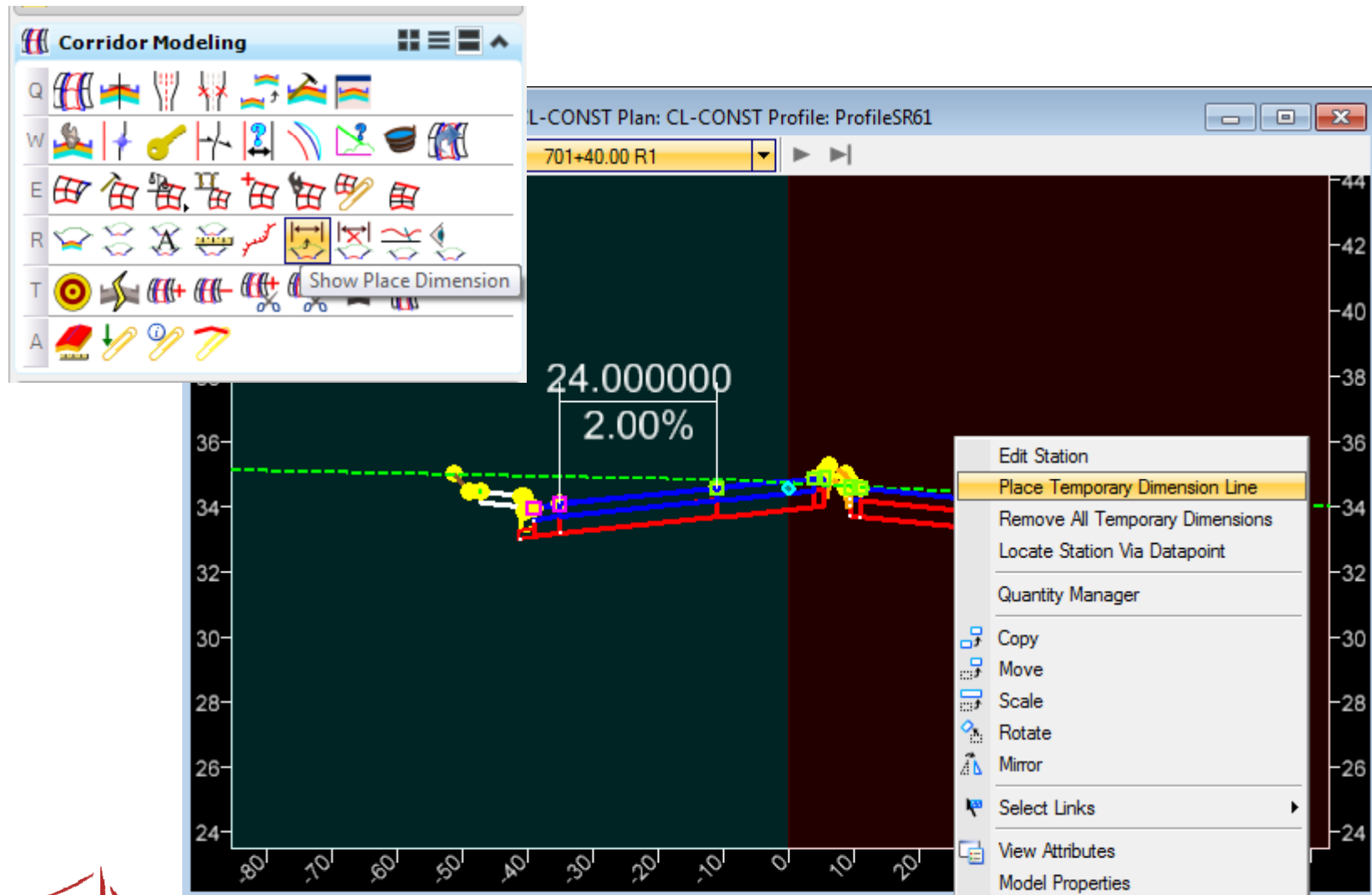
◆ Annotate Cross Sections

- Elevation Offset
- Slope
- End Area Volume
- Utilities - Bore Hole Navigator
- Draw Ancillary Features

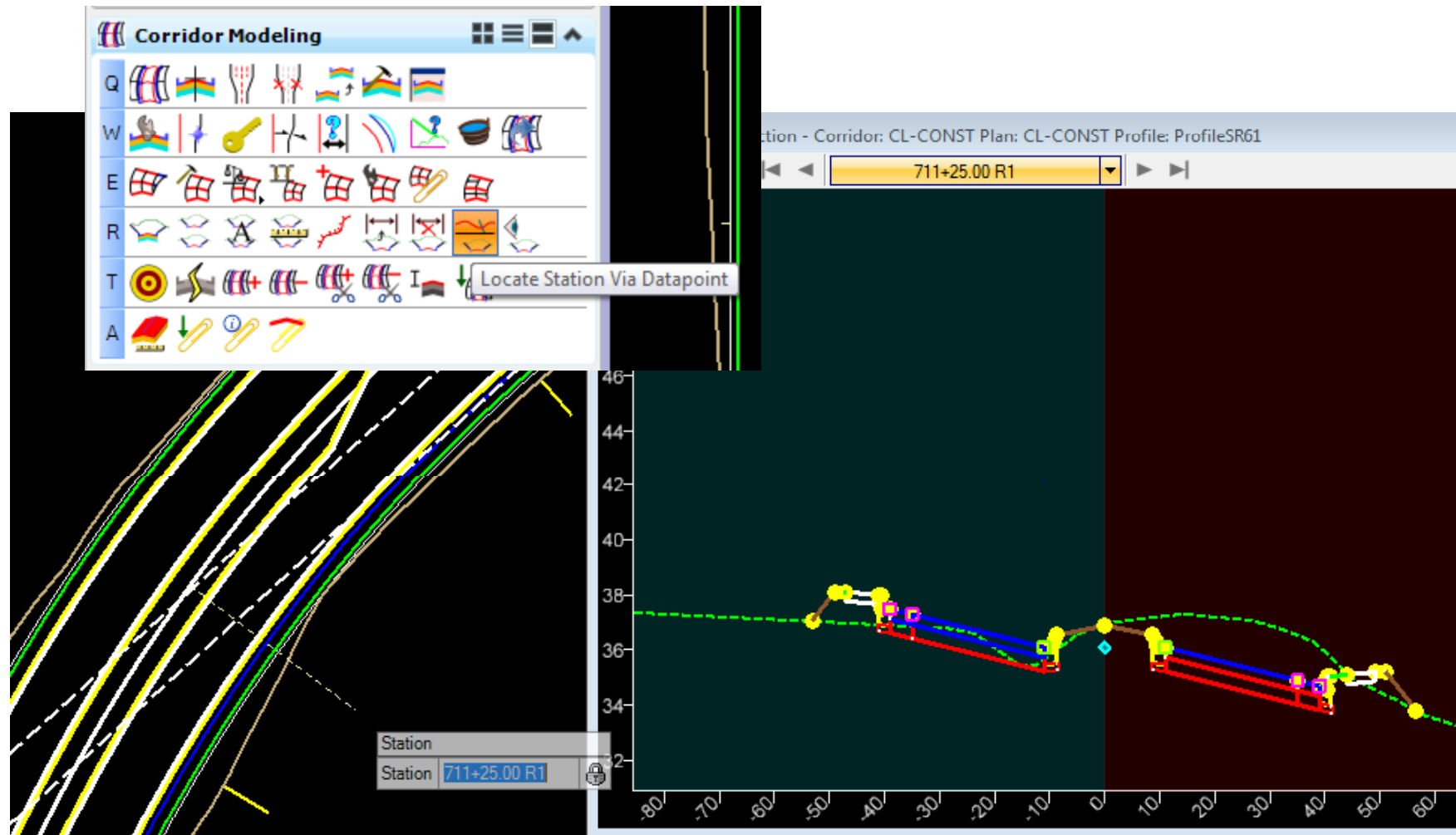
Cross Section View



Cross Section View

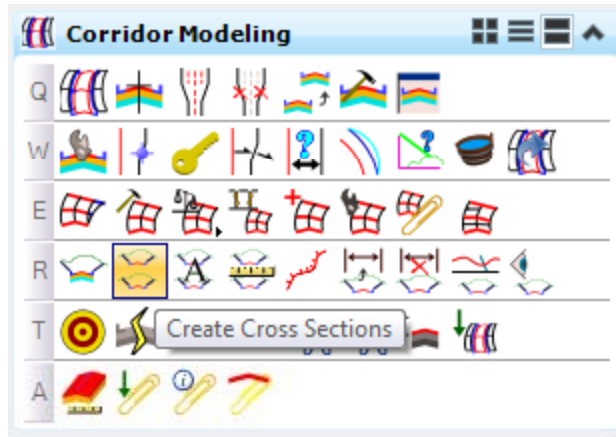


Cross Section View

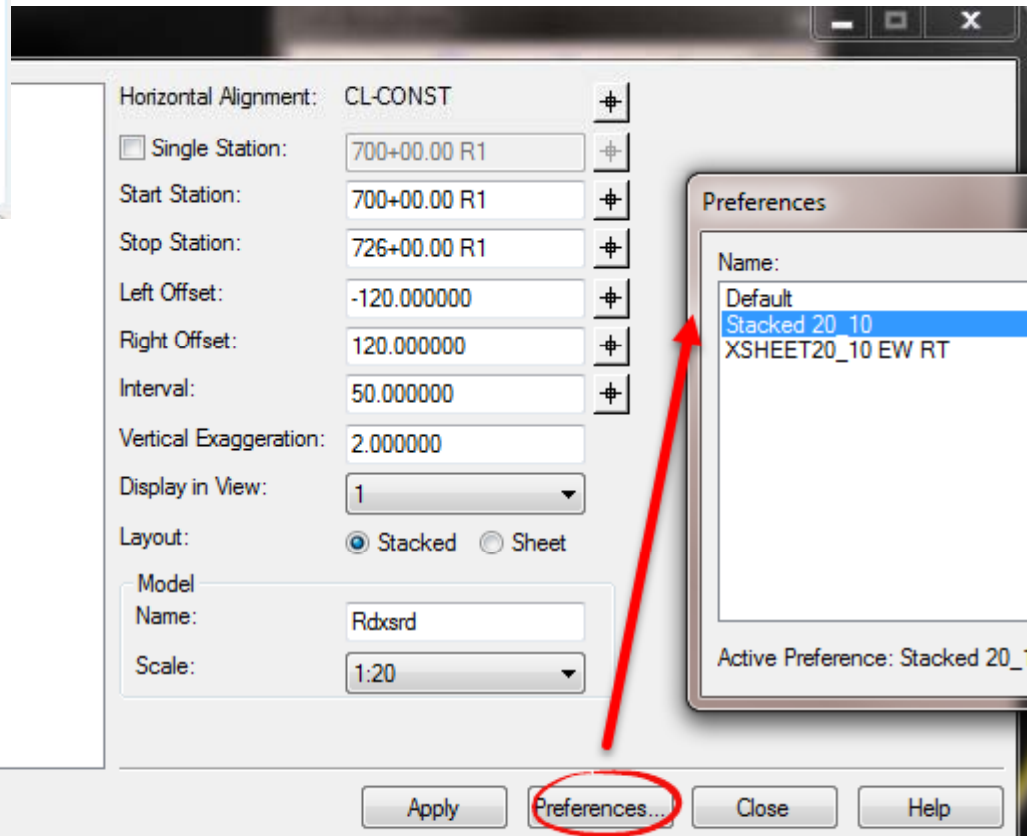


Create Cross Sections

Stacked

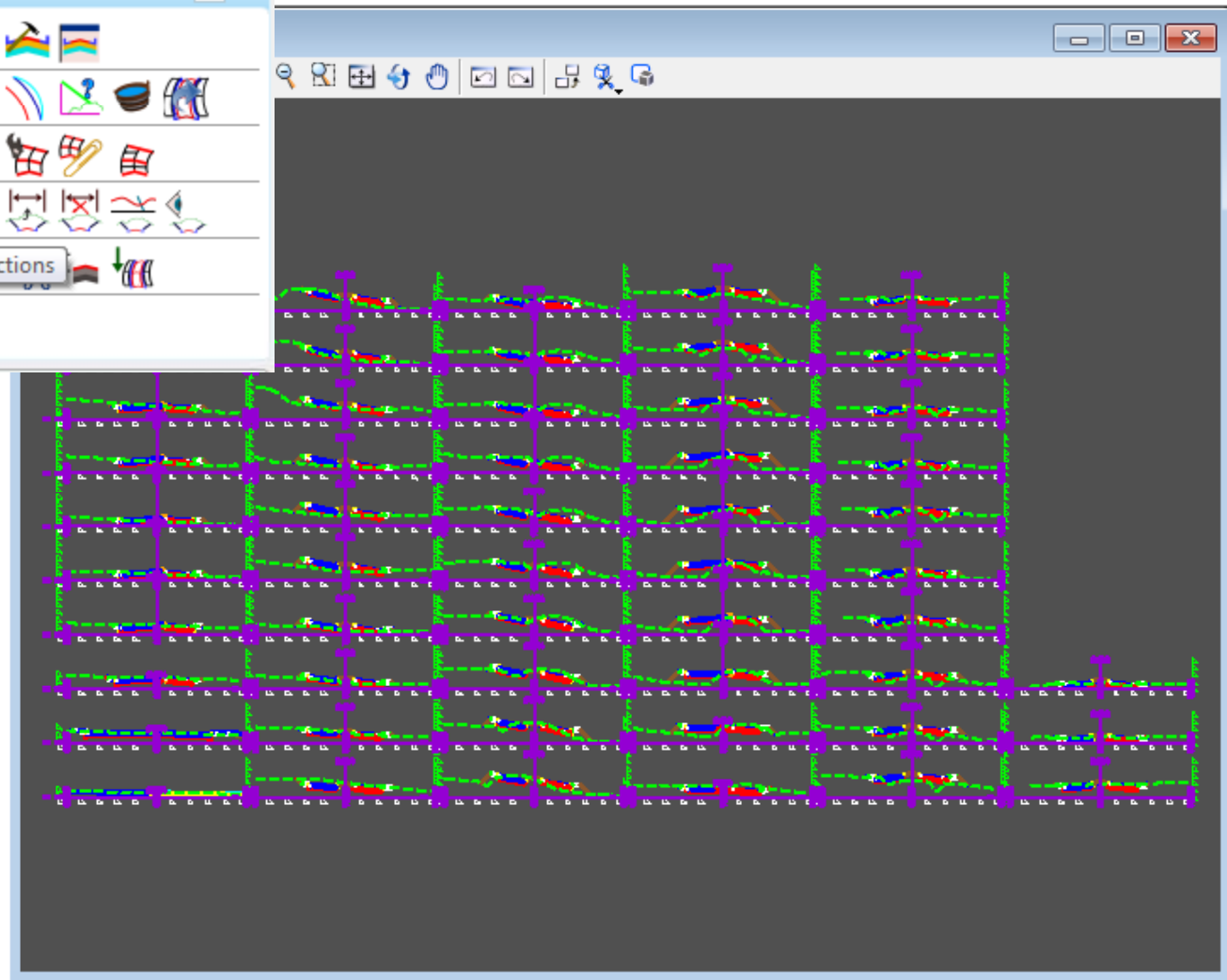
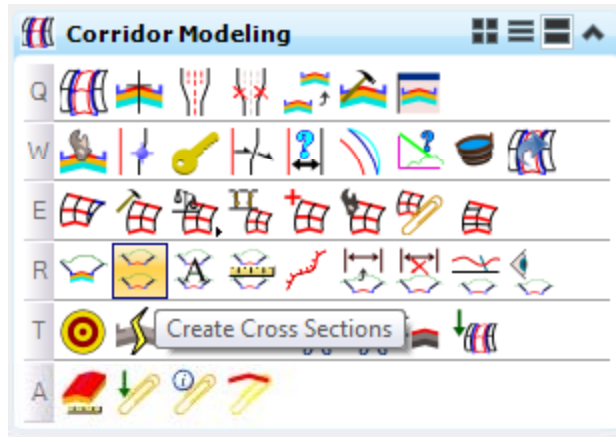


Controls
Axes
Sheet



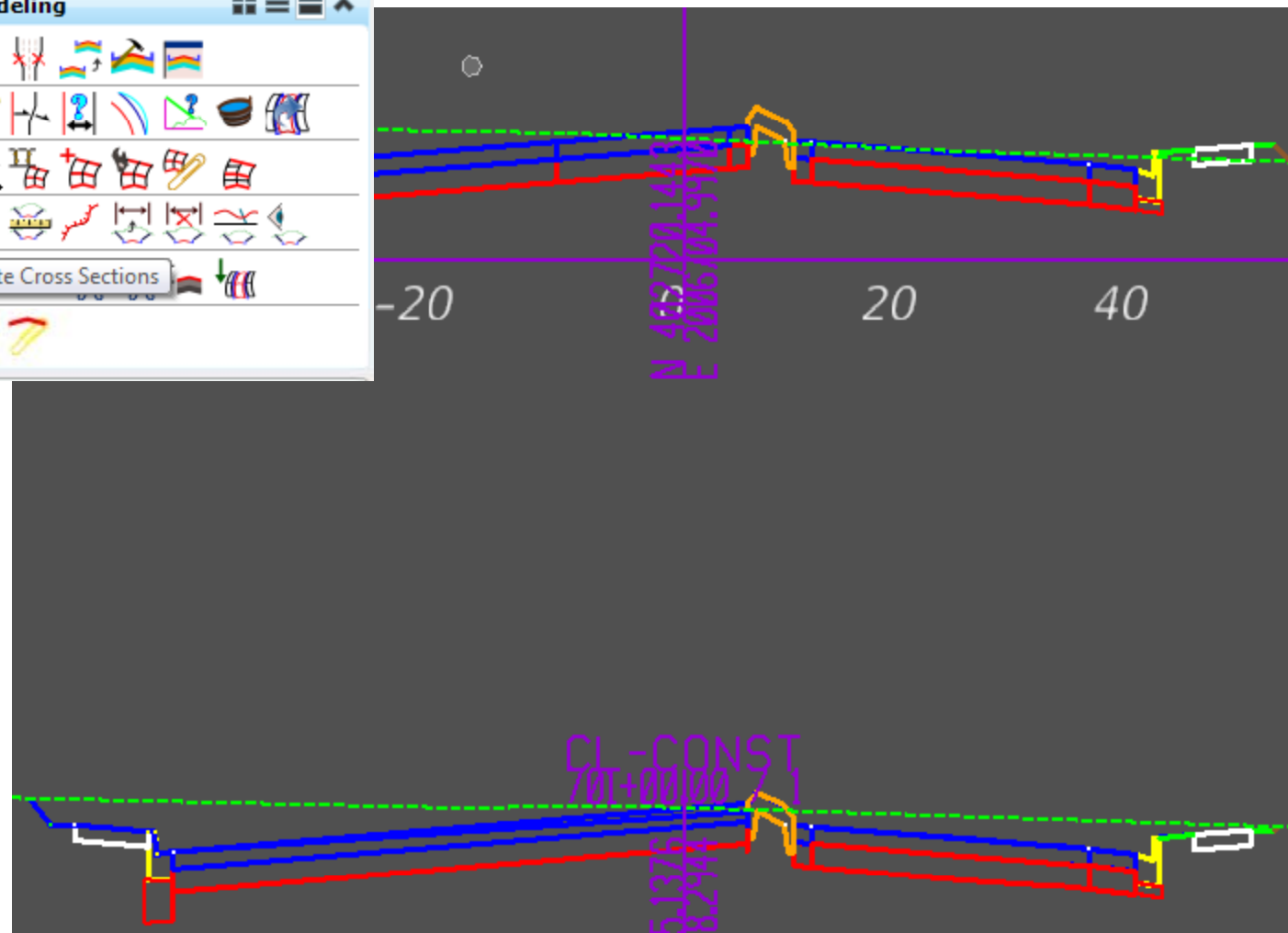
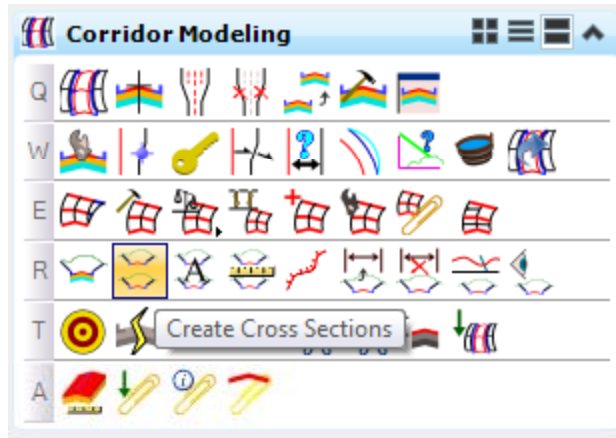
Create Cross Sections

Stacked



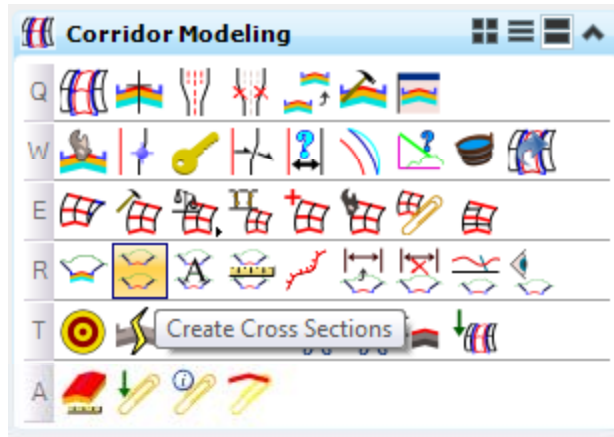
Create Cross Sections

Stacked



Create Cross Sections

Sheets



Horizontal Alignment: CL-CONST

☐ Single Station: 700+00.00 R1

Start Station: 700+00.00 R1

Stop Station: 726+00.00 R1

Left Offset: -100.000000

Right Offset: 100.000000

Interval: 50.000000

Vertical Exaggeration: 2.000000

Display in View: 1

Layout: ☐ Stacked ☒ Sheet

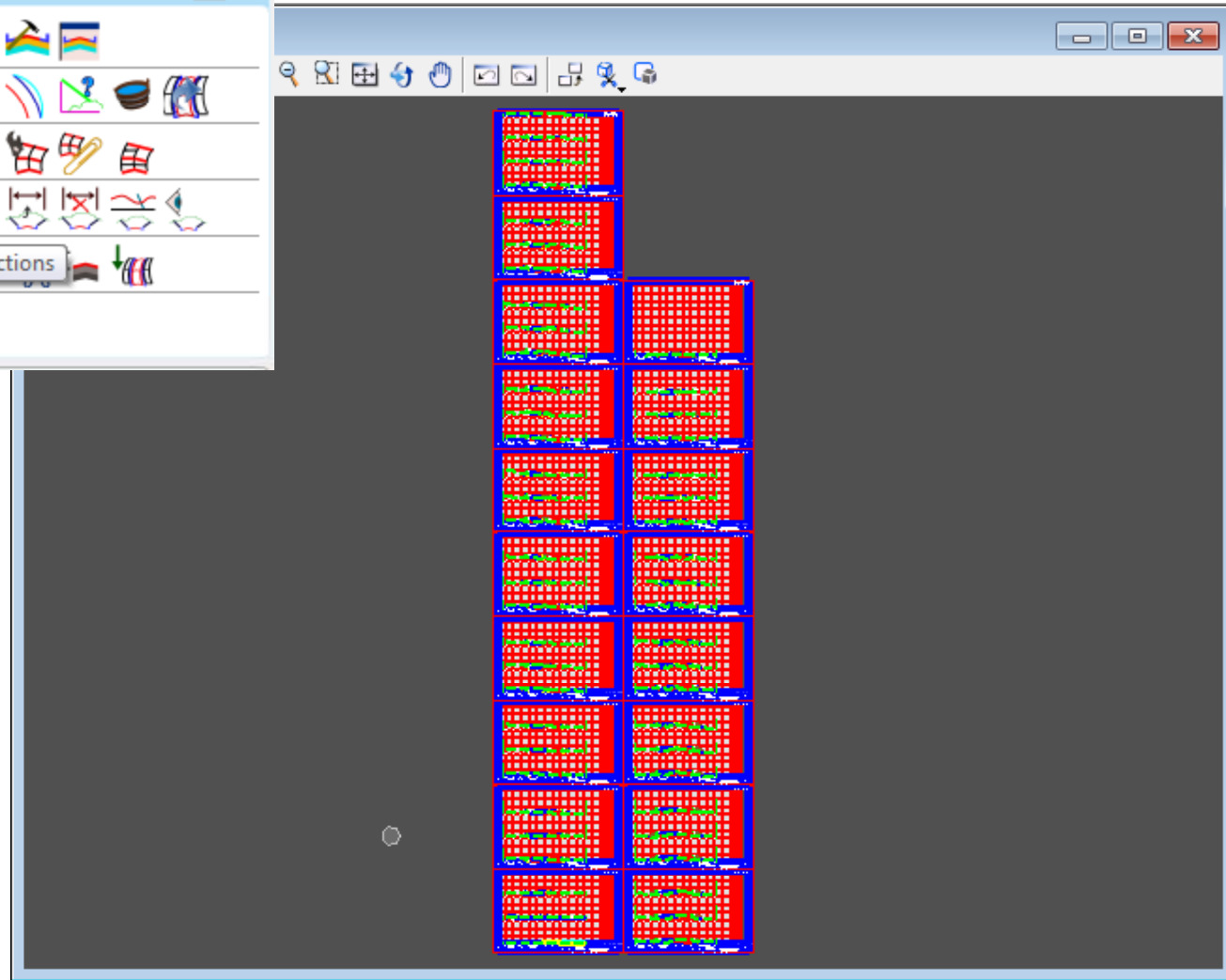
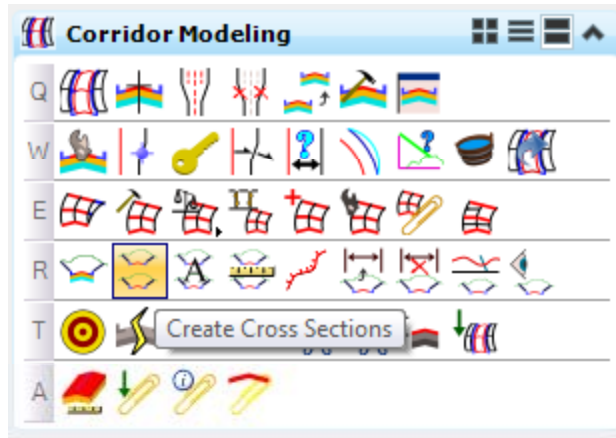
Model Name: Rdxsrd_shg

Scale: 1:20

Apply Preferences... Close Help

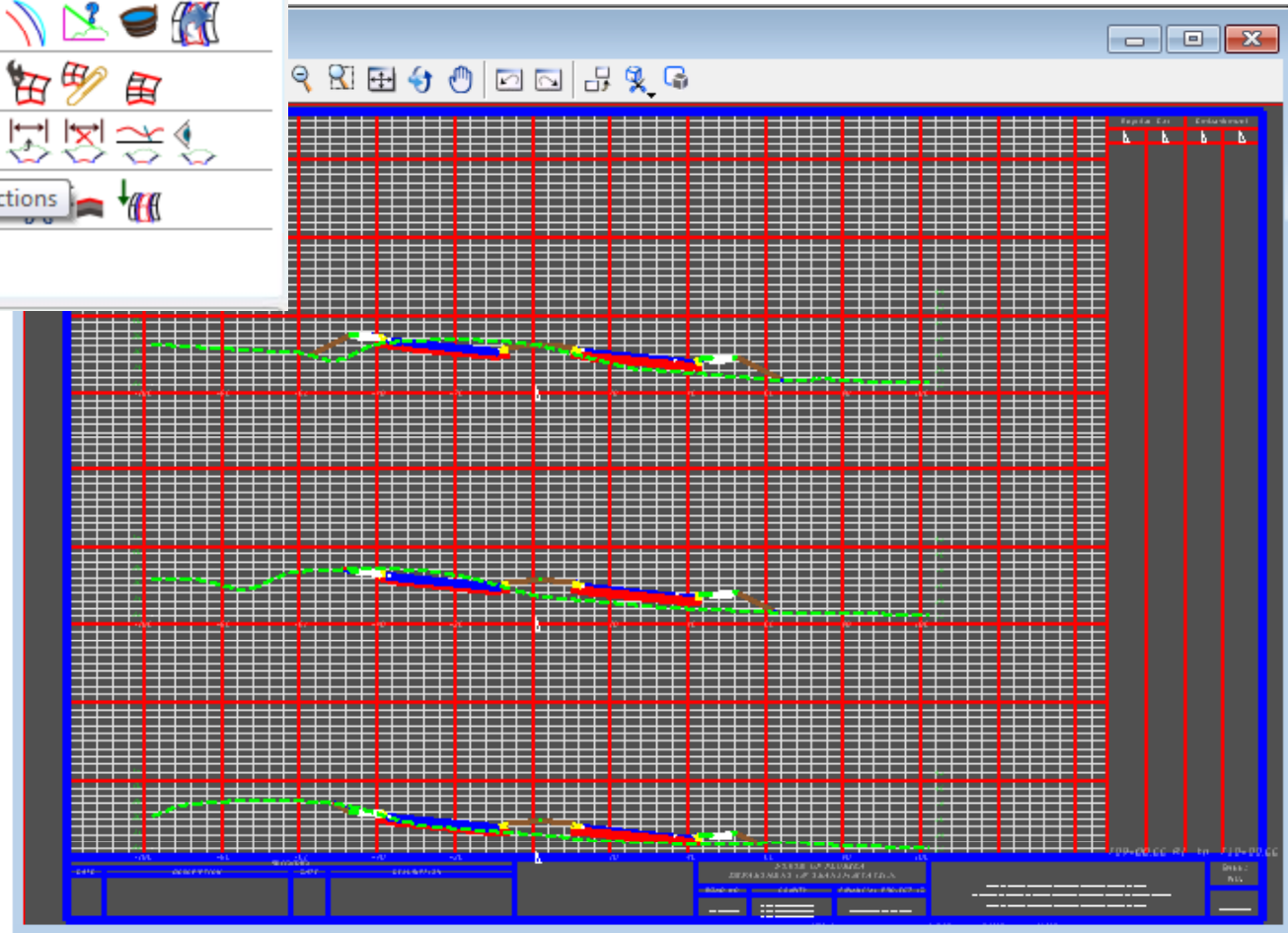
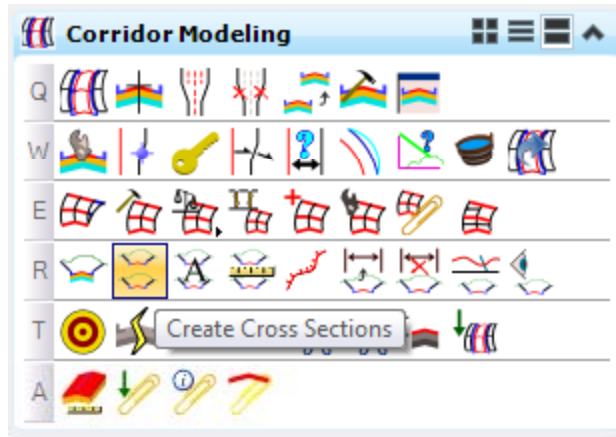
Create Cross Sections

Sheets

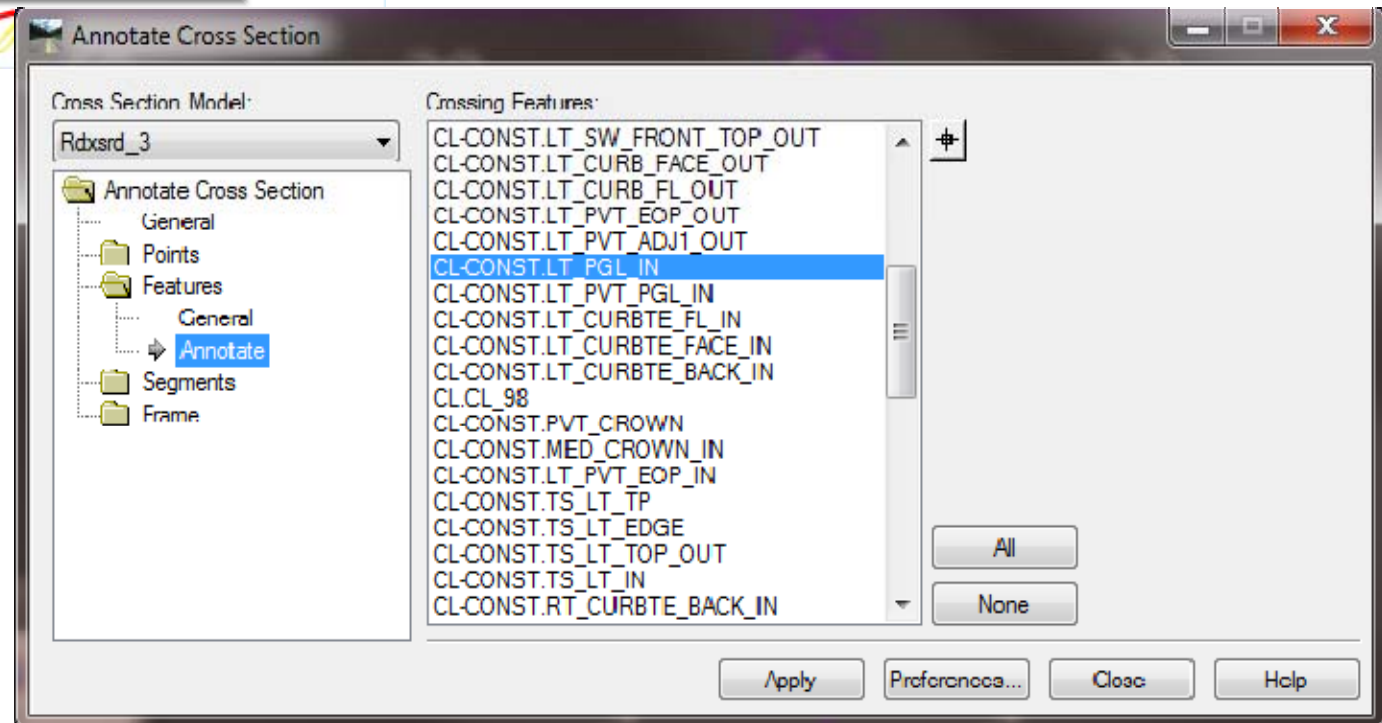
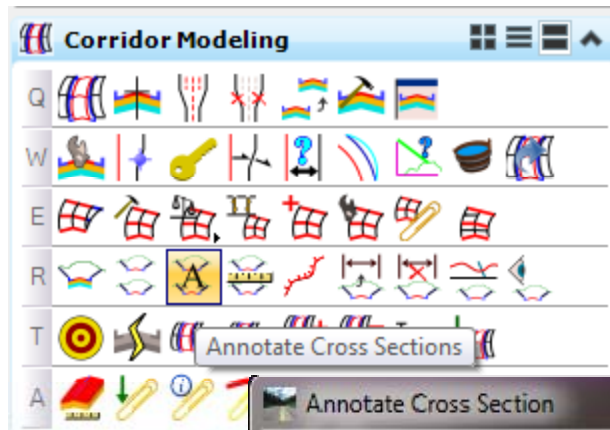


Create Cross Sections

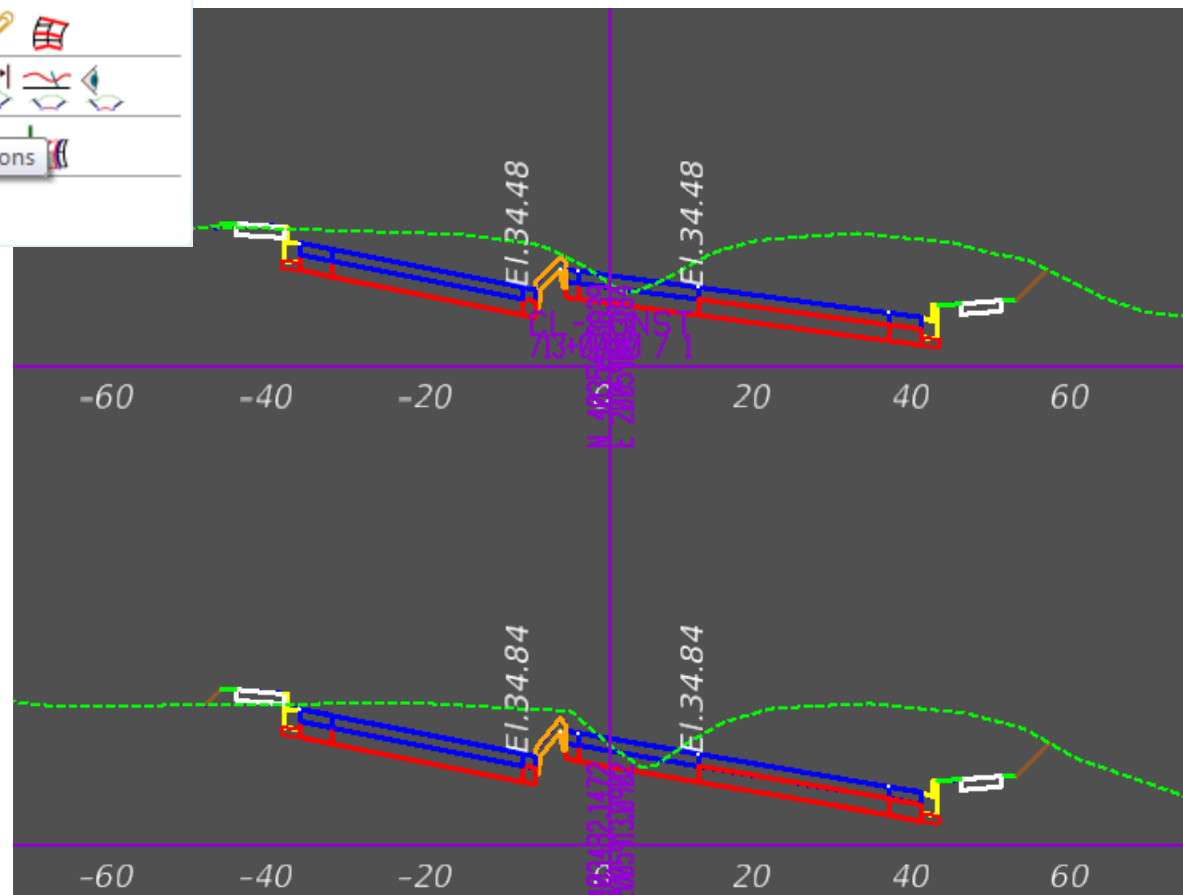
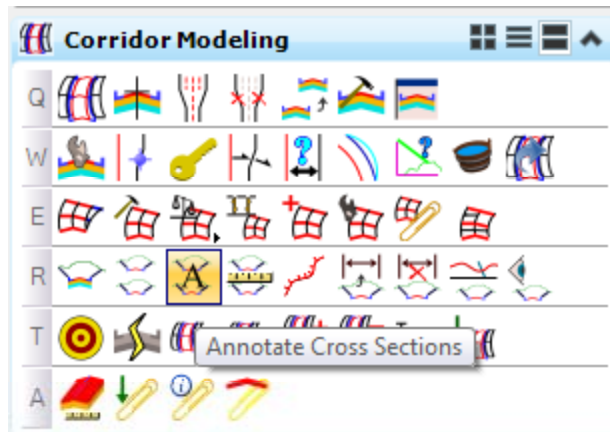
Sheets



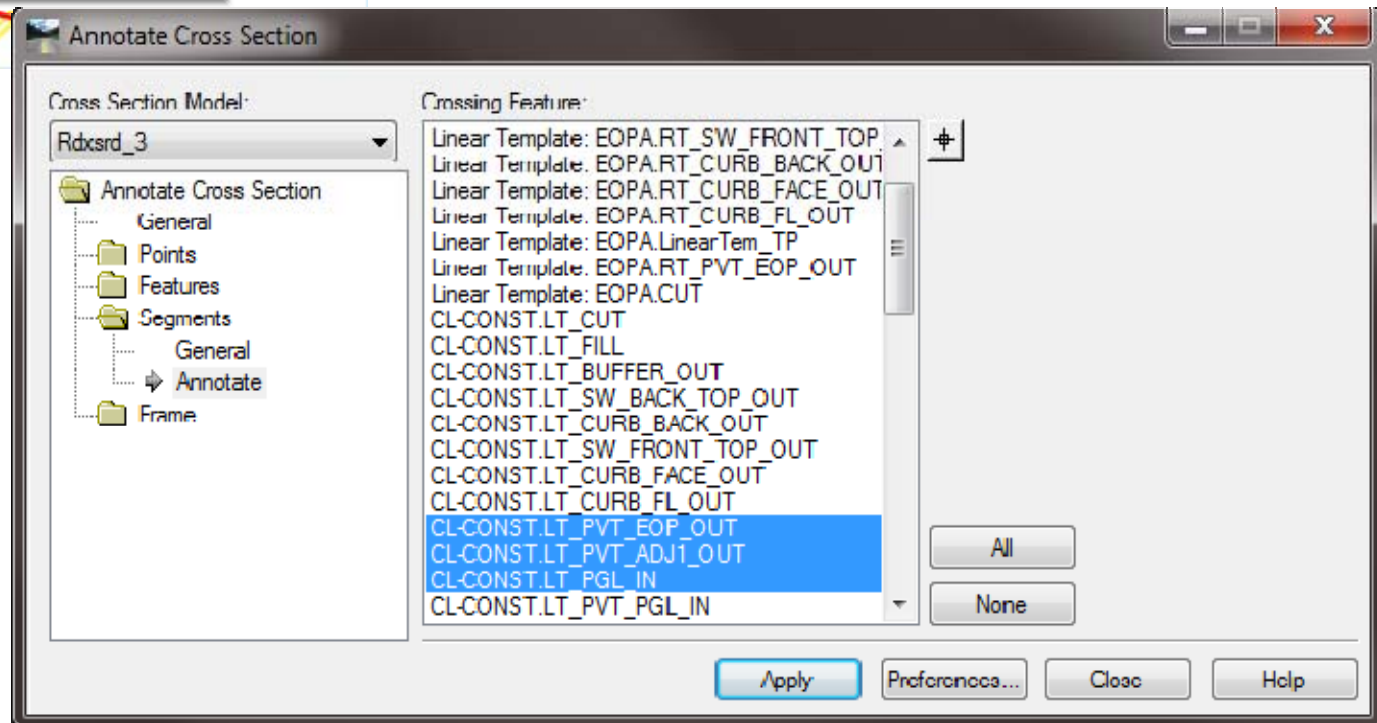
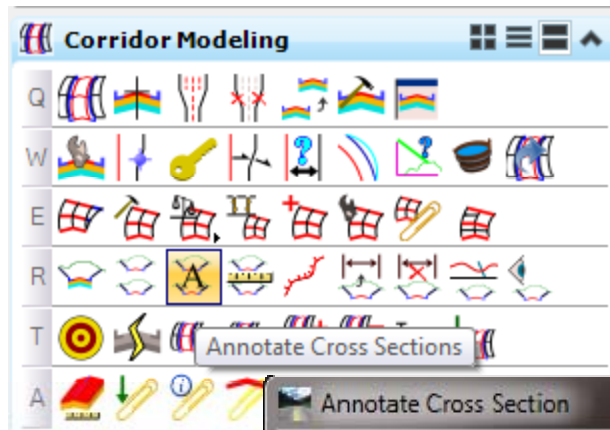
Annotate Cross Sections



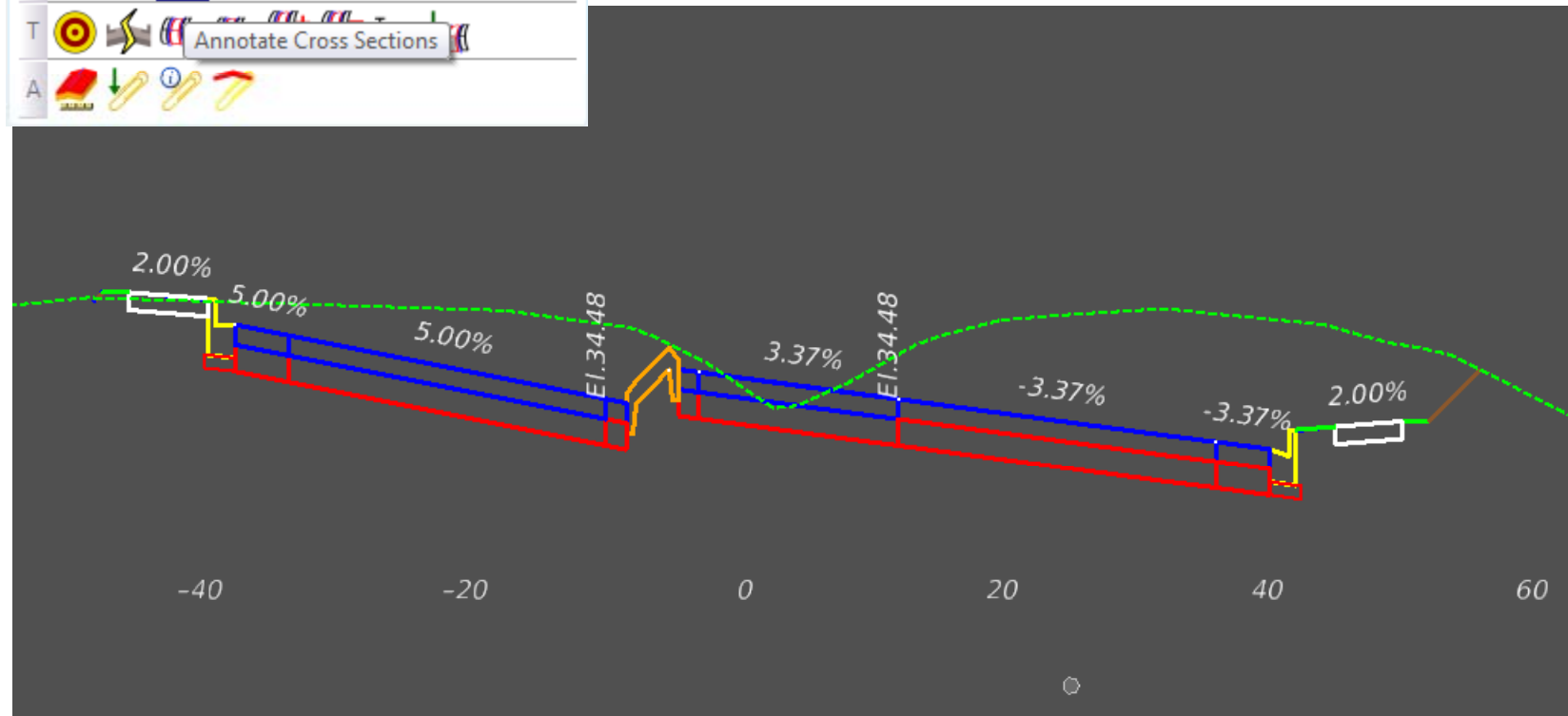
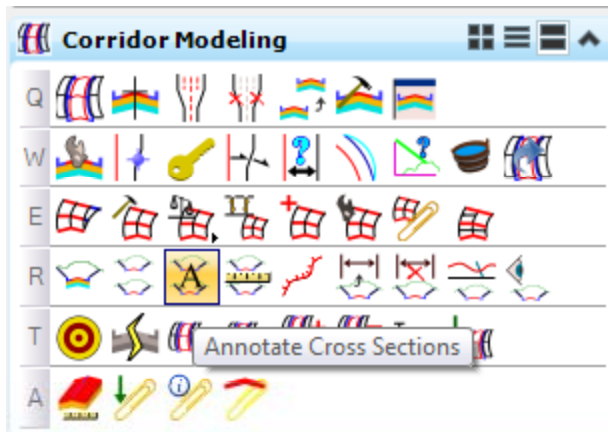
Annotate Cross Sections



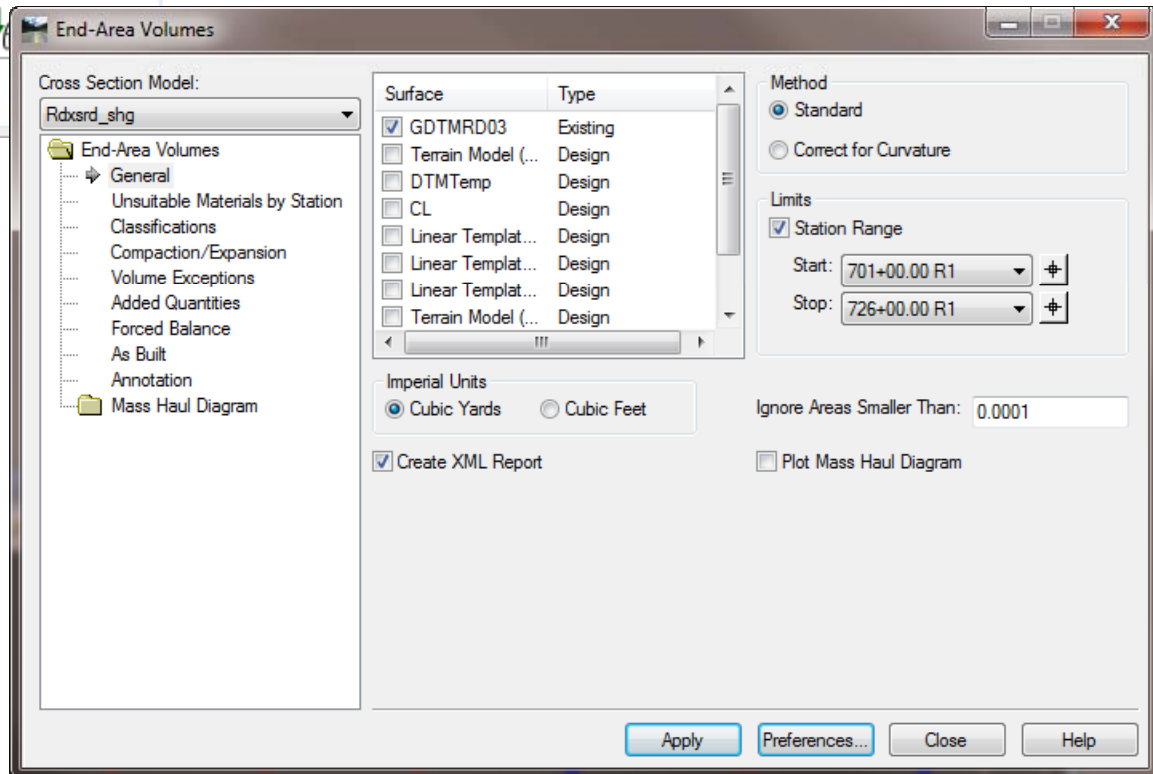
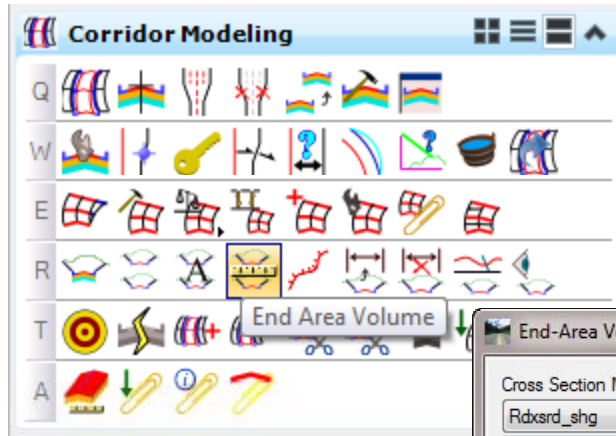
Annotate Cross Sections



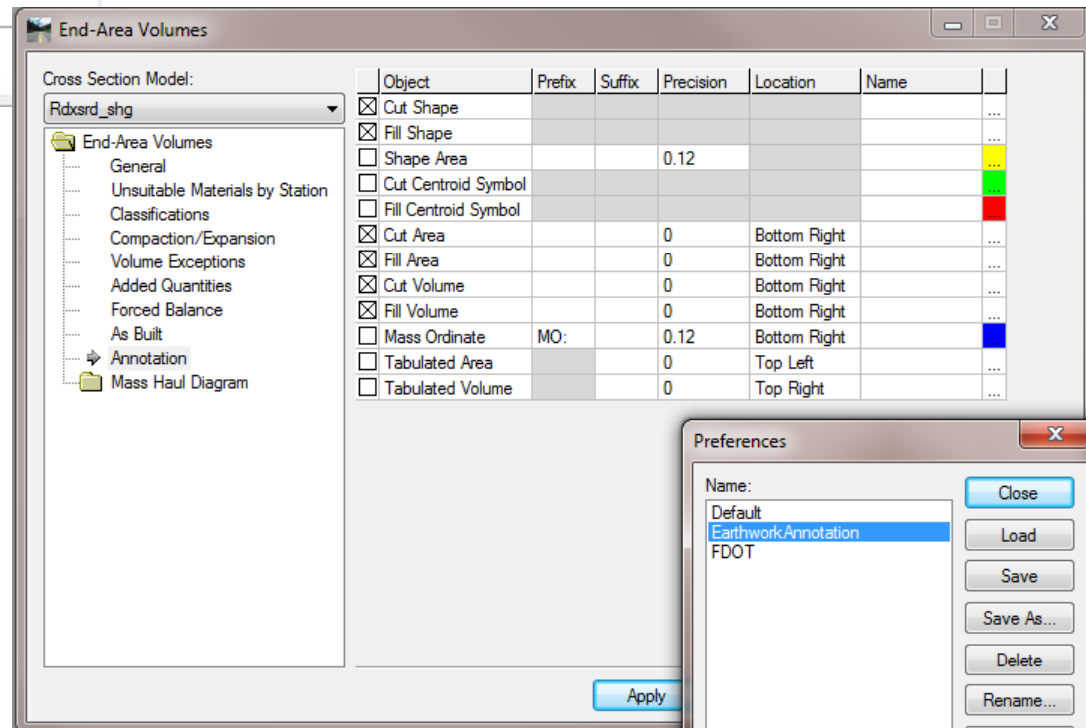
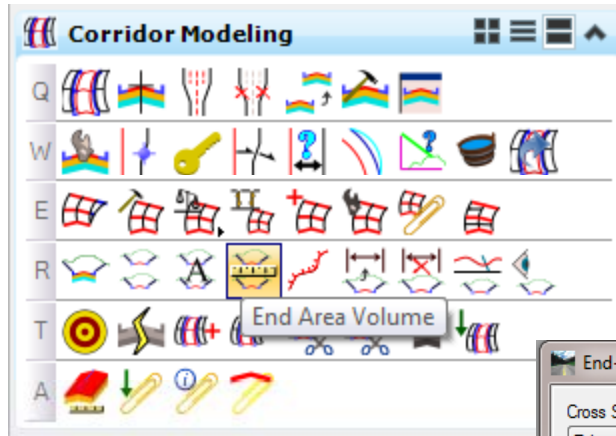
Annotate Cross Sections



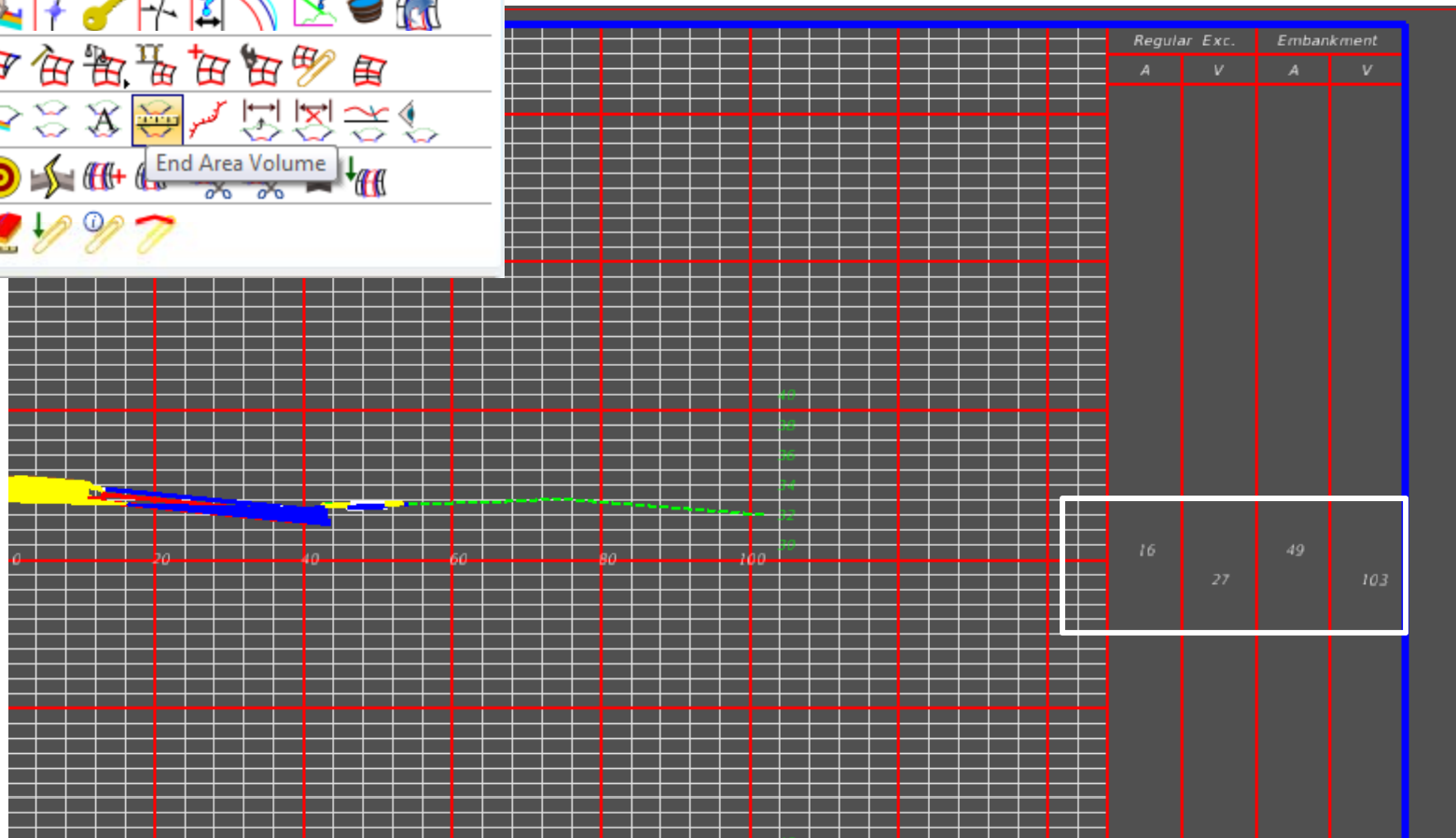
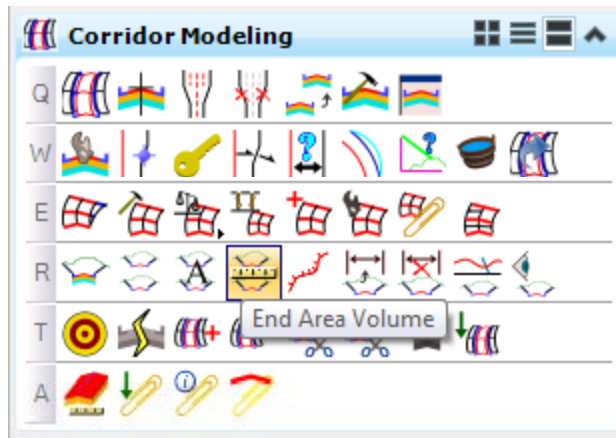
End Area Volume



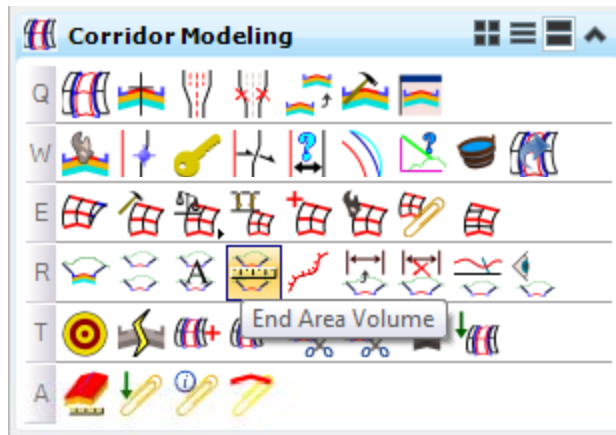
End Area Volume



End Area Volume



End Area Volume



A CrossSectionASCIIInputForma
 A CrossSectionASCIIInputForma
 A CrossSectionASCIIInputForma
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 A CrossSectionGradebook.xml
 A CrossSectionGradebookNE.xs
 A CrossSectionGradebookWide
 A CrossSectionPoints.xml
 A CrossSectionPointsList.xml
 A CrossSectionProfileList.xml
 A CrossSectionSlopeStakeListin
 A CrossSectionStaking.xml
 A CrossSectionStakingTable.xml
 A CrossSectionsToCSV.xml
 A CrossSectionSurveyFormat.xml
 A CrossSectionWide.xml
 A CrossSectionXYZ.xml
 A EarthworkQuantities.xml
 A EndAreaVolume.xml
 A EndAreaVolumePageTotals.xs
 A EndAreaVolumeStationRange
 A MultipleMaterialVolumes.xml
 A Roadway Designer Componen
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 A TriangleVolumeByStation2.xml
 A TriangleVolumes.xml
 A TriangleVolumesSumShapes.x
 A Volumes.xml

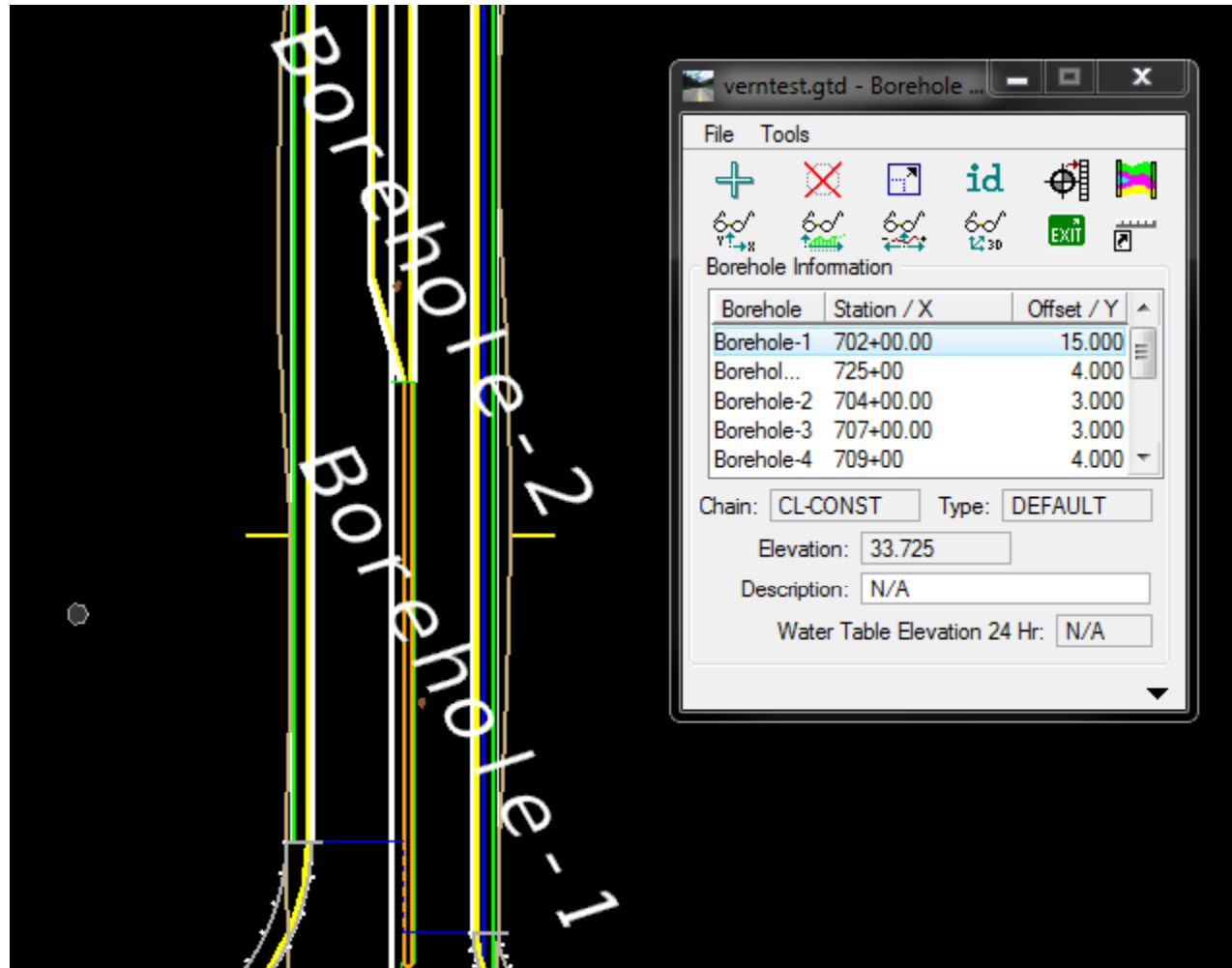
End Area Volume Report

Report Created: 5/23/2014
Time: 10:38am

Cross Section Set Name: Rdxsrd_shg
Alignment Name: CL-CONST
Input Grid Factor: 1.000000 Note: All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----				----- Added Quantities -----				Mass Ordinate
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
R1 701+00	1	49	0	0	1	0	0	0	0
R1 701+50	1	94	132	132	1	2	2	2	131
R1 702+00	1	55	138	138	1	10	11	11	258
R1 702+50	1	27	76	76	1	19	26	26	307
R1 703+00	1	36	58	58	1	19	35	35	331
R1 703+50	1	93	120	120	1	11	28	28	423
R1 704+00	1	138	215	215	1	2	12	12	625
R1 704+50	1	164	280	280	1	0	2	2	903
R1 705+00	1	163	303	303	1	0	0	0	1206
R1 705+50	1	73	218	218	1	12	12	12	1413
R1 706+00	1	33	98	98	1	31	41	41	1470
R1 706+50	1	15	45	45	1	50	76	76	1440
R1 707+00	1	7	21	21	1	98	138	138	1323
R1 707+50	1	13	19	19	1	91	175	175	1166
R1 708+00	1	14	25	25	1	63	142	142	1049

Utilities Bore Hole Navigator



Utilities Bore Hole Navigator

Visualize Boreholes in Cross Section View

Chain: CL-CONST Chain to use: Main Chain

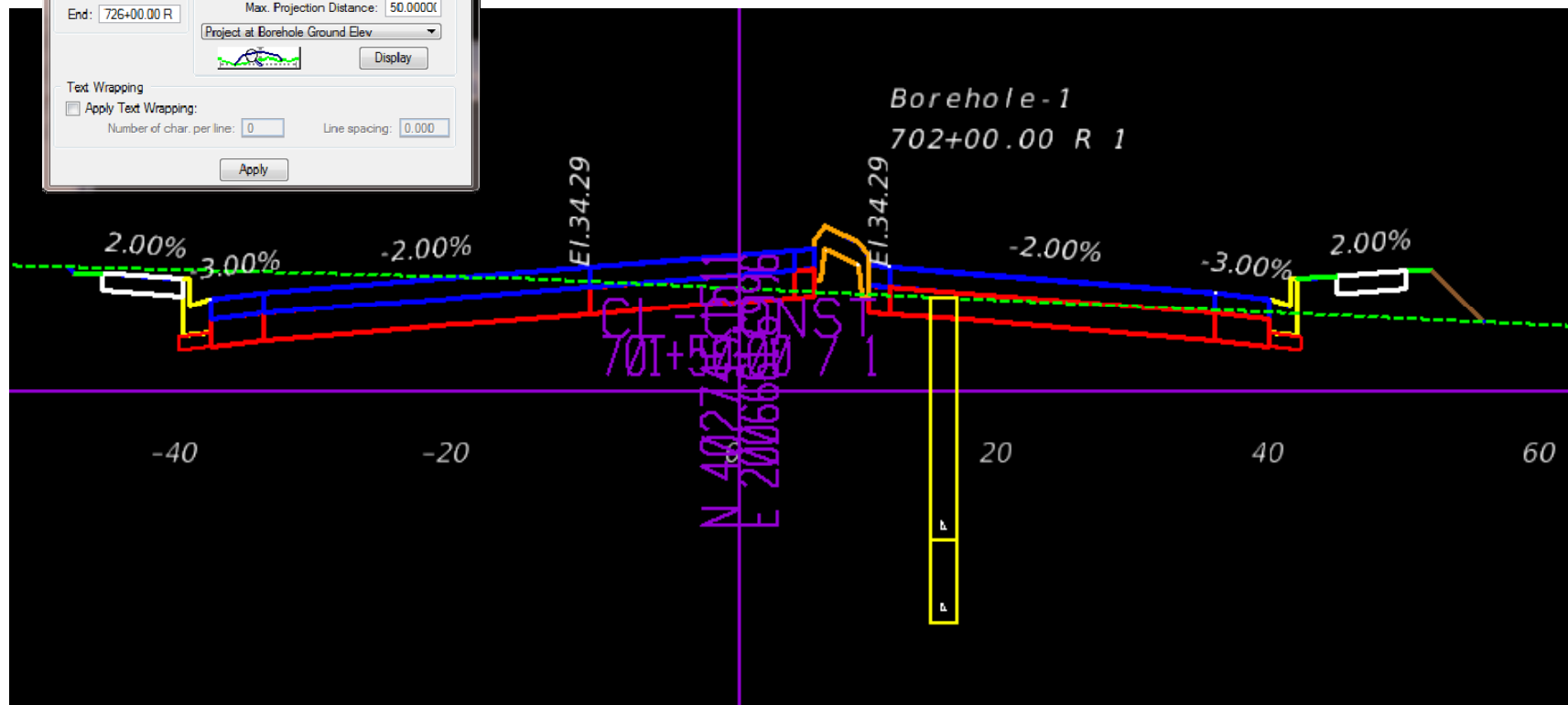
Borehole	Station / X	Offset / Y	Elevation	Aux Chain
Borehole-1	702+00.00	15.000	33.725	N
Borehole-10	725+00	4.000	37.759	N
Borehole-2	704+00.00	3.000	34.030	N
Borehole-3	707+00.00	3.000	30.218	N
Borehole-4	709+00	4.000	33.826	N

Station Range
Begin: 700+00.00 R
End: 726+00.00 R

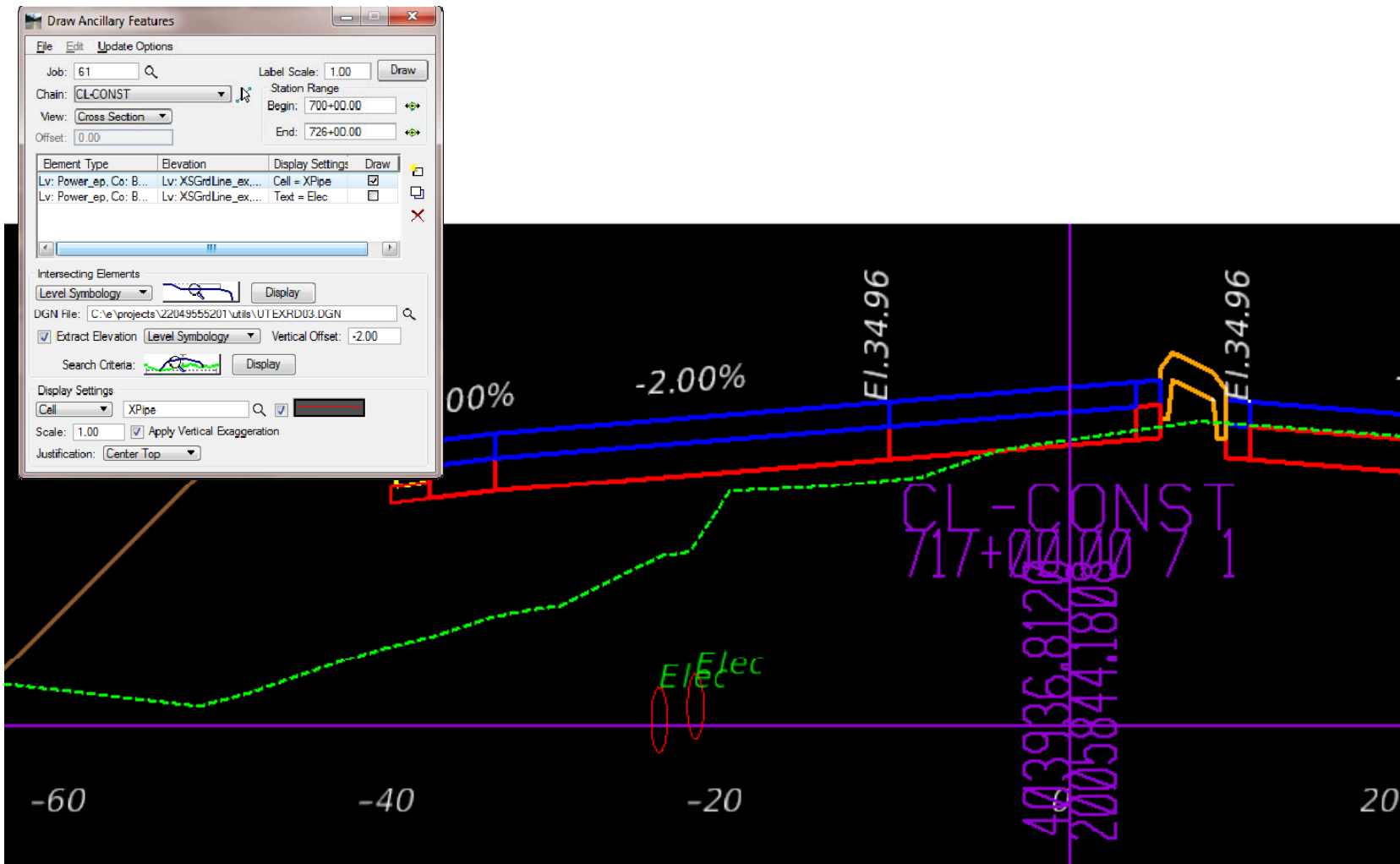
Projection Data
Project onto: Nearest XS
Max. Projection Distance: 50.0000
Project at: Borehole Ground Elev

Text Wrapping
☐ Apply Text Wrapping:
Number of char. per line: 0 Line spacing: 0.000

Apply



Draw Ancillary Features



Contact Information

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CADD Applications Support
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Toll Free no: (866) 374-3368 extension 4897

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web: <http://www.dot.state.fl.us/ecso>