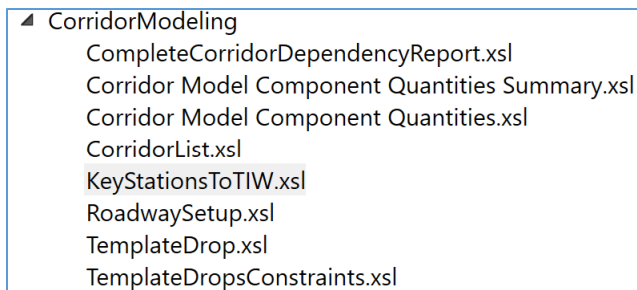


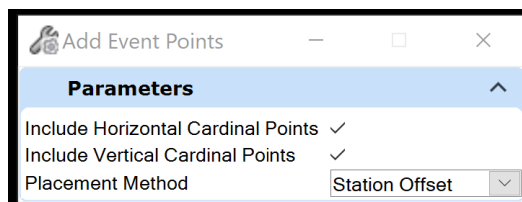
ORD Cross Section Workflow for Including Critical Section Locations

Create Event Points

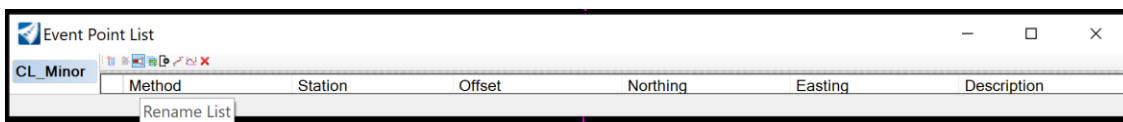
1. Open geometry file with the alignment used as a basis for cross sections
2. Attach reference for the corridor file(s) used with the alignment
3. From the Corridor tab of the OpenRoads Modeling workflow:
 - a. Review > Corridor Reports > Design Input Report
 - b. Select corridor
 - c. Select “Roadway Setup” report and save to desired format



4. From the Geometry tab of the OpenRoads Modeling workflow:
 - a. Common Tools > Event Point List
 - b. Following the prompts:
 - i. Select alignment
 - ii. Include horizontal cardinal points – Yes (optional)
 - iii. Include vertical cardinal points – Yes
 - iv. Placement Method – Station Offset



5. From Event Point List dialog box, select “Rename List” and change to “Critical locations”



- From Event Point List dialog box, select "Add By Station Offset"
- Copy/Paste from Roadway Setup report to add desired key stations and template drops for cross sections

| Method | Station | Offset | Northing | Easting | Description |
|-------------------------------|------------|--------|------------|-----------|-------------|
| Station | 200+00.000 | 0.000 | 283363.752 | 65076.224 | VPC-CL Main |
| Station Add By Station Offset | 200+42.066 | 0.000 | 283326.695 | 65075.350 | Tree |
| Station Offset | 200+54.968 | 0.000 | 283313.796 | 65075.082 | Tree |
| Station Offset | 200+60.538 | 0.000 | 283308.227 | 65074.967 | Tree |
| Station Offset | 200+63.554 | 0.000 | 283305.212 | 65074.904 | Inlet |
| Station Offset | 200+83.363 | 0.000 | 283285.407 | 65074.493 | VPT-CL Main |
| Station Offset | 200+83.835 | 0.000 | 283284.935 | 65074.483 | Template |
| Station Offset | 201+08.000 | 0.000 | 283260.776 | 65073.981 | Driveway CL |
| Station Offset | 201+28.151 | 0.000 | 283240.629 | 65073.563 | Template |
| Station Offset | 201+50.472 | 0.000 | 283218.313 | 65073.099 | Pole |
| Station Offset | 201+70.437 | 0.000 | 283198.352 | 65072.685 | PC |
| Station Offset | 201+73.103 | 0.000 | 283195.687 | 65072.622 | Tree |
| Station Offset | 202+02.230 | 0.000 | 283166.609 | 65071.004 | VPC-CL Main |
| Station Offset | 202+15.000 | 0.000 | 283153.986 | 65069.111 | Template |
| Station Offset | 202+83.468 | 0.000 | 283094.310 | 65037.476 | Inlet |
| Station Offset | 203+65.846 | 0.000 | 283058.830 | 64964.916 | Template |
| Station Offset | 203+77.230 | 0.000 | 283057.737 | 64963.585 | VPT-CL Main |
| Station Offset | 203+93.363 | 0.000 | 283056.634 | 64937.491 | VPC-CL Main |
| Station Offset | 204+41.499 | 0.000 | 283056.431 | 64889.373 | PT |
| Station Offset | 204+61.801 | 0.000 | 283057.322 | 64869.092 | Driveway CL |
| Station Offset | 204+89.699 | 0.000 | 283058.547 | 64841.220 | Template |
| Station Offset | 205+04.051 | 0.000 | 283059.178 | 64826.882 | Inlet |
| Station Offset | 205+11.086 | 0.000 | 283059.486 | 64819.854 | Template |
| Station Offset | 205+47.000 | 0.000 | 283061.063 | 64783.974 | Template |
| Station Offset | 205+61.580 | 0.000 | 283066.973 | 64649.524 | Template |
| Station Offset | 206+93.363 | 0.000 | 283067.490 | 64637.753 | VPT-CL Main |

- Adjust station/offset values if necessary and add descriptions to list if desired
- Close dialog box and detach corridor reference file(s)

Create Cross Sections

- Follow EAST [EBids cross section workflow](#)
- Select "Critical locations" from the Event Point List pulldown menu on the "Placed Named Boundary Civil Cross Section" dialog box
- Toggle on "Include Control Points" if the horizontal control points were not previously added to the event point list, otherwise leave toggled off

Place Named Boundary Civil Cross Section

Drawing Seed: XS Inch 20 Stacked

Detail Scale: 1"=20'

Group: (New)

Name: NBS

Description: 25' plus critical locations

Start Location: 200+00.000

Stop Location: 206+95.397

Left Offset: -140.000000

Right Offset: 140.000000

Interval: 25.000000

Vertical Exaggeration: 1.000000

Top Clearance: 20.000000

Bottom Clearance: 10.000000

Elevation Datum Spacing: 5.000000

Event Point List: Critical locations

Include Event Points Only

Include Control Points

Backward Facing

Create Drawing

Show Dialog