


Cross Section DGN Files for Construction

When creating cross sections to calculate average end-area volume quantities, it may be important to create cross section drawings at the same stations that a corridor processed templates. If so, see other documentation about [Cross Sections for Quantities](#).

Steps to Create a Cross Sections DGN File

1. **Create a new DGN file** from the OpenX 2D DGN seed in either the Construction_Engineering or Construction_Survey folder. In ProjectWise, the file is described as “<Description> Cross Sections”. The ODOT Naming Tool will generate names like, CE_K#####_XSEC_##.dgn or CD_K#####_XSEC_##.dgn.
2. **Working in the Default model, attach a reference to a terrain**, it may be easiest to use the existing terrain found in the 1_Design\6_Civil_Data folder. Use live nesting, depth=1, if attaching a container file as a reference.
3. Select a terrain element, like the perimeter or a contour line, and choose “**Set as Active Terrain Model**”. This will create the Default-3D model and attach it as a self-reference.
4. **Working in the Default model, attach other references** to geometries (alignments), corridors, etc. This data is typically found in the 1_Design\6_Civil_Data folder. Use live nesting, depth=1, if attaching a container file as a reference.
5. Right-press and select **View Control>2 views Plan/3D**.
6. **Save Settings**.
7. Ensure that View 1, Default is active and use **Place Named Boundary Civil Cross Section** .
8. **Select a drawing boundary seed** such as “XS Inch 20 Stacked”.
9. **Left click on the horizontal alignment** in View 1 to Identify the Complex Element.

Follow the instructions in [Using ORD Drawing Boundary Seeds](#) to create the cross sections.