

Setup and Outline of Work

1. **d#####model** – Attach the file with the 3D terrain model (possibly sdt##### or scr#####) and set as the active terrain model. If only a .TIN file was provided, see "Creating a Terrain Model from a .TIN" below. See "Creating a Terrain Model from a .TIN" below.
2. **d#####model** – Create baseline in OpenRoads. Station the baseline and name it. Export to Geopak. "Complex by PI" is recommended for creating the baseline. Using traditional methods and featurizing your line work to create a baseline is **not recommended**, but if needed it will work well but modifications will be easiest to do if you used "Complex by PI".
3. **d#####model** – Create profile in OpenRoads. See section below on "Drawing Vertical Alignment". Name it and export to Geopak.
4. **d#####model** – Draw and label baseline from geopak. You can create line work (E.P.s, etc.) by offsetting the baseline. Use OpenRoads tools to offset and create line work (from the OpenRoads baseline) if you want to be able to preserve design intent and take advantage of the dynamic features of OpenRoads. This works well but does tend to really slow down the processing time. From the issues seen it would be recommended that you use traditional methods of creating your line work and featurize it afterwards.
5. **d#####model** – Create Corridor Model from baseline. Create Templates and Template Drops. See other sections in this document.
6. **d#####model** – Add relevant line work as Corridor References for the Corridor, or use Point Controls (see below).
7. **d#####model** – create superelevation shapes from the corridor. Can either be imported from .CSV or generated by OpenRoads.
8. **d#####model** – Create connection baselines and profiles.
9. **d#####model** – Use linear templates and surface templates to create radial returns and tie intersections together.
10. **d#####prof/xsheet/etc** – Export baselines and profiles to geopak, draw labeling, create annotated profile in prof file, prepare plan sheets. If corridor model is located in the des file, turn off all modeling elements in the plan sheets, including Construction class items, working lines, etc.
11. **d#####des** – This file would be used to place all other items to be display on the plan sheets. Reference **d#####model** to copy in linework needed for the plan sheets (EPs, curbing, shoulders, etc).

All of these steps would be done in the d#####des file. If you use this option you can run the risk of file corruption.