

New File Names & Workflow with 3d Modeling (7-1-2013)

The following is a general overview, workflow, and requirement of files created with the Corridor Modeling process.

New File Names & Workflows

1. **3D-TERRAIN-X.DGN** – Contain existing imported TIN file. (Use 3d seed file to create.)
2. **ALIGPK.DGN** – Contains imported Chains/Profiles or created Horizontal/Vertical Alignments.
3. **ALI.DGN** – Annotated/Stationed alignments.
4. **SUPER-roadwayname.DGN** – Contains Superelevation for a given alignment.
 - Workflow – ALIGPK.DGN is referenced.
 - Examples: Super-55.DGN
5. **CORRIDOR-roadwayname-(phase)-(stationlimits).DGN** – Contains Corridor for a given primary alignment. It is allowable to include shorter local road corridors within the station limits in the same file.
(i.e. 3D-55-PH1.DGN, 3D-LRSmithSt.DGN)
 - Workflow:
 - a) ALIGPK.DGN, 3D-TERRAIN.DGN, SUPER*.DGN are referenced.
 - b) Terrain made active. (Default-3d model created).
 - c) Corridor created.
 - d) Super applied.
 - Examples: CORRIDOR-55.DGN
6. **XS-roadwayname.DGN** – Contains XS's
 - Workflow:
 - a) *TERRAIN-X.DGN file is referenced (Default model).
 - b) Terrain is made active.
 - c) View 5 set to Default-3d model.
 - d) Alignment DGN file (ALIGPK.DGN) is referenced to View 1 (Default model). Default-3d model should be referenced with this attachment.
 - e) Corridor DGN file is referenced to View 1 (Default model). Default-3d model should be referenced with this attachment.
NOTE: If multiple phases exist, each is referenced.
 - f) XS's are generated – 100' even increments, 50' urban. A "XS" model is created. XS's are placed on XS Cells. XS's are not dynamically tied to Corridor.
 - g) Drainage is placed on XS's. ?????
 - h) EW is processed with the new tool "End AREA Volume" & placed on XS's. ?????

- i) If revisions occur geometrically, XS's are re-cut and placed in a new model. Earlier XS model referenced and drainage copied in.
 - j) XS sheets are generated as normally done.
 - Examples: XS-55.DGN, XS-LRSmith.DGN
7. **3D-TERRAIN-D-roadwayname-(phase)-(stationlimits.DGN).DGN** – Contains Terrains generated for AMG.
- Workflow:
 - a) Create DGN file using 3d seed file.
 - b) CORRIDOR*.DGN is referenced (Default-3D model is referenced as Default)
 - c) Top Dirt Terrain created by filter.
 - d) Drape Voids added for overlay areas.
 - e) Undercut Terrain created by filter.
 - f) Finished Grade Terrain created by filter.
 - Examples: 3D-TERRAIN-D-55.DGN
8. **3D-TERRAIN_D-roadwayname-(phase)-surfacetype-(stationlimits).xml** - Terrains exported from AMG file to LandXML
- Examples: 3D-TERRAIN-D-55-Phase1-TopDirt.XML, 3D-TERRAIN-D-55-Phase1-Undercut.xml, 3D-TERRAIN-D-55-Phase1-FinishedGrade.xml
9. **ALI-roadwayname.xml** - Alignments/Profiles exported to LandXML.
- Examples: ALI-55.xml

NOTE: xml files should be submitted with CADD files in a \CED sub-folder.

CED – Construction Engineering Data