

ORD File Exchange and Workflow – Geotechnical Operations

During project development and delivery of an ORD project, it is anticipated that multiple disciplines will work on a project which will result in project file(s) being exchange via the project team. The tables noted below detail the **.dgn** file names and types for the interaction between **Roadway Design** and **Geotechnical Operations**. Geotechnical Sheets (**G-Sheets**), as detailed in the [TDOT Geotechnical Guidelines](#), are developed in alignment and conjunction with a project’s Soils and Geology Report. For a PDN project, G-sheets are typically created during Stage 3 – Plan-in-Hand.

A single workset with a single sheet index will be turned-in as part of the Construction Planset submittal (or PS&E for a PDN project). This single workset and associated sheet index will include the design files and sheet models of all applicable disciplines to complete a project’s design. The **Roadway Design** Workset will be the master workset that all other disciplines’ work will be added to. During the development of plans, the **Roadway Design** Workset should be provided via zip file, which includes the files noted in the tables below, as part of the handoff and interaction between **Roadway Design** and **Geotechnical Operations**.

The file naming convention information noted in these tables references the [TDOT ORD File Naming Convention Standards](#) document. (**Note:** For example, SR-1 in Cheatham County would be **11S001-SHT-Proposed Layout.dgn**. This file will contain all proposed sheet models along with the motif model and drawing model(s).)

ROADWAY DESIGN >> GEOTECHNICAL OPERATIONS

As a reminder, the **Roadway Design** Workset will be provided. The files below will be most useful to the **Geotechnical Operations Lead** to complete their design.

Document Description	File Naming Convention	Notes
Roadway Alignments / Profiles	PRJ NAME-DES-Alignments-Master	All Horizontal and Vertical Alignment(s).
Roadway Corridor	PRJ NAME-DES-Corridor-Master	All Corridor Models Including Roadways and Structures in the Project Area.
Proposed ROW Linework, Patterning and Text	PRJ NAME-DES-ROW	
Roadway Layout Sheets	PRJ NAME-SHT-Proposed Layout	File containing the motif model, drawing model(s), and sheet model(s) for all Proposed Layout Sheets.
Roadway Profile Sheets	PRJ NAME-SHT-Proposed Profiles	File containing the motif model, drawing model(s), and sheet model(s) for all Proposed Mainline Profile Sheets.

Document Description	File Naming Convention	Notes
Side Road Profile Sheets	PRJ NAME-SHT-Proposed Sideroad Profiles	File containing the motif model, drawing model(s), and sheet model(s) for all Proposed Sideroad Profile Sheets.
Roadway XS Sheets	PRJ NAME-SHT-XS-Road Name	File containing the motif model, End-Area Calcs, drawing model(s), and sheet model(s) for all Roadway XS Sheets.
Side Road XS Sheets	PRJ NAME-SHT-XS-Side Road	File containing the motif model, End-Area Calcs, drawing model(s), and sheet model(s) for all Side Road XS Sheets. (Each Side Road gets its own file.)

GEOTECHNICAL OPERATIONS >> ROADWAY DESIGN

The **Geotechnical Operations Lead** should provide the files listed below to the **Roadway Design Lead**.

Document Description	File Naming Convention	Notes
Geotech Reference File	PRJ NAME-DES-Geotech	File containing all necessary Geotech plan information that will be referenced into the Geotech sheet models.
Signature Sheet	PRJ NAME-SHT- Geotech Signature	Add the Geotech signature(s) and applicable sheets.
Geotech Index Sheet(s)	PRJ NAME-SHT-Geotech Index	File containing the sheet model(s) for all Geotech Indexes.
Geotech Notes Sheet(s)	PRJ NAME-SHT-Geotech Notes	File containing the sheet model(s) for all Geotech Notes.
Geotech Layout Sheets	PRJ NAME-SHT- Geotech Layouts	File containing the motif model, drawing model(s), and sheet model(s) for all Geotech Layout Sheets.
Geotech Profile Sheets	PRJ NAME-SHT-Proposed Profiles- Geotech	File containing all references needed for proposed Geotech profiles, including the boring logs and legend.
Geotech XS Sheets	PRJ NAME-SHT-XS- Geotech	File containing the motif model of all references needed for the Geotech XS, including the undercutting and legend.

RED TEXT = New file or new portion of file name.