Level Names for Design

Alignment (Stationing) Annotation Levels (E_SURV_ALIGN and P_RDWY_ALIGN): _ALIGNSmScl

The alignment annotation for all scales is placed at the same time. 100' stationing is placed on a separate level (_ALIGNSmScl) from the 500' stationing that is used for 1"=100' and 1"=200' scales. This allows the "small scale" level to be toggled off when the only 500' stationing is required.

Design Levels: D_XXXX_Xxxx

A group of levels was created to support design activities using OpenRoads Designer. The naming convention is **D_XXXX_Xxxx**. The first letter, D, represents the "Design" group of levels. The second grouping is an abbreviation for the tool or type of element that uses the level: AQUAPL = Aquaplaning tool, CORR = Corridor Modeling, MESH = Mesh elements, SIGHT = Sight tool, TERR = Terrain element. A table with a larger list with descriptions is at the bottom of this document.

Existing Levels: E_

The level named E_SURV_PT_Locator is used to display a cell as a locator of survey data points.

Proposed Levels: P_

The Drainage & Utilities module required several new levels and Hydraulics chose: P_HY_DRAIN_GradeFixedTie, P_HY_DRAIN_LowPoint, P_HY_DRAIN_Pond, and P_HY_DRAIN_Trace. Levels have also been added for terrain triangle display to provide level separation: P_TERR_DSPLAY_Boundary_1-7, P_TERR_DSPLAY_Triangles_1-7, and P_TERR_DSPLAY_Parent.

Quantity Levels: Q_

Use of quantity levels can assist in design estimates of quantities and construction pay quantity tracking. An ODOT Quantities ribbon workflow is provided for placing and labeling lines and shapes using quantity levels.

Sheet Levels: S_

Lastly, a group of levels was required for producing sheets using named boundaries; the naming convention for sheets begins with S_. The sheet levels are included at the top of the table below.

Level Name	Description
S_EXTG_ROW	Sheet Existing right of way
S_NamedBoundary	Sheet Named Boundary
S_PLAN_Grid	Sheet Plan grid
S_PLAN_GridTx	Sheet Plan grid text
S_PROP_ROW	Sheet Proposed right of way
D_AQUAPL_Xxxx	Aquaplaning tools: flowline, type of risk, surface
D_CORR__Xxxx	Design Corridor tools: boundary, pointcontrol, keystation
D_MESH__Xxxx and D_MESH_VOL_Xxxx	Design Mesh: surface types and volume types
D_SIGHT_Xxxx	Design Sight analysis tools
D_TERR_Xxxx	Design Terrain surface material
D_XSEC_Xxxxx	Design cross section component display
P_TERR_DSPLAY_Xxxx	Terrain display: boundary, triangles, parent

Table 1. Level Names and Descriptions

Level Names for Design with Drainage and Utilities

Element templates and some level names for OpenRoads Designer Drainage and Utilities are stored in a separate DGNLIB.

ODOT_Drainage and Utilities Features Annotations Text Favorites Elem Temp.dgnlib

Some existing (E_) and proposed (P_) levels used for Drainage & Utilities activities were added in 2024. The descriptions all begin with "DU_".