

2.4 Drawing Data Levels

A. Standardization of Level Convention

The use and application of the leveling convention defined in this section should be uniformly observed for the following reasons:

1. Work Transfer

To efficiently transfer work between functional units, CADD drawings must conform to a uniform leveling convention. If the same leveling convention is used, considerable time and effort is saved in obtaining the desired information.

2. Multiple-Users

It is not uncommon for more than one person to work on the same drawing file. For the drawing file to be effectively and efficiently used by all, each user must conform to the uniform leveling convention.

3. Drawing Life

At Caltrans, drawings are active for several years or more. Base maps stored as MicroStation dgn files can be quickly used to start a new project or preliminary study. How the data is entered today (i.e., the levels used for storing different data) must be clearly understood for a long period, often after the original users who created the drawings are no longer available. Confusion can be minimized with a uniform leveling convention.

4. Expanding the Caltrans Leveling Convention

The leveling convention that is currently used in Caltrans is referred to as the "Named Levels". This convention supersedes the leveling convention that Caltrans used until recently, referred to as "V8 Standards". The V8 Standards convention will remain the same to support the legacy plans maintained by Caltrans. This also accommodates any files that may be submitted for future PS&E submittals.

The named level DGNLIB files were released in 2017 along with the deployment of Civil 3D 2016. Level numbers were also assigned to the Named Levels. The Named Levels start from level number 1000 to transition the various functional units within Caltrans who had been using the V8 Standards leveling convention. The levels will be referred to by the level name instead of the numbers. Caltrans started implementing named

levels for projects that use survey data delivered to Design groups after December 1, 2017.

The Default Level (Level 0) should not be used to store elements in any Caltrans MicroStation design file.

B. Highway/Landscape Leveling Convention

1. Caltrans' general content of Highway/Landscape levels was as follows before implementation of the V8 Standards convention:

Pre-V8

| Level(s) | Content |
|---------------------|--------------------------------------|
| Level 1 | Control Data |
| Levels 2-8, 11 & 12 | Basic topographic map data |
| Levels 9 & 10 | Sheet formats & Seal Information |
| Levels 13 – 28, 30 | Alignments and Construction Details |
| Levels 31 - 33 | Right of Way data |
| Levels 29, 34 - 59 | Data for specific type of plan sheet |
| Level 60 | Non-geographical drawing data |
| Levels 61 & 62 | HQ & As-Built changes |
| Level 63 | Engineer's Signature |

V8 Standards convention added the following levels to the Pre-V8 convention:

V8 Standards

| Level(s) | Content |
|------------------|---------------------------------------|
| Levels 64 - 69 | No_Plot |
| Level 70 | Plot Shape for IPlot (does not plot) |
| Levels 71 - 74 | Survey Information |
| Levels 75 - 100 | Undefined (non-dropout) |
| Levels 128 - 137 | Right of Way data |
| Levels 812 - 849 | Utilities (line styles) (non-dropout) |
| Levels 871 - 890 | Staging Dropout |
| Levels 891 - 895 | Striping Dropout |
| Levels 896 - 900 | Miscellaneous Dropout |
| Levels 966 - 999 | Additional Staging (non-dropout) |

- Note 1: The Caltrans V8 Standards convention DGNLIB has various preset level filters. When selecting the Roadway filter, the above V8 Standards expanded levels are displayed in Level Manager or Level Display.

Note 2: For projects using the V8 Standards convention that have a lot of stages for Stage Construction (or sequencing) levels 966 through 999 supplement the Pre-V8 levels of 51 through 56 (for a total of 20 stages).

Work left in place (line work only, not labels, annotation or callouts) from a previous stage is to be dropped out for the next stage(s). Levels 871 through 890 (which will dropout information when printing) were created to facilitate dropping out the completed line work from a previous stage.

For Example:

Level 871 for dropping out Stage 1
 Level 872 for dropping out Stage 2
 Level 879 for dropping out Stage 9
 Level 880 for dropping out Stage 10
 Level 881 for dropping out Stage 11
 Level 890 for dropping out Stage 20

Named Levels

Level names used by Highway, Electrical, Hydraulics, Storm Water, Landscape, Traffic and Utilites are made up of three parts, the first part is used to identify the group name and can be also used for level filtering purposes, lower case letters are used for group names. The second part of the level name is prefixed with an underscore character ('_'), it describes the specific item, task or sheet the level applies to and uses a mix of upper-case and lower-case letters. Upper case letters are used for task names followed by an optional sub-task name in lower case letters; task name and optional subtask names are separated using a hyphen character ('-'). The third part of the level name is prefixed with an underscore character ('_') and it is used to indicate the level's plot style (plot style uses all upper-case letters or all lower-case letters).

Level name for all levels except (right of way, topo and structures) use one of the styles below:

1. **groupname_TASKNAME_PLOTSTYLE**
2. **groupname_TASKNAME_plotstyle**
3. **groupname_TASKNAME-subtaskname_plotstyle**
4. **groupname_TASKNAME-subtaskname_PLOTSTYLE**
5. **groupname_plotstyle**
6. **groupname_PLOTSTYLE**

Group Name Designations:

| Group Name/Filter Name | Description |
|-------------------------------|---|
| align | Alignment elements and related information |
| df | Drainage Facilities and related elements and information |
| es | Electrical System and related elements and information |
| esa | Environmentally Sensitive Area and related elements and information |
| advplan & gis | Advance planning elements and relation information |
| ls | Landscape item related data |
| mc | Miscellaneous items (Dikes, Curbs Sidewalks etc.) and related elements and information |
| border | Project plan border related items and information |
| rd | Roadway item and related information |
| stage | Stage construction and related elements and information |
| temp | Temporary item related elements and information |
| tcd | Traffic control device elements and related information |
| ut | Utility elements and related information |
| vis | Visualization related element data and related information |
| wall | Sound wall and Retaining wall element data and related information |
| wpc | Water pollution control element and related information |
| pp | Project plan element and related information including annotation, raster related information, change orders, as-built, notes, key maps, construction area sign maps, title sheet map, masking elements tables, log of test boring etc. |

Task name and Plot Style by Group:

| Group Name/Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|---|--|-------------------|
| align | 20-SCALE-anno, 100-SCALE-anno, BARRIER, BARRIER-anno, COLLECTOR-RD, COLLECTOR-RD-anno, CULVERT, CULVERT-anno, CURB-FLOW-LINE, CURB-FLOW-LINE-anno, CURVE-DATA, DITCH, DITCH-anno, FRONTAGE, FRONTAGE-anno, LOCAL-ST, LOCAL-ST-anno, MAIN, MAIN-anno, PM- | NO-PLOT, drop |

| Group Name/ Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|--|--|-------------------|
| | REFERENCE-LINE, PM-REFERENCE-LINE- anno, RAMP, RAMP-anno, ROUNDABOUT, ROUNDABOUT-anno, SECONDARY-HWY, SECONDARY-HWY-anno, TEMP, TEMP-anno, WALL, WALL-anno | |
| df | BASIN, CULV-ARCH, CULV-BOX, CULV- TEMP, DETAIL, DRAIN-EDGE, DRAIN- HORIZONTAL, DRAIN-OVERSIDE, DRAIN- UNDER, FES, FLOW-LINE, HEADWALL, INLET, MISC, PIPE, PIPE-APC, PIPE-BIT-CTD- CSP, PIPE-CSP, PIPE-PP, PIPE-RCP, PIPE- SCSP, PROFILE, QTY-TABLE, SYSTEM-UNIT, WATERSHED | NO-PLOT, drop |
| es | CCTV, CELL, CELL-CONDUIT-RISER, CELL- LIGHTING, CELL-MISC-COMPONENTS,CELL- NOTE-SYMBOL,CELL-SIGNALS, CMS, DETAIL, EMS, EVD, EXIST, FLASHING- BEACON, FO, HAR, INTERCONNECTION, LEGEND, LIGHTING, LIGHTING-CITY, LIGHTING-TEMP, MODIFY-CCTV, MODIFY- EMS, MODIFY-EVD, MODIFY-FO, MODIFY- HAR-EMS, MODIFY-RAMP-METERING, MODIFY-RWIS, MODIFY-SIGNAL-LIGHTING, MODIFY-SIGN-ILLUMINATION, QTY-TABLE, RAMP-METERING, REMOVE, RWIS, SERVICE-BOOSTER-PUMP, SERVICE- IRRIGATION, SIGNAL-LIGHTING, SIGNAL- LIGHTING-CITY, SIGN-ILLUMINATION, STAGE-1, STAGE-2. STAGE-3, STAGE-4, STAGE-5, TMS | NO-PLOT, drop |
| esa | AREA, BIOLOGICAL, CULTURAL, HISTORIC, PALEONTOLOGICAL | NO-PLOT, drop |
| advplan & gis | ALTERNATIVE-1, ALTERNATIVE-2, ALTERNATIVE-3, ENV-STUDIES, SHAPE- FILES | NO-PLOT |
| ls | AREA, AREA- CULTIVATION, AREA-EC, AREA-EC-DRILL-SEED, AREAS-EC-DRY- SEED. AREA-EC-ROLLED-PRODUCT, AREA- HARDSCAPE, AREA-MULCH, AREA- ROADSIDE-CLEARING, CONDUCTOR, | NO-PLOT, drop |

| Group Name/ Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|--|--|-------------------|
| | CONDUIT, CONDUIT-EXIST, CONTROLLER, CONTROLLER-EXIST, DETAIL, DLOW-SENSOR-CABLE, KEYMAP, MISC, MISC-CELL, PLANT, PLANT-AREA, PLANT-CUTTING, PLANT-GROUNDCOVER, PLANT-LINER, PLANT-SHRUB, PLANT-TREE, POINT-FEATURE, QTY-TABLE, SCHEDULE-LEGEND, SPRINKLER, SPRINKLER-EXIST, SUPPLY-LINE, SUPPLY-LINE-BRIDGE, SUPPLY-LINE-CLASS315, SUPPLY-LINE-COPPER, SUPPLY-LINE-EXIST, SUPPLY-LINE-GSP, SUPPLY-LINE-LATERAL, SUPPLY-MAIN, SUPPLY-LINE-SCH40, SUPPLY-LINE-TUBING, VALVE, VALVE-EXIST | |
| mc | CURB, CURB-GUTTER, CURB-RAMP, DRIVEWAY, FENCE, FENCE-BW, FENCE-CL, FENCE-TEMP, FENCE-WM, ISLAND, MISC-CONST, PROFILE-CURB-RAMP, PROFILE-FLOW-LINE, PUMPING-EQUIPMENT, SIDEWALK, SLOPE-PROTECTION | NO-PLOT, drop |
| border | CLIP-FRAME, CLIP-FRAME-20SCALE, CLIP-FRAME-100SCALE, DATUM-LINE, GRID-MAJOR, GRID-MINOR, INSIDE-BORDER, PLOTTING-ELEMENTS, PROJ-ID-BLOCK, SEAL, SHEET, SIGNATURE, WITHIN-BORDER, ADDENDUM, AERIAL-IDENTIFICATION, ARCHIVE, AS-AWARDED, AS-BUILT, CAS, CA-TABLE, CO, KEY-MAP-LINE-INDEX, LEGEND, LOTB, MASKING, MISC, MOTORIST-INFO, PRESENTATION, PROJECT-CONTROL, PROJECT-CONTROL-MAP, RASTER, TITLE-LOC-TABLE, TITLE-SHEET, TITLE-SHEET-MAP | NO-PLOT, drop |
| rd | BACKFILL-STRUCTURE, BASE-MATERIAL, CONST-DETAIL, CONTOUR, CONTOUR-MAJOR, CONTOUR-MINOR, DESIGN-X-SECTION, EARTHWORK, EMBANKMENT-ROADWAY, EP, ES, ETW, EXCAVATION-DITCH, EXCAVATION-ROADWAY, EXCAVATION-ROCK, EXCAVATION- | NO-PLOT, drop |

| Group Name/ Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|--|---|-------------------|
| | STRUCTURE, FINISH-GRADE, FINISH- GRADE-BREAKLINE, FINISH-GRADE-POINT, HMA-DIKE, HMA-DIKE-TYPE-A, HMA-DIKE- TYPE-C, HMA-DIKE-TYPE-D, HMA-DIKE- TYPE-E, HMA-DIKE-TYPE-F, LAYOUT-NOTE, MISC, PAVEMENT, PAVEMENT-STRUCTURE, PROFILE-BARRIER, PROFILE-FINISH, PROFILE-OG, PROFILE-WALL, QTY-TABLE, RIGHT-OF-WAY, RIGHT-OF-WAY-TCE, SLOPE, SUBBASE-MATERIAL, SUPERELEVATION, SURFACE-BOUNDARY, SURFACE-REMOVAL-AC, SURFACE- REMOVAL-CONC, TRIANGLE, TYP-X- SECTION, TORUS-anno, TRDESIGNSYMBOL, TRFASTESTPATH, TRGRADING, TSTORUS | |
| pp | CAS-TABLE, TITLE-LOC-TABLE, MASKING, TITLE-SHEET-MAP, TITLE-SHEET-anno, CAS, CAS-anno, KEY-MAP-LINE-INDEX, KEY-MAP- LINE-INDEX-anno, LOTB, LOTB-anno, AERIAL- IDENTIFICATION, AERIAL-IDENTIFICATION- anno, PROJECT-CONTROL-MAP, PROJECT- CONTROL-anno, MOTORIST-INFO, MOTORIST-INFO-anno, MISC, PRESENTATION, AS-AWARDED, ARCHIVE, RASTER, AS-BUILT, CO, ADDENDUM, LEGEND-anno | NO-PLOT |
| stage | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 | NO-PLOT, drop |
| temp | TRAFFIC-CONTROL, TRAFFIC-CONTROL- anno, TRAFFIC-CONES, TRAFFIC-DRUMS, PORTABLE-DELINEATORS, CHANNELIZERS, BARRICADES, RAILING-TYPE-K, CRASH- CUSHION, PVMT-DELINEATION, FLASHING- ARROW-SIGN, FLASHING-BEACON, PORTABLE-CMS, SIGNAL-SYSTEMS, SIGNAL-SYSTEMS-anno, HIGH-VISIBILITY- FENCE, HIGH-VISIBILITY-FENCE-anno, CONSTRUCTION, CONSTRUCTION-anno, FACILITIES | NO-PLOT |
| tcd | BARRIER-CONC, BARRIER-CONC-anno, | NO-PLOT |

| Group Name/ Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|--|--|-------------------|
| | BARRIER-CONC-TYPE-25, BARRIER-CONC-TYPE-26, BARRIER-CONC-TYPE-27MOD, BARRIER-CONC-TYPE-50, BARRIER-CONC-TYPE-60, BARRIER-CONC-TYPE-60-PORTABLE, BARRIER-CONC-TYPE-732, BARRIER-CONC-TYPE-736, BARRIER-CONC-TYPE-742, BARRIER-CONC-TYPE-80, BARRIER-CONC-TYPE-90, BARRIER-CONC-TYPE-K, BARRIER-THRIE-BEAM, BARRIER-THRIE-BEAM-anno, BARRIER-THRIE-BEAM-EXIST, CMS, CRASH-CUSHION, CRASH-CUSHION-anno, DELINEATOR, DOUBLE-RAIL, GSBWFILL, GSCOLORFILL, GSDIMS, GSOUTLINE, MARKER, MARKER-anno, PD-QTY-TABLE, PVMT-MARKER, PVMT-MARKER-anno, PVMT-MARKING, PVMT-MARKING-anno, RAILING, RAILING-anno, RAILING-BR-ST10, RAILING-BR-ST20S, RAILING-BR-ST30, RAILING-BR-ST40, RAILING-BR-ST70, RAILING-CABLE, RAILING-EXIST, RAILING-MGS, RUMBLE-STRIP, RUMBLE-STRIP-anno, SIGN-OVERHEAD, SIGN-OVERHEAD-anno, SIGN-PANEL, SIGN-PANEL-anno, SIGN-QTY-TABLE, SIGN-ROADSIDE, SIGN-ROADSIDE-anno, TRAFFIC-STRIPE, TRAFFIC-STRIPE-anno | |
| ut | ELECT-ABN, ELECT-OH-P, ELECT-OH-X, ELECT-P, ELECT-X, ES-C-ABN, ES-C-X, FIBEROPT-ABN, FIBEROPT-OH-P, FIBEROPT-OH-X, FIBEROPT-P, FIBEROPT-X, GAS-ABN, GAS-P, GAS-X, IRR-C-ABN, IRR-C-X, JOINT-OH-P, JOINT-OH-X, JOINT-TRENCH-P, JOINT-TRENCH-X, MISC, NATGAS-ABN, NATGAS-P, NATGAS-X, OIL-ABN, OIL-P, OIL-X, RCWATER-ABN, RCWATER-X, RCWATER-P, SEWER-ABN, SEWER-X, SEWER-P, STORMD-ABN, STORMD-X, STORMD-P, TELECOM-ABN, TELECOM-P, TELECOM-X, TELEPH-ABN, TELEPH-X, TELEPH-P, TEST-HOLE, TV-ABN, TV-OH-P, TV-OH-X, TV-P, TV- | NO-PLOT |

| Group Name/ Filter Name (Uses lower case letters) | Task name or Sheet (prefixed with an “_”) Uses upper case letters except for Right of Way & Topo. Sub Item, Sub task (prefixed with “- “) Uses lower case letters | Plot Style |
|--|--|-------------------|
| | X, UTILITY-anno, VARIOUS-POINT- FEATURES, WATER-ABN, WATER-P, WATER-X, DEFAULT, FEATURE-OUTLINE- CABINET, FEATURE-OUTLINE-PULLBOX, FEATURE-OUTLINE-PUMP, FEATURE- OUTLINE-VAULT, FEATURE-OUTLINE- OTHER, TRAFFIC-CONTROL-ABN, TRAFFIC- CONTROL-P, TRAFFIC-CONTROL-X, POSITIVELOCATION-MISC-X, ITS-X | |
| vis | BRIDGE, BUILDING, CAR, GRASS, LINEAR- FEATURE, MAN-MADE-OBJ, MATERIAL, NATURAL-OBJ, PLANT, POINT-FEATURE, SKY, SURFACE, TIME-LAPSE, TREE | NO-PLOT |
| wall | SW-ELEVATION, SW-ELEVATION-anno, SW- TYPICAL-SECTION, SW-TYPICAL-SECTION- anno, SW-ARCH-TREATMENT, SW-ARCH- TREATMENT-anno, SW-DETAIL, SW-DETAIL- anno, SW-QTY, SW-LOTB, SW-LOTB-anno, RW-ELEVATION, RW-ELEVATION-anno, RW- TYPICAL-SECTION, RW-TYPICAL-SECTION- anno, RW-ARCH-TREATMENT, RW-ARCH- TREATMENT-anno, RW-DETAIL, RW-DETAIL- anno, RW-QTY, RW-LOTB, RW-LOTB-anno, SYMBOLGY | NO-PLOT, drop |
| wpc | COMPOST-BERM, COMPOST-SOCK, FIBER- ROLL, FIBER-ROLL-anno, TEMP-anno, TEMP- DITCH-SWALE, TEMP-EARTH-BERM, TEMP- FIBER-ROLL, TEMP-GRAVEL-BAG, TEMP- SILT-FENCE, TEMP-SLOPE-DRAIN, TEMP- STRAW-BALE, TREATMENT, TREATMENT- anno, SOIL-STABILIZATION, TEMP-POINT- Feature | NO-PLOT |

Named Levels - Right of Way and Topo

The named level convention used to represent Right of Way and Topographic data is made up of five parts. The first part consists of discipline the data is associated to and the quality of the topographic data. The second part of the name is prefixed with an underscore symbol ('_') with the optional object type information. The third part of the name is prefixed with an underscore symbol ('_')

with optional data grouping information. The fourth part of the name is prefixed with an underscore symbol ('_') with optional information about data details. The fifth part of the name is prefixed with an underscore symbol ('_') with optional plot style information.

The level names for Right of Way and Topo levels use the following general style:

Discipline & Quality_Object Type_Data Group_Data Details_Plotting Style

Discipline & Quality Designations:

| Discipline & Quality | Description |
|---------------------------------|--|
| rw | Right of Way (R/W) and Survey mapping specific features |
| rw_topo | Features common to R/W and topographic templates |
| topo | Topographic specific features |
| topo_al | Aerial LiDAR quality topographic data |
| topo_ml | Mobile Terrestrial Laser Scanned (MTLS) quality topographic data |
| topo_ph | Photogrammetric quality topographic data |
| topo_su | Survey quality topographic data |

Object Type Designations:

| Designation | Object Type Description |
|--------------------|--|
| align | Alignment related data |
| anno | Annotation related data |
| border | Border related data |
| dtm | Digital Terrain Model (DTM) surface data |
| parcel | Parcel related data |
| profile | Line work related to profile data |
| section | Cross section data |

Data Grouping Data Designation and Detail abbreviations:

| Data Grouping | Description |
|----------------------|---|
| appr | Appurtenance |
| bndy | Boundary |
| Brk | Breakline |
| Cont | Surface contour |
| Ctrl | Control related features include project control, found monuments & R/W, and directional information. |
| deck | Bridge deck surface |
| df | Drainage facility |

| Data Grouping | Description |
|----------------------|--|
| EASE | Easement |
| FD | Found Point |
| gnv | Ground Not Visible |
| proposed | Proposed Conditions |
| hydro | Topographic hydrographic features include natural and open & closed manmade drainage facilities including banks, canals, catch basins, cleanouts, culverts, ditches, drainage inlets, headwalls, lakes, pools, rivers, streams, lakes, drainage vents, and weirs |
| LANDNET | Landnet boundaries and elements of ownership |
| LINE_PTS | Points associated to survey data linework |
| ltg | Lighting |
| MARKER | Pavement and utility markers |
| MARKING | Pavement markings include arrows, lane lines, stripes and other pavement markings |
| map | Map sheet specific data |
| MISC | Miscellaneous |
| rdbed | Topographic roadbed features in that portion of the roadway extending from curb line to curb line or shoulder line to shoulder line. Note, divided highways are considered to have two roadbeds. Roadbed features include cattle guards, curbs & dikes along the road, roadbed breaks & edges, and valley gutters. Many of these features can be coded for ground surface or bridge deck surface areas |
| rdside | Topographic roadside features lie in the area adjoining the outer edge of the roadbed extending outside of the right of way line when necessary. Extensive areas between the roadbeds of a divided highway may also be considered roadside. Roadside features include bollards, driveways, flag poles, fences & gates, mailboxes, breaks & edges in original ground and paved areas, parking lots, railroad features, sidewalks both on ground surface and bridge deck surface areas, tanks, trails, etc. |
| RW | Right of Way boundary |
| spot | Spot Elevation |
| study | Lower accuracy study quality data including unregistered point clouds for MTLs data and +/- 2.5 feet for aerial LiDAR & photogrammetric data. |
| STR | Structure |
| str | The topographic structures grouping is subdivided into three groups to assist with 3D surface creation: ground, bridge deck, and bridge surface. Ground features include bridge abutments & wingwalls, |

| Data Grouping | Description |
|----------------------|--|
| | bridge bents, footings of columns & piers, buildings, carports, decks, patios, and walls. Bridge deck features include bridge rails, paving notches, and other features on the bridge deck. Many of the roadbed features can be coded for bridge deck surface areas including asphalt, concrete and curb features. Bridge surface features include faces of columns & piers, girders, soffits, and other features on the underside of the bridge surface |
| underside | The underside area of a bridge |
| tcd | Topographic traffic control devices include barriers, crash cushions, guide post & pavement markers, signs, and pavement marking |
| ut | Topographic utility features include call boxes, fire hydrants, hosebibs, lighting, manholes, overhead & underground facilities, poles, pull boxes, pumps, sprinklers, standpipes, RR & traffic signals, transmission towers, valves, vaults, gas & sewer vents, and wells |
| veg | Topographic vegetation features including brush, orchards, trees, and vineyards. |

Plot Style Designations:

| Plot Style | Description |
|-------------------|--|
| _dither or _drop | Information on these levels will be dropped when plotting |
| Info_only | Data on these levels will be for information only and will not be plotted. |
| No_plot | Plot attributes for these levels are disabled. |

Discipline & Quality wise breakdown of Object Type, Data Group, Data Details and Plotting Styles used by Right of Way and Topo levels is presented in the following table:

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|---------------------------------|---|-------------------|
| | anno | no_plot |
| border | SEAL, rw_22x34, rw_22x34_Cut_Lines, rw_22x36, rw_22x36_Cut_Lines, rw_anno_filename, SEAL, WITHIN-Border_anno | |
| | topo_GridTicks, topo_ph_ctrl | info_only |
| | rw_FRAME, rw_FRAME_anno | no_plot |
| rw_EASE | EXIST, EXIST_align, EXIST_anno, EXIST_point, EXIST_point_anno, EXIST_Public_Utility, EXIST_Public_Utility_align, EXIST_Title_Encumbrance, PROPOSED, PROPOSED_align, PROPOSED_anno, PROPOSED_Drainage, PROPOSED_point, PROPOSED_point_anno, PROPOSED_Slope, PROPOSED_TEMP, PROPOSED_TEMP_anno, PROPOSED_TEMP_Construction, PROPOSED_TEMP_Drainage, PROPOSED_TEMP_Slope | |
| rw_LANDNET | anno, Fed_Part, Govt_Lot_Sub_Section, Interior_Lot, Parcels_Ownership, point, point_anno, Public_Boundary, Qtr_Section_Tract, Section_Rancho, Subdiv_Boundary, Town_Range | |
| rw_map | anno, anno_Appraisal_Map, anno_Detail, anno_Detail_Outline_Dashed, anno_Detail_Outline_Solid, anno_even_sheet, anno_odd_sheet, anno_Record_Map, anno_ROS, anno_Vestee_Block, Appraisal_Map, Record_Map, ROS | |
| rw_MISC | Abandonment, anno, CCUA, CCUA_align, FLA, JUA, JUA_align, point, point_anno, Supplemental_Reference, Vacation | |

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|----------------------|--|------------|
| rw_parcel | anno, anno_Annotation_Area_no_plot, anno_Easement_Area_no_plot, anno_Existing_Area_no_plot, anno_Proposed_Area_no_plot, COLOR, COLOR_Aqua, COLOR_Aqua_Easement_UF, COLOR_Aqua_Remainder, COLOR_Blue, COLOR_Blue_Easement_UF, COLOR_Blue_Light, COLOR_Blue_Light_Easement_UF, COLOR_Blue_Light_Remainder, COLOR_Blue_Remainder, COLOR_Brown, COLOR_Brown_Easement_UF, COLOR_Brown_Remainder, COLOR_Excess, COLOR_Green, COLOR_Green_Easement_UF, COLOR_Green_Light, COLOR_Green_Light_Easement_UF, COLOR_Green_Light_Remainder, COLOR_Green_Remainder, COLOR_Lavender, COLOR_Lavender_Easement_UF, COLOR_Lavender_Light, COLOR_Lavender_Light_Easement_UF, COLOR_Lavender_Light_Remainder, COLOR_Lavender_Remainder, COLOR_Orange, COLOR_Orange_Easement_UF, COLOR_Orange_Light, COLOR_Orange_Light_Easement_UF, COLOR_Orange_Light_Remainder, COLOR_Orange_Remainder, COLOR_Pink, COLOR_Pink_Easement_UF, COLOR_Pink_Light, COLOR_Pink_Light_Easement_UF, COLOR_Pink_Light_Remainder, COLOR_Pink_Remainder, COLOR_Tan, COLOR_Tan_Easement_UF, COLOR_Tan_Remainder, Easement Parcels, Existing Parcels, Parcel Annotation, PATTERN_Directors_Deed, | |

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|----------------------|--|------------|
| | PATTERN_Relinquishment, Proposed Parcels, SEGMENT, SEGMENT_anno, SEGMENT_Easement Parcels, SEGMENT_Existing Parcels, SEGMENT_Parcel Annotation, SEGMENT_Proposed Parcels | |
| rw_retracement | anno | |
| rw_RW | EXIST, EXIST_Access_Left, EXIST_Access_Left_Ticks, EXIST_Access_Left_Ticks_Detail-5, EXIST_Access_Left_Ticks_Detail-10, EXIST_Access_Left_Ticks_Detail-20, EXIST_Access_Left_Ticks_Detail-30, EXIST_Access_Left_Ticks_Detail-40, EXIST_Access_Left_Ticks_Other, EXIST_Access_Right, EXIST_Access_Right_Ticks, EXIST_Access_Right_Ticks_Detail-5, EXIST_Access_Right_Ticks_Detail-10, EXIST_Access_Right_Ticks_Detail-20, EXIST_Access_Right_Ticks_Detail-30, EXIST_Access_Right_Ticks_Detail-40, EXIST_Access_Right_Ticks_Other, EXIST_anno, EXIST_Conventional, EXIST_point, EXIST_point_anno, EXIST_point_anno_no_plot, EXIST_point_no_plot, EXIST_Previous, EXIST_Relinquished, EXIST_Relinquished_Access_Left, EXIST_Relinquished_Access_Right, EXIST_Relinquished_Conventional, EXIST_Superceded, EXIST_Superceded_Access_Left, EXIST_Superceded_Access_Right, EXIST_Superceded_Conventional, PROPOSED, PROPOSED_Access_Left, PROPOSED_Access_Left_Ticks, PROPOSED_Access_Left_Ticks_Detail-5, PROPOSED_Access_Left_Ticks_Detail-10, | |

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|---------------------------------|---|-------------------|
| | PROPOSED_Access_Left_Ticks_Detail-20, PROPOSED_Access_Left_Ticks_Detail-30, PROPOSED_Access_Left_Ticks_Detail-40, PROPOSED_Access_Left_Ticks_Other, PROPOSED_Access_Right, PROPOSED_Access_Right_Ticks, PROPOSED_Access_Right_Ticks_Detail-5, PROPOSED_Access_Right_Ticks_Detail-10, PROPOSED_Access_Right_Ticks_Detail-20, PROPOSED_Access_Right_Ticks_Detail-30, PROPOSED_Access_Right_Ticks_Detail-40, PROPOSED_Access_Right_Ticks_Other, PROPOSED_anno, PROPOSED_Conventional, PROPOSED_point, PROPOSED_point_anno | |
| rw_topo | anno, anno_TABLE, Images, Notes, point, point_anno, point_NON_STANDARD, Reference_Files, Wipeout_Areas | |
| | Calcs, Calcs_anno | no_plot |
| topo_dtm | cont_anno, cont_anno_deck, cont_index, cont_index_deck, cont_inter, cont_inter_deck, pt, tri | drop |
| | | info_only |
| | anno, bndy, bndy_deck | info_only |
| topo_profile | | |
| | anno | |
| topo_section | | |
| | anno | |
| bndy | anno, void | drop |
| | gnv, map_lmt, ortho | info_only |
| topo_al, ph | data | info_only |
| topo_al, ph | MISC_check, MISC_one, MISC_two | no_plot |

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|---------------------------------|--|-------------------|
| topo_su | LINE_PTS | info_only |
| ctrl | LNWK, point_AS_STAKED, point_FD, point_FD_anno, point_MON, point_MON_anno | |
| | DIRECTION, LINE_PTS | info_only |
| | point_FD, point_FD_anno | no_plot |
| dtm | anno, brk_gnv, brk_spot_anno, brk_spot_anno_deck, brk_spot_anno_subterranean, brk_spot_anno_underside, brk_spot, brk_spot_deck, brk_spot_subterranean, brk_spot_underside, cont_index_anno, cont_index, cont_index_deck, cont_inter, cont_inter_deck | info_only |
| hydro | anno, df_CULV, df_CULV_FL, df_MISC, df_MISC_CLO, df_OPEN, df_STR_deck, df_STR, FL, MISC, WATER, WATER_HWAT | drop |
| | anno, LINE_PTS | info_only |
| rdbed | anno, AC, AC_deck, CONC, CONC_deck, CURB, CURB_deck, DIKE, DIKE_deck, DIRT, DIRT_deck, FL, FL_deck, MISC, MISC_deck, ROCK | drop |
| | anno, LINE_PTS | info_only |
| rdside | anno, AC, AC_deck, CONC, CONC_deck, CURB, CURB_deck, DIKE, DIKE_deck, DIRT, DIRT_deck, FENCE, FENCE_deck, FENCE_POST, FL, FL_deck, MISC, MISC_BOLLARD, MISC_deck, MISC_DWS, MISC_FP, ROCK, RR, RR_APPR, RR_deck, RR_POST, SLIDE, SW, SW_deck | drop |
| | anno, anno_deck, LINE_PTS | info_only |
| str | anno, anno_deck, ABUTWW, BLDG, BLDG_deck, BRDG_RAIL_deck, COL, GIRDER, MISC, MISC_deck, MISC_underside, PN_deck, SUBTERR, WALL, WALL_deck | drop |
| | anno, anno_deck, anno_subterranean, anno_underside, LINE_PTS, LINE_PTS_deck, LINE_PTS_subterranean, LINE_PTS_underside | info_only |

| Discipline & Quality | Object Type_Data Group_Data Details | Plot Style |
|---------------------------------|---|-------------------|
| study | anno | drop |
| | brk_gnv, brk_spot, brk_spot_deck, brk_spot_underside, hydro, water | info_only |
| tcd | anno, BARRIER, BARRIER_deck, MARKER, MARKER_deck, MARKER_GUIDE, MARKING, MARKING_deck, MARKING_LL, MARKING_LL_deck, MISC, MISC_CC, MISC_deck, SIGN | drop |
| | anno, anno_deck, LINE_PTS | info_only |
| ut | APPR, APPR_SPR, CAB, CABLE, COND, LTG, MARKER, METER, MH, MISC, OH, PB, POLE, UG, VALVE, VAULT | |
| | anno, APPR, LTG, MISC, POLE | drop |
| | anno, LINE_PTS | info_only |
| veg | anno, MISC, TREE | drop |
| | anno, LINE_PTS | info_only |
| topo | TopoDOT_Data_Tiles, TopoDOT_PT_Blue, TopoDOT_PT_Green, TopoDOT_PT_Orange, TopoDOT_PT_Red, TopoDOT_PT_Teal, TopoDOT_PT_Yellow, TopoDOT_Scan_Postions, TopoDOT_SurveyPT, TopoDOT_TEMP | info_only |
| topo_al, ml | POINT_CLOUD | |

Named Levels – Structures

The named level convention used to represent Structures data is made up of four parts. The first part is used for group name and can be used for level filtering purposes, lower case letters are used for group names. The second part of the level name is prefixed with an underscore character ('_'), it describes the specific item, task or sheet the level pertains to and uses title case for task name. Task name is followed by an optional sub-task name using the title case; task name and optional subtask names are separated using a hyphen character ('-'). The optional third part of the level name is prefixed with a hyphen character ('-') and it is used to indicate the level's plot designation using all lower-case letters or title case letters. The optional fourth part of the level name describes the data designation of the elements in the level. A single uppercase letter prefixed with a hyphen character ('-') is used

as data designation for the level. This uppercase letter is used for separation or grouping of elements having similar properties in the same level.

Level names for structures uses one of the following styles:

1. **groupname_Taskname-Subtaskname-plotdesignation-DATADESIGNATION**
2. **groupname_Taskname-Subtaskname-PlotDesignation-DATADESIGNATION**

Group Name Designations:

| Group Name/Filter Name | Description |
|------------------------|---|
| str | Structural elements and related information |

Task name and Plot Style:

| Task name-Subtask name | Plot Designation | Data Designation |
|--|------------------|------------------|
| Guideline, Arch-Treatment, As-Built-Changes, Border, Border-Plot-Shape, Border-PSE-OE-Rsvrd, Border-PSE-Seal, Border-PSE-Signature, Border-Text, Border-Title-Block, CCO-Changes, Center-Line, Concrete, Deck-Contours, Dimensions, Dropout, Engineering-Notes, Existing-Arch-Treatment, Existing, Existing-Arch-Treatment, Existing-Concrete, Existing-Non-Metallic, Existing-Railroad, Existing-Reinforcement, Existing-Roadway, Existing-Steel, Existing-Utilities, Existing-Wood, Grades, Grades-Exec-Backfill, Grades-Finish-Grade, Grades-Major-Grades, Grades-Minor-Grades, Grades-Original-Ground, Grades-Slope-Protection, Grades-Top-Toe-Slope, Grades-Water, Hatching, Layout, Masking-Shape, Misc-Steel, Non-Metallic-Components, Prestressed-Components, Prestressed-Components, Railroad, Reinforcement, Structural-Steel, Text, Utilities, Wood | NoPlot, dither | A, B, C, D... |

Named Level convention drops out or does not print the information as follows:

| Level Name | Content |
|-------------------------------------|----------------|
| * * drop, * * dropout | Dropout |
| * * dither (see Note below table) | Dropout |
| * * no_plot, * * noplot, * * NoPlot | Does not print |
| * * info_only | Does not print |

Note: Level names ending with “_dither” are being replaced with level names ending with “_drop” in the latest dgnlib files. Support for level names ending with “_dither” will still be available when plotting.

2. Summary of Highway/Landscape levels is as follows:

Pre-V8

| Level | Content |
|-------|--|
| 1 | Control (Includes Survey Monuments) |
| 2 | Existing Manmade Features |
| 3 | Existing Roadway Features |
| 4 | Existing Vegetation and Natural Features |
| 5 | Existing Utilities and Utility Facilities |
| 6 | Existing Hydrographic Features |
| 7 | Relief Features - Contours |
| 8 | Spot Elevations and Contour Annotations |
| 9 | Profile Grid |
| 10 | Border Sheets & Seal Information |
| 11 | Break Line, Terrain Features for 3D & Profile Grid |
| 12 | Coordinate Grid Ticks and Labels and Construction Staking Survey Control Data |
| 13 | Ramp, Over and Under Crossing Alignment Data |
| 14 | Ramp, Over and Under Crossing Annotation |
| 15 | Mainline Alignment Data |
| 16 | Mainline Alignment Annotation |
| 17 | Frontage Road Alignment Data |
| 18 | Frontage Road Alignment Annotation |
| 19 | Undefined |
| 20 | Pavement Edges |
| 21 | Curbs, Gutters, Dikes, Overside & Edge drains |
| 22 | Miscellaneous Construction Features |
| 23 | Layout Notes |
| 24 | Obliteration, AC Resurfacing & Cold Planing |
| 25 | Temporary Road Connections and Alignments, also for Railroad, Bike & Pedestrian Paths & Creek Alignments |

| Level | Content |
|--------------|--|
| 26 | Undefined |
| 27 | Undefined |
| 28 | Undefined |
| 29 | Existing Irrigation - Includes Annotation |
| 30 | Cut and Fill Data |
| 31 | Existing Right of Way Boundaries |
| 32 | New Right of Way, Fences & ESA's |
| 33 | Right of Way Text & Annotation |
| 34 | Temporary Water Pollution Control |
| 35 | Permanent Erosion Control |
| 36 | Drainage |
| 37 | Drainage Annotation |
| 38 | Sanitary Sewer |
| 39 | Sanitary Sewer Annotation |
| 40 | New Utilities - Includes Annotation |
| 41 | Contour Grading |
| 42 | Pavement Elevations |
| 43 | Pavement Markers and Striping |
| 44 | Pavement Markers and Striping Annotation |
| 45 | Signing |
| 46 | Construction Area Signing |
| 47 | Electrical |
| 48 | Electrical Annotation |
| 49 | Planting and Landscaping |
| 50 | New Irrigation - Includes Annotation |
| 51 | Stage 1 Construction and Temporary Traffic Facilities |
| 52 | Stage 1 Construction and Temporary Traffic Facilities Annotation |
| 53 | Stage 2 Construction and Temporary Traffic Facilities |
| 54 | Stage 2 Construction and Temporary Traffic Facilities Annotation |
| 55 | Stage 3 Construction and Temporary Traffic Facilities |
| 56 | Stage 3 Construction and Temporary Traffic Facilities Annotation |
| 57 | Undefined |
| 58 | Sound Walls & Retaining Walls |
| 59 | Sound Walls & Retaining Walls Annotation |
| 60* | Non-geographical Drawing Data* |
| 61 | Headquarters Changes |
| 62 | As-Built Changes |
| 63 | Engineer's Signature |

(*) in a Pre-V8 MicroStation design file, Key Map; Title Sheet; Profiles; Typical Cross Sections; Superelevation Diagrams, Construction Details

and Quantity of Summaries should reside on Level 60. Using Level 60 for multiple purposes works because each type of sheet is a separate DGN file. When creating additional base maps (e.g., for Stage Construction) in a Pre-V8 MicroStation design file, level 11 (which is a drop out level) can be used to move or copy the proposed line work from the previous stage to. This would facilitate showing already constructed design information as dropped out for a later stage within the constructing or sequencing of a project. In a dgn file using the “V8 Standards” convention, information may be separated, if desired, and placed on any of the undefined levels between 75 and 100 when working with only one model. Undefined levels may be used for information that has not been assigned to a specific level. Levels 896 through 900 have been set aside as Undefined (miscellaneous) dropout levels for roadway projects. In a dgn file using the “V8 Standards” convention, levels 871 to 890 have been set aside to facilitate the dropping out of the line work from previous stages when working with only one model.

Levels for Highway projects using the V8 Standards convention are as follows:

V8 Standards

| Level(s) | Content |
|-----------------|---|
| 64 - 69 | Information on these levels will not plot |
| 70 | Plot shape for lplot – will not plot |
| 71-74 | Additional Survey information for Roadway Design |
| 75-100 | Undefined Roadway levels when using one Model |
| 128 | Existing Easement line work |
| 129 | Existing Easement annotation |
| 130 | Existing R/W annotation |
| 131 | Existing R/W line work |
| 132 | New R/W line work |
| 133 | New R/W annotation |
| 134 | New Easement line work |
| 135 | New Easement annotation |
| 136 | Temporary Easement line work |
| 137 | Temporary Easement annotation |
| 812-849 | Utilities - each level is a unique Caltrans custom line style |
| 871-890 | For dropping out line work from previous stage |
| 891-895 | For dropping out design info on striping sheets |
| 896-900 | Miscellaneous dropout |
| 966-999 | For Stage Construction – stages 4 through 20 |

Levels for Highway projects using the Named Levels convention are as follows:

Named Levels

| Level Names | Content |
|------------------------|--|
| *_no_plot, *_info_only | Information on these levels will not print/plot |
| align_* | Levels used for storing alignment data |
| df_* | Levels used for storing drainage work |
| es_* | Levels used for storing electrical work |
| esa_ | Levels used for storing information about environmentally sensitive areas |
| adv_*, gis_* | Levels used for storing advance planning information and GIS shape file data. |
| ls_* | Levels used for storing Landscape data |
| mc_* | Levels used for storing data for miscellaneous construction item work. |
| border_*, pp_* | Levels used for storing sheet elements, project control, locations of construction, title sheet, title sheet data, raster data, motorist information, construction area signs, As-built data, addendum data, license seal & signature, grid line and clip frame information. |
| rd_* | Levels used for storing roadway data |
| rw_* | Levels used for storing right of way data |
| topo_* | Levels used for storing survey data, survey baselines, project control monument, aerial & mobile Lidar, Photo data, Bathymetry and DTM surface related information |
| stage_* | Levels used for storing stage construction information |
| temp_* | Levels used for storing information about temporary items of work |
| tcd_* | Levels used to store traffic control device data including signs and striping |
| ut_* | Levels used for storing utility data |
| vis_* | Levels used for storing visualization information |
| wall_* | Levels used for storing retaining wall information |
| wpc_* | Levels used for storing information about temporary and permanent water pollution control item work |

3. For projects using Pre-V8 and V8 Standards convention, the following table identifies the levels, their associated color and the specific information belonging on each level for Highway/Landscape Construction projects.

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|------------------|---------------------------------|--|---|
| 1 | Violet/5 | Control | All photo control data, and topographic map survey information. Also includes district-added control information. |
| 2 | Yellow/4 | Existing Manmade Features | All existing man-made features not otherwise included in any other level, includes all buildings. |
| 3 | Yellow/4 | Existing Roadway Features | Edges of existing surfaced areas accessible to vehicles, bicycles or pedestrians within the Existing Roadway limits. Examples of Roadway Features are traveled way, edge of pavement lane striping and dikes. The limits of the Existing Roadway are the outside edges of the existing surfaced shoulders, curbs or dikes. Roadway includes all public highways, streets, surfaced and unsurfaced roads, and railroads if the railroads are being improved as part of the project. Roadway does NOT include private roads such as driveways, ranch roads, parking lot streets and roads and streets within large commercial establishments. Railroads (not to be improved), private roads, guard railing, median barriers, right of way fences, existing sidewalks contiguous to the outside curbs are to be placed on Level 2. |
| 4 | Green/2 | Existing Vegetation and Natural Features | All natural vegetation, existing highway plantings, orchards, vineyards, marshes, and miscellaneous natural features such as rock outcrops, slides, etc. |
| 5 | Orange/6 (Note 1) | Existing Utilities and Utility Features | All existing underground and aboveground utility-type facilities (including signals, power and telephone poles and transmission poles for utility, railroad, highway, street, and private improvements.) All existing drainage structures including culverts and headwalls, excluding substantial structures such as buildings. Also, includes district-added underground utilities. |
| 6 | Blue/1 | Existing Hydro-graphic Features | All lakes, rivers, streams, natural channels, swamps, and standing water. |

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|------------------|---------------------------------|--|--|
| 7 | Brown/7 | Relief Features Contour Lines Only | Contours (lines only) of the original terrain. |
| 8 | Brown/7 | Spot Elevations and Contour Elevation Annotation | Spot elevations and contour elevation annotation. |
| 9 | Red/3 | Profile Grid | Dropout grid for full profile and combination plan and profile standard sheets (red grid lines). |
| 10 | White/0 | Border Sheets | Standard Border Sheets, Project Engineer's seal information, printed names of engineers, District-County-Route-Post Mile block, plan sheet name, match lines & north arrow (information associated with the border). |
| 11 | White/0 & Green/2 | Terrain features for dtm, profile grid and dropout level for base maps | Terrain features that define the ground surface for a 3D digital terrain model. Green grid lines for profile sheets. Can be used for dropping out information on non-dropout levels for possible additional base maps. |
| 12 | Violet/5 | Coordinate Grid | Coordinate grid ticks and labels. Construction Staking Survey Control Data. |
| 13 | White/0 | Ramp, Over & Under Crossing Alignment | Ramp, Over Crossing & Under Crossing alignment(s), includes station line and tick marks. |
| 14 | White/0 | Ramp, Over & Under Crossing Annotation | Ramp, Over & Under Crossing annotation, includes Route designation, alignment bearing and station number. |
| 15 | White/0 | Mainline Alignment | Mainline Alignment(s) for the main roadways, includes station line, station number and tick marks. |
| 16 | White/0 | Mainline Alignment Annotation | Mainline Alignment Annotation, includes Route designation, alignment bearing. |
| 17 | White/0 | Frontage Road Alignment | Frontage Road Alignment(s), includes station line, station number and tick marks. |
| 18 | White/0 | Frontage Road Alignment Annotation | Frontage Road Annotation, includes Route designation, alignment bearing. |
| 19 | White/0 | Undefined | |
| 20 | White/0 | Pavement Edges | All lines necessary to depict the edges of pavement to be constructed, including traveled |

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|----------------------|---|--|
| | | | way, shoulders, road approaches and driveways. |
| 21 | White/0 | Curbs, Gutters, Dikes and Drains | All drawing information required to depict curbs, gutters, dikes, overside & edge drains, includes annotation. |
| 22 | White/0 | Miscellaneous Construction Features | All drawing information required to depict the construction shown on the layout plan, not specifically on other levels; e.g., new railings & barriers, crash cushions, sidewalks, bridge structures, miscellaneous paved areas. |
| 23 | White/0 | Layout Notes | All notes, dimensions, and labeling required to describe the construction shown on the layout plan sheets, (except annotation specifically included on other levels) includes related lines and symbols such as leader lines, arrows, arrowheads, curve table, and legend. |
| 24 | Red/3 | Obliteration and AC Resurfacing | All drawing information required to depict planing, grinding, obliterating and resurfacing of roadways. |
| 25 | Red/3 | Temporary Road Connections and Alignments | All drawing information required to describe temporary road connections alignments, includes station line, tick marks and annotation. Also alignments for Railroad, Bike Paths, Creeks & Pedestrian Paths. |
| 26 | White/0 | Undefined | |
| 27 | White/0 | Undefined | |
| 28 | White/0 | Undefined | |
| 29 | Brown/7 | Existing Irrigation | All drawing information required to describe existing irrigation facilities, includes annotation. |
| 30 | Red/3 | Cut & Fill Data | All drawing data required to describe the top of cut or toe of slope, includes annotation. |
| 31 | Orange/6 | Existing Right of Way Boundaries | All drawing information required to describe property lines, township lines, section lines, existing Right of Way lines, existing easement lines. |
| 32 | Orange/6 | New Right of Way Lines and Fences | All drawing information required to describe proposed Right of Way lines, easement lines, rights of entry, controlled access, fences and ESA boundaries and fences – (if too cluttered, then put on undefined level). |
| 33 | Orange/6 | Right of Way Text | All Text and Annotation that describes new and existing Right of Way on levels 31 and 32. |
| 34 | Orange/6 | Temporary | All drawing information required to describe |

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|----------------------|--|---|
| | 6 | Water Pollution Control | Temporary Water Pollution Control, includes annotation. |
| 35 | Orange/6 | Permanent Erosion Control | All drawing information required to describe Permanent Erosion Control, includes annotation. |
| 36 | Blue/1 | Drainage | All drawing information required to describe drainage facilities to be constructed, including pipes, box culverts, headwalls, manholes, surfaced & unsurfaced ditches, ABM gutters and drains. Also includes irrigation facilities, except those included on Levels 29 or 50. |
| 37 | Blue/1 | Drainage Annotation | All Annotation that describes drainage facilities. |
| 38 | Violet/5 | Sanitary Sewer | All drawing information required to describe sanitary sewer facilities to be constructed, including manholes and sewer lines. |
| 39 | Violet/5 | Sanitary Sewer Annotation | All Annotation that describes sanitary sewer facilities. |
| 40 | Yellow/4 (Note 1) | New Utilities | All drawing information required to describe utility relocation work above and below ground, includes annotation. (See Note 1 for chosen Caltrans colors associated with a particular utility). |
| 41 | Violet/5 | Contour Grading | Proposed grading contours, slope lines, bench lines, includes annotation. |
| 42 | White/0 | Pavement Elevations | Elevation of pavement, shoulders, curbs, and gutters. |
| 43 | Red/3 | Pavement Markers and Striping | All drawing information required to describe pavement markers, striping and markings. |
| 44 | Red/3 | Pavement Markers and Striping Annotation | All annotation that describes pavement markers, striping and markings. |
| 45 | Red/3 | Signing | All drawing information required to describe sign installations, guide markers, etc., includes annotation. |
| 46 | Red/3 | Construction Area Signing | All drawing information required to describe Construction Area signing, including tables, details and annotation. |
| 47 | White/0 (Note 2) | Electrical | All drawing information required to describe signal and lighting installations. |
| 48 | Yellow/4 | Electrical | All annotation that describes signal and lighting |

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|----------------------|--|--|
| | | Annotation | installations. |
| 49 | Green/2 | Planting and Landscaping | All drawing information required to describe highway planting, landscaping, erosion control, etc., includes annotation. |
| 50 | Blue/1 | New Irrigation | All drawing information required to describe new irrigation facilities for highway planting and landscaping (shown on Level 49), includes annotation. (The construction of other irrigation facilities is to be included on Level 36.) |
| 51 | Red/3 | Stage 1 Construction and Temporary Traffic Facilities | All drawing information required to describe detours, sequences of construction, temporary barriers, temporary drainage requirements, etc. This level also accommodates Stage 4, Stage 7, etc., if necessary. |
| 52 | Red/3 | Stage 1 Construction and Temporary Traffic Facilities Annotation | All annotation that describes detours and sequences of construction. This level also accommodates annotation for Stage 4, Stage 7, etc., if necessary. |
| 53 | Red/3 | Stage 2 Construction and Temporary Traffic Facilities | All drawing information required to describe detours, sequences of construction, temporary barriers, temporary drainage requirements, etc. This level also accommodates Stage 5, Stage 8, etc., if necessary. |
| 54 | Red/3 | Stage 2 Construction and Temporary Traffic Facilities Annotation | All annotation that describes detours and sequences of construction. This level also accommodates annotation for Stage 5, Stage 8, etc., if necessary. |
| 55 | Red/3 | Stage 3 Construction and Temporary Traffic Facilities | All drawing information required to describe detours, sequences of construction, temporary barriers, temporary drainage requirements, etc. This level also accommodates Stage 6, Stage 9, etc., if necessary. |
| 56 | Red/3 | Stage 3 Construction and Temporary Traffic Facilities Annotation | All annotation that describes detours and sequences of construction. This level also accommodates annotation for Stage 6, Stage 9, etc., if necessary. |
| 57 | White/0 | Undefined | |
| 58 | White/0 | Sound Wall and Retaining | All drawing information required to depict the construction of Sound Walls and Retaining |

| LEVEL NO. | COLOR/ NAME & NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|--------------------------|--|---|
| | | Wall | Walls, includes the plan and elevation views. |
| 59 | White/0 | Sound Wall and Retaining Wall Annotation | All annotation that describes sound walls and retaining walls, includes curve table for layout lines of walls. |
| 60 | White/0 | Non-geographical Drawing Data | All drawing information that is non-geographical, such as, details, sectional views, cross sections, profiles, quantities and strip maps. Plan sheets that typically place elements on this level include: Title sheet, Typical Cross Sections, Key Map, Profiles, Superelevation Diagrams, Construction Details and Summary of Quantities. |
| 61 | Yellow/4 | Headquarter Changes | All final plan revisions performed by HQ Office Engineer after PS&E Submittal and before Advertising and Award. |
| 62 | Red/3 | As-Built Changes | Changes made during construction that need to be shown on the signed original plans. Revisions are depicted by lining out the original information (do not obscure) and placing the new information. |
| 63 | White/0 & Red/3 (Note 3) | Engineer's Signature | Project Engineer's signature. Identification stamps for electronic As-Awarded plans and electronic As-Built plans. |

For projects using Named Level convention the following tables identify the Level number and the corresponding Level name for non-Right of Way and Structures Design levels.

| Number | Name | Description |
|--------|--------------------------------|---|
| 1000 | topo_ph_bndy_anno_drop | Photo data - Annotation of boundary features |
| 1001 | topo_ph_bndy_gnv_info_only | Photo data - GNV boundary shape |
| 1002 | topo_ph_bndy_map_lmt_info_only | Photo data - Mapping Limits |
| 1003 | topo_ph_bndy_ortho_info_only | Photo data - Ortho imagery tiles |
| 1004 | topo_ph_bndy_void_drop | Photo data - Void boundary shape |
| 1005 | topo_ph_dtm_anno_drop | Photo data - Annotation for DTM features - spot elevation text including bridge deck spots (floating) |

| Number | Name | Description |
|---------------|-------------------------------------|---|
| 1006 | topo_ph_dtm_brk_spot_info_only | Photo data - Random breaklines, spots and mass points in ground DTM areas |
| 1007 | topo_ph_dtm_cont_index_anno_drop | Photo data - Index contour annotation including floating contour annotation |
| 1008 | topo_ph_dtm_cont_index_drop | Photo data - Index, index GNV, index depression, index depression GNV |
| 1009 | topo_ph_dtm_cont_inter_drop | Photo data - Intermediate contour, intermediate GNV, intermediate depression, intermediate depression GNV |
| 1010 | topo_ph_dtm_brk_spot_deck_info_only | Photo data - Random breaklines, spots and mass points on bridge deck DTM areas |
| 1011 | topo_ph_dtm_cont_index_deck_drop | Photo data - Float index contours - all linestyles |
| 1012 | topo_ph_dtm_cont_inter_deck_drop | Photo data - Float intermediate contours - all linestyles |
| 1013 | topo_ph_dtm_brk_gnv_info_only | Photo data - GNV breaklines in ground DTM areas |
| 1014 | topo_ph_hydro_anno_drop | Photo data - Annotation for all hydrographic features |
| 1015 | topo_ph_hydro_df_STR_drop | Photo data - Drainage facility structures on ground surfaces including drop inlets, exposed drainage pipes, headwalls, etc. |
| 1016 | topo_ph_hydro_WATER_drop | Photo data - Water Edges (non flowing); Flowlines through natural or manmade structures |
| 1017 | topo_ph_MISC_check_no_plot | Photo data - Miscellaneous lines and text with editing information |
| 1018 | topo_ph_MISC_one_no_plot | Photo data - Data cleaning and processing |
| 1019 | topo_ph_MISC_two_no_plot | Photo data - Data cleaning and processing |
| 1020 | topo_ph_rdbed_anno_drop | Photo data - Annotation for roadbed features |
| 1021 | topo_ph_rdbed_AC_drop | Photo data - Asphalt features in roadbed areas on ground surfaces |
| 1022 | topo_ph_rdbed_CONC_drop | Photo data - Concrete features in roadbed areas on ground surfaces |

| Number | Name | Description |
|---------------|---------------------------|--|
| 1023 | topo_ph_rdbed_CURB_drop | Photo data - Curbs in roadbed areas |
| 1024 | topo_ph_rdbed_DIKE_drop | Photo data - Dikes in roadbed areas |
| 1025 | topo_ph_rdbed_DIRT_drop | Photo data - Dirt features in roadbed areas |
| 1026 | topo_ph_rdbed_MISC_drop | Photo data - Miscellaneous roadbed features: cattle guards and other roadbed features not already assigned to a level |
| 1027 | topo_ph_rdbed_ROCK_drop | Photo data - Rock features in roadbed areas |
| 1028 | topo_ph_rdside_anno_drop | Photo data - Annotation for roadside features |
| 1029 | topo_ph_rdside_AC_drop | Photo data - Asphalt features in roadside areas including driveways, paths, etc. |
| 1030 | topo_ph_rdside_CONC_drop | Photo data - Concrete features in roadside areas including driveways, paths, etc. |
| 1031 | topo_ph_rdside_CURB_drop | Photo data - Curbs in roadside areas |
| 1032 | topo_ph_rdside_DIKE_drop | Photo data - Dikes in roadside areas |
| 1033 | topo_ph_rdside_DIRT_drop | Photo data - Dirt features in roadside areas including trails and other dirt areas |
| 1034 | topo_ph_rdside_Fence_drop | Photo data - Fences, gates & gate posts |
| 1035 | topo_ph_rdside_MISC_drop | Photo data - Miscellaneous roadside features including posts, flag poles, tanks, miscellaneous boundaries for areas under construction and ruins and other roadside features not already assigned to a level |
| 1036 | topo_ph_rdside_ROCK_drop | Photo data - Edges of rock areas & edges of rock slope protection areas, large individual rocks |
| 1037 | topo_ph_rdside_RR_drop | Photo data - Railroad rails |
| 1038 | topo_ph_str_anno_drop | Photo data - Annotation for ground surface structures features |
| 1039 | topo_ph_str_BLDG_drop | Photo data - Buildings, decks, covered patios, carports, stairs |

| Number | Name | Description |
|---------------|---------------------------------------|--|
| | | and ramps etc. |
| 1040 | topo_ph_str_anno_deck_drop | Photo data - Annotation for bridge deck features |
| 1041 | topo_ph_tcd_BARRIER_deck_drop | Photo data - Barriers & rails on bridge decks |
| 1042 | topo_ph_rdbed_AC_deck_drop | Photo data - Asphalt features in roadbed areas on bridge decks |
| 1043 | topo_ph_rdbed_CONC_deck_drop | Photo data - Concrete features in roadbed areas on bridge decks |
| 1044 | topo_ph_rdbed_CURB_deck_drop | Photo data - Curbs on bridge decks |
| 1045 | topo_ph_tcd_MARKING_deck_drop | Photo data - Pavement marking on bridge decks including ETW, lane lines, stripes, etc. |
| 1046 | topo_ph_str_MISC_deck_drop | Photo data - Miscellaneous bridge deck features |
| 1047 | topo_ph_str_PN_deck_drop | Photo data - Paving notch (back stem wall of the abutment) |
| 1048 | topo_ph_str_WALL_drop | Photo data - Walls including crib, retaining, masonry & sound walls |
| 1049 | topo_ph_study_anno_drop | Photo data - Annotation of study features |
| 1050 | topo_ph_study_brk_spot_info_only | Photo data - Breaklines and masspoints for +/- 2.5 ft surface in ground DTM areas |
| 1051 | topo_ph_study_brk_spot_deck_info_only | Photo data - Breaklines and masspoints for +/- 2.5 ft surface in bridge deck DTM areas |
| 1052 | topo_ph_study_brk_gnv_info_only | Photo data - GNV breaklines for +/- 2.5 ft surface in ground DTM areas |
| 1053 | topo_ph_study_water_info_only | Photo data - Flowline and edge of water body for +/- 2.5 ft surface |
| 1054 | topo_ph_tcd_anno_drop | Photo data - Annotation for sign, markers & marking features |
| 1055 | topo_ph_tcd_BARRIER_drop | Photo data - Barriers & rails on ground surfaces |
| 1056 | topo_ph_tcd_MARKING_drop | Photo data - Pavement marking including lane lines, crosswalks, stripes etc. |
| 1057 | topo_ph_tcd_MISC_drop | Photo data - Miscellaneous traffic control features including crash cushions, K-rail, etc. |
| 1058 | topo_ph_tcd_SIGN_drop | Photo data - Signs |

| Number | Name | Description |
|---------------|---------------------------------|--|
| 1059 | topo_ph_ut_anno_drop | Photo data - Annotation for utility features |
| 1060 | topo_ph_ut_APPR_drop | Photo data - Utility appurtenances - standpipes and wells |
| 1061 | topo_ph_ut_LTG_drop | Photo data - Lighting including electroliers, lamp posts, pole-arm-electrolier, traffic signals, railroad signals, etc. |
| 1062 | topo_ph_ut_MISC_drop | Photo data - Miscellaneous utility features including call boxes, fire hydrants, manholes, call boxes, and transmission towers |
| 1063 | topo_ph_ut_POLE_drop | Photo data - Individual power poles, utility poles, guy anchors |
| 1064 | topo_ph_veg_anno_drop | Photo data - Annotation for vegetation features |
| 1065 | topo_ph_veg_drop | Photo data - Trees, brush, marsh, vineyards, orchards |
| 1066 | border_topo_GridTicks_info_only | Grid ticks with annotation |
| 1067 | border_topo_ph_ctrl_info_only | Photogrammetric photo centers and ground control |
| 1068 | topo_ph_data_info_only | Photo data - General photo data including file layout diagram, title block and north arrow |
| 1069 | topo_ph_hydro_df_STR_deck_drop | Photo data - Drainage facility structures on bridge decks including drop inlets |
| 1100 | topo_al_bndy_anno_drop | Aerial LiDAR data - Annotation of boundary features |
| 1101 | topo_al_bndy_gnv_info_only | Aerial LiDAR data - GNV boundary shape |
| 1102 | topo_al_bndy_map_lmt_info_only | Aerial LiDAR data - Mapping Limits |
| 1103 | topo_al_bndy_ortho_info_only | Aerial LiDAR data - Ortho imagery tiles |
| 1104 | topo_al_bndy_void_drop | Aerial LiDAR data - Void boundary shape |
| 1105 | topo_al_data_info_only | Aerial LiDAR data - General aerial LiDAR data including file layout diagram, title block and north arrow |
| 1106 | topo_al_dtm_anno_drop | Aerial LiDAR data - Annotation for DTM features - spot elevation text including bridge deck spots (floating) |

| Number | Name | Description |
|---------------|-------------------------------------|--|
| 1107 | topo_al_dtm_brk_spot_info_only | Aerial LiDAR data - Random breaklines, spots and mass points in ground DTM areas |
| 1108 | topo_al_dtm_cont_index_anno_drop | Aerial LiDAR data - Index contour annotation including floating contour annotation |
| 1109 | topo_al_dtm_cont_index_drop | Aerial LiDAR data - Index, index GNV, index depression, index depression GNV |
| 1110 | topo_al_dtm_cont_inter_drop | Aerial LiDAR data - Intermediate contour, intermediate GNV, intermediate depression, intermediate depression GNV |
| 1111 | topo_al_dtm_brk_spot_deck_info_only | Aerial LiDAR data - Random breaklines, spots and mass points on bridge deck DTM areas |
| 1112 | topo_al_dtm_cont_index_deck_drop | Aerial LiDAR data - Float index contours - all linestyles |
| 1113 | topo_al_dtm_cont_inter_deck_drop | Aerial LiDAR data - Float intermediate contours - all linestyles |
| 1114 | topo_al_dtm_brk_gnv_info_only | Aerial LiDAR data - GNV breaklines in ground DTM areas |
| 1115 | topo_al_hydro_anno_drop | Aerial LiDAR data - Annotation for all hydrographic features |
| 1116 | topo_al_hydro_df_STR_deck_drop | Aerial LiDAR data - Drainage facility structures on bridge decks including drop inlets |
| 1117 | topo_al_hydro_df_STR_drop | Aerial LiDAR data - Drainage facility structures on ground surfaces including drop inlets, exposed drainage pipes, headwalls, etc. |
| 1118 | topo_al_hydro_WATER_drop | Aerial LiDAR data - Water Edges (non flowing); Flowlines through natural or manmade structures |
| 1119 | topo_al_MISC_check_no_plot | Aerial LiDAR data - Miscellaneous lines and text with editing information |
| 1120 | topo_al_MISC_one_no_plot | Aerial LiDAR data - Data cleaning and processing |
| 1121 | topo_al_MISC_two_no_plot | Aerial LiDAR data - Data cleaning and processing |
| 1122 | topo_al_POINT_CLOUD | Aerial LiDAR data - Point clouds and associated features |

| Number | Name | Description |
|---------------|------------------------------|--|
| 1123 | topo_al_rdbed_anno_drop | Aerial LiDAR data - Annotation for roadbed features |
| 1124 | topo_al_rdbed_AC_deck_drop | Aerial LiDAR data - Asphalt features in roadbed areas on bridge decks |
| 1125 | topo_al_rdbed_AC_drop | Aerial LiDAR data - Asphalt features in roadbed areas on ground surfaces |
| 1126 | topo_al_rdbed_CONC_deck_drop | Aerial LiDAR data - Concrete features in roadbed areas on bridge decks |
| 1127 | topo_al_rdbed_CONC_drop | Aerial LiDAR data - Concrete features in roadbed areas on ground surfaces |
| 1128 | topo_al_rdbed_CURB_deck_drop | Aerial LiDAR data - Curbs on bridge decks |
| 1129 | topo_al_rdbed_CURB_drop | Aerial LiDAR data - Curbs in roadbed areas |
| 1130 | topo_al_rdbed_DIKE_drop | Aerial LiDAR data - Dikes in roadbed areas |
| 1131 | topo_al_rdbed_DIRT_drop | Aerial LiDAR data - Dirt features in roadbed areas |
| 1132 | topo_al_rdbed_MISC_drop | Aerial LiDAR data - Miscellaneous roadbed features: cattle guards and other roadbed features not already assigned to a level |
| 1133 | topo_al_rdbed_ROCK_drop | Aerial LiDAR data - Rock features in roadbed areas |
| 1134 | topo_al_rdside_anno_drop | Aerial LiDAR data - Annotation for roadside features |
| 1135 | topo_al_rdside_AC_drop | Aerial LiDAR data - Asphalt features in roadside areas including driveways, paths, etc. |
| 1136 | topo_al_rdside_CONC_drop | Aerial LiDAR data - Concrete features in roadside areas including driveways, paths, etc. |
| 1137 | topo_al_rdside_CURB_drop | Aerial LiDAR data - Curbs in roadside areas |
| 1138 | topo_al_rdside_DIKE_drop | Aerial LiDAR data - Dikes in roadside areas |
| 1139 | topo_al_rdside_DIRT_drop | Aerial LiDAR data - Dirt features in roadside areas including trails and other dirt areas |
| 1140 | topo_al_rdside_MISC_drop | Aerial LiDAR data - |

| Number | Name | Description |
|--------|---------------------------------------|---|
| | | Miscellaneous roadside features including posts, flag poles, tanks, miscellaneous boundaries for areas under construction and ruins and other roadside features not already assigned to a level |
| 1141 | topo_al_rdside_ROCK_drop | Aerial LiDAR data - Edges of rock areas & edges of rock slope protection areas, large individual rocks |
| 1142 | topo_al_rdside_RR_drop | Aerial LiDAR data - Railroad rails |
| 1143 | topo_al_str_anno_drop | Aerial LiDAR data - Annotation for ground surface structures features |
| 1144 | topo_al_str_BLDG_drop | Aerial LiDAR data - Buildings, decks, covered patios, carports, stairs and ramps etc. |
| 1145 | topo_al_str_anno_deck_drop | Aerial LiDAR data - Annotation for bridge deck features |
| 1146 | topo_al_str_MISC_deck_drop | Aerial LiDAR data - Miscellaneous bridge deck features |
| 1147 | topo_al_str_PN_deck_drop | Aerial LiDAR data - Paving notch (back stem wall of the abutment) |
| 1148 | topo_al_rdside_Fence_drop | Aerial LiDAR data - Fences, gates & gate posts |
| 1149 | topo_al_str_WALL_drop | Aerial LiDAR data - Walls including crib, retaining, masonry & sound walls |
| 1150 | topo_al_study_anno_drop | Aerial LiDAR data - Annotation of study features |
| 1151 | topo_al_study_brk_spot_info_only | Aerial LiDAR data - Breaklines and masspoints for +/- 2.5 ft surface in ground DTM areas |
| 1152 | topo_al_study_brk_spot_deck_info_only | Aerial LiDAR data - Breaklines and masspoints for +/- 2.5 ft surface in bridge deck DTM areas |
| 1153 | topo_al_study_brk_gnv_info_only | Aerial LiDAR data - GNV breaklines for +/- 2.5 ft surface in ground DTM areas |
| 1154 | topo_al_study_water_info_only | Aerial LiDAR data - Flowline and edge of water body for +/- 2.5 ft surface |
| 1155 | topo_al_tcd_anno_drop | Aerial LiDAR data - Annotation for sign, markers & marking features |

| Number | Name | Description |
|---------------|----------------------------------|---|
| 1156 | topo_al_tcd_BARRIER_deck_drop | Aerial LiDAR data - Barriers & rails on bridge decks |
| 1157 | topo_al_tcd_BARRIER_drop | Aerial LiDAR data - Barriers & rails on ground surfaces |
| 1158 | topo_al_tcd_MARKING_deck_drop | Aerial LiDAR data - Pavement marking on bridge decks including ETW, lane lines, stripes, etc. |
| 1159 | topo_al_tcd_MARKING_drop | Aerial LiDAR data - Pavement marking including lane lines, crosswalks, stripes, etc. |
| 1160 | topo_al_tcd_MISC_drop | Aerial LiDAR data - Miscellaneous traffic control features including crash cushions, K-rail, etc. |
| 1161 | topo_al_tcd_SIGN_drop | Aerial LiDAR data - Signs |
| 1162 | topo_al_ut_anno_drop | Aerial LiDAR data - Annotation for utility features |
| 1163 | topo_al_ut_APPR_drop | Aerial LiDAR data - Utility appurtenances - standpipes and wells |
| 1164 | topo_al_ut_LTG_drop | Aerial LiDAR data - Lighting including electroliers, lamp posts, pole-arm- electrolier, traffic signals, railroad signals, etc. |
| 1165 | topo_al_ut_MISC_drop | Aerial LiDAR data - Miscellaneous utility features including call boxes, fire hydrants, manholes, call boxes, and transmission towers |
| 1166 | topo_al_ut_POLE_drop | Aerial LiDAR data - Individual power poles, utility poles, guy anchors |
| 1167 | topo_al_veg_anno_drop | Aerial LiDAR data - Annotation for vegetation features |
| 1168 | topo_al_veg_drop | Aerial LiDAR data - Trees, brush, marsh, vineyards, orchards |
| 1200 | topo_ba_dtm_brk_spot_info_only | Random breaklines, spots and mass points in ground (bottom) bathymetric DTM areas |
| 1300 | topo_su_ctrl_DIRECTION_info_only | Survey data - Linework indicating the direction to or from a feature |
| 1301 | topo_su_ctrl_LINE_PTS_info_only | Survey data - Points associated to control linework |
| 1302 | topo_su_ctrl_LNWK | Survey data - Surveyed found linework for retracement work |

| Number | Name | Description |
|---------------|---|--|
| 1303 | topo_su_ctrl_point_FD | Survey data - Surveyed found points |
| 1304 | topo_su_ctrl_point_FD_anno | Survey data - Annotation for surveyed found points |
| 1305 | topo_su_ctrl_point_MON | Survey data - Project control monuments |
| 1306 | topo_su_ctrl_point_MON_anno | Survey data - Annotation for project control monuments, including survey baselines |
| 1307 | topo_su_dtm_brk_spot_anno_deck_info_only | Survey data - Annotation for random breaklines, spot elevations and masspoints in bridge deck DTM areas |
| 1308 | topo_su_dtm_brk_spot_anno_info_only | Survey data - Annotation for random breaklines, spot elevations and masspoints in ground DTM areas |
| 1309 | topo_su_dtm_brk_spot_anno_underside_info_only | Survey data - Annotation for random breaklines, spot elevations and masspoints in bridge underside DTM areas |
| 1310 | topo_su_dtm_brk_spot_deck_info_only | Survey data - Random breaklines, spot elevations and masspoints in bridge deck DTM areas |
| 1311 | topo_su_dtm_brk_spot_info_only | Survey data - Random breaklines, spot elevations and masspoints in ground DTM areas |
| 1312 | topo_su_dtm_brk_spot_underside_info_only | Survey data - Random breaklines, spot elevations and masspoints in bridge underside DTM areas |
| 1313 | topo_su_hydro_anno_info_only | Survey data - Annotation for all hydrographic features |
| 1314 | topo_su_hydro_df_CULV_drop | Survey data - Culverts |
| 1315 | topo_su_hydro_df_MISC_drop | Survey data - Drainage facility appurtenances including cleanouts, flared end sections, vents, etc. |
| 1316 | topo_su_hydro_df_OPEN_drop | Survey data - Open drainage facilities including basins, canals, catch basins, ditches, spillways, etc. - all aspects except flowlines & random breaklines |
| 1317 | topo_su_hydro_df_STR_deck_drop | Survey data - Drainage facility structures on bridge decks including inlets |

| Number | Name | Description |
|---------------|----------------------------------|--|
| 1318 | topo_su_hydro_df_STR_drop | Survey data - Drainage facility structures on ground surfaces including inlets & outlets, headwalls, wingwalls, weirs, gates, etc. |
| 1319 | topo_su_hydro_FL_drop | Survey data - Flowlines of all hydrographic & drainage facilities |
| 1320 | topo_su_hydro_LINE_PTS_info_only | Survey data - Points associated to hydrographic linework |
| 1321 | topo_su_hydro_MISC_drop | Survey data - Miscellaneous hydrographic features |
| 1322 | topo_su_hydro_WATER_drop | Survey data - Edges, threads & high water marks of water features including streams, creeks, rivers, ponds, lakes, shorelines, pools, etc. |
| 1323 | topo_su_rdbed_AC_deck_drop | Survey data - Asphalt features in roadbed areas on bridge decks |
| 1324 | topo_su_rdbed_AC_drop | Survey data - Asphalt features in roadbed areas on ground surfaces |
| 1325 | topo_su_rdbed_anno_info_only | Survey data - Annotation for roadbed features |
| 1326 | topo_su_rdbed_CONC_deck_drop | Survey data - Concrete features in roadbed areas on bridge decks |
| 1327 | topo_su_rdbed_CONC_drop | Survey data - Concrete features in roadbed areas on ground surfaces |
| 1328 | topo_su_rdbed_CURB_deck_drop | Survey data - Curbs in roadbed areas on bridge decks |
| 1329 | topo_su_rdbed_CURB_drop | Survey data - Curbs in roadbed areas on ground surfaces |
| 1330 | topo_su_rdbed_DIKE_drop | Survey data - Dikes in roadbed areas |
| 1331 | topo_su_rdbed_DIRT_drop | Survey data - Dirt features in roadbed areas |
| 1332 | topo_su_rdbed_FL_deck_drop | Survey data - Flowlines in roadbed areas on bridge decks |
| 1333 | topo_su_rdbed_FL_drop | Survey data - Flowlines in roadbed areas on ground surfaces |
| 1334 | topo_su_rdbed_LINE_PTS_info_only | Survey data - Points associated to roadbed linework |
| 1335 | topo_su_rdbed_MISC_drop | Survey data - Miscellaneous roadbed features on ground |

| Number | Name | Description |
|--------|-----------------------------------|---|
| | | surfaces excluding asphalt, concrete & dirt lines - all aspects except flowlines & random breaklines - including roadbeds & cattle guards |
| 1336 | topo_su_rdbed_ROCK_drop | Survey data - Rock features in roadbed areas |
| 1337 | topo_su_rdside_AC_drop | Survey data - Asphalt features in roadside areas including driveways, parking lots, paths, etc. |
| 1338 | topo_su_rdside_anno_info_only | Survey data - Annotation for roadside features |
| 1339 | topo_su_rdside_CONC_drop | Survey data - Concrete features in roadside areas including driveways, parking lots, paths, etc. |
| 1340 | topo_su_rdside_DIRT_drop | Survey data - Dirt features in roadside areas including driveways, trails and other dirt areas |
| 1341 | topo_su_rdside_FL_drop | Survey data - Flowlines in roadside areas on ground surfaces |
| 1342 | topo_su_rdside_LINE_PTS_info_only | Survey data - Points associated to roadside linework |
| 1343 | topo_su_rdside_MISC_drop | Survey data - Miscellaneous roadside features on ground surfaces excluding asphalt, concrete, dirt & rock lines and all aspects except flowlines & random breaklines - includes bollards, driveways, flag poles, mailboxes, parking lots, tanks, trails, etc. |
| 1344 | topo_su_rdside_ROCK_drop | Survey data - Edges of rock areas & rock slope protection areas |
| 1345 | topo_su_rdside_RR_drop | Survey data - Railroad rails, ballast and appurtenances including switches & gate posts |
| 1346 | topo_su_rdside_SLIDE_drop | Survey data - Edges of slide areas |
| 1348 | topo_su_rdside_SW_drop | Survey data - Sidewalks |
| 1349 | topo_su_str_ABUTWW_drop | Survey data - Abutments & wing walls |

| Number | Name | Description |
|---------------|--|--|
| 1350 | topo_su_str_anno_deck_info_only | Survey data - Annotation for bridge deck features |
| 1351 | topo_su_str_anno_info_only | Survey data - Annotation for ground surface structures features |
| 1352 | topo_su_str_anno_underside_info_only | Survey data - Annotation for bridge underside features |
| 1353 | topo_su_str_BLDG_drop | Survey data - Buildings, decks, covered patios, carports, etc. |
| 1354 | topo_su_str_COL_drop | Survey data - Bents, columns & piers |
| 1357 | topo_su_str_GIRDER_drop | Survey data - Bridge girders |
| 1358 | topo_su_str_LINE_PTS_deck_info_only | Survey data - Points associated to bridge deck linework |
| 1359 | topo_su_str_LINE_PTS_info_only | Survey data - Points associated to ground surface structures linework |
| 1360 | topo_su_str_LINE_PTS_underside_info_only | Survey data - Points associated to bridge underside linework |
| 1361 | topo_su_str_MISC_deck_drop | Survey data - Miscellaneous bridge deck features |
| 1362 | topo_su_str_MISC_drop | Survey data - Miscellaneous structures features including structures slope protection, etc. |
| 1363 | topo_su_str_MISC_underside_drop | Survey data - Miscellaneous bridge underside features including bridge access openings, soffit, etc. |
| 1364 | topo_su_str_PN_deck_drop | Survey data - Paving notch (back stem wall of the abutment) |
| 1365 | topo_su_str_WALL_drop | Survey data - Walls including crib, masonry, retaining & sound walls |
| 1366 | topo_su_tcd_anno_info_only | Survey data - Annotation for sign, markers & marking features |
| 1367 | topo_su_tcd_BARRIER_deck_drop | Survey data - Barriers & rails on bridge decks |
| 1368 | topo_su_tcd_BARRIER_drop | Survey data - Barriers & rails on ground surfaces |
| 1369 | topo_su_tcd_LINE_PTS_info_only | Survey data - Points associated to sign & striping linework |
| 1370 | topo_su_tcd_MARKER_drop | Survey data - Non-utility related markers including guide posts, pavement markers, etc. |
| 1371 | topo_su_tcd_MARKING_deck_drop | Survey data - Pavement marking on bridge decks including lane |

| Number | Name | Description |
|---------------|-------------------------------|--|
| | | lines, stripes, etc. |
| 1372 | topo_su_tcd_MARKING_drop | Survey data - Pavement marking on ground surfaces including lane lines, crosswalks, stripes, turn arrows, etc. |
| 1373 | topo_su_tcd_MISC_drop | Survey data - Miscellaneous traffic control features including crash cushions, etc. |
| 1374 | topo_su_tcd_SIGN_drop | Survey data - Signs |
| 1375 | topo_su_ut_anno_info_only | Survey data - Annotation for utility features |
| 1376 | topo_su_ut_APPR | Survey data - Utility appurtenances including hose bibs, irrigation valves, sprinklers, standpipes, wells, etc. |
| 1377 | topo_su_ut_CAB | Survey data - Cabinets |
| 1378 | topo_su_ut_CABLE | Survey data - Cables when underground vs. overhead are unknown |
| 1379 | topo_su_ut_COND | Survey data - Conduit |
| 1380 | topo_su_ut_LINE_PTS_info_only | Survey data - Points associated to utility linework |
| 1381 | topo_su_ut_LTG | Survey data - Lighting including electroliers, lamp posts, pedestrian crosswalk buttons & signals, traffic signals, railroad signals, etc. |
| 1382 | topo_su_ut_MARKER | Survey data - Utility markers |
| 1383 | topo_su_ut_METER | Survey data - Meters |
| 1384 | topo_su_ut_MH | Survey data - Manholes |
| 1385 | topo_su_ut_MISC | Survey data - Miscellaneous utility features including call boxes, conduit, fire hydrants, laterals, public telephones & telephone pedestals, transmission towers, utility vents |
| 1386 | topo_su_ut_OH | Survey data - Overhead utility facilities |
| 1387 | topo_su_ut_PB | Survey data - Pullboxes |
| 1388 | topo_su_ut_POLE | Survey data - Individual poles & pole lines, guy anchors |
| 1389 | topo_su_ut_UG | Survey data - Underground utility facilities |
| 1390 | topo_su_ut_VALVE | Survey data - Valves |

| Number | Name | Description |
|---------------|---|--|
| 1391 | topo_su_ut VAULT | Survey data - Vaults |
| 1392 | topo_su_veg_anno_info_only | Survey data - Annotation for vegetation features |
| 1393 | topo_su_veg_LINE_PTS_info_only | Survey data - Points associated to vegetation linework |
| 1394 | topo_su_veg_MISC_drop | Survey data - Miscellaneous vegetation features |
| 1395 | topo_su_veg_TREE_drop | Survey data - Trees |
| 1396 | topo_su_str_BRDG_RAIL_deck_drop | Survey data - Bridge rails |
| 1397 | topo_su_rdside_CURB_drop | Survey data - Miscellaneous curbs in roadside areas |
| 1398 | topo_su_rdside_DIKE_drop | Survey data - Miscellaneous dikes in roadside areas |
| 1399 | topo_su_rdside_FENCE_drop | Survey data - Fences, gates & gate posts |
| 1400 | topo_su_rdbed_MISC_deck_drop | Survey data - Miscellaneous roadbed features on bridge decks excluding asphalt, concrete & dirt lines - all aspects except flowlines & random breaklines |
| 1401 | topo_su_rdside_FL_deck_drop | Survey data - Flowlines in roadside areas on bridge decks |
| 1402 | topo_su_rdside_MISC_deck_drop | Survey data - Miscellaneous roadside features on bridge decks excluding flowlines & random breaklines |
| 1403 | topo_su_LINE_PTS_info_only | Survey data - Points associated to Feature Lines imported through TBC shape files |
| 1500 | topo_ml_ctrl_DIRECTION_info_only | MTLS data - Linework indicating the direction to or from a feature |
| 1501 | topo_ml_dtm_brk_spot_anno_deck_info_only | MTLS data - Annotation for random breaklines, spot elevations and masspoints in bridge deck DTM areas |
| 1502 | topo_ml_dtm_brk_spot_anno_info_only | MTLS data - Annotation for random breaklines, spot elevations and masspoints in ground DTM areas |
| 1503 | topo_ml_dtm_brk_spot_anno_underside_info_only | MTLS data - Annotation for random breaklines, spot elevations and masspoints in bridge underside DTM areas |
| 1504 | topo_ml_dtm_brk_spot_deck_info_only | MTLS data - Random breaklines, spot elevations and masspoints in |

| Number | Name | Description |
|---------------|--|--|
| | | bridge deck DTM areas |
| 1505 | topo_ml_dtm_brk_spot_info_only | MTLS data - Random breaklines, spot elevations and masspoints in ground DTM areas |
| 1506 | topo_ml_dtm_brk_spot_underside_info_only | MTLS data - Random breaklines, spot elevations and masspoints in bridge underside DTM areas |
| 1507 | topo_ml_hydro_anno_info_only | MTLS data - Annotation for all hydrographic features |
| 1508 | topo_ml_hydro_df_CULV_drop | MTLS data - Culverts |
| 1509 | topo_ml_hydro_df_CULV_FL_drop | MTLS data - Culvert - flowline single location - for TopoDOT use only |
| 1510 | topo_ml_hydro_df_MISC_CLO_drop | MTLS data - Cleanout - drain, sewer, storm, pool, etc. - for TopoDOT use only |
| 1511 | topo_ml_hydro_df_MISC_drop | MTLS data - Drainage facility appurtenances including cleanouts, flared end sections, vents, etc. |
| 1512 | topo_ml_hydro_df_OPEN_drop | MTLS data - Open drainage facilities including basins, canals, catch basins, ditches, spillways, etc. - all aspects except flowlines & random breaklines |
| 1513 | topo_ml_hydro_df_STR_deck_drop | MTLS data - Drainage facility structures on bridge decks including inlets |
| 1514 | topo_ml_hydro_df_STR_drop | MTLS data - Drainage facility structures on ground surfaces including inlets & outlets, headwalls, wingwalls, weirs, gates, etc. |
| 1515 | topo_ml_hydro_FL_drop | MTLS data - Flowlines of all hydrographic & drainage facilities |
| 1516 | topo_ml_hydro_MISC_drop | MTLS data - Miscellaneous hydrographic features |
| 1517 | topo_ml_hydro_WATER_drop | MTLS data - Edges, threads & high water marks of water features including streams, creeks, rivers, ponds, lakes, shorelines, pools, etc. |
| 1518 | topo_ml_hydro_WATER_HWAT_drop | MTLS data - High water mark - for TopoDOT use only |
| 1519 | topo_ml_POINT_CLOUD | MTLS data - Point clouds and |

| Number | Name | Description |
|---------------|-------------------------------|--|
| | | associated features |
| 1520 | topo_ml_rdbed_AC_deck_drop | MTLS data - Asphalt features in roadbed areas on bridge decks |
| 1521 | topo_ml_rdbed_AC_drop | MTLS data - Asphalt features in roadbed areas on ground surfaces |
| 1522 | topo_ml_rdbed_anno_info_only | MTLS data - Annotation for roadbed features |
| 1523 | topo_ml_rdbed_CONC_deck_drop | MTLS data - Concrete features in roadbed areas on bridge decks |
| 1524 | topo_ml_rdbed_CONC_drop | MTLS data - Concrete features in roadbed areas on ground surfaces |
| 1525 | topo_ml_rdbed_CURB_deck_drop | MTLS data - Curbs in roadbed areas on bridge decks |
| 1526 | topo_ml_rdbed_CURB_drop | MTLS data - Curbs in roadbed areas on ground surfaces |
| 1527 | topo_ml_rdbed_DIKE_drop | MTLS data - Dikes in roadbed areas |
| 1528 | topo_ml_rdbed_DIRT_drop | MTLS data - Dirt features in roadbed areas |
| 1529 | topo_ml_rdbed_FL_deck_drop | MTLS data - Flowlines in roadbed areas on bridge decks |
| 1530 | topo_ml_rdbed_FL_drop | MTLS data - Flowlines in roadbed areas on ground surfaces |
| 1531 | topo_ml_rdbed_MISC_drop | MTLS data - Miscellaneous roadbed features on ground surfaces excluding asphalt, concrete & dirt lines - all aspects except flowlines & random breaklines - including roadbeds & cattle guards |
| 1532 | topo_ml_rdbed_ROCK_drop | MTLS data - Rock features in roadbed areas |
| 1533 | topo_ml_rdside_AC_drop | MTLS data - Asphalt features in roadside areas including driveways, parking lots, paths, etc. |
| 1534 | topo_ml_rdside_anno_info_only | MTLS data - Annotation for roadside features |
| 1535 | topo_ml_rdside_CONC_drop | MTLS data - Concrete features in roadside areas including driveways, parking lots, paths, etc. |
| 1536 | topo_ml_rdside_DIRT_drop | MTLS data - Dirt features in |

| Number | Name | Description |
|--------|--------------------------------------|--|
| | | roadside areas including driveways, trails and other dirt areas |
| 1537 | topo_ml_rdside_FL_drop | MTLS data - Flowlines in roadside areas |
| 1538 | topo_ml_rdside_MISC_BOLLARD_drop | MTLS data - Bollards, protective pipes, etc. - for TopoDOT use only |
| 1539 | topo_ml_rdside_MISC_drop | MTLS data - Miscellaneous roadside features excluding asphalt, concrete, dirt & rock lines and all aspects except flowlines & random breaklines - includes bollards, driveways, flag poles, mailboxes, parking lots, tanks, trails, etc. |
| 1540 | topo_ml_rdside_MISC_FP_drop | MTLS data - Flag pole - for TopoDOT use only |
| 1541 | topo_ml_rdside_ROCK_drop | MTLS data - Edges of rock areas & rock slope protection areas |
| 1542 | topo_ml_rdside_RR_APPR_drop | MTLS data - Railroad Appurtenances including control box, switch, etc. - for TopoDOT use only |
| 1543 | topo_ml_rdside_RR_drop | MTLS data - Railroad rails, ballast and appurtenances including switches & gate posts |
| 1544 | topo_ml_rdside_RR_POST_drop | MTLS data - Railroad gate post - for TopoDOT use only |
| 1545 | topo_ml_rdside_SLIDE_drop | MTLS data - Edges of slide areas |
| 1547 | topo_ml_rdside_SW_drop | MTLS data - Sidewalks on ground surfaces |
| 1548 | topo_ml_str_ABUTWW_drop | MTLS data - Abutments & wing walls |
| 1549 | topo_ml_str_anno_deck_info_only | MTLS data - Annotation for bridge deck features |
| 1550 | topo_ml_str_anno_info_only | MTLS data - Annotation for ground surface structures features |
| 1551 | topo_ml_str_anno_underside_info_only | MTLS data - Annotation for bridge underside features |
| 1552 | topo_ml_str_BLDG_drop | MTLS data - Buildings, decks, covered patios, carports, etc. |
| 1553 | topo_ml_str_COL_drop | MTLS data - Bents, columns & piers |

| Number | Name | Description |
|---------------|---------------------------------|---|
| 1557 | topo_ml_str_GIRDER_drop | MTLS data - Bridge girders |
| 1559 | topo_ml_str_MISC_deck_drop | MTLS data - Miscellaneous bridge deck features |
| 1560 | topo_ml_str_MISC_drop | MTLS data - Miscellaneous structures features including structures slope protection, etc. |
| 1561 | topo_ml_str_MISC_underside_drop | MTLS data - Miscellaneous bridge underside features including bridge access openings, soffit, etc. |
| 1562 | topo_ml_str_PN_deck_drop | MTLS data - Paving notch (back stem wall of the abutment) |
| 1563 | topo_ml_str_WALL_drop | MTLS data - Walls including crib, masonry, retaining & sound walls |
| 1564 | topo_ml_tcd_anno_info_only | MTLS data - Annotation for sign, markers & marking features |
| 1565 | topo_ml_tcd_BARRIER_deck_drop | MTLS data - Barriers on bridge decks |
| 1566 | topo_ml_tcd_BARRIER_drop | MTLS data - Barriers & rails on ground surfaces |
| 1567 | topo_ml_tcd_MARKER_drop | MTLS data - Non-utility related markers including guide posts, pavement markers, etc. |
| 1568 | topo_ml_tcd_MARKER_GUIDE_drop | MTLS data - Marker - guide post - for TopoDOT use only |
| 1569 | topo_ml_tcd_MARKING_deck_drop | MTLS data - Pavement marking on bridge decks including lane lines, stripes, etc. |
| 1570 | topo_ml_tcd_MARKING_drop | MTLS data - Pavement marking on ground surfaces including lane lines, crosswalks, stripes, turn arrows, etc. |
| 1571 | topo_ml_tcd_MISC_CC_drop | MTLS data - Crash cushion - single location - for TopoDOT use only |
| 1572 | topo_ml_tcd_MISC_drop | MTLS data - Miscellaneous traffic control features including crash cushions, etc. |
| 1573 | topo_ml_tcd_SIGN_drop | MTLS data - Signs |
| 1574 | topo_ml_ut_anno_info_only | MTLS data - Annotation for utility features |
| 1575 | topo_ml_ut_APPR | MTLS data - Utility appurtenances including hose bibs, irrigation valves, sprinklers, standpipes, wells, etc. |

| Number | Name | Description |
|---------------|---------------------------------|--|
| 1576 | topo_ml_ut_APPR_SPR | MTLS data - Sprinkler - for TopoDOT use only |
| 1577 | topo_ml_ut_CAB | MTLS data - Cabinets |
| 1579 | topo_ml_ut_COND | MTLS data - Conduit |
| 1580 | topo_ml_ut_LTG | MTLS data - Lighting including electroliers, lamp posts, pedestrian crosswalk buttons & signals, traffic signals, railroad signals, etc. |
| 1581 | topo_ml_ut_MARKER | MTLS data - Utility markers |
| 1582 | topo_ml_ut_METER | MTLS data - Meters |
| 1583 | topo_ml_ut_MH | MTLS data - Manholes |
| 1584 | topo_ml_ut_MISC | MTLS data - Miscellaneous utility features including call boxes, conduit, fire hydrants, laterals, public telephones & telephone pedestals, transmission towers, utility vents |
| 1585 | topo_ml_ut_OH | MTLS data - Overhead utility facilities |
| 1586 | topo_ml_ut_PB | MTLS data - Pullboxes |
| 1587 | topo_ml_ut_POLE | MTLS data - Individual poles & pole lines, guy anchors |
| 1588 | topo_ml_ut_UG | MTLS data - Underground utility facilities |
| 1589 | topo_ml_ut_VALVE | MTLS data - Valves |
| 1590 | topo_ml_ut_VAULT | MTLS data - Vaults |
| 1591 | topo_ml_veg_anno_info_only | MTLS data - Annotation for vegetation features |
| 1592 | topo_ml_veg_MISC_drop | MTLS data - Miscellaneous vegetation features |
| 1593 | topo_ml_veg_TREE_drop | MTLS data - Trees |
| 1594 | topo_ml_rdside_FENCE_drop | MTLS data - Fences, gates & gate posts |
| 1595 | topo_ml_rdside_FENCE_POST_drop | MTLS data - Gate post - for TopoDOT use only |
| 1597 | topo_ml_rdside_CURB_drop | MTLS data - Miscellaneous curbs in roadside areas on ground surfaces |
| 1598 | topo_ml_rdside_DIKE_drop | MTLS data - Miscellaneous dikes in roadside areas |
| 1599 | topo_ml_bndy_gnv_info_only | MTLS data - Boundary outlining ground not visible areas (GNV) |
| 1600 | topo_ml_str_BRDG_RAIL_deck_drop | MTLS data - Bridge rails |

| Number | Name | Description |
|---------------|--|--|
| 1601 | topo_ml_rdbed_MISC_deck_drop | MTLS data - Miscellaneous roadbed features on bridge decks excluding asphalt, concrete & dirt lines - all aspects except flowlines & random breaklines |
| 1602 | topo_ml_rdside_MISC_ADA_drop | MTLS data - ADA detectable warning surface - for TopoDOT use only |
| 1603 | topo_TopoDOT_SurveyPT_info_only | TopoDOT data - Manually placed Survey Point - for TopoDOT use only |
| 1604 | topo_ml_study_brk_spot_deck_info_only | MTLS data - Breaklines, spot elevations and masspoints from unregistered point cloud data in bridge deck DTM areas |
| 1606 | topo_ml_study_brk_spot_underside_info_only | MTLS data - Breaklines, spot elevations and masspoints from unregistered point cloud data in bridge underside DTM areas |
| 1607 | topo_ml_study_brk_spot_info_only | MTLS data - Breaklines, spot elevations and masspoints from unregistered point cloud data in ground DTM areas |
| 1608 | topo_ml_study_hydro_info_only | MTLS data - Flowlines and edge of water body from unregistered point cloud data in ground DTM areas |
| 1609 | topo_TopoDOT_Data_Tiles_info_only | TopoDOT data - Data Tiles - for TopoDOT use only |
| 1610 | topo_TopoDOT_PT_Blue_info_only | TopoDOT data - Blue Points - for TopoDOT use only |
| 1611 | topo_TopoDOT_PT_Green_info_only | TopoDOT data - Green Points - for TopoDOT use only |
| 1612 | topo_TopoDOT_PT_Orange_info_only | TopoDOT data - Orange Points - for TopoDOT use only |
| 1613 | topo_TopoDOT_PT_Red_info_only | TopoDOT data - Red Points - for TopoDOT use only |
| 1614 | topo_TopoDOT_PT_Teal_info_only | TopoDOT data - Teal Points - for TopoDOT use only |
| 1615 | topo_TopoDOT_PT_Yellow_info_only | TopoDOT data - Yellow Points - for TopoDOT use only |
| 1616 | topo_TopoDOT_Scan_Postions_info_only | TopoDOT data - Scan Postions - for TopoDOT use only |
| 1617 | topo_TopoDOT_TEMP_info_only | TopoDOT data - Temporary - for TopoDOT use only |

| Number | Name | Description |
|---------------|----------------------------------|--|
| 1618 | topo_ml_tcd_MARKING_LL_deck_drop | MTLS data - Lane lines on bridge decks - for TopoDOT use only |
| 1619 | topo_ml_tcd_MARKING_LL_drop | MTLS data - Lane lines on ground surfaces - for TopoDOT use only |
| 1900 | align | General alignment |
| 1901 | align_anno | Annotation for general alignment |
| 1903 | align_anno_no_plot | Annotation for non-plotting general alignment |
| 1904 | align_no_plot | Non-plotting general alignment |
| 1905 | rw_topo_anno | General R/W & topo data - General annotation |
| 1906 | rw_topo_anno_TABLE | General R/W & topo data - Data tables |
| 1907 | rw_topo_Calcs_anno_no_plot | General R/W & topo data - Non-plotting calculation annotation |
| 1908 | rw_topo_Calcs_no_plot | General R/W & topo data - Non-plotting calculations |
| 1909 | rw_topo_Images | General R/W & topo data - Attached image files |
| 1910 | rw_topo_Notes_no_plot | General R/W & topo data - Non-plotting notes and general information |
| 1911 | rw_topo_point | General R/W & topo data - Miscellaneous point data |
| 1911 | rw_topo_point | General R/W & topo data - General point data |
| 1912 | rw_topo_point_anno | General R/W & topo data - General point annotation |
| 1913 | rw_topo_point_NON_STANDARD | General R/W & topo data - Non-standard point data |
| 1914 | rw_topo_Reference_Files | General R/W & topo data - Attached drawing files |
| 1915 | rw_topo_Wipeout_Areas | General R/W & topo data - Wipeout/masking shapes |
| 1916 | topo_dtm_anno_info_only | General topo data - General surface annotation other than contours |
| 1917 | topo_dtm_bndy_deck_info_only | General topo data - Surface borders for bridge deck DTMs |
| 1918 | topo_dtm_bndy_info_only | General topo data - Surface borders for ground DTMs |
| 1919 | topo_dtm_cont_anno_deck_drop | General topo data - Surface contour annotation for bridge deck DTMs |

| Number | Name | Description |
|---------------|-------------------------------|--|
| 1920 | topo_dtm_cont_anno_drop | General topo data - Surface contour annotation for ground DTMs |
| 1921 | topo_dtm_cont_index_deck_drop | General topo data - Surface index (major) contours for bridge deck DTMs |
| 1922 | topo_dtm_cont_index_drop | General topo data - Surface index (major) contours for ground DTMs |
| 1923 | topo_dtm_cont_inter_deck_drop | General topo data - Surface intermediate (minor) contours for bridge deck DTMs |
| 1924 | topo_dtm_cont_inter_drop | General topo data - Surface intermediate (minor) contours for ground DTMs |
| 1925 | topo_dtm_info_only | General topo data - General surface miscellaneous features including gridded areas |
| 1926 | topo_dtm_pt_info_only | General topo data - General surface points |
| 1927 | topo_dtm_tri_info_only | General topo data - General surface triangles |
| 1928 | topo_profile | General topo data - Profile linework |
| 1929 | topo_profile_anno | General topo data - Profile annotation |
| 1930 | topo_section | General topo data - Cross section data |
| 1931 | topo_section_anno | General topo data - Cross section data annotation including offsets & grade breaks |
| 9000 | align_20-SCALE-anno | Annotation for 20 scale alignment |
| 9001 | align_100-SCALE-anno | Annotation for 100 scale alignment |
| 9002 | align_BARRIER | Alignment for barriers |
| 9003 | align_BARRIER-anno | Annotation for barrier alignments |
| 9004 | align_COLLECTOR-RD | Alignment for collector roads |
| 9005 | align_COLLECTOR-RD-anno | Annotation for collector road alignments |
| 9006 | align_CULVERT | Alignment for culverts-pipes |
| 9007 | align_CULVERT-anno | Annotation for culvert-pipe alignments |
| 9008 | align_CURB-FLOW-LINE | Alignment for flow line of curb |
| 9009 | align_CURB-FLOW-LINE-anno | Annotation for flow line of curb |
| 9010 | align_CURVE-DATA | Curve data information in tabular |

| Number | Name | Description |
|---------------|------------------------------|--|
| | | format |
| 9011 | align_DITCH | Alignment for ditches |
| 9012 | align_DITCH-anno | Annotation for ditch alignments |
| 9013 | align_FRONTAGE | Alignment for frontage roads |
| 9014 | align_FRONTAGE-anno | Annotation for frontage road alignments |
| 9015 | align_LOCAL-ST | Alignment for local streets |
| 9016 | align_LOCAL-ST-anno | Annotation for local street alignments |
| 9017 | align_MAIN | Alignment for Main line |
| 9018 | align_MAIN-anno | Annotation for Main line alignment |
| 9019 | align_PM-REFERENCE-LINE | Reference line for post mile |
| 9020 | align_PM-REFERENCE-LINE-anno | Annotation for post mile reference line |
| 9021 | align_RAMP | Alignment for ramps |
| 9022 | align_RAMP-anno | Annotation for ramp alignments |
| 9023 | align_ROUNDABOUT | Alignment for roundabout |
| 9024 | align_ROUNDABOUT-anno | Annotation for roundabout alignments |
| 9025 | align_SECONDARY-HWY | Alignment for any secondary highway |
| 9026 | align_SECONDARY-HWY-anno | Annotation for any secondary highway alignment |
| 9027 | align_TEMP | Alignment for temporary roads |
| 9028 | align_TEMP-anno | Annotation for temporary road alignments |
| 9029 | align_WALL | Alignment for walls |
| 9030 | align_WALL-anno | Annotation for wall alignments |
| 9031 | align_NO-PLOT | Elements on this level will not plot! |
| 9100 | rd_BACKFILL-STRUCTURE | Structure backfill for walls-etc |
| 9101 | rd_BASE-MATERIAL | Base material |
| 9102 | rd_CONST-DETAIL | Construction details |
| 9103 | rd_CONST-DETAIL-anno | Annotation for construction details |
| 9104 | rd_CONTOUR-anno | Annotation for final grade contours |
| 9105 | rd_CONTOUR-MAJOR | Final grade major contours |
| 9106 | rd_CONTOUR-MINOR | Final grade minor contours |
| 9107 | rd_DESIGN-X-SECTION | Design cross sections |
| 9108 | rd_DESIGN-X-SECTION-anno | Annotation for design cross sections |
| 9109 | rd_EARTHWORK | Earthwork |
| 9110 | rd_EARTHWORK-anno | Annotation for all types of earthwork |

| Number | Name | Description |
|---------------|---------------------------|---|
| 9111 | rd_EMBANKMENT-ROADWAY | Roadway embankment |
| 9112 | rd_EP | Edge of Pavement |
| 9113 | rd_ES | Edge of Shoulder |
| 9114 | rd_ETW | Edge of Traveled Way |
| 9115 | rd_EXCAVATION-DITCH | Ditch excavation |
| 9116 | rd_EXCAVATION-ROADWAY | Roadway excavation |
| 9117 | rd_EXCAVATION-ROCK | Rock excavation |
| 9118 | rd_EXCAVATION-STRUCTURE | Structure excavation for walls-etc |
| 9119 | rd_FINISH-GRADE-anno | Annotation for finish grade lines and points |
| 9120 | rd_FINISH-GRADE-BREAKLINE | Breaklines for finish grade |
| 9121 | rd_FINISH-GRADE-POINT | Points for finish grade |
| 9122 | rd_HMA-DIKE | Hot Mix Asphalt (HMA) dike all types |
| 9123 | rd_HMA-DIKE-anno | Annotation for Hot Mix Asphalt (HMA) dikes all types |
| 9124 | rd_HMA-DIKE-TYPE-A | Hot Mix Asphalt (HMA) dike Type A |
| 9125 | rd_HMA-DIKE-TYPE-C | Hot Mix Asphalt (HMA) dike Type C |
| 9126 | rd_HMA-DIKE-TYPE-D | Hot Mix Asphalt (HMA) dike Type D |
| 9127 | rd_HMA-DIKE-TYPE-E | Hot Mix Asphalt (HMA) dike Type E |
| 9128 | rd_HMA-DIKE-TYPE-F | Hot Mix Asphalt (HMA) dike Type F |
| 9129 | rd_LAYOUT-NOTE-anno | Annotation for construction shown in Master Design |
| 9130 | rd_MISC | Miscellaneous cells line-styles and information used by roadway |
| 9131 | rd_PAVEMENT | Pavement material |
| 9132 | rd_PAVEMENT-anno | Annotation for pavement-base-subbase material |
| 9133 | rd_PAVEMENT-STRUCTURE | Pavement-base-subbase material |
| 9134 | rd_PROFILE-BARRIER | Barrier profile top or bottom |
| 9135 | rd_PROFILE-BARRIER-anno | Annotation for barrier profile |
| 9136 | rd_PROFILE-FINISH | Finish profile |
| 9137 | rd_PROFILE-FINISH-anno | Annotation for finish profile |
| 9138 | rd_PROFILE-OG | Original ground profile |
| 9139 | rd_PROFILE-OG-anno | Annotation for original ground profile |
| 9140 | rd_PROFILE-WALL | Wall profile |
| 9141 | rd_PROFILE-WALL-anno | Annotation for wall profile |
| 9142 | rd_QTY-TABLE | Tabular data for summary of |

| Number | Name | Description |
|---------------|--------------------------|---|
| | | quantities |
| 9143 | rd_RIGHT-OF-WAY | Right of way |
| 9144 | rd_RIGHT-OF-WAY-anno | Annotation for right of way and TCE |
| 9145 | rd_RIGHT-OF-WAY-TCE | Temporary construction easement |
| 9146 | rd_SLOPE | Slopes |
| 9147 | rd_SUBBASE-MATERIAL | Subbase material |
| 9148 | rd_SUPERELEVATION | Superelevation diagram |
| 9149 | rd_SUPERELEVATION-anno | Annotation for superelevation diagram |
| 9150 | rd_SURFACE-BOUNDARY | Boundary of finish surface |
| 9151 | rd_SURFACE-BOUNDARY-anno | Annotation of finish surface boundary |
| 9152 | rd_SURFACE-REMOVAL-AC | Area of RACS and cold plane AC |
| 9153 | rd_SURFACE-REMOVAL-anno | Annotation for areas of AC and CONC surface removal |
| 9154 | rd_SURFACE-REMOVAL-CONC | Area of concrete surface removal |
| 9155 | rd_TRIANGLE | Final grade triangles |
| 9156 | rd_TRIANGLE-anno | Annotation for final grade triangles |
| 9157 | rd_TYP-X-SECTION | Typical Cross Sections |
| 9158 | rd_TYP-X-SECTION-anno | Annotation for Typical Cross Sections |
| 9159 | rd_NO-PLOT | Elements on this level will not plot! |
| 9200 | df_BASIN | Retention or detention basin |
| 9201 | df_BASIN-anno | Annotation for retention or detention basin |
| 9202 | df_CULV-ARCH | Arch culvert all types |
| 9203 | df_CULV-ARCH-anno | Annotation for arch culvert all types |
| 9204 | df_CULV-BOX | Box culvert |
| 9205 | df_CULV-BOX-anno | Annotation for box culvert |
| 9206 | df_CULV-TEMP | Temporary culvert |
| 9207 | df_CULV-TEMP-anno | Annotation for temporary culvert |
| 9208 | df_DETAIL | Drainage details |
| 9209 | df_DETAIL-anno | Annotation for drainage details |
| 9210 | df_DRAIN-EDGE | Edge drain |
| 9211 | df_DRAIN-HORIZONTAL | Horizontal drain |
| 9212 | df_DRAIN-OVERSIDE | Overside drain |
| 9213 | df_DRAIN-UNDER | Underdrain |
| 9214 | df_FES | Flared end section |
| 9215 | df_FLOW-LINE | Direction of water flow |

| Number | Name | Description |
|---------------|---------------------|--|
| 9216 | df_HEADWALL | Headwall |
| 9217 | df_INLET | Drainage inlet |
| 9218 | df_INLET-anno | Annotation for proposed drainage inlet |
| 9219 | df_INLET-anno_drop | Annotation for existing drainage inlet |
| 9220 | df_INLET_drop | Existing drainage inlet |
| 9221 | df_MISC | Miscellaneous drainage and hydraulic features |
| 9222 | df_MISC-anno | Annotation for misc drainage features |
| 9223 | df_PIPE | Drainage pipe all types |
| 9224 | df_PIPE-anno | Annotation for drainage pipe all types |
| 9225 | df_PIPE-anno_drop | Annotation for existing drainage pipe all types |
| 9226 | df_PIPE-APC | Alternate pipe culvert |
| 9227 | df_PIPE-BIT-CTD-CSP | Bituminous coating corrugated steel pipe |
| 9228 | df_PIPE-CSP | Corrugated steel pipe |
| 9229 | df_PIPE-PP | Plastic pipe |
| 9230 | df_PIPE-RCP | Reinforced concrete pipe |
| 9231 | df_PIPE-SCSP | Slotted corrugated steel pipe |
| 9232 | df_PIPE_drop | Existing drainage pipe all types |
| 9233 | df_PROFILE | Drainage profiles |
| 9234 | df_PROFILE-anno | Annotation for drainage profiles |
| 9235 | df_QTY-TABLE | Tabular data for drainage quantities |
| 9236 | df_SYSTEM-UNIT-anno | Annotation for drainage system and unit callout |
| 9237 | df_WATERSHED | Watershed information |
| 9238 | df_WATERSHED-anno | Annotation for watershed information |
| 9239 | df_NO-PLOT | Elements on this level will not plot! |
| 9300 | ut_DEFAULT | Default level for point features used by Bentley Map |
| 9301 | ut_ELECT-ABN | Electrical conduit abandoned underground |
| 9302 | ut_ELECT-OH-P | Electrical new overhead |
| 9303 | ut_ELECT-OH-X | Electrical existing overhead |
| 9304 | ut_ELECT-P | Electrical conduit new underground |
| 9305 | ut_ELECT-X | Electrical conduit existing |

| Number | Name | Description |
|--------|-------------------|--|
| | | underground |
| 9306 | ut_ES-C-ABN | Electrical systems conduit abandoned underground |
| 9307 | ut_ES-C-X | Electrical systems conduit existing underground |
| 9308 | ut_FIBEROPT-ABN | Fiber optic abandoned underground |
| 9309 | ut_FIBEROPT-OH-P | Fiber optic new overhead |
| 9310 | ut_FIBEROPT-OH-X | Fiber optic existing overhead |
| 9311 | ut_FIBEROPT-P | Public-Private fiber optic new underground |
| 9312 | ut_FIBEROPT-X | Public-Private fiber optic existing underground |
| 9313 | ut_GAS-ABN | Gasoline abandoned underground |
| 9314 | ut_GAS-P | Gasoline new underground |
| 9315 | ut_GAS-X | Gasoline existing underground |
| 9316 | ut_IRR-C-ABN | Irrigation conduit abandoned underground |
| 9317 | ut_IRR-C-X | Irrigation conduit existing underground |
| 9318 | ut_JOINT-OH-P | Joint utility new overhead |
| 9319 | ut_JOINT-OH-X | Joint utility existing overhead |
| 9320 | ut_JOINT-TRENCH-P | Joint utility trench new underground |
| 9321 | ut_JOINT-TRENCH-X | Joint utility trench existing underground |
| 9322 | ut_MISC | Miscellaneous utility cells and information |
| 9323 | ut_NATGAS-ABN | Natural gas abandoned underground |
| 9324 | ut_NATGAS-P | Natural gas new underground |
| 9325 | ut_NATGAS-X | Natural gas existing underground |
| 9326 | ut_OIL-ABN | Oil abandoned underground |
| 9327 | ut_OIL-P | Oil new underground |
| 9328 | ut_OIL-X | Oil existing underground |
| 9329 | ut_RCWATER-ABN | Recycled water abandoned underground |
| 9330 | ut_RCWATER-P | Recycled water new underground |
| 9331 | ut_RCWATER-X | Recycled water existing underground |
| 9332 | ut_SEWER-ABN | Sewer abandoned underground |
| 9333 | ut_SEWER-P | Sewer new underground |
| 9334 | ut_SEWER-X | Sewer existing underground |

| Number | Name | Description |
|---------------|----------------------------|--|
| 9335 | ut_STATE-FIBEROPT-P | State fiber optic new underground |
| 9336 | ut_STATE-FIBEROPT-X | State fiber optic existing underground |
| 9337 | ut_STEAM-ABN | Steam abandoned underground |
| 9338 | ut_STEAM-P | Steam new underground |
| 9339 | ut_STEAM-X | Steam existing underground |
| 9340 | ut_STORMD-ABN | Storm drain abandoned underground |
| 9341 | ut_STORMD-P | Storm drain new underground |
| 9342 | ut_STORMD-X | Storm drain existing underground |
| 9343 | ut_TELECOM-ABN | Telemeter cable abandoned underground |
| 9344 | ut_TELECOM-OH-P | Telemeter cable new overhead |
| 9345 | ut_TELECOM-OH-X | Telemeter cable existing overhead |
| 9346 | ut_TELECOM-P | Telemeter cable new underground |
| 9347 | ut_TELECOM-X | Telemeter cable existing underground |
| 9348 | ut_TELEPH-ABN | Telephone line abandoned underground |
| 9349 | ut_TELEPH-OH-P | Telephone line new overhead |
| 9350 | ut_TELEPH-OH-X | Telephone line existing overhead |
| 9351 | ut_TELEPH-P | Telephone line new underground |
| 9352 | ut_TELEPH-X | Telephone line existing underground |
| 9353 | ut_TEST-HOLE | Test hole symbol and label |
| 9354 | ut_TV-ABN | Television line abandoned underground |
| 9355 | ut_TV-OH-P | Television line new overhead |
| 9356 | ut_TV-OH-X | Television line existing overhead |
| 9357 | ut_TV-P | Television line new underground |
| 9358 | ut_TV-X | Television line existing underground |
| 9359 | ut_UTILITY-anno | Annotation for cells utility notes and information |
| 9360 | ut_VARIOUS-POINT-FEATURES | Various point features-cabinet-MH-etc |
| 9361 | ut_WATER-ABN | Water abandoned underground |
| 9362 | ut_WATER-P | Water new underground |
| 9363 | ut_WATER-X | Water existing underground |
| 9364 | ut_FEATURE-OUTLINE-CABINET | Utility cabinet outline |
| 9365 | ut_FEATURE-OUTLINE-PULLBOX | Pull Box outline |
| 9366 | ut_FEATURE-OUTLINE-PUMP | Pump outline |

| Number | Name | Description |
|---------------|-----------------------------------|---|
| 9368 | ut_FEATURE-OUTLINE-VAULT | Vault outline |
| 9369 | ut_FEATURE-OUTLINE-OTHER | Outline of a utility - misc |
| 9370 | ut_TRAFFIC-CONTROL-ABN | Traffic Control conduit abandoned underground |
| 9371 | ut_TRAFFIC-CONTROL-P | Traffic Control conduit new underground |
| 9372 | ut_TRAFFIC-CONTROL-X | Traffic Control conduit existing underground |
| 9373 | ut_POSITIVELOCATION-MISC-X | Positive Location of Misc Utilities |
| 9374 | ut_ITS-X | Intelligent Transportation Systems |
| 9375 | ut_NO-PLOT | Elements on this level will not plot! |
| 9400 | tcd_BARRIER-CONC | Concrete barrier all types |
| 9401 | tcd_BARRIER-CONC-anno | Annotation for concrete barrier all types |
| 9402 | tcd_BARRIER-CONC-TYPE-25 | All Type25 concrete barriers |
| 9403 | tcd_BARRIER-CONC-TYPE-26 | All Type 26 concrete barriers |
| 9404 | tcd_BARRIER-CONC-TYPE-27MOD | All Type 27Mod concrete barriers |
| 9405 | tcd_BARRIER-CONC-TYPE-50 | All Type 50 concrete barriers |
| 9406 | tcd_BARRIER-CONC-TYPE-60 | All Type 60 concrete barriers |
| 9407 | tcd_BARRIER-CONC-TYPE-60-PORTABLE | Type 60 portable concrete barrier |
| 9408 | tcd_BARRIER-CONC-TYPE-80 | All Type 80 concrete barriers |
| 9409 | tcd_BARRIER-CONC-TYPE-90 | Type 90 concrete barrier |
| 9410 | tcd_BARRIER-CONC-TYPE-732 | All Type 732 concrete barriers |
| 9411 | tcd_BARRIER-CONC-TYPE-736 | All Type 736 concrete barriers |
| 9412 | tcd_BARRIER-CONC-TYPE-742 | All Type 742 concrete barriers |
| 9413 | tcd_BARRIER-CONC-TYPE-K | Type K concrete barrier-permanent |
| 9414 | tcd_BARRIER-THRIE-BEAM | Thrie Beam barrier |
| 9415 | tcd_BARRIER-THRIE-BEAM-anno | Annotation for Thrie Beam barrier |
| 9416 | tcd_BARRIER-THRIE-BEAM-EXIST | Existing Thrie Beam barrier to be modified |
| 9417 | tcd_CMS | Changeable message sign-foundation and pole |
| 9418 | tcd_CRASH-CUSHION | Permanent crash cushions |
| 9419 | tcd_CRASH-CUSHION-anno | Annotation for crash cushions |
| 9420 | tcd_DELINEATOR | Delineators all types |
| 9421 | tcd_DOUBLE-RAIL | Double railing or thrie beam barrier |
| 9422 | tcd_GSBWFILL | GuideSIGN black and white fill |
| 9423 | tcd_GSCOLORFILL | GuideSIGN color fill |
| 9424 | tcd_GSDIMS | GuideSIGN dimensions |
| 9425 | tcd_GSOUTLINE | GuideSIGN outline |

| Number | Name | Description |
|---------------|------------------------|--|
| 9426 | tcd_MARKER | Markers all types |
| 9427 | tcd_MARKER-anno | Annotation for markers and delineators |
| 9428 | tcd_PD-QTY-TABLE | Tabular data for pavement delineation quantities |
| 9429 | tcd_PVMT-MARKER | Pavement markers |
| 9430 | tcd_PVMT-MARKER-anno | Annotation for pavement markers |
| 9431 | tcd_PVMT-MARKING | Pavement markings |
| 9432 | tcd_PVMT-MARKING-anno | Annotation for all type pavement markings |
| 9433 | tcd_RAILING | Railings all types |
| 9434 | tcd_RAILING-anno | Annotation for railings all types |
| 9435 | tcd_RAILING-BR-ST10 | California ST10 bridge rail |
| 9436 | tcd_RAILING-BR-ST20S | California ST20s bridge rail |
| 9437 | tcd_RAILING-BR-ST30 | California ST30 bridge rail |
| 9438 | tcd_RAILING-BR-ST40 | California ST40 bridge rail |
| 9439 | tcd_RAILING-BR-ST70 | California ST70 bridge rail |
| 9440 | tcd_RAILING-CABLE | Cable railing |
| 9441 | tcd_RAILING-EXIST | Existing guardrail to be modified |
| 9442 | tcd_RAILING-MGS | Midwest Guardrail System |
| 9443 | tcd_RUMBLE-STRIP | Rumble strips |
| 9444 | tcd_RUMBLE-STRIP-anno | Annotation for rumble strips |
| 9445 | tcd_SIGN-OVERHEAD | Overhead signs |
| 9446 | tcd_SIGN-OVERHEAD-anno | Annotation for overhead signs |
| 9447 | tcd_SIGN-PANEL | Sign panels |
| 9448 | tcd_SIGN-PANEL-anno | Annotation for sign panels |
| 9449 | tcd_SIGN-QTY-TABLE | Tabular data for sign quantities |
| 9450 | tcd_SIGN-ROADSIDE | Roadside signs |
| 9451 | tcd_SIGN-ROADSIDE-anno | Annotation for roadside signs |
| 9452 | tcd_TRAFFIC-STRIP | Traffic strip for all type lane lines |
| 9453 | tcd_TRAFFIC-STRIP-anno | Annotation for traffic strip for all type lane lines |
| 9454 | tcd_NO-PLOT | Elements on this level will not plot! |
| 9500 | mc_CURB | Curbs |
| 9501 | mc_CURB-GUTTER | Curb and gutters |
| 9502 | mc_CURB-RAMP | Curb ramps |
| 9503 | mc_DRIVEWAY | Driveways |
| 9504 | mc_FENCE | Fence all types |
| 9505 | mc_FENCE-anno | Annotation for fence all types |
| 9506 | mc_FENCE-BW | Barbed Wire fence |
| 9507 | mc_FENCE-CL | Chain Link fence |
| 9508 | mc_FENCE-TEMP | Temporary fence |
| 9509 | mc_FENCE-WM | Wire Mesh fence |

| Number | Name | Description |
|---------------|---------------------------|---|
| 9510 | mc_ISLAND | Islands |
| 9511 | mc_MISC-CONST-anno | Annotation for miscellaneous construction |
| 9512 | mc_PROFILE-CURB-RAMP | Profiles for designing curb ramps |
| 9513 | mc_PROFILE-FLOW-LINE | Profile of flowline of curb |
| 9514 | mc_PUMPING-EQUIPMENT | Pumping equipment |
| 9515 | mc_PUMPING-EQUIPMENT-anno | Annotation for pumping equipment |
| 9516 | mc_SIDEWALK | Sidewalks |
| 9517 | mc_SLOPE-PROTECTION | Slope protection |
| 9518 | mc_SLOPE-PROTECTION-anno | Annotation for slope protection |
| 9519 | mc_NO-PLOT | Elements on this level will not plot! |
| 9600 | wpc_COMPOST-BERM | Permanent compost berm |
| 9601 | wpc_COMPOST-SOCK | Permanent compost sock |
| 9602 | wpc_FIBER-ROLL | Permanent fiber roll |
| 9603 | wpc_FIBER-ROLL-anno | Annotation for all permanent wpc items |
| 9604 | wpc_SOIL-STABILIZATION | Temporary soil stabilization |
| 9605 | wpc_TEMP-anno | Annotation for all temporary wpc items |
| 9606 | wpc_TEMP-DITCH-SWALE | Temporary ditch or swale |
| 9607 | wpc_TEMP-EARTH-BERM | Temporary earth berm |
| 9608 | wpc_TEMP-FIBER-ROLL | Temporary fiber roll |
| 9609 | wpc_TEMP-GRAVEL-BAG | Temporary gravel bag |
| 9610 | wpc_TEMP-SILT-FENCE | Temporary silt fence all types |
| 9611 | wpc_TEMP-SLOPE-DRAIN | Temporary slope drain flex pipe |
| 9612 | wpc_TEMP-STRAW-BALE | Temporary straw bale barrier |
| 9613 | wpc_TREATMENT | Water pollution control treatment permanent facilities-vaults |
| 9614 | wpc_TREATMENT-anno | Annotation for treatment facilities-vaults |
| 9615 | wpc_TEMP-POINT-Feature | Temporary point feature |
| 9616 | wpc_NO-PLOT | Elements on this level will not plot! |
| 9650 | esa_AREA | Environmentally sensitive area |
| 9651 | esa_AREA-anno | Annotation for all environmentally sensitive areas |
| 9652 | esa_BIOLOGICAL | Biological resources |
| 9653 | esa_CULTURAL | Cultural resources |
| 9654 | esa_HISTORIC | Historic Structures |
| 9655 | esa_PALEONTOLOGICAL | Paleontological resources |
| 9656 | esa_NO-PLOT | Elements on this level will not plot! |

| Number | Name | Description |
|---------------|------------------------------|--|
| 9700 | wall_RW-ARCH-TREATMENT | Architectural treatment of retaining wall |
| 9701 | wall_RW-ARCH-TREATMENT-anno | Annotation for archl treatment of retaining wall |
| 9702 | wall_RW-DETAIL | Details of retaining wall |
| 9703 | wall_RW-DETAIL-anno | Annotation for details of retaining wall |
| 9704 | wall_RW-ELEVATION | Elevation view of retaining wall |
| 9705 | wall_RW-ELEVATION-anno | Annotation for elevation view of retaining wall |
| 9706 | wall_RW-LOTB | Log of test borings for retaining wall |
| 9707 | wall_RW-LOTB-anno | Annotation for log of test borings retaining wall |
| 9708 | wall_RW-QTY | Tabular data for retaining wall quantities |
| 9709 | wall_RW-TYPICAL-SECTION | Typical section of retaining wall |
| 9710 | wall_RW-TYPICAL-SECTION-anno | Annotation for typical section of retaining wall |
| 9711 | wall_SW-ARCH-TREATMENT | Architectural treatment of sound wall |
| 9712 | wall_SW-ARCH-TREATMENT-anno | Annotation for architectural treatment of sound wall |
| 9713 | wall_SW-DETAIL | Details of sound wall |
| 9714 | wall_SW-DETAIL-anno | Annotation for details of sound wall |
| 9715 | wall_SW-ELEVATION | Elevation view of sound wall |
| 9716 | wall_SW-ELEVATION-anno | Annotation for elevation view of sound wall |
| 9717 | wall_SW-LOTB | Log of test borings for sound wall |
| 9718 | wall_SW-LOTB-anno | Annotation for log of test borings for sound wall |
| 9719 | wall_SW-QTY | Tabular data for sound wall quantities |
| 9720 | wall_SW-TYPICAL-SECTION | Typical section of sound wall |
| 9721 | wall_SW-TYPICAL-SECTION-anno | Annotation for typical section of sound wall |
| 9722 | wall_SYMBOLOGY | Line styles representing wall symbology |
| 9723 | wall_NO-PLOT | Elements on this level will not plot! |
| 9800 | temp_BARRICADES | Temporary barricades |
| 9801 | temp_CHANNELIZERS | Temporary channelizers |
| 9802 | temp_CONSTRUCTION | Temporary construction |

| Number | Name | Description |
|---------------|---------------------------------|---|
| 9803 | temp_CONSTRUCTION-anno | Annotation for temporary construction and facilities |
| 9804 | temp_CRASH-CUSHION | Temporary crash cushion modules |
| 9805 | temp_FACILITIES | Temporary facilities |
| 9806 | temp_FLASHING-ARROW-SIGN | Temporary flashing arrow signs |
| 9807 | temp_FLASHING-BEACON | Temporary and portable flashing beacons |
| 9808 | temp_HIGH-VISIBILITY-FENCE | Temporary high visibility fence |
| 9809 | temp_HIGH-VISIBILITY-FENCE-anno | Annotation for temporary high visibility fence |
| 9810 | temp_PORTABLE-CMS | Portable changeable message sign |
| 9811 | temp_PORTABLE-DELINEATORS | Temporary portable delineators |
| 9812 | temp_PVMT-DELINEATION | Temporary pavement delineation all types |
| 9813 | temp_RAILING-TYPE-K | Type K temporary railing |
| 9814 | temp_SIGNAL-SYSTEMS | Temporary signal systems |
| 9815 | temp_SIGNAL-SYSTEMS-anno | Annotation for temporary signal systems |
| 9816 | temp_TRAFFIC-CONES | Temporary Traffic Cones |
| 9817 | temp_TRAFFIC-CONTROL | Temporary traffic control devices |
| 9818 | temp_TRAFFIC-CONTROL-anno | Annotation for temp traffic control devices all types |
| 9819 | temp_TRAFFIC-DRUMS | Temporary plastic traffic drums |
| 9820 | temp_NO-PLOT | Elements on this level will not plot! |
| 9900 | stage_1 | Stage 1 construction |
| 9901 | stage_1-anno | Annotation for stage 1 construction |
| 9902 | stage_1_drop | Dropout of stage 1 construction for stage 2 |
| 9903 | stage_2 | Stage 2 construction |
| 9904 | stage_2-anno | Annotation for stage 2 construction |
| 9905 | stage_2_drop | Dropout of stage 2 construction for stage 3 |
| 9906 | stage_3 | Stage 3 construction |
| 9907 | stage_3-anno | Annotation for stage 3 construction |
| 9908 | stage_3_drop | Dropout of stage3 construction for stage 4 |
| 9909 | stage_4 | Stage 4 construction |
| 9910 | stage_4-anno | Annotation for stage 4 |

| Number | Name | Description |
|---------------|---------------------------|---|
| | | construction |
| 9911 | stage_4_drop | Dropout of stage 4 construction for stage 5 |
| 9912 | stage_5 | Stage 5 construction |
| 9913 | stage_5-anno | Annotation for stage 5 construction |
| 9914 | stage_5_drop | Dropout of stage 5 construction for stage 6 |
| 9915 | stage_6 | Stage 6 construction |
| 9916 | stage_6-anno | Annotation for stage 6 construction |
| 9917 | stage_6_drop | Dropout of stage 6 construction for stage 7 |
| 9918 | stage_7 | Stage 7 construction |
| 9919 | stage_7-anno | Annotation for stage 7 construction |
| 9920 | stage_7_drop | Dropout of stage 7 construction for stage 8 |
| 9921 | stage_8 | Stage 8 construction |
| 9922 | stage_8-anno | Annotation for stage 8 construction |
| 9923 | stage_8_drop | Dropout of stage 8 construction for stage 9 |
| 9924 | stage_9 | Stage 9 construction |
| 9925 | stage_9-anno | Annotation for stage 9 construction |
| 9926 | stage_9_drop | Dropout of stage 9 construction for stage 10 |
| 9927 | stage_10 | Stage 10 construction |
| 9928 | stage_10-anno | Annotation for stage 10 construction |
| 9929 | stage_10_drop | Dropout of stage 10 construction for stage 11 |
| 9930 | stage_NO-PLOT | Elements on this level will not plot! |
| 10000 | ls_AREA | Areas all types |
| 10001 | ls_AREA-anno | Annotation for areas all types |
| 10002 | ls_AREA-CULTIVATION | Area for cultivation |
| 10003 | ls_AREA-EC | Area for erosion control |
| 10004 | ls_AREA-EC-DRILL-SEED | Area for erosion control drill seed |
| 10005 | ls_AREA-EC-DRY-SEED | Area for erosion control dry seed |
| 10006 | ls_AREA-EC-ROLLED-PRODUCT | Area for erosion control rolled product |
| 10007 | ls_AREA-HARDSCAPE | Area for hardscape |

| Number | Name | Description |
|---------------|---------------------------|---|
| 10008 | ls_AREA-MULCH | Area for mulch all types |
| 10009 | ls_AREA-ROADSIDE-CLEARING | Area for roadside clearing |
| 10010 | ls_CONDUCTOR | Conductor all types |
| 10011 | ls_CONDUCTOR-anno | Annotation for conductor all types |
| 10012 | ls_CONDUIT | Conduit all types |
| 10013 | ls_CONDUIT-anno | Annotation for conduits all types |
| 10014 | ls_CONDUIT-EXIST | Existing conduits all types |
| 10015 | ls_CONDUIT-EXIST-anno | Annotation for existing conduits all types |
| 10016 | ls_CONTROLLER | Controller all types |
| 10017 | ls_CONTROLLER-anno | Annotation for controllers all types |
| 10018 | ls_CONTROLLER-EXIST | Existing controllers all types |
| 10019 | ls_CONTROLLER-EXIST-anno | Annotation for existing controllers all types |
| 10020 | ls_DETAIL | Irrigation-planting-hardscape details |
| 10021 | ls_DETAIL-anno | Annotation for Irrigation-planting-hardscape details |
| 10022 | ls_FLOW-SENSOR-CABLE | Cable for flow sensor |
| 10023 | ls_FLOW-SENSOR-CABLE-anno | Annotation for flow sensor |
| 10024 | ls_KEY-MAP | Irrigation-planting-hardscape key map |
| 10025 | ls_KEY-MAP-anno | Annotation for Irrigation-planting-hardscape key map |
| 10026 | ls_MISC-anno | Annotation for cells, utility notes and information |
| 10027 | ls_MISC-CELL | Miscellaneous cells and information |
| 10028 | ls_PLANT | Plants all types |
| 10029 | ls_PLANT-anno | Annotation for plants all types |
| 10030 | ls_PLANT-AREA | Area for a group of plants |
| 10031 | ls_PLANT-CUTTING | Cutting type plants |
| 10032 | ls_PLANT-GROUNDCOVER | Groundcover type plants |
| 10033 | ls_PLANT-LINER | Liners for plants |
| 10034 | ls_PLANT-SHRUB | Shrub type plants |
| 10035 | ls_PLANT-TREE | Tree type plants |
| 10036 | ls_POINT-FEATURE | Various point features-meter-sensor-gate-etc |
| 10037 | ls_QTY-TABLE | Tabular data for irrigation-planting-hardscape quantities |
| 10038 | ls_SCHEDULE-LEGEND | Tabular data for schedules and legends |
| 10039 | ls_SPRINKLER | Sprinklers all types |
| 10040 | ls_SPRINKLER-anno | Annotation for sprinklers all types |

| Number | Name | Description |
|---------------|---------------------------|---|
| 10041 | ls_SPRINKLER-EXIST | Existing sprinklers all types |
| 10042 | ls_SPRINKLER-EXIST-anno | Annotation for existing sprinklers all types |
| 10043 | ls_SUPPLY-LINE | Supply line all types |
| 10044 | ls_SUPPLY-LINE-anno | Annotation for supply line all types |
| 10045 | ls_SUPPLY-LINE-BRIDGE | Bridge supply line |
| 10046 | ls_SUPPLY-LINE-CLASS315 | Plastic pipe class 315 supply line |
| 10047 | ls_SUPPLY-LINE-COPPER | Copper supply line |
| 10048 | ls_SUPPLY-LINE-EXIST | Existing supply line |
| 10049 | ls_SUPPLY-LINE-EXIST-anno | Annotation for existing supply line |
| 10050 | ls_SUPPLY-LINE-GSP | Galvanized steel pipe supply line |
| 10051 | ls_SUPPLY-LINE-LATERAL | Lateral supply line |
| 10052 | ls_SUPPLY-LINE-MAIN | Main supply line |
| 10053 | ls_SUPPLY-LINE-SCH40 | Plastic pipe schedule 40 supply line |
| 10054 | ls_SUPPLY-LINE-TUBING | Tubing supply line |
| 10055 | ls_VALVE | Valves all types |
| 10056 | ls_VALVE-anno | Annotation for valves all types |
| 10057 | ls_VALVE-EXIST | Existing valves all types |
| 10058 | ls_VALVE-EXIST-anno | Annotation for existing valves all types |
| 10059 | ls_IRRIGATION | Irrigation |
| 10060 | ls_IRRIGATION-EXIST | Existing Irrigation |
| 10061 | ls_PLANT-VINE | Vine type plants |
| 10062 | ls_NO-PLOT | Elements on this level will not plot! |
| 10100 | es_CCTV | Closed circuit television system |
| 10101 | es_CCTV-anno | Annotation for closed circuit television system |
| 10102 | es_CELL-anno | Annotation for all cells |
| 10103 | es_CELL-CONDUIT-RISER | Cells for conduits and risers |
| 10104 | es_CELL-LIGHTING | Cells for lighting |
| 10105 | es_CELL-MISC-COMPONENTS | Cells for other electrical components |
| 10106 | es_CELL-NOTE-SYMBOL | Cells for notes and symbols |
| 10107 | es_CELL-SIGNALS | Cells for signals |
| 10108 | es_CMS | Changeable message sign system |
| 10109 | es_CMS-anno | Annotation for changeable message sign system |
| 10110 | es_DETAIL | Electrical systems details |
| 10111 | es_DETAIL-anno | Annotation for electrical system details |

| Number | Name | Description |
|---------------|-------------------------|--|
| 10112 | es_EMS | Extinguishable message sign system |
| 10113 | es_EMS-anno | Annotation for extinguishable message sign system |
| 10114 | es_EVD | Emergency vehicle detection system |
| 10115 | es_EVD-anno | Annotation for emergency vehicle detection system |
| 10116 | es_EXIST | Existing electrical system |
| 10117 | es_EXIST-anno | Annotation for existing electrical system |
| 10118 | es_FLASHING-BEACON | Flashing beacon system |
| 10119 | es_FLASHING-BEACON-anno | Annotation for flashing beacon system |
| 10120 | es_FO | Fiber optic system |
| 10121 | es_FO-anno | Annotation for fiber optic system |
| 10122 | es_HAR | Highway advisory radio system |
| 10123 | es_HAR-anno | Annotation for highway advisory radio system |
| 10124 | es_INTERCONNECTION | Interconnection conduit and cable |
| 10125 | es_INTERCONNECTION-anno | Annotation for interconnection conduit and cable |
| 10126 | es_LEGEND-anno | Annotation for notes legends and abbreviations |
| 10127 | es_LIGHTING | Lighting system |
| 10128 | es_LIGHTING-anno | Annotation for lighting system |
| 10129 | es_LIGHTING-CITY | Lighting system city street |
| 10130 | es_LIGHTING-CITY-anno | Annotation for lighting system city street |
| 10131 | es_LIGHTING-TEMP | Temporary lighting system |
| 10132 | es_LIGHTING-TEMP-anno | Annotation for temporary lighting system |
| 10133 | es_MODIFY-CCTV | Modify closed circuit television system |
| 10134 | es_MODIFY-CCTV-anno | Annotation for modify closed circuit television system |
| 10135 | es_MODIFY-EMS | Modify extinguishable message sign system |
| 10136 | es_MODIFY-EMS-anno | Annotation for modify extinguishable message sign system |
| 10137 | es_MODIFY-EVD | Modify emergency vehicle detection system |
| 10138 | es_MODIFY-EVD-anno | Annotation for modify emergency |

| Number | Name | Description |
|---------------|----------------------------------|---|
| | | vehicle detection system |
| 10139 | es_MODIFY-FO | Modify fiber optic system |
| 10140 | es_MODIFY-FO-anno | Annotation for modify fiber optic system |
| 10141 | es_MODIFY-HAR-EMS | Modify highway advisory radio system |
| 10142 | es_MODIFY-HAR-EMS-anno | Annotation for modify highway advisory radio system |
| 10143 | es_MODIFY-RAMP-METERING | Modify ramp metering system |
| 10144 | es_MODIFY-RAMP-METERING-anno | Annotation for modify ramp metering system |
| 10145 | es_MODIFY-RWIS | Modify roadside weather information system |
| 10146 | es_MODIFY-RWIS-anno | Annotation for modify roadside weather information system |
| 10147 | es_MODIFY-SIGNAL-LIGHTING | Modify signal and lighting system |
| 10148 | es_MODIFY-SIGNAL-LIGHTING-anno | Annotation for modify signal and lighting system |
| 10149 | es_MODIFY-SIGN-ILLUMINATION | Modify sign illumination system |
| 10150 | es_MODIFY-SIGN-ILLUMINATION-anno | Annotation for sign illumination system |
| 10151 | es_QTY-TABLE | Tabular data for electrical systems quantities |
| 10152 | es_RAMP-METERING | Ramp metering system |
| 10153 | es_RAMP-METERING-anno | Annotation for ramp metering system |
| 10154 | es_REMOVE | Remove existing electrical system |
| 10155 | es_REMOVE-anno | Annotation for remove existing electrical system |
| 10156 | es_RWIS | Roadside weather information system |
| 10157 | es_RWIS-anno | Annotation for roadside weather information system |
| 10158 | es_SERVICE-BOOSTER-PUMP | Electrical service for booster pump |
| 10159 | es_SERVICE-BOOSTER-PUMP-anno | Annotation for electrical service for booster pump |
| 10160 | es_SERVICE-IRRIGATION | Electrical service for irrigation |
| 10161 | es_SERVICE-IRRIGATION-anno | Annotation for electrical service for irrigation |
| 10162 | es_SIGNAL-LIGHTING | Signal and lighting system |
| 10163 | es_SIGNAL-LIGHTING-anno | Annotation for signal and lighting system |
| 10164 | es_SIGNAL-LIGHTING-CITY | Signal and lighting system city |

| Number | Name | Description |
|---------------|------------------------------|--|
| | | street |
| 10165 | es_SIGNAL-LIGHTING-CITY-anno | Annotation for signal and lighting system city street |
| 10166 | es_SIGN-ILLUMINATION | Sign illumination system |
| 10167 | es_SIGN-ILLUMINATION-anno | Annotation for sign illumination system |
| 10168 | es_STAGE-1 | Stage 1 electrical construction |
| 10169 | es_STAGE-1_drop | Dropout of stage 1 electrical construction for stage 2 |
| 10170 | es_STAGE-1-anno | Annotation for stage 1 electrical construction |
| 10171 | es_STAGE-2 | Stage 2 electrical construction |
| 10172 | es_STAGE-2_drop | Dropout of stage 2 electrical construction for stage 3 |
| 10173 | es_STAGE-2-anno | Annotation for stage 2 electrical construction |
| 10174 | es_STAGE-3 | Stage 3 electrical construction |
| 10175 | es_STAGE-3_drop | Dropout of stage 3 electrical construction for stage 4 |
| 10176 | es_STAGE-3-anno | Annotation for stage 3 electrical construction |
| 10177 | es_STAGE-4 | Stage 4 electrical construction |
| 10178 | es_STAGE-4_drop | Dropout of stage 4 electrical construction for stage 5 |
| 10179 | es_STAGE-4-anno | Annotation for stage 4 electrical construction |
| 10180 | es_STAGE-5 | Stage 5 electrical construction |
| 10181 | es_STAGE-5_drop | Dropout of stage 5 electrical construction for stage 6 |
| 10182 | es_STAGE-5-anno | Annotation for stage 5 electrical construction |
| 10183 | es_TMS | Traffic monitoring station system |
| 10184 | es_TMS-anno | Annotation for traffic monitoring station system |
| 10185 | es_CELL | New cell components |
| 10186 | es_NO-PLOT | Elements on this level will not plot! |
| 10187 | es_MVDS | Micro vehicle detection system |
| 10200 | border_CLIP-FRAME | Clip frames for various type of plan sheets-50 scale |
| 10201 | border_CLIP-FRAME-20SCALE | Clip frames for 20 scale |
| 10202 | border_CLIP-FRAME-100SCALE | Clip frames for 100 scale |
| 10203 | border_DATUM-LINE | Datum lines separating datum information |

| Number | Name | Description |
|---------------|-------------------------------|--|
| 10204 | border_GRID-MAJOR_drop | Major grid lines |
| 10205 | border_GRID-MINOR_drop | Minor grid lines |
| 10206 | border_INSIDE-BORDER-anno | Annotation inside the border |
| 10207 | border_PLOTTING-ELEMENTS | Elements for assiting in plotting |
| 10208 | border_PROJ-ID-BLOCK-anno | Annotation in the project identification block |
| 10209 | border_SEAL | Seal information of licensed person |
| 10210 | border_SHEET | Border for any discipline |
| 10211 | border_SIGNATURE | Signature of licensed person |
| 10212 | border_WITHIN-BORDER-anno | Annotation within the margin of border |
| 10213 | pp_ADDENDUM | Addendum changes |
| 10214 | pp_AERIAL-IDENTIFICATION | Aerial identification sheets |
| 10215 | pp_AERIAL-IDENTIFICATION-anno | Annotation for aerial identification sheets |
| 10216 | pp_ARCHIVE | Information added to archived vector data file |
| 10217 | pp_AS-AWARDED | Information added to as-awarded plans |
| 10218 | pp_AS-BUILT | As-Built changes |
| 10219 | pp_CAS | Construction area signs map |
| 10220 | pp_CAS-anno | Annotation for construction area signs map |
| 10221 | pp_CAS-TABLE | Tabular data for construction area signs |
| 10222 | pp_CO | Change orders |
| 10223 | border | Border sheets for any discipline |
| 10223 | pp_KEY-MAP-LINE-INDEX | Key maps |
| 10224 | pp_KEY-MAP-LINE-INDEX-anno | Annotation for all key maps |
| 10225 | border_WITHIN-Border_anno | Annotation within the margin of border sheet |
| 10225 | pp_LEGEND-anno | Annotation for notes legends and abbreviations |
| 10226 | pp_LOTB | Log of test borings |
| 10227 | pp_LOTB-anno | Annotation of log of test borings |
| 10228 | pp_MASKING | Masking applied to cells and elements |
| 10229 | pp_MISC | Miscellaneous cells line-styles and information on plans |
| 10230 | pp_MOTORIST-INFO | Motorist information sheets |
| 10231 | pp_MOTORIST-INFO-anno | Annotation for motorist information sheets |
| 10232 | border_SEAL | Seal information of licensed |

| Number | Name | Description |
|---------------|-------------------------|---|
| | | person |
| 10232 | pp_PRESENTATION | Cells line-styles or other info for design presentation |
| 10233 | pp_PROJECT-CONTROL-anno | Annotation for project control sheets |
| 10234 | pp_PROJECT-CONTROL-MAP | Project control sheets |
| 10235 | pp_RASTER | Raster images |
| 10236 | pp_TITLE-LOC-TABLE | Tabular data for locations of construction |
| 10237 | pp_TITLE-SHEET-anno | Annotation for title sheet map |
| 10238 | pp_TITLE-SHEET-MAP | Title sheet map |
| 10239 | border_NO-PLOT | Elements on this level will not plot! |
| 10240 | pp_NO-PLOT | Elements on this level will not plot! |
| 10300 | advplan_ALTERNATIVE-1 | Alternative number 1 |
| 10301 | advplan_ALTERNATIVE-2 | Alternative number 2 |
| 10302 | advplan_ALTERNATIVE-3 | Alternative number 3 |
| 10303 | advplan_ENV-STUDIES | Environmental studies on impacted areas |
| 10304 | gis_SHAPE-FILES | Shape files |
| 10305 | gis_NO-PLOT | Elements on this level will not plot! |
| 10400 | rd_TORUS-anno | Annotation for Torus design information |
| 10401 | rd_TRDESIGNSYMBOL | Torus design symbols |
| 10402 | rd_TRFASTESTPATH | Torus fastest path |
| 10403 | rd_TRGRADING | Torus grading |
| 10404 | rd_TSTORUS | Torus design information |
| 10405 | rd_TORUS-NO-PLOT | Elements on this level will not plot! |
| 10500 | vis_BRIDGE | Visualization of bridges |
| 10501 | vis_BUILDING | Visualization of buildings |
| 10502 | vis_CAR | Visualization of cars |
| 10503 | vis_GRASS | Visualization of grassy areas |
| 10504 | vis_LINEAR-FEATURE | Visualization of various linear features |
| 10505 | vis_MAN-MADE-OBJ | Visualization of man-made objects |
| 10506 | vis_MATERIAL | Visualization of various type materials |
| 10507 | vis_NATURAL-OBJ | Visualization of natural objects |
| 10508 | vis_PLANT | Visualization of various plants |
| 10509 | vis_POINT-FEATURE | Visualization of various point |

| Number | Name | Description |
|---------------|------------------|---|
| | | features |
| 10510 | vis_PVMT-MARKING | Visualization of pavement striping and markings |
| 10511 | vis_SKY | Visualization of clouds and sky |
| 10512 | vis_SURFACE | Visualization of various surfaces |
| 10513 | vis_TIME-LAPSE | Visualization showing time lapse |
| 10514 | vis_TREE | Visualization of various trees |
| 10515 | vis_NO-PLOT | Elements on this level will not plot! |

For projects using Named Level convention the following tables identify the Level number and the corresponding color assigned to the level.

| Number | Name | Color |
|---------------|-------------------------------------|--------------|
| 1000 | topo_ph_bndy_anno_drop | Red/3 |
| 1001 | topo_ph_bndy_gnv_info_only | Red/3 |
| 1002 | topo_ph_bndy_map_lmt_info_only | Red/3 |
| 1003 | topo_ph_bndy_ortho_info_only | Red/3 |
| 1004 | topo_ph_bndy_void_drop | Peru/31 |
| 1005 | topo_ph_dtm_anno_drop | Brown/7 |
| 1006 | topo_ph_dtm_brk_spot_info_only | Red/3 |
| 1007 | topo_ph_dtm_cont_index_anno_drop | Brown/7 |
| 1008 | topo_ph_dtm_cont_index_drop | Brown/7 |
| 1009 | topo_ph_dtm_cont_inter_drop | Brown/7 |
| 1010 | topo_ph_dtm_brk_spot_deck_info_only | Gray/248 |
| 1011 | topo_ph_dtm_cont_index_deck_drop | Gray/248 |
| 1012 | topo_ph_dtm_cont_inter_deck_drop | Gray/248 |
| 1013 | topo_ph_dtm_brk_gnv_info_only | Red/3 |
| 1014 | topo_ph_hydro_anno_drop | Blue/1 |
| 1015 | topo_ph_hydro_df_STR_drop | Blue/1 |
| 1016 | topo_ph_hydro_WATER_drop | Blue/1 |
| 1017 | topo_ph_MISC_check_no_plot | White/0 |
| 1018 | topo_ph_MISC_one_no_plot | White/0 |
| 1019 | topo_ph_MISC_two_no_plot | White/0 |
| 1020 | topo_ph_rdbed_anno_drop | Yellow/4 |
| 1021 | topo_ph_rdbed_AC_drop | Yellow/4 |
| 1022 | topo_ph_rdbed_CONC_drop | Yellow/4 |
| 1023 | topo_ph_rdbed_CURB_drop | Yellow/4 |
| 1024 | topo_ph_rdbed_DIKE_drop | Yellow/4 |
| 1025 | topo_ph_rdbed_DIRT_drop | Yellow/4 |
| 1026 | topo_ph_rdbed_MISC_drop | Yellow/4 |
| 1027 | topo_ph_rdbed_ROCK_drop | Yellow/4 |
| 1028 | topo_ph_rdside_anno_drop | Green/2 |
| 1029 | topo_ph_rdside_AC_drop | Green/2 |
| 1030 | topo_ph_rdside_CONC_drop | Green/2 |
| 1031 | topo_ph_rdside_CURB_drop | Green/2 |
| 1032 | topo_ph_rdside_DIKE_drop | Green/2 |
| 1033 | topo_ph_rdside_DIRT_drop | Green/2 |
| 1034 | topo_ph_rdside_Fence_drop | 247 |
| 1035 | topo_ph_rdside_MISC_drop | Green/2 |
| 1036 | topo_ph_rdside_ROCK_drop | Green/2 |

| Number | Name | Color |
|---------------|---------------------------------------|--------------|
| 1037 | topo_ph_rdside_RR_drop | Green/2 |
| 1038 | topo_ph_str_anno_drop | 247 |
| 1039 | topo_ph_str_BLDG_drop | 247 |
| 1040 | topo_ph_str_anno_deck_drop | Gray/248 |
| 1041 | topo_ph_tcd_BARRIER_deck_drop | Gray/248 |
| 1042 | topo_ph_rdbed_AC_deck_drop | Gray/248 |
| 1043 | topo_ph_rdbed_CONC_deck_drop | Gray/248 |
| 1044 | topo_ph_rdbed_CURB_deck_drop | Gray/248 |
| 1045 | topo_ph_tcd_MARKING_deck_drop | Gray/248 |
| 1046 | topo_ph_str_MISC_deck_drop | Gray/248 |
| 1047 | topo_ph_str_PN_deck_drop | Gray/248 |
| 1048 | topo_ph_str_WALL_drop | 247 |
| 1049 | topo_ph_study_anno_drop | 29 |
| 1050 | topo_ph_study_brk_spot_info_only | 29 |
| 1051 | topo_ph_study_brk_spot_deck_info_only | 29 |
| 1052 | topo_ph_study_brk_gnv_info_only | 29 |
| 1053 | topo_ph_study_water_info_only | Blue/9 |
| 1054 | topo_ph_tcd_anno_drop | Dark Pink/30 |
| 1055 | topo_ph_tcd_BARRIER_drop | Dark Pink/30 |
| 1056 | topo_ph_tcd_MARKING_drop | Dark Pink/30 |
| 1057 | topo_ph_tcd_MISC_drop | Dark Pink/30 |
| 1058 | topo_ph_tcd_SIGN_drop | Dark Pink/30 |
| 1059 | topo_ph_ut_anno_drop | Thistle/15 |
| 1060 | topo_ph_ut_APPR_drop | Thistle/15 |
| 1061 | topo_ph_ut_LTG_drop | Thistle/15 |
| 1062 | topo_ph_ut_MISC_drop | Thistle/15 |
| 1063 | topo_ph_ut_POLE_drop | Thistle/15 |
| 1064 | topo_ph_veg_anno_drop | 82 |
| 1065 | topo_ph_veg_drop | 82 |
| 1066 | border_topo_GridTicks_info_only | White/0 |
| 1067 | border_topo_ph_ctrl_info_only | White/0 |
| 1068 | topo_ph_data_info_only | White/0 |
| 1069 | topo_ph_hydro_df_STR_deck_drop | Gray/248 |
| 1100 | topo_al_bndy_anno_drop | Red/3 |
| 1101 | topo_al_bndy_gnv_info_only | Red/3 |
| 1102 | topo_al_bndy_map_lmt_info_only | Red/3 |
| 1103 | topo_al_bndy_ortho_info_only | Red/3 |
| 1104 | topo_al_bndy_void_drop | Peru/31 |
| 1105 | topo_al_data_info_only | White/0 |
| 1106 | topo_al_dtm_anno_drop | Brown/7 |

| Number | Name | Color |
|---------------|-------------------------------------|--------------|
| 1107 | topo_al dtm brk spot info only | Red/3 |
| 1108 | topo_al dtm cont index anno drop | Brown/7 |
| 1109 | topo_al dtm cont index drop | Brown/7 |
| 1110 | topo_al dtm cont inter drop | Brown/7 |
| 1111 | topo_al dtm brk spot deck info only | Gray/248 |
| 1112 | topo_al dtm cont index deck drop | Gray/248 |
| 1113 | topo_al dtm cont inter deck drop | Gray/248 |
| 1114 | topo_al dtm brk gnv info only | Red/3 |
| 1115 | topo_al hydro anno drop | Blue/1 |
| 1116 | topo_al hydro df STR deck drop | Gray/248 |
| 1117 | topo_al hydro df STR drop | Blue/1 |
| 1118 | topo_al hydro WATER drop | Blue/1 |
| 1119 | topo_al MISC check no plot | White/0 |
| 1120 | topo_al MISC one no plot | White/0 |
| 1121 | topo_al MISC two no plot | White/0 |
| 1122 | topo_al POINT CLOUD | White/0 |
| 1123 | topo_al rdbed anno drop | Yellow/4 |
| 1124 | topo_al rdbed AC deck drop | Gray/248 |
| 1125 | topo_al rdbed AC drop | Yellow/4 |
| 1126 | topo_al rdbed CONC deck drop | Gray/248 |
| 1127 | topo_al rdbed CONC drop | Yellow/4 |
| 1128 | topo_al rdbed CURB deck drop | Gray/248 |
| 1129 | topo_al rdbed CURB drop | Yellow/4 |
| 1130 | topo_al rdbed DIKE drop | Yellow/4 |
| 1131 | topo_al rdbed DIRT drop | Yellow/4 |
| 1132 | topo_al rdbed MISC drop | Yellow/4 |
| 1133 | topo_al rdbed ROCK drop | Yellow/4 |
| 1134 | topo_al rdside anno drop | Green/2 |
| 1135 | topo_al rdside AC drop | Green/2 |
| 1136 | topo_al rdside CONC drop | Green/2 |
| 1137 | topo_al rdside CURB drop | Green/2 |
| 1138 | topo_al rdside DIKE drop | Green/2 |
| 1139 | topo_al rdside DIRT drop | Green/2 |
| 1140 | topo_al rdside MISC drop | Green/2 |
| 1141 | topo_al rdside ROCK drop | Green/2 |
| 1142 | topo_al rdside RR drop | Green/2 |
| 1143 | topo_al str anno drop | 247 |
| 1144 | topo_al str BLDG drop | 247 |
| 1145 | topo_al str anno deck drop | Gray/248 |
| 1146 | topo_al str MISC deck drop | Gray/248 |

| Number | Name | Color |
|---------------|---|--------------|
| 1147 | topo_al_str_PN_deck_drop | Gray/248 |
| 1148 | topo_al_rdside_Fence_drop | 247 |
| 1149 | topo_al_str_WALL_drop | 247 |
| 1150 | topo_al_study_anno_drop | 29 |
| 1151 | topo_al_study_brk_spot_info_only | 29 |
| 1152 | topo_al_study_brk_spot_deck_info_only | 29 |
| 1153 | topo_al_study_brk_gnv_info_only | 29 |
| 1154 | topo_al_study_water_info_only | Blue/9 |
| 1155 | topo_al_tcd_anno_drop | Dark Pink/30 |
| 1156 | topo_al_tcd_BARRIER_deck_drop | Gray/248 |
| 1157 | topo_al_tcd_BARRIER_drop | Dark Pink/30 |
| 1158 | topo_al_tcd_MARKING_deck_drop | Gray/248 |
| 1159 | topo_al_tcd_MARKING_drop | Dark Pink/30 |
| 1160 | topo_al_tcd_MISC_drop | Dark Pink/30 |
| 1161 | topo_al_tcd_SIGN_drop | Dark Pink/30 |
| 1162 | topo_al_ut_anno_drop | Thistle/15 |
| 1163 | topo_al_ut_APPR_drop | Thistle/15 |
| 1164 | topo_al_ut_LTG_drop | Thistle/15 |
| 1165 | topo_al_ut_MISC_drop | Thistle/15 |
| 1166 | topo_al_ut_POLE_drop | Thistle/15 |
| 1167 | topo_al_veg_anno_drop | 82 |
| 1168 | topo_al_veg_drop | 82 |
| 1200 | topo_ba_dtm_brk_spot_info_only | Brown/7 |
| 1300 | topo_su_ctrl_DIRECTION_info_only | 43 |
| 1301 | topo_su_ctrl_LINE_PTS_info_only | 43 |
| 1302 | topo_su_ctrl_LNWK | 43 |
| 1303 | topo_su_ctrl_point_FD | 43 |
| 1304 | topo_su_ctrl_point_FD_anno | 43 |
| 1305 | topo_su_ctrl_point_MON | 43 |
| 1306 | topo_su_ctrl_point_MON_anno | 43 |
| 1307 | topo_su_dtm_brk_spot_anno_deck_info_only | Gray/248 |
| 1308 | topo_su_dtm_brk_spot_anno_info_only | Red/3 |
| 1309 | topo_su_dtm_brk_spot_anno_underside_info_only | 249 |
| 1310 | topo_su_dtm_brk_spot_deck_info_only | Gray/248 |
| 1311 | topo_su_dtm_brk_spot_info_only | Red/3 |
| 1312 | topo_su_dtm_brk_spot_underside_info_only | 249 |
| 1313 | topo_su_hydro_anno_info_only | Blue/1 |
| 1314 | topo_su_hydro_df_CULV_drop | Blue/1 |
| 1315 | topo_su_hydro_df_MISC_drop | Blue/1 |
| 1316 | topo_su_hydro_df_OPEN_drop | Blue/1 |

| Number | Name | Color |
|---------------|--------------------------------------|--------------|
| 1317 | topo_su_hydro_df_STR_deck_drop | Gray/248 |
| 1318 | topo_su_hydro_df_STR_drop | Blue/1 |
| 1319 | topo_su_hydro_FL_drop | Blue/1 |
| 1320 | topo_su_hydro_LINE_PTS_info_only | Blue/1 |
| 1321 | topo_su_hydro_MISC_drop | Blue/1 |
| 1322 | topo_su_hydro_WATER_drop | Blue/1 |
| 1323 | topo_su_rdbed_AC_deck_drop | Gray/248 |
| 1324 | topo_su_rdbed_AC_drop | Yellow/4 |
| 1325 | topo_su_rdbed_anno_info_only | Yellow/4 |
| 1326 | topo_su_rdbed_CONC_deck_drop | Gray/248 |
| 1327 | topo_su_rdbed_CONC_drop | Yellow/4 |
| 1328 | topo_su_rdbed_CURB_deck_drop | Gray/248 |
| 1329 | topo_su_rdbed_CURB_drop | Yellow/4 |
| 1330 | topo_su_rdbed_DIKE_drop | Yellow/4 |
| 1331 | topo_su_rdbed_DIRT_drop | Yellow/4 |
| 1332 | topo_su_rdbed_FL_deck_drop | Gray/248 |
| 1333 | topo_su_rdbed_FL_drop | Blue/1 |
| 1334 | topo_su_rdbed_LINE_PTS_info_only | Yellow/4 |
| 1335 | topo_su_rdbed_MISC_drop | Yellow/4 |
| 1336 | topo_su_rdbed_ROCK_drop | Yellow/4 |
| 1337 | topo_su_rdside_AC_drop | Green/2 |
| 1338 | topo_su_rdside_anno_info_only | Green/2 |
| 1339 | topo_su_rdside_CONC_drop | Green/2 |
| 1340 | topo_su_rdside_DIRT_drop | Green/2 |
| 1341 | topo_su_rdside_FL_drop | Blue/1 |
| 1342 | topo_su_rdside_LINE_PTS_info_only | Green/2 |
| 1343 | topo_su_rdside_MISC_drop | Green/2 |
| 1344 | topo_su_rdside_ROCK_drop | Green/2 |
| 1345 | topo_su_rdside_RR_drop | Green/2 |
| 1346 | topo_su_rdside_SLIDE_drop | Green/2 |
| 1348 | topo_su_rdside_SW_drop | Green/2 |
| 1349 | topo_su_str_ABUTWW_drop | 247 |
| 1350 | topo_su_str_anno_deck_info_only | Gray/248 |
| 1351 | topo_su_str_anno_info_only | 247 |
| 1352 | topo_su_str_anno_underside_info_only | 249 |
| 1353 | topo_su_str_BLDG_drop | 247 |
| 1354 | topo_su_str_COL_drop | 247 |
| 1357 | topo_su_str_GIRDER_drop | 249 |
| 1358 | topo_su_str_LINE_PTS_deck_info_only | Gray/248 |
| 1359 | topo_su_str_LINE_PTS_info_only | 247 |

| Number | Name | Color |
|---------------|--|--------------|
| 1360 | topo_su_str_LINE_PTS_underside_info_only | 249 |
| 1361 | topo_su_str_MISC_deck_drop | Gray/248 |
| 1362 | topo_su_str_MISC_drop | 247 |
| 1363 | topo_su_str_MISC_underside_drop | 249 |
| 1364 | topo_su_str_PN_deck_drop | Gray/248 |
| 1365 | topo_su_str_WALL_drop | 247 |
| 1366 | topo_su_tcd_anno_info_only | Dark Pink/30 |
| 1367 | topo_su_tcd_BARRIER_deck_drop | Gray/248 |
| 1368 | topo_su_tcd_BARRIER_drop | Dark Pink/30 |
| 1369 | topo_su_tcd_LINE_PTS_info_only | Dark Pink/30 |
| 1370 | topo_su_tcd_MARKER_drop | Dark Pink/30 |
| 1371 | topo_su_tcd_MARKING_deck_drop | Gray/248 |
| 1372 | topo_su_tcd_MARKING_drop | Dark Pink/30 |
| 1373 | topo_su_tcd_MISC_drop | Dark Pink/30 |
| 1374 | topo_su_tcd_SIGN_drop | Dark Pink/30 |
| 1375 | topo_su_ut_anno_info_only | Thistle/15 |
| 1376 | topo_su_ut_APPR | Thistle/15 |
| 1377 | topo_su_ut_CAB | Thistle/15 |
| 1378 | topo_su_ut_CABLE | Thistle/15 |
| 1379 | topo_su_ut_COND | Thistle/15 |
| 1380 | topo_su_ut_LINE_PTS_info_only | Thistle/15 |
| 1381 | topo_su_ut_LTG | Thistle/15 |
| 1382 | topo_su_ut_MARKER | Thistle/15 |
| 1383 | topo_su_ut_METER | Thistle/15 |
| 1384 | topo_su_ut_MH | Thistle/15 |
| 1385 | topo_su_ut_MISC | Thistle/15 |
| 1386 | topo_su_ut_OH | Thistle/15 |
| 1387 | topo_su_ut_PB | Thistle/15 |
| 1388 | topo_su_ut_POLE | Thistle/15 |
| 1389 | topo_su_ut_UG | Thistle/15 |
| 1390 | topo_su_ut_VALVE | Thistle/15 |
| 1391 | topo_su_ut_VAULT | Thistle/15 |
| 1392 | topo_su_veg_anno_info_only | 82 |
| 1393 | topo_su_veg_LINE_PTS_info_only | 82 |
| 1394 | topo_su_veg_MISC_drop | 82 |
| 1395 | topo_su_veg_TREE_drop | 82 |
| 1396 | topo_su_str_BRDG_RAIL_deck_drop | Gray/248 |
| 1397 | topo_su_rdside_CURB_drop | Green/2 |
| 1398 | topo_su_rdside_DIKE_drop | Green/2 |
| 1399 | topo_su_rdside_FENCE_drop | Green/2 |

| Number | Name | Color |
|---------------|---|--------------|
| 1400 | topo_su_rdbed_MISC_deck_drop | Gray/248 |
| 1401 | topo_su_rdside_FL_deck_drop | White/0 |
| 1402 | topo_su_rdside_MISC_deck_drop | White/0 |
| 1403 | topo_su_LINE_PTS_info_only | White/0 |
| 1500 | topo_ml_ctrl_DIRECTION_info_only | 43 |
| 1501 | topo_ml_dtm_brk_spot_anno_deck_info_only | Gray/248 |
| 1502 | topo_ml_dtm_brk_spot_anno_info_only | Red/3 |
| 1503 | topo_ml_dtm_brk_spot_anno_underside_info_only | 249 |
| 1504 | topo_ml_dtm_brk_spot_deck_info_only | Gray/248 |
| 1505 | topo_ml_dtm_brk_spot_info_only | Red/3 |
| 1506 | topo_ml_dtm_brk_spot_underside_info_only | 249 |
| 1507 | topo_ml_hydro_anno_info_only | Blue/1 |
| 1508 | topo_ml_hydro_df_CULV_drop | Blue/1 |
| 1509 | topo_ml_hydro_df_CULV_FL_drop | Blue/1 |
| 1510 | topo_ml_hydro_df_MISC_CLO_drop | Blue/1 |
| 1511 | topo_ml_hydro_df_MISC_drop | Blue/1 |
| 1512 | topo_ml_hydro_df_OPEN_drop | Blue/1 |
| 1513 | topo_ml_hydro_df_STR_deck_drop | Gray/248 |
| 1514 | topo_ml_hydro_df_STR_drop | Blue/1 |
| 1515 | topo_ml_hydro_FL_drop | Blue/1 |
| 1516 | topo_ml_hydro_MISC_drop | Blue/1 |
| 1517 | topo_ml_hydro_WATER_drop | Blue/1 |
| 1518 | topo_ml_hydro_WATER_HWAT_drop | Blue/1 |
| 1519 | topo_ml_POINT_CLOUD | White/0 |
| 1520 | topo_ml_rdbed_AC_deck_drop | Gray/248 |
| 1521 | topo_ml_rdbed_AC_drop | Yellow/4 |
| 1522 | topo_ml_rdbed_anno_info_only | Yellow/4 |
| 1523 | topo_ml_rdbed_CONC_deck_drop | Gray/248 |
| 1524 | topo_ml_rdbed_CONC_drop | Yellow/4 |
| 1525 | topo_ml_rdbed_CURB_deck_drop | Gray/248 |
| 1526 | topo_ml_rdbed_CURB_drop | Yellow/4 |
| 1527 | topo_ml_rdbed_DIKE_drop | Yellow/4 |
| 1528 | topo_ml_rdbed_DIRT_drop | Yellow/4 |
| 1529 | topo_ml_rdbed_FL_deck_drop | Gray/248 |
| 1530 | topo_ml_rdbed_FL_drop | Blue/1 |
| 1531 | topo_ml_rdbed_MISC_drop | Yellow/4 |
| 1532 | topo_ml_rdbed_ROCK_drop | Yellow/4 |
| 1533 | topo_ml_rdside_AC_drop | Green/2 |
| 1534 | topo_ml_rdside_anno_info_only | Green/2 |
| 1535 | topo_ml_rdside_CONC_drop | Green/2 |

| Number | Name | Color |
|---------------|--------------------------------------|--------------|
| 1536 | topo_ml_rdside_DIRT_drop | Green/2 |
| 1537 | topo_ml_rdside_FL_drop | Blue/1 |
| 1538 | topo_ml_rdside_MISC_BOLLARD_drop | Green/2 |
| 1539 | topo_ml_rdside_MISC_drop | Green/2 |
| 1540 | topo_ml_rdside_MISC_FP_drop | Green/2 |
| 1541 | topo_ml_rdside_ROCK_drop | Green/2 |
| 1542 | topo_ml_rdside_RR_APPR_drop | Green/2 |
| 1543 | topo_ml_rdside_RR_drop | Green/2 |
| 1544 | topo_ml_rdside_RR_POST_drop | Green/2 |
| 1545 | topo_ml_rdside_SLIDE_drop | Green/2 |
| 1547 | topo_ml_rdside_SW_drop | Green/2 |
| 1548 | topo_ml_str_ABUTWW_drop | 247 |
| 1549 | topo_ml_str_anno_deck_info_only | Gray/248 |
| 1550 | topo_ml_str_anno_info_only | 247 |
| 1551 | topo_ml_str_anno_underside_info_only | 249 |
| 1552 | topo_ml_str_BLDG_drop | 247 |
| 1553 | topo_ml_str_COL_drop | 247 |
| 1557 | topo_ml_str_GIRDER_drop | 249 |
| 1559 | topo_ml_str_MISC_deck_drop | Gray/248 |
| 1560 | topo_ml_str_MISC_drop | 247 |
| 1561 | topo_ml_str_MISC_underside_drop | 249 |
| 1562 | topo_ml_str_PN_deck_drop | Gray/248 |
| 1563 | topo_ml_str_WALL_drop | 247 |
| 1564 | topo_ml_tcd_anno_info_only | Dark Pink/30 |
| 1565 | topo_ml_tcd_BARRIER_deck_drop | Gray/248 |
| 1566 | topo_ml_tcd_BARRIER_drop | Dark Pink/30 |
| 1567 | topo_ml_tcd_MARKER_drop | Dark Pink/30 |
| 1568 | topo_ml_tcd_MARKER_GUIDE_drop | Dark Pink/30 |
| 1569 | topo_ml_tcd_MARKING_deck_drop | Gray/248 |
| 1570 | topo_ml_tcd_MARKING_drop | Dark Pink/30 |
| 1571 | topo_ml_tcd_MISC_CC_drop | Dark Pink/30 |
| 1572 | topo_ml_tcd_MISC_drop | Dark Pink/30 |
| 1573 | topo_ml_tcd_SIGN_drop | Dark Pink/30 |
| 1574 | topo_ml_ut_anno_info_only | Thistle/15 |
| 1575 | topo_ml_ut_APPR | Thistle/15 |
| 1576 | topo_ml_ut_APPR_SPR | Blue/1 |
| 1577 | topo_ml_ut_CAB | Thistle/15 |
| 1579 | topo_ml_ut_COND | Thistle/15 |
| 1580 | topo_ml_ut_LTG | Thistle/15 |
| 1581 | topo_ml_ut_MARKER | Thistle/15 |

| Number | Name | Color |
|---------------|--|--------------|
| 1582 | topo_ml_ut_METER | Thistle/15 |
| 1583 | topo_ml_ut_MH | Thistle/15 |
| 1584 | topo_ml_ut_MISC | Thistle/15 |
| 1585 | topo_ml_ut_OH | Thistle/15 |
| 1586 | topo_ml_ut_PB | Thistle/15 |
| 1587 | topo_ml_ut_POLE | Thistle/15 |
| 1588 | topo_ml_ut_UG | Thistle/15 |
| 1589 | topo_ml_ut_VALVE | Thistle/15 |
| 1590 | topo_ml_ut_VAULT | Thistle/15 |
| 1591 | topo_ml_veg_anno_info_only | 82 |
| 1592 | topo_ml_veg_MISC_drop | 82 |
| 1593 | topo_ml_veg_TREE_drop | 82 |
| 1594 | topo_ml_rdside_FENCE_drop | Green/2 |
| 1595 | topo_ml_rdside_FENCE_POST_drop | Green/2 |
| 1597 | topo_ml_rdside_CURB_drop | Green/2 |
| 1598 | topo_ml_rdside_DIKE_drop | Green/2 |
| 1599 | topo_ml_bndy_gnv_info_only | Red/3 |
| 1600 | topo_ml_str_BRDG_RAIL_deck_drop | Gray/248 |
| 1601 | topo_ml_rdbed_MISC_deck_drop | Gray/248 |
| 1602 | topo_ml_rdside_MISC_ADA_drop | Green/2 |
| 1603 | topo_TopoDOT_SurveyPT_info_only | White/0 |
| 1604 | topo_ml_study_brk_spot_deck_info_only | White/0 |
| 1606 | topo_ml_study_brk_spot_underside_info_only | White/0 |
| 1607 | topo_ml_study_brk_spot_info_only | White/0 |
| 1608 | topo_ml_study_hydro_info_only | White/0 |
| 1609 | topo_TopoDOT_Data_Tiles_info_only | White/0 |
| 1610 | topo_TopoDOT_PT_Blue_info_only | White/0 |
| 1611 | topo_TopoDOT_PT_Green_info_only | White/0 |
| 1612 | topo_TopoDOT_PT_Orange_info_only | White/0 |
| 1613 | topo_TopoDOT_PT_Red_info_only | White/0 |
| 1614 | topo_TopoDOT_PT_Teal_info_only | White/0 |
| 1615 | topo_TopoDOT_PT_Yellow_info_only | White/0 |
| 1616 | topo_TopoDOT_Scan_Postions_info_only | White/0 |
| 1617 | topo_TopoDOT_TEMP_info_only | White/0 |
| 1618 | topo_ml_tcd_MARKING_LL_deck_drop | White/0 |
| 1619 | topo_ml_tcd_MARKING_LL_drop | White/0 |
| 1900 | align | White/0 |
| 1901 | align_anno | 245 |
| 1903 | align_anno_no_plot | 245 |
| 1904 | align_no_plot | White/0 |

| Number | Name | Color |
|---------------|-------------------------------|--------------|
| 1905 | rw_topo_anno | 245 |
| 1906 | rw_topo_anno_TABLE | 245 |
| 1907 | rw_topo_Calcs_anno_no_plot | 245 |
| 1908 | rw_topo_Calcs_no_plot | White/0 |
| 1909 | rw_topo_Images | White/0 |
| 1910 | rw_topo_Notes_no_plot | 245 |
| 1911 | rw_topo_point | Red/3 |
| 1912 | rw_topo_point_anno | 245 |
| 1912 | rw_topo_point_anno | Red/3 |
| 1913 | rw_topo_point_NON_STANDARD | 239 |
| 1914 | rw_topo_Reference_Files | White/0 |
| 1915 | rw_topo_Wipeout_Areas | 250 |
| 1916 | topo_dtm_anno_info_only | Brown/7 |
| 1917 | topo_dtm_bndy_deck_info_only | Red/3 |
| 1918 | topo_dtm_bndy_info_only | Red/3 |
| 1919 | topo_dtm_cont_anno_deck_drop | 231 |
| 1920 | topo_dtm_cont_anno_drop | Brown/7 |
| 1921 | topo_dtm_cont_index_deck_drop | 231 |
| 1922 | topo_dtm_cont_index_drop | Brown/7 |
| 1923 | topo_dtm_cont_inter_deck_drop | 231 |
| 1924 | topo_dtm_cont_inter_drop | 231 |
| 1925 | topo_dtm_info_only | Brown/7 |
| 1926 | topo_dtm_pt_info_only | Red/3 |
| 1927 | topo_dtm_tri_info_only | Brown/7 |
| 1928 | topo_profile | 231 |
| 1929 | topo_profile_anno | 231 |
| 1930 | topo_section | 231 |
| 1931 | topo_section_anno | 231 |
| 9000 | align_20-SCALE-anno | Green/10 |
| 9001 | align_100-SCALE-anno | Red/11 |
| 9002 | align_BARRIER | Red/11 |
| 9003 | align_BARRIER-anno | Red/11 |
| 9004 | align_COLLECTOR-RD | Thistle/15 |
| 9005 | align_COLLECTOR-RD-anno | Thistle/15 |
| 9006 | align_CULVERT | Blue/9 |
| 9007 | align_CULVERT-anno | Blue/9 |
| 9008 | align_CURB-FLOW-LINE | Blue/9 |
| 9009 | align_CURB-FLOW-LINE-anno | Blue/9 |
| 9010 | align_CURVE-DATA | White/0 |

| Number | Name | Color |
|---------------|------------------------------|--------------|
| 9011 | align_DITCH | Blue/9 |
| 9012 | align_DITCH-anno | Blue/9 |
| 9013 | align_FRONTAGE | Brown/14 |
| 9014 | align_FRONTAGE-anno | Brown/14 |
| 9015 | align_LOCAL-ST | Green/10 |
| 9016 | align_LOCAL-ST-anno | Green/10 |
| 9017 | align_MAIN | White/0 |
| 9018 | align_MAIN-anno | White/0 |
| 9019 | align_PM-REFERENCE-LINE | Thistle/15 |
| 9020 | align_PM-REFERENCE-LINE-anno | Thistle/15 |
| 9021 | align_RAMP | Violet/13 |
| 9022 | align_RAMP-anno | Violet/13 |
| 9023 | align_ROUNDABOUT | Brown/14 |
| 9024 | align_ROUNDABOUT-anno | Broen/14 |
| 9025 | align_SECONDARY-HWY | Cyan/8 |
| 9026 | align_SECONDARY-HWY-anno | Cyan/8 |
| 9027 | align_TEMP | Green/12 |
| 9028 | align_TEMP-anno | Green/12 |
| 9029 | align_WALL | Red/11 |
| 9030 | align_WALL-anno | Red/11 |
| 9031 | align_NO-PLOT | White/0 |
| 9100 | rd_BACKFILL-STRUCTURE | Blue/1 |
| 9101 | rd_BASE-MATERIAL | Blue/1 |
| 9102 | rd_CONST-DETAIL | Blue/1 |
| 9103 | rd_CONST-DETAIL-anno | White/0 |
| 9104 | rd_CONTOUR-anno | Blue/1 |
| 9105 | rd_CONTOUR-MAJOR | Green/2 |
| 9106 | rd_CONTOUR-MINOR | White/0 |
| 9107 | rd_DESIGN-X-SECTION | Blue/1 |
| 9108 | rd_DESIGN-X-SECTION-anno | Blue/1 |
| 9109 | rd_EARTHWORK | Blue/1 |
| 9110 | rd_EARTHWORK-anno | Blue/1 |
| 9111 | rd_EMBANKMENT-ROADWAY | Blue/1 |
| 9112 | rd_EP | Blue/1 |
| 9113 | rd_ES | Blue/1 |
| 9114 | rd_ETW | Blue/1 |
| 9115 | rd_EXCAVATION-DITCH | Blue/1 |
| 9116 | rd_EXCAVATION-ROADWAY | Blue/1 |
| 9117 | rd_EXCAVATION-ROCK | Blue/1 |
| 9118 | rd_EXCAVATION-STRUCTURE | Blue/1 |

| Number | Name | Color |
|---------------|---------------------------|--------------|
| 9119 | rd_FINISH-GRADE-anno | Blue/1 |
| 9120 | rd_FINISH-GRADE-BREAKLINE | Blue/1 |
| 9121 | rd_FINISH-GRADE-POINT | Blue/1 |
| 9122 | rd_HMA-DIKE | Blue/1 |
| 9123 | rd_HMA-DIKE-anno | Blue/1 |
| 9124 | rd_HMA-DIKE-TYPE-A | Blue/1 |
| 9125 | rd_HMA-DIKE-TYPE-C | Blue/1 |
| 9126 | rd_HMA-DIKE-TYPE-D | Blue/1 |
| 9127 | rd_HMA-DIKE-TYPE-E | Blue/1 |
| 9128 | rd_HMA-DIKE-TYPE-F | Blue/1 |
| 9129 | rd_LAYOUT-NOTE-anno | Blue/1 |
| 9130 | rd_MISC | Blue/1 |
| 9131 | rd_PAVEMENT | Blue/1 |
| 9132 | rd_PAVEMENT-anno | Blue/1 |
| 9133 | rd_PAVEMENT-STRUCTURE | Blue/1 |
| 9134 | rd_PROFILE-BARRIER | Blue/1 |
| 9135 | rd_PROFILE-BARRIER-anno | Blue/1 |
| 9136 | rd_PROFILE-FINISH | Blue/1 |
| 9137 | rd_PROFILE-FINISH-anno | Blue/1 |
| 9138 | rd_PROFILE-OG | Blue/1 |
| 9139 | rd_PROFILE-OG-anno | Blue/1 |
| 9140 | rd_PROFILE-WALL | Blue/1 |
| 9141 | rd_PROFILE-WALL-anno | Blue/1 |
| 9142 | rd_QTY-TABLE | Blue/1 |
| 9143 | rd_RIGHT-OF-WAY | Blue/1 |
| 9144 | rd_RIGHT-OF-WAY-anno | Blue/1 |
| 9145 | rd_RIGHT-OF-WAY-TCE | Blue/1 |
| 9146 | rd_SLOPE | Blue/1 |
| 9147 | rd_SUBBASE-MATERIAL | Blue/1 |
| 9148 | rd_SUPERELEVATION | Blue/1 |
| 9149 | rd_SUPERELEVATION-anno | Blue/1 |
| 9150 | rd_SURFACE-BOUNDARY | Green/2 |
| 9151 | rd_SURFACE-BOUNDARY-anno | Green/2 |
| 9152 | rd_SURFACE-REMOVAL-AC | Blue/1 |
| 9153 | rd_SURFACE-REMOVAL-anno | Blue/1 |
| 9154 | rd_SURFACE-REMOVAL-CONC | Blue/1 |
| 9155 | rd_TRIANGLE | Blue/1 |
| 9156 | rd_TRIANGLE-anno | Blue/1 |
| 9157 | rd_TYP-X-SECTION | Blue/1 |
| 9158 | rd_TYP-X-SECTION-anno | White/0 |

| Number | Name | Color |
|---------------|---------------------|--------------|
| 9159 | rd_NO-PLOT | White/0 |
| 9200 | df_BASIN | Blue/9 |
| 9201 | df_BASIN-anno | Blue/9 |
| 9202 | df_CULV-ARCH | Blue/1 |
| 9203 | df_CULV-ARCH-anno | Blue/1 |
| 9204 | df_CULV-BOX | Blue/1 |
| 9205 | df_CULV-BOX-anno | Blue/1 |
| 9206 | df_CULV-TEMP | Blue/1 |
| 9207 | df_CULV-TEMP-anno | Blue/1 |
| 9208 | df_DETAIL | Blue/1 |
| 9209 | df_DETAIL-anno | Blue/1 |
| 9210 | df_DRAIN-EDGE | Blue/1 |
| 9211 | df_DRAIN-HORIZONTAL | Blue/1 |
| 9212 | df_DRAIN-OVERSIDE | Blue/1 |
| 9213 | df_DRAIN-UNDER | Blue/1 |
| 9214 | df_FES | Blue/1 |
| 9215 | df_FLOW-LINE | Blue/1 |
| 9216 | df_HEADWALL | Blue/1 |
| 9217 | df_INLET | Blue/1 |
| 9218 | df_INLET-anno | Blue/1 |
| 9219 | df_INLET-anno_drop | Blue/1 |
| 9220 | df_INLET_drop | Blue/1 |
| 9221 | df_MISC | Blue/9 |
| 9222 | df_MISC-anno | Blue/9 |
| 9223 | df_PIPE | Blue/1 |
| 9224 | df_PIPE-anno | Blue/1 |
| 9225 | df_PIPE-anno_drop | Blue/1 |
| 9226 | df_PIPE-APC | Blue/1 |
| 9227 | df_PIPE-BIT-CTD-CSP | Blue/1 |
| 9228 | df_PIPE-CSP | Blue/1 |
| 9229 | df_PIPE-PP | Blue/1 |
| 9230 | df_PIPE-RCP | Blue/1 |
| 9231 | df_PIPE-SCSP | Blue/1 |
| 9232 | df_PIPE_drop | Blue/1 |
| 9233 | df_PROFILE | Blue/1 |
| 9234 | df_PROFILE-anno | Blue/1 |
| 9235 | df_QTY-TABLE | White/0 |
| 9236 | df_SYSTEM-UNIT-anno | Blue/1 |
| 9237 | df_WATERSHED | Blue/9 |
| 9238 | df_WATERSHED-anno | Blue/9 |

| Number | Name | Color |
|---------------|---------------------|--------------|
| 9239 | df_NO-PLOT | White/0 |
| 9300 | ut_DEFAULT | Yellow/4 |
| 9301 | ut_ELECT-ABN | Red/3 |
| 9302 | ut_ELECT-OH-P | Red/3 |
| 9303 | ut_ELECT-OH-X | Red/3 |
| 9304 | ut_ELECT-P | White/0 |
| 9305 | ut_ELECT-X | Red/3 |
| 9306 | ut_ES-C-ABN | White/0 |
| 9307 | ut_ES-C-X | White/0 |
| 9308 | ut_FIBEROPT-ABN | Violet/5 |
| 9309 | ut_FIBEROPT-OH-P | Violet/5 |
| 9310 | ut_FIBEROPT-OH-X | Violet/5 |
| 9311 | ut_FIBEROPT-P | Violet/5 |
| 9312 | ut_FIBEROPT-X | Violet/5 |
| 9313 | ut_GAS-ABN | Brown/7 |
| 9314 | ut_GAS-P | Brown/7 |
| 9315 | ut_GAS-X | Brown/7 |
| 9316 | ut_IRR-C-ABN | White/0 |
| 9317 | ut_IRR-C-X | White/0 |
| 9318 | ut_JOINT-OH-P | White/0 |
| 9319 | ut_JOINT-OH-X | White/0 |
| 9320 | ut_JOINT-TRENCH-P | White/0 |
| 9321 | ut_JOINT-TRENCH-X | White/0 |
| 9322 | ut_MISC | White/0 |
| 9323 | ut_NATGAS-ABN | Green/2 |
| 9324 | ut_NATGAS-P | Green/2 |
| 9325 | ut_NATGAS-X | Green/2 |
| 9326 | ut_OIL-ABN | Brown/7 |
| 9327 | ut_OIL-P | Brown/7 |
| 9328 | ut_OIL-X | Brown/7 |
| 9329 | ut_RCWATER-ABN | Blue/9 |
| 9330 | ut_RCWATER-P | Blue/9 |
| 9331 | ut_RCWATER-X | Blue/9 |
| 9332 | ut_SEWER-ABN | Orange/6 |
| 9333 | ut_SEWER-P | Orange/6 |
| 9334 | ut_SEWER-X | Orange/6 |
| 9335 | ut_STATE-FIBEROPT-P | Violet/5 |
| 9336 | ut_STATE-FIBEROPT-X | Violet/5 |
| 9337 | ut_STEAM-ABN | Cyan/8 |
| 9338 | ut_STEAM-P | Cyan/8 |

| Number | Name | Color |
|---------------|----------------------------|--------------|
| 9339 | ut_STEAM-X | Cyan/8 |
| 9340 | ut_STORMD-ABN | Blue/1 |
| 9341 | ut_STORMD-P | Blue/1 |
| 9342 | ut_STORMD-X | Blue/1 |
| 9343 | ut_TELECOM-ABN | Violet/5 |
| 9344 | ut_TELECOM-OH-P | Violet/5 |
| 9345 | ut_TELECOM-OH-X | Violet/5 |
| 9346 | ut_TELECOM-P | Violet/5 |
| 9347 | ut_TELECOM-X | Violet/5 |
| 9348 | ut_TELEPH-ABN | Violet/5 |
| 9349 | ut_TELEPH-OH-P | Violet/5 |
| 9350 | ut_TELEPH-OH-X | Violet/5 |
| 9351 | ut_TELEPH-P | Violet/5 |
| 9352 | ut_TELEPH-X | Violet/5 |
| 9353 | ut_TEST-HOLE | White/0 |
| 9354 | ut_TV-ABN | Violet/5 |
| 9355 | ut_TV-OH-P | Violet/5 |
| 9356 | ut_TV-OH-X | Violet/5 |
| 9357 | ut_TV-P | Violet/5 |
| 9358 | ut_TV-X | Violet/5 |
| 9359 | ut_UTILITY-anno | White/0 |
| 9360 | ut_VARIOUS-POINT-FEATURES | White/0 |
| 9361 | ut_WATER-ABN | Blue/1 |
| 9362 | ut_WATER-P | Blue/1 |
| 9363 | ut_WATER-X | Blue/1 |
| 9364 | ut_FEATURE-OUTLINE-CABINET | Green/2 |
| 9365 | ut_FEATURE-OUTLINE-PULLBOX | Red/3 |
| 9366 | ut_FEATURE-OUTLINE-PUMP | Blue/1 |
| 9368 | ut_FEATURE-OUTLINE-VAULT | Orange/6 |
| 9369 | ut_FEATURE-OUTLINE-OTHER | Cyan/8 |
| 9370 | ut_TRAFFIC-CONTROL-ABN | Red/3 |
| 9371 | ut_TRAFFIC-CONTROL-P | Red/3 |
| 9372 | ut_TRAFFIC-CONTROL-X | Red/3 |
| 9373 | ut_POSITIVELOCATION-MISC-X | White/0 |
| 9374 | ut_ITS-X | Red/3 |
| 9375 | ut_NO-PLOT | White/0 |
| 9400 | tcd_BARRIER-CONC | Cyan/8 |
| 9401 | tcd_BARRIER-CONC-anno | Cyan/8 |
| 9402 | tcd_BARRIER-CONC-TYPE-25 | Cyan/8 |
| 9403 | tcd_BARRIER-CONC-TYPE-26 | Cyan/8 |

| Number | Name | Color |
|---------------|-----------------------------------|--------------|
| 9404 | tcd_BARRIER-CONC-TYPE-27MOD | Cyan/8 |
| 9405 | tcd_BARRIER-CONC-TYPE-50 | Cyan/8 |
| 9406 | tcd_BARRIER-CONC-TYPE-60 | Cyan/8 |
| 9407 | tcd_BARRIER-CONC-TYPE-60-PORTABLE | Cyan/8 |
| 9408 | tcd_BARRIER-CONC-TYPE-80 | Cyan/8 |
| 9409 | tcd_BARRIER-CONC-TYPE-90 | Cyan/8 |
| 9410 | tcd_BARRIER-CONC-TYPE-732 | Cyan/8 |
| 9411 | tcd_BARRIER-CONC-TYPE-736 | Cyan/8 |
| 9412 | tcd_BARRIER-CONC-TYPE-742 | Cyan/8 |
| 9413 | tcd_BARRIER-CONC-TYPE-K | Cyan/8 |
| 9414 | tcd_BARRIER-THRIE-BEAM | Brown/14 |
| 9415 | tcd_BARRIER-THRIE-BEAM-anno | Brown/14 |
| 9416 | tcd_BARRIER-THRIE-BEAM-EXIST | Brown/14 |
| 9417 | tcd_CMS | Green/10 |
| 9418 | tcd_CRASH-CUSHION | Green/10 |
| 9419 | tcd_CRASH-CUSHION-anno | Green/10 |
| 9420 | tcd_DELINEATOR | Green/10 |
| 9421 | tcd_DOUBLE-RAIL | Brown/14 |
| 9422 | tcd_GSBWFILL | White/0 |
| 9423 | tcd_GSCOLORFILL | White/0 |
| 9424 | tcd_GSDIMS | White/0 |
| 9425 | tcd_GSOUTLINE | White/0 |
| 9426 | tcd_MARKER | Green/10 |
| 9427 | tcd_MARKER-anno | Green/10 |
| 9428 | tcd_PD-QTY-TABLE | White/0 |
| 9429 | tcd_PVMT-MARKER | Red/3 |
| 9430 | tcd_PVMT-MARKER-anno | Red/3 |
| 9431 | tcd_PVMT-MARKING | Red/3 |
| 9432 | tcd_PVMT-MARKING-anno | Red/3 |
| 9433 | tcd_RAILING | Brown/14 |
| 9434 | tcd_RAILING-anno | Brown/14 |
| 9435 | tcd_RAILING-BR-ST10 | Brown/14 |
| 9436 | tcd_RAILING-BR-ST20S | Brown/14 |
| 9437 | tcd_RAILING-BR-ST30 | Brown/14 |
| 9438 | tcd_RAILING-BR-ST40 | Brown/14 |
| 9439 | tcd_RAILING-BR-ST70 | Brown/14 |
| 9440 | tcd_RAILING-CABLE | Brown/14 |
| 9441 | tcd_RAILING-EXIST | Brown/14 |
| 9442 | tcd_RAILING-MGS | Brown/14 |
| 9443 | tcd_RUMBLE-STRIP | Red/3 |

| Number | Name | Color |
|---------------|---------------------------|--------------|
| 9444 | tcd_RUMBLE-STRIP-anno | Red/3 |
| 9445 | tcd_SIGN-OVERHEAD | Green/12 |
| 9446 | tcd_SIGN-OVERHEAD-anno | Green/12 |
| 9447 | tcd_SIGN-PANEL | Green/12 |
| 9448 | tcd_SIGN-PANEL-anno | Green/12 |
| 9449 | tcd_SIGN-QTY-TABLE | White/0 |
| 9450 | tcd_SIGN-ROADSIDE | Green/12 |
| 9451 | tcd_SIGN-ROADSIDE-anno | Green/12 |
| 9452 | tcd_TRAFFIC-STRIPE | Red/3 |
| 9453 | tcd_TRAFFIC-STRIPE-anno | Red/3 |
| 9454 | tcd_NO-PLOT | White/0 |
| 9500 | mc_CURB | Cyan/8 |
| 9501 | mc_CURB-GUTTER | Cyan/8 |
| 9502 | mc_CURB-RAMP | Cyan/8 |
| 9503 | mc_DRIVEWAY | Cyan/8 |
| 9504 | mc_FENCE | Red/11 |
| 9505 | mc_FENCE-anno | Red/11 |
| 9506 | mc_FENCE-BW | Red/11 |
| 9507 | mc_FENCE-CL | Red/11 |
| 9508 | mc_FENCE-TEMP | Red/11 |
| 9509 | mc_FENCE-WM | Red/11 |
| 9510 | mc_ISLAND | Cyan/8 |
| 9511 | mc_MISC-CONST-anno | Cyan/8 |
| 9512 | mc_PROFILE-CURB-RAMP | Yellow/4 |
| 9513 | mc_PROFILE-FLOW-LINE | Yellow/4 |
| 9514 | mc_PUMPING-EQUIPMENT | Blue/9 |
| 9515 | mc_PUMPING-EQUIPMENT-anno | Blue/9 |
| 9516 | mc_SIDEWALK | Cyan/8 |
| 9517 | mc_SLOPE-PROTECTION | Thistle/15 |
| 9518 | mc_SLOPE-PROTECTION-anno | Thistle/15 |
| 9519 | mc_NO-PLOT | White/0 |
| 9600 | wpc_COMPOST-BERM | Green/10 |
| 9601 | wpc_COMPOST-SOCK | Green/10 |
| 9602 | wpc_FIBER-ROLL | Green/10 |
| 9603 | wpc_FIBER-ROLL-anno | Green/10 |
| 9604 | wpc_SOIL-STABILIZATION | Brown/7 |
| 9605 | wpc_TEMP-anno | Thistle/15 |
| 9606 | wpc_TEMP-DITCH-SWALE | Thistle/15 |
| 9607 | wpc_TEMP-EARTH-BERM | Thistle/15 |
| 9608 | wpc_TEMP-FIBER-ROLL | Thistle/15 |

| Number | Name | Color |
|---------------|------------------------------|--------------|
| 9609 | wpc_TEMP-GRAVEL-BAG | Thistle/15 |
| 9610 | wpc_TEMP-SILT-FENCE | 11 |
| 9611 | wpc_TEMP-SLOPE-DRAIN | Thistle/15 |
| 9612 | wpc_TEMP-STRAW-BALE | Thistle/15 |
| 9613 | wpc_TREATMENT | Brown/14 |
| 9614 | wpc_TREATMENT-anno | Brown/14 |
| 9615 | wpc_TEMP-POINT-Feature | White/0 |
| 9616 | wpc_NO-PLOT | White/0 |
| 9650 | esa_AREA | White/0 |
| 9651 | esa_AREA-anno | White/0 |
| 9652 | esa_BIOLOGICAL | Green/12 |
| 9653 | esa_CULTURAL | Red/11 |
| 9654 | esa_HISTORIC | Violet/13 |
| 9655 | esa_PALEONTOLOGICAL | Brown/14 |
| 9656 | esa_NO-PLOT | White/0 |
| 9700 | wall_RW-ARCH-TREATMENT | Violet/13 |
| 9701 | wall_RW-ARCH-TREATMENT-anno | Violet/13 |
| 9702 | wall_RW-DETAIL | White/0 |
| 9703 | wall_RW-DETAIL-anno | White/0 |
| 9704 | wall_RW-ELEVATION | Brown/7 |
| 9705 | wall_RW-ELEVATION-anno | Brown/7 |
| 9706 | wall_RW-LOTB | White/0 |
| 9707 | wall_RW-LOTB-anno | White/0 |
| 9708 | wall_RW-QTY | White/0 |
| 9709 | wall_RW-TYPICAL-SECTION | Cyan/8 |
| 9710 | wall_RW-TYPICAL-SECTION-anno | Cyan/8 |
| 9711 | wall_SW-ARCH-TREATMENT | Violet/13 |
| 9712 | wall_SW-ARCH-TREATMENT-anno | Violet/13 |
| 9713 | wall_SW-DETAIL | White/0 |
| 9714 | wall_SW-DETAIL-anno | White/0 |
| 9715 | wall_SW-ELEVATION | Brown/14 |
| 9716 | wall_SW-ELEVATION-anno | Brown/14 |
| 9717 | wall_SW-LOTB | White/0 |
| 9718 | wall_SW-LOTB-anno | White/0 |
| 9719 | wall_SW-QTY | White/0 |
| 9720 | wall_SW-TYPICAL-SECTION | Cyan/8 |
| 9721 | wall_SW-TYPICAL-SECTION-anno | Cyan/8 |
| 9722 | wall_SYMBOLGY | Violet/13 |
| 9723 | wall_NO-PLOT | White/0 |
| 9800 | temp_BARRICADES | White/0 |

| Number | Name | Color |
|---------------|---------------------------------|--------------|
| 9801 | temp_CHANNELIZERS | White/0 |
| 9802 | temp_CONSTRUCTION | Green/12 |
| 9803 | temp_CONSTRUCTION-anno | Green/12 |
| 9804 | temp_CRASH-CUSHION | White/0 |
| 9805 | temp_FACILITIES | Green/12 |
| 9806 | temp_FLASHING-ARROW-SIGN | Yellow/4 |
| 9807 | temp_FLASHING-BEACON | Yellow/4 |
| 9808 | temp_HIGH-VISIBILITY-FENCE | Orange/6 |
| 9809 | temp_HIGH-VISIBILITY-FENCE-anno | Orange/6 |
| 9810 | temp_PORTABLE-CMS | Yellow/4 |
| 9811 | temp_PORTABLE-DELINEATORS | White/0 |
| 9812 | temp_PVMT-DELINEATION | Red/3 |
| 9813 | temp_RAILING-TYPE-K | Cyan/8 |
| 9814 | temp_SIGNAL-SYSTEMS | Green/2 |
| 9815 | temp_SIGNAL-SYSTEMS-anno | Green/2 |
| 9816 | temp_TRAFFIC-CONES | White/0 |
| 9817 | temp_TRAFFIC-CONTROL | White/0 |
| 9818 | temp_TRAFFIC-CONTROL-anno | White/0 |
| 9819 | temp_TRAFFIC-DRUMS | White/0 |
| 9820 | temp_NO-PLOT | White/0 |
| 9900 | stage_1 | Red/3 |
| 9901 | stage_1-anno | Red/3 |
| 9902 | stage_1_drop | Red/3 |
| 9903 | stage_2 | Violet/13 |
| 9904 | stage_2-anno | Violet/13 |
| 9905 | stage_2_drop | Violet/13 |
| 9906 | stage_3 | Cyan/8 |
| 9907 | stage_3-anno | Cyan/8 |
| 9908 | stage_3_drop | Cyan/8 |
| 9909 | stage_4 | Violet/5 |
| 9910 | stage_4-anno | Violet/5 |
| 9911 | stage_4_drop | Violet/5 |
| 9912 | stage_5 | Brown/14 |
| 9913 | stage_5-anno | Brown/14 |
| 9914 | stage_5_drop | Brown/14 |
| 9915 | stage_6 | Red/3 |
| 9916 | stage_6-anno | Red/3 |
| 9917 | stage_6_drop | Red/3 |
| 9918 | stage_7 | Violet/13 |
| 9919 | stage_7-anno | Violet/13 |

| Number | Name | Color |
|---------------|---------------------------|--------------|
| 9920 | stage_7_drop | Violet/13 |
| 9921 | stage_8 | Cyan/8 |
| 9922 | stage_8-anno | Cyan/8 |
| 9923 | stage_8_drop | Cyan/8 |
| 9924 | stage_9 | Violet/5 |
| 9925 | stage_9-anno | Violet/5 |
| 9926 | stage_9_drop | Violet/5 |
| 9927 | stage_10 | Brown/14 |
| 9928 | stage_10-anno | Brown/14 |
| 9929 | stage_10_drop | Brown/14 |
| 9930 | stage_NO-PLOT | White/0 |
| 10000 | ls_AREA | White/0 |
| 10001 | ls_AREA-anno | White/0 |
| 10002 | ls_AREA-CULTIVATION | White/0 |
| 10003 | ls_AREA-EC | White/0 |
| 10004 | ls_AREA-EC-DRILL-SEED | White/0 |
| 10005 | ls_AREA-EC-DRY-SEED | White/0 |
| 10006 | ls_AREA-EC-ROLLED-PRODUCT | White/0 |
| 10007 | ls_AREA-HARDSCAPE | White/0 |
| 10008 | ls_AREA-MULCH | White/0 |
| 10009 | ls_AREA-ROADSIDE-CLEARING | White/0 |
| 10010 | ls_CONDUCTOR | White/0 |
| 10011 | ls_CONDUCTOR-anno | White/0 |
| 10012 | ls_CONDUIT | White/0 |
| 10013 | ls_CONDUIT-anno | White/0 |
| 10014 | ls_CONDUIT-EXIST | White/0 |
| 10015 | ls_CONDUIT-EXIST-anno | White/0 |
| 10016 | ls_CONTROLLER | White/0 |
| 10017 | ls_CONTROLLER-anno | White/0 |
| 10018 | ls_CONTROLLER-EXIST | White/0 |
| 10019 | ls_CONTROLLER-EXIST-anno | White/0 |
| 10020 | ls_DETAIL | White/0 |
| 10021 | ls_DETAIL-anno | White/0 |
| 10022 | ls_FLOW-SENSOR-CABLE | White/0 |
| 10023 | ls_FLOW-SENSOR-CABLE-anno | White/0 |
| 10024 | ls_KEY-MAP | White/0 |
| 10025 | ls_KEY-MAP-anno | White/0 |
| 10026 | ls_MISC-anno | White/0 |
| 10027 | ls_MISC-CELL | White/0 |
| 10028 | ls_PLANT | White/0 |

| Number | Name | Color |
|---------------|---------------------------|--------------|
| 10029 | ls_PLANT-anno | White/0 |
| 10030 | ls_PLANT-AREA | White/0 |
| 10031 | ls_PLANT-CUTTING | White/0 |
| 10032 | ls_PLANT-GROUNDCOVER | White/0 |
| 10033 | ls_PLANT-LINER | White/0 |
| 10034 | ls_PLANT-SHRUB | White/0 |
| 10035 | ls_PLANT-TREE | White/0 |
| 10036 | ls_POINT-FEATURE | White/0 |
| 10037 | ls_QTY-TABLE | White/0 |
| 10038 | ls_SCHEDULE-LEGEND | White/0 |
| 10039 | ls_SPRINKLER | White/0 |
| 10040 | ls_SPRINKLER-anno | White/0 |
| 10041 | ls_SPRINKLER-EXIST | White/0 |
| 10042 | ls_SPRINKLER-EXIST-anno | White/0 |
| 10043 | ls_SUPPLY-LINE | White/0 |
| 10044 | ls_SUPPLY-LINE-anno | White/0 |
| 10045 | ls_SUPPLY-LINE-BRIDGE | White/0 |
| 10046 | ls_SUPPLY-LINE-CLASS315 | White/0 |
| 10047 | ls_SUPPLY-LINE-COPPER | White/0 |
| 10048 | ls_SUPPLY-LINE-EXIST | White/0 |
| 10049 | ls_SUPPLY-LINE-EXIST-anno | White/0 |
| 10050 | ls_SUPPLY-LINE-GSP | White/0 |
| 10051 | ls_SUPPLY-LINE-LATERAL | White/0 |
| 10052 | ls_SUPPLY-LINE-MAIN | White/0 |
| 10053 | ls_SUPPLY-LINE-SCH40 | White/0 |
| 10054 | ls_SUPPLY-LINE-TUBING | White/0 |
| 10055 | ls_VALVE | White/0 |
| 10056 | ls_VALVE-anno | White/0 |
| 10057 | ls_VALVE-EXIST | White/0 |
| 10058 | ls_VALVE-EXIST-anno | White/0 |
| 10059 | ls_IRRIGATION | White/0 |
| 10060 | ls_IRRIGATION-EXIST | White/0 |
| 10061 | ls_PLANT-VINE | White/0 |
| 10062 | ls_NO-PLOT | White/0 |
| 10100 | es_CCTV | White/0 |
| 10101 | es_CCTV-anno | White/0 |
| 10102 | es_CELL-anno | White/0 |
| 10103 | es_CELL-CONDUIT-RISER | Red/3 |
| 10104 | es_CELL-LIGHTING | Yellow/4 |
| 10105 | es_CELL-MISC-COMPONENTS | Violet/5 |

| Number | Name | Color |
|---------------|------------------------------|--------------|
| 10106 | es_CELL-NOTE-SYMBOL | White/0 |
| 10107 | es_CELL-SIGNALS | Green/2 |
| 10108 | es_CMS | White/0 |
| 10109 | es_CMS-anno | White/0 |
| 10110 | es_DETAIL | White/0 |
| 10111 | es_DETAIL-anno | White/0 |
| 10112 | es_EMS | White/0 |
| 10113 | es_EMS-anno | White/0 |
| 10114 | es_EVD | White/0 |
| 10115 | es_EVD-anno | White/0 |
| 10116 | es_EXIST | White/0 |
| 10117 | es_EXIST-anno | White/0 |
| 10118 | es_FLASHING-BEACON | White/0 |
| 10119 | es_FLASHING-BEACON-anno | White/0 |
| 10120 | es_FO | White/0 |
| 10121 | es_FO-anno | White/0 |
| 10122 | es_HAR | White/0 |
| 10123 | es_HAR-anno | White/0 |
| 10124 | es_INTERCONNECTION | White/0 |
| 10125 | es_INTERCONNECTION-anno | White/0 |
| 10126 | es_LEGEND-anno | White/0 |
| 10127 | es_LIGHTING | White/0 |
| 10128 | es_LIGHTING-anno | White/0 |
| 10129 | es_LIGHTING-CITY | White/0 |
| 10130 | es_LIGHTING-CITY-anno | White/0 |
| 10131 | es_LIGHTING-TEMP | White/0 |
| 10132 | es_LIGHTING-TEMP-anno | White/0 |
| 10133 | es_MODIFY-CCTV | White/0 |
| 10134 | es_MODIFY-CCTV-anno | White/0 |
| 10135 | es_MODIFY-EMS | White/0 |
| 10136 | es_MODIFY-EMS-anno | White/0 |
| 10137 | es_MODIFY-EVD | White/0 |
| 10138 | es_MODIFY-EVD-anno | White/0 |
| 10139 | es_MODIFY-FO | White/0 |
| 10140 | es_MODIFY-FO-anno | White/0 |
| 10141 | es_MODIFY-HAR-EMS | White/0 |
| 10142 | es_MODIFY-HAR-EMS-anno | White/0 |
| 10143 | es_MODIFY-RAMP-METERING | White/0 |
| 10144 | es_MODIFY-RAMP-METERING-anno | White/0 |
| 10145 | es_MODIFY-RWIS | White/0 |

| Number | Name | Color |
|---------------|----------------------------------|--------------|
| 10146 | es_MODIFY-RWIS-anno | White/0 |
| 10147 | es_MODIFY-SIGNAL-LIGHTING | White/0 |
| 10148 | es_MODIFY-SIGNAL-LIGHTING-anno | White/0 |
| 10149 | es_MODIFY-SIGN-ILLUMINATION | White/0 |
| 10150 | es_MODIFY-SIGN-ILLUMINATION-anno | White/0 |
| 10151 | es_QTY-TABLE | White/0 |
| 10152 | es_RAMP-METERING | White/0 |
| 10153 | es_RAMP-METERING-anno | White/0 |
| 10154 | es_REMOVE | White/0 |
| 10155 | es_REMOVE-anno | White/0 |
| 10156 | es_RWIS | White/0 |
| 10157 | es_RWIS-anno | White/0 |
| 10158 | es_SERVICE-BOOSTER-PUMP | White/0 |
| 10159 | es_SERVICE-BOOSTER-PUMP-anno | White/0 |
| 10160 | es_SERVICE-IRRIGATION | White/0 |
| 10161 | es_SERVICE-IRRIGATION-anno | White/0 |
| 10162 | es_SIGNAL-LIGHTING | White/0 |
| 10163 | es_SIGNAL-LIGHTING-anno | White/0 |
| 10164 | es_SIGNAL-LIGHTING-CITY | White/0 |
| 10165 | es_SIGNAL-LIGHTING-CITY-anno | White/0 |
| 10166 | es_SIGN-ILLUMINATION | White/0 |
| 10167 | es_SIGN-ILLUMINATION-anno | White/0 |
| 10168 | es_STAGE-1 | White/0 |
| 10169 | es_STAGE-1_drop | White/0 |
| 10170 | es_STAGE-1-anno | White/0 |
| 10171 | es_STAGE-2 | White/0 |
| 10172 | es_STAGE-2_drop | White/0 |
| 10173 | es_STAGE-2-anno | White/0 |
| 10174 | es_STAGE-3 | White/0 |
| 10175 | es_STAGE-3_drop | White/0 |
| 10176 | es_STAGE-3-anno | White/0 |
| 10177 | es_STAGE-4 | White/0 |
| 10178 | es_STAGE-4_drop | White/0 |
| 10179 | es_STAGE-4-anno | White/0 |
| 10180 | es_STAGE-5 | White/0 |
| 10181 | es_STAGE-5_drop | White/0 |
| 10182 | es_STAGE-5-anno | White/0 |
| 10183 | es_TMS | White/0 |
| 10184 | es_TMS-anno | White/0 |
| 10185 | es_CELL | White/0 |

| Number | Name | Color |
|---------------|-------------------------------|--------------|
| 10186 | es_NO-PLOT | White/0 |
| 10187 | es_MVDS | White/0 |
| 10200 | border_CLIP-FRAME | Red/3 |
| 10201 | border_CLIP-FRAME-20SCALE | Red/3 |
| 10202 | border_CLIP-FRAME-100SCALE | Red/3 |
| 10203 | border_DATUM-LINE | White/0 |
| 10204 | border_GRID-MAJOR_drop | Green/2 |
| 10205 | border_GRID-MINOR_drop | Red/3 |
| 10206 | border_INSIDE-BORDER-anno | Violet/13 |
| 10207 | border_PLOTTING-ELEMENTS | 252 |
| 10208 | border_PROJ-ID-BLOCK-anno | Violet/13 |
| 10209 | border_SEAL | Yellow/4 |
| 10210 | border_SHEET | White/0 |
| 10211 | border_SIGNATURE | Yellow/4 |
| 10212 | border_WITHIN-BORDER-anno | Violet/13 |
| 10213 | pp_ADDENDUM | Orange/6 |
| 10214 | pp_AERIAL-IDENTIFICATION | White/0 |
| 10215 | pp_AERIAL-IDENTIFICATION-anno | White/0 |
| 10216 | pp_ARCHIVE | Red/3 |
| 10217 | pp_AS-AWARDED | Violet/5 |
| 10218 | pp_AS-BUILT | Red/3 |
| 10219 | pp_CAS | White/0 |
| 10220 | pp_CAS-anno | White/0 |
| 10221 | pp_CAS-TABLE | White/0 |
| 10222 | pp_CO | Green/10 |
| 10223 | pp_KEY-MAP-LINE-INDEX | White/0 |
| 10223 | border | White/0 |
| 10224 | pp_KEY-MAP-LINE-INDEX-anno | White/0 |
| 10225 | pp_LEGEND-anno | White/0 |
| 10225 | border_WITHIN-Border_anno | 245 |
| 10226 | pp_LOTB | White/0 |
| 10227 | pp_LOTB-anno | White/0 |
| 10228 | pp_MASKING | 250 |
| 10229 | pp_MISC | White/0 |
| 10230 | pp_MOTORIST-INFO | White/0 |
| 10231 | pp_MOTORIST-INFO-anno | White/0 |
| 10232 | pp_PRESENTATION | White/0 |
| 10232 | border_SEAL | 245 |
| 10233 | pp_PROJECT-CONTROL-anno | White/0 |
| 10234 | pp_PROJECT-CONTROL-MAP | White/0 |

| Number | Name | Color |
|--------|-----------------------|------------|
| 10235 | pp_RASTER | Green/10 |
| 10236 | pp_TITLE-LOC-TABLE | White/0 |
| 10237 | pp_TITLE-SHEET-anno | White/0 |
| 10238 | pp_TITLE-SHEET-MAP | White/0 |
| 10239 | border_NO-PLOT | White/0 |
| 10240 | pp_NO-PLOT | White/0 |
| 10300 | advplan_ALTERNATIVE-1 | Violet/13 |
| 10301 | advplan_ALTERNATIVE-2 | Green/12 |
| 10302 | advplan_ALTERNATIVE-3 | Red/11 |
| 10303 | advplan_ENV-STUDIES | Brown/14 |
| 10304 | gis_SHAPE-FILES | Thistle/15 |
| 10305 | gis_NO-PLOT | White/0 |
| 10400 | rd_TORUS-anno | White/0 |
| 10401 | rd_TRDESIGNSYMBOL | White/0 |
| 10402 | rd_TRFASTESTPATH | White/0 |
| 10403 | rd_TRGRADING | White/0 |
| 10404 | rd_TSTORUS | White/0 |
| 10405 | rd_TORUS-NO-PLOT | White/0 |
| 10500 | vis_BRIDGE | White/0 |
| 10501 | vis_BUILDING | White/0 |
| 10502 | vis_CAR | White/0 |
| 10503 | vis_GRASS | White/0 |
| 10504 | vis_LINEAR-FEATURE | White/0 |
| 10505 | vis_MAN-MADE-OBJ | White/0 |
| 10506 | vis_MATERIAL | White/0 |
| 10507 | vis_NATURAL-OBJ | White/0 |
| 10508 | vis_PLANT | White/0 |
| 10509 | vis_POINT-FEATURE | White/0 |
| 10510 | vis_PVMT-MARKING | White/0 |
| 10511 | vis_SKY | White/0 |
| 10512 | vis_SURFACE | White/0 |
| 10513 | vis_TIME-LAPSE | White/0 |
| 10514 | vis_TREE | White/0 |
| 10515 | vis_NO-PLOT | White/0 |

C. Exceptions or flexibility from the Caltrans Standard Leveling Convention

The Caltrans Standard Leveling Convention for Pre-V8 MicroStation files should not be changed. For projects using the “V8 Standards” leveling convention, there are times when an exception (or some flexibility) may expedite the handling of a project to achieve the desired intent. Utilizing

the undefined levels will handle most of the situations not defined by the standard leveling convention. When using undefined levels, communicate to others what was done to eliminate the loss of efficiency and productivity.

For projects using the “Named Levels” convention, additional levels may be created that conform to the level name styles described in this section. When new levels are created, it is encouraged to communicate the information over to other users and functional units working on the project.

Example: For Pre-V8 MicroStation design files existing utilities belong on level 5, color orange/6. Level 5 is a dropout level, which changes the weight of the lines representing the utilities to a zero weight and changes the solid line to a dotted line. In the past, some Contractors and Resident Engineers could not clearly see the utility line depicted on the Contract Plans, thus creating confusion and a possible source of conflict.

One way to handle the situation is to move the utility information to an undefined level (which does not dropout). Thus, the lines representing the utilities will be more visible on the Contract Plans. If the existing utilities are placed on a non-dropout level, 2 features/attributes have been added to help distinguish existing from proposed. The symbology for existing utilities will have a lowercase letter while proposed utilities will have an uppercase letter. Existing utilities will be shown as a thinner line while proposed utilities will be shown as a thicker line. The difference in width is the important point in distinguishing between existing and proposed. The suggested difference in line weight (wt) is **wt = 1** for existing and **wt = 3** for proposed. On a crowded or cluttered plan sheet, another suggestion would be to use line weight **wt = 0** for existing and **wt = 2** for proposed.

In a V8 Standards MicroStation design file, Levels 812 through 849 has been set aside under the “V8 Standards” leveling convention for all utilities (existing and new) shown in a Caltrans project. The only information on each of these levels is a specific Caltrans custom line style (see Appendix A9 of this manual for the specific line style assigned to each level). The existing utilities are not dropped out, so the symbology that distinguishes the existing from new utilities (as stated in the previous paragraph) is very important to adhere to.

Note 1: Colors have been assigned to various utilities for 2 reasons:

1. To easily distinguish between the various utilities when viewing the design files in the monitor.
2. To assist in the future ability to plot utility verification maps in color. Yellow color is not used because it is difficult to see when plotted.

(See cell “AAUTIL” in the Caltrans English Cell Library for the assigned colors. Caltrans custom line styles depicting utilities have been defaulted to these assigned colors).

Note 2: For projects using the “V8 Standards” leveling convention, Traffic Electrical has only 1 level (level 47) to place design information. To assist the CADD operator in distinguishing between the various electrical components, cells have been created in various colors, grouped by type of electrical components or symbols. The color scheme is listed below.

| | |
|----------|-----------------------------|
| White = | Notes and Symbols |
| Yellow = | Lighting |
| Green = | Signals |
| Red = | Conduit and Riser |
| Violet = | Other Electrical Components |

Note 3: For projects using the “V8 Standards” and “Pre-V8” leveling convention, level 63 has been reserved for the Engineer’s Signature. The color white/0 is for the Engineer’s signature. The color red/3 is for the “As-Awarded” cell (asawrd) created to be used “in lieu” of the Engineer’s Signature when the design file (dgn) is set to the Resident Engineer to assist with potential CCOs during the construction phase of the project.

D. Structures Design Leveling Convention

1. General Content of Structures Design Levels is as follows:

Pre-V8

| Level(s) | Content |
|--------------------|--|
| Level 1 | Control Data |
| Levels 2 - 8 | Pen table drop out code to be used for elements of existing features |
| Levels 10 | Sheet Formats & Seal Information |
| Level 12 | Dimensions |
| Levels 13, 16 - 19 | Bar Reinforcement |
| Levels 14 & 15 | Notes |
| Levels 20 - 25 | Elements made of structural steel |
| Levels 30 - 35 | Elements made of wood |
| Levels 36 & 37 | Contours |
| Levels 40 - 50 | Elements made of concrete |
| Level 51 | Elements made of concrete masonry |
| Levels 52 & 53 | Bridge Data |
| Levels 54 – 58 | Topo, Original Ground & Survey Control |
| Level 59 | Hydrology Data |
| Level 60 | UBC Code |
| Level 61 | Headquarter Changes |
| Level 62 | As-Built Changes |
| Level 63 | Engineer's Signature |

Reassigned and expanded levels to be used in Structures Design projects are as follows:

V8 Standards

| Level(s) | Content |
|-----------------------|--|
| Level 201 | Control Data |
| Levels 202 - 208 | Pen table drop out code to be used for elements of existing features |
| Levels 210 | Sheet Formats & Seal Information |
| Level 212 | Dimensions |
| Levels 213, 216 - 219 | Bar Reinforcement |
| Levels 214 & 215 | Notes |
| Levels 220 - 225 | Elements made of structural steel |
| Levels 230 - 235 | Elements made of wood |
| Levels 236 & 237 | Contours |

| Level(s) | Content |
|------------------|--|
| Levels 240 - 250 | Elements made of concrete |
| Level 251 | Elements made of concrete masonry |
| Levels 252 & 253 | Bridge Data |
| Levels 254 – 258 | Topo, Original Ground & Survey Control |
| Level 259 | Hydrology Data |
| Level 260 | UBC Code |
| Level 261 | Headquarter Changes |
| Level 262 | As-Built Changes |
| Level 263 | Engineer's Signature |
| Levels 264 - 269 | No Plot |
| Level 270 | Plot Shape for lplot (does not plot) |
| Levels 271 - 300 | Undefined |

Note 1: There were a few levels that were named "### Not Assigned" in the Caltrans DGNLIB that were assigned (defined) per the V8 Standards Chart in the Structures seed files. Those levels are as follows:

Levels 246 through 250 are for Concrete
 Level 253 is for Bridge
 Level 254 is for Topo Data
 Level 255 is for Topo
 Level 256 is for Topo Data for Coutours
 Level 258 is for Survey Control Data
 Level 259 is for Hydrology Data
 Level 260 is for UBC Code

Use the "### Not Assigned" levels as they are defined above or in the Structures seed files, even though the actual name of the level does not reflect the purpose of the level.

Note 2: The "Undefined" levels 271 through 300 were created as place markers so they would not be available for MicroStation to randomly place information on a level slot number within the range of the Caltrans defined levels. Caltrans Structures Design does not use the undefined levels at this time. Anyone, Caltrans or Consultants, desiring to use the Structures Design undefined levels should first contact the editor of this manual and explain the reason so that need might be accommodated in the future by all users.

2. Summary of Structures Levels is as follows:

Pre-V8 and V8 Standards

| Levels | Content |
|---------------|---|
| 1 or 201 | Control (Includes Center Line, Station Line) |
| 2 or 202 | Existing Features for structural steel elements |
| 3 or 203 | Existing Features for wood elements |
| 4 or 204 | Existing Features for concrete elements |
| 5 or 205 | Existing Features for concrete masonry elements |
| 6 or 206 | Existing Features |
| 7 or 207 | Existing Features |
| 8 or 208 | Existing Features |
| 9 or 209 | Reserved for District use |
| 10 or 210 | Sheet Formats & Seal Information |
| 11 or 211 | Undefined |
| 12 or 212 | Dimensioning (Includes dimension lines, witness lines, dimension text, arrow heads & reinforcement leaders) |
| 13 or 213 | Bar Reinforcement |
| 14 or 214 | Detailing Information (Includes text, detail notes & titles) |
| 15 or 215 | Design Notes |
| 16 or 216 | Bar Reinforcement |
| 17 or 217 | Bar Reinforcement |
| 18 or 218 | Bar Reinforcement |
| 19 or 219 | Bar Reinforcement |
| 20 or 220 | Structural Steel |
| 21 or 221 | Structural Steel |
| 22 or 222 | Structural Steel |
| 23 or 223 | Structural Steel |
| 24 or 224 | Structural Steel |
| 25 or 225 | Structural Steel |
| 26 or 226 | Undefined |
| 27 or 227 | Undefined |
| 28 or 228 | Undefined |
| 29 or 229 | Undefined |
| 30 or 230 | Wood |
| 31 or 231 | Wood |
| 32 or 232 | Wood |
| 33 or 233 | Wood |
| 34 or 234 | Wood |

| Levels | Content |
|---------------|--|
| 35 or 235 | Wood |
| 36 or 236 | Minor Contours |
| 37 or 237 | Major Contours |
| 38 or 238 | Undefined |
| 39 or 239 | Undefined |
| 40 or 240 | Concrete |
| 41 or 241 | Concrete |
| 42 or 242 | Concrete |
| 43 or 243 | Concrete |
| 44 or 244 | Concrete |
| 45 or 245 | Concrete |
| 46 or 246 | Concrete |
| 47 or 247 | Concrete |
| 48 or 248 | Concrete |
| 49 or 249 | Concrete |
| 50 or 250 | Concrete |
| 51 or 251 | Concrete (Masonry) |
| 52 or 252 | Bridge Data |
| 53 or 253 | Bridge |
| 54 or 254 | Topo Data |
| 55 or 255 | Topo |
| 56 or 256 | Topo Data for Contours |
| 57 or 257 | Original Ground, batch plotting points |
| 58 or 258 | Survey Control Data |
| 59 or 259 | Hydrology Data |
| 60 or 260 | UBC Code |
| 61 or 261 | Headquarter Changes |
| 62 or 262 | As-Built Changes |
| 63 or 263 | Engineer's Signature |

Summary of additional Levels for Structures Design is as follows:

V8 Standards

| Level(s) | Content |
|-----------------|--------------------------------------|
| 264 – 269 | No Plot |
| 270 | Plot Shape for lplot (does not plot) |
| 271 - 300 | Undefined |

Named Levels

Levels names and Description for levels used by Structures Design is shown in the table below:

| Number | Name | Description |
|---------------|----------------------------|--------------------------------------|
| 7000 | str_Arch-Treatment-A | Architectural Treatment |
| 7001 | str_Arch-Treatment-B | Architectural Treatment |
| 7002 | str_Arch-Treatment-C | Architectural Treatment |
| 7003 | str_Arch-Treatment-D | Architectural Treatment |
| 7004 | str_Arch-Treatment-E | Architectural Treatment |
| 7005 | str_As-Built-Changes-A | As-Built Changes |
| 7006 | str_As-Built-Changes-B | As-Built Changes |
| 7007 | str_As-Built-Changes-C | As-Built Changes |
| 7008 | str_Border-A | Alternate Border Elements |
| 7009 | str_Border-B | Alternate Border Elements |
| 7010 | str_Border-Plot-Shape-A | Border Plot Shape |
| 7011 | str_Border-PSE-OE-Rsvrd-A | Reserved for OE Information |
| 7012 | str_Border-PSE-Seal-A | Engineer's Seal |
| 7013 | str_Border-PSE-Signature-A | Engineer's Signature and Information |
| 7014 | str_Border-Text-A | Editable Border Elements |
| 7015 | str_Border-Title-Block-A | Permanent Border Elements |
| 7016 | str_CCO-Changes-A | CCO Changes |
| 7017 | str_CCO-Changes-B | CCO Changes |
| 7018 | str_CCO-Changes-C | CCO Changes |
| 7019 | str_CCO-Sign-Seal-A | CCO Seal and Signature |
| 7020 | str_Center-Line-A | Item Center Lines |
| 7021 | str_Center-Line-B | Item Center Lines |
| 7022 | str_Center-Line-C | Item Center Lines |
| 7023 | str_Center-Line-D | Item Center Lines |
| 7024 | str_Center-Line-E | Item Center Lines |
| 7025 | str_Concrete-A | Concrete |
| 7026 | str_Concrete-B | Concrete |
| 7027 | str_Concrete-C | Concrete |
| 7028 | str_Concrete-D | Concrete |
| 7029 | str_Concrete-E | Concrete |
| 7030 | str_Concrete-F | Concrete |
| 7031 | str_Concrete-G | Concrete |
| 7032 | str_Concrete-H | Concrete |
| 7033 | str_Concrete-I | Concrete |
| 7034 | str_Concrete-J | Concrete |
| 7035 | str_Concrete-K | Concrete |
| 7036 | str_Concrete-L | Concrete |
| 7037 | str_Concrete-M | Concrete |
| 7038 | str_Concrete-N | Concrete |

| Number | Name | Description |
|---------------|-------------------------------|----------------------------------|
| 7039 | str_Concrete-O | Concrete |
| 7040 | str_Deck-Contours-A | Deck Contours |
| 7041 | str_Deck-Contours-B | Deck Contours |
| 7042 | str_Deck-Contours-C | Deck Contours |
| 7043 | str_Deck-Contours-D | Deck Contours |
| 7044 | str_Deck-Contours-E | Deck Contours |
| 7045 | str_Dimensions-A | Dimensions |
| 7046 | str_Dimensions-B | Dimensions |
| 7047 | str_Dimensions-C | Dimensions |
| 7048 | str_Dimensions-D | Dimensions |
| 7049 | str_Dimensions-E | Dimensions |
| 7050 | str_Drainage-A | Drainage |
| 7051 | str_Drainage-B | Drainage |
| 7052 | str_Drainage-C | Drainage |
| 7053 | str_Drainage-D | Drainage |
| 7054 | str_Drainage-E | Drainage |
| 7055 | str_Dropout-A_dither | Dropout |
| 7056 | str_Dropout-B_dither | Dropout |
| 7057 | str_Dropout-C_dither | Dropout |
| 7058 | str_Dropout-D_dither | Dropout |
| 7059 | str_Dropout-E_dither | Dropout |
| 7060 | str_Dropout-F_dither | Dropout |
| 7061 | str_Dropout-G_dither | Dropout |
| 7062 | str_Dropout-H_dither | Dropout |
| 7063 | str_Dropout-I_dither | Dropout |
| 7064 | str_Dropout-J_dither | Dropout |
| 7065 | str_Dropout-K_dither | Dropout |
| 7066 | str_Dropout-L_dither | Dropout |
| 7067 | str_Engineering-Notes-A | Engineering Notes |
| 7068 | str_Engineering-Notes-B | Engineering Notes |
| 7069 | str_Engineering-Notes-C | Engineering Notes |
| 7070 | str_Existing-A | Existing |
| 7071 | str_Existing-Arch-Treatment-A | Existing Architectural Treatment |
| 7072 | str_Existing-Arch-Treatment-B | Existing Architectural Treatment |
| 7073 | str_Existing-Concrete-A | Existing Concrete |
| 7074 | str_Existing-Concrete-B | Existing Concrete |
| 7075 | str_Existing-Concrete-C | Existing Concrete |
| 7076 | str_Existing-Concrete-D | Existing Concrete |
| 7077 | str_Existing-Non-Metallic-A | Existing Non-Metallic Components |
| 7078 | str_Existing-Non-Metallic-B | Existing Non-Metallic Components |
| 7079 | str_Existing-Railroad-A | Existing Railroad |
| 7080 | str_Existing-Railroad-B | Existing Railroad |

| Number | Name | Description |
|---------------|-------------------------------|----------------------------|
| 7081 | str_Existing-Reinforcement-A | Existing Reinforcement |
| 7082 | str_Existing-Reinforcement-B | Existing Reinforcement |
| 7083 | str_Existing-Reinforcement-C | Existing Reinforcement |
| 7084 | str_Existing-Reinforcement-D | Existing Reinforcement |
| 7085 | str_Existing-Reinforcement-E | Existing Reinforcement |
| 7086 | str_Existing-Reinforcement-F | Existing Reinforcement |
| 7087 | str_Existing-Reinforcement-G | Existing Reinforcement |
| 7088 | str_Existing-Reinforcement-H | Existing Reinforcement |
| 7089 | str_Existing-Reinforcement-I | Existing Reinforcement |
| 7090 | str_Existing-Reinforcement-J | Existing Reinforcement |
| 7091 | str_Existing-Reinforcement-K | Existing Reinforcement |
| 7092 | str_Existing-Reinforcement-L | Existing Reinforcement |
| 7093 | str_Existing-Reinforcement-M | Existing Reinforcement |
| 7094 | str_Existing-Roadway-A | Existing Roadway |
| 7095 | str_Existing-Roadway-B | Existing Roadway |
| 7096 | str_Existing-Steel-A | Existing Steel |
| 7097 | str_Existing-Steel-B | Existing Steel |
| 7098 | str_Existing-Steel-C | Existing Steel |
| 7099 | str_Existing-Steel-D | Existing Steel |
| 7100 | str_Existing-Steel-E | Existing Steel |
| 7101 | str_Existing-Steel-F | Existing Steel |
| 7102 | str_Existing-Steel-G | Existing Steel |
| 7103 | str_Existing-Steel-H | Existing Steel |
| 7104 | str_Existing-Steel-I | Existing Steel |
| 7105 | str_Existing-Steel-J | Existing Steel |
| 7106 | str_Existing-Steel-K | Existing Steel |
| 7107 | str_Existing-Steel-L | Existing Steel |
| 7108 | str_Existing-Steel-M | Existing Steel |
| 7109 | str_Existing-Utilities-A | Existing Utility Items |
| 7110 | str_Existing-Utilities-B | Existing Utility Items |
| 7111 | str_Existing-Wood-A | Existing Wood |
| 7112 | str_Existing-Wood-B | Existing Wood |
| 7113 | str_Grades-A | Grades |
| 7114 | str_Grades-Exec-Backfill-A | Excavation and Backfill |
| 7115 | str_Grades-Exec-Backfill-B | Excavation and Backfill |
| 7116 | str_Grades-Finish-Grade-A | Finish Grade |
| 7117 | str_Grades-Major-Grades-A | Major Grade Contours |
| 7118 | str_Grades-Minor-Grades-A | Minor Grade Contours |
| 7119 | str_Grades-Original-Ground-A | Original Ground |
| 7120 | str_Grades-Slope-Protection-A | Slope Protection |
| 7121 | str_Grades-Top-Toe-Slope-A | Top and Toe of Slope |
| 7122 | str_Grades-Water-A | Water and Flow Items |
| 7123 | str_Guideline-NoPlot-A | Guidelines - Does Not Plot |
| 7124 | str_Guideline-NoPlot-B | Guidelines - Does Not Plot |

| Number | Name | Description |
|---------------|-------------------------------|------------------------------|
| 7125 | str_Guideline-NoPlot-C | Guidelines - Does Not Plot |
| 7126 | str_Guideline-NoPlot-D | Guidelines - Does Not Plot |
| 7127 | str_Guideline-NoPlot-E | Guidelines - Does Not Plot |
| 7128 | str_Hatching-A | Hatching |
| 7129 | str_Hatching-B | Hatching |
| 7130 | str_Hatching-C | Hatching |
| 7131 | str_Hatching-D | Hatching |
| 7132 | str_Hatching-E | Hatching |
| 7133 | str_Layout-A | Layout Lines and Information |
| 7134 | str_Layout-B | Layout Lines and Information |
| 7135 | str_Layout-C | Layout Lines and Information |
| 7136 | str_Layout-D | Layout Lines and Information |
| 7137 | str_Layout-E | Layout Lines and Information |
| 7138 | str_Layout-F | Layout Lines and Information |
| 7139 | str_Layout-G | Layout Lines and Information |
| 7140 | str_Layout-H | Layout Lines and Information |
| 7141 | str_Layout-I | Layout Lines and Information |
| 7142 | str_Layout-J | Layout Lines and Information |
| 7143 | str_Masking-Shape-A | Masking Shape |
| 7144 | str_Masking-Shape-B | Masking Shape |
| 7145 | str_Misc-Steel-A | Miscellaneous Steel |
| 7146 | str_Misc-Steel-B | Miscellaneous Steel |
| 7147 | str_Misc-Steel-C | Miscellaneous Steel |
| 7148 | str_Misc-Steel-D | Miscellaneous Steel |
| 7149 | str_Misc-Steel-E | Miscellaneous Steel |
| 7150 | str_Misc-Steel-F | Miscellaneous Steel |
| 7151 | str_Misc-Steel-G | Miscellaneous Steel |
| 7152 | str_Misc-Steel-H | Miscellaneous Steel |
| 7153 | str_Misc-Steel-I | Miscellaneous Steel |
| 7154 | str_Misc-Steel-J | Miscellaneous Steel |
| 7155 | str_Non-Metallic-Components-A | Non-Metallic Components |
| 7156 | str_Non-Metallic-Components-B | Non-Metallic Components |
| 7157 | str_Non-Metallic-Components-C | Non-Metallic Components |
| 7158 | str_Non-Metallic-Components-D | Non-Metallic Components |
| 7159 | str_Non-Metallic-Components-E | Non-Metallic Components |
| 7160 | str_Prestressed-Components-A | Prestressed Components |
| 7161 | str_Prestressed-Components-B | Prestressed Components |
| 7162 | str_Prestressed-Components-C | Prestressed Components |
| 7163 | str_Prestressed-Components-D | Prestressed Components |
| 7164 | str_Prestressed-Components-E | Prestressed Components |
| 7165 | str_Railroad-A | Railroad |
| 7166 | str_Railroad-B | Railroad |
| 7167 | str_Railroad-C | Railroad |
| 7168 | str_Railroad-D | Railroad |

| Number | Name | Description |
|---------------|------------------------|--------------------|
| 7169 | str_Reinforcement-A | Reinforcement |
| 7170 | str_Reinforcement-B | Reinforcement |
| 7171 | str_Reinforcement-C | Reinforcement |
| 7172 | str_Reinforcement-D | Reinforcement |
| 7173 | str_Reinforcement-E | Reinforcement |
| 7174 | str_Reinforcement-F | Reinforcement |
| 7175 | str_Reinforcement-G | Reinforcement |
| 7176 | str_Reinforcement-H | Reinforcement |
| 7177 | str_Reinforcement-I | Reinforcement |
| 7178 | str_Reinforcement-J | Reinforcement |
| 7179 | str_Reinforcement-K | Reinforcement |
| 7180 | str_Reinforcement-L | Reinforcement |
| 7181 | str_Reinforcement-M | Reinforcement |
| 7182 | str_Reinforcement-N | Reinforcement |
| 7183 | str_Reinforcement-O | Reinforcement |
| 7184 | str_Reinforcement-P | Reinforcement |
| 7185 | str_Reinforcement-Q | Reinforcement |
| 7186 | str_Reinforcement-R | Reinforcement |
| 7187 | str_Reinforcement-S | Reinforcement |
| 7188 | str_Reinforcement-T | Reinforcement |
| 7189 | str_Reinforcement-U | Reinforcement |
| 7190 | str_Reinforcement-V | Reinforcement |
| 7191 | str_Reinforcement-W | Reinforcement |
| 7192 | str_Reinforcement-X | Reinforcement |
| 7193 | str_Reinforcement-Y | Reinforcement |
| 7194 | str_Structural-Steel-A | Structural Steel |
| 7195 | str_Structural-Steel-B | Structural Steel |
| 7196 | str_Structural-Steel-C | Structural Steel |
| 7197 | str_Structural-Steel-D | Structural Steel |
| 7198 | str_Structural-Steel-E | Structural Steel |
| 7199 | str_Structural-Steel-F | Structural Steel |
| 7200 | str_Structural-Steel-G | Structural Steel |
| 7201 | str_Structural-Steel-H | Structural Steel |
| 7202 | str_Structural-Steel-I | Structural Steel |
| 7203 | str_Structural-Steel-J | Structural Steel |
| 7204 | str_Structural-Steel-K | Structural Steel |
| 7205 | str_Structural-Steel-L | Structural Steel |
| 7206 | str_Structural-Steel-M | Structural Steel |
| 7207 | str_Structural-Steel-N | Structural Steel |
| 7208 | str_Structural-Steel-O | Structural Steel |
| 7209 | str_Text-A | Text |
| 7210 | str_Text-B | Text |
| 7211 | str_Text-C | Text |
| 7212 | str_Text-D | Text |

| Number | Name | Description |
|--------|----------------|---------------|
| 7213 | str_Text-E | Text |
| 7214 | str_Uilities-A | Utility Items |
| 7215 | str_Uilities-B | Utility Items |
| 7216 | str_Uilities-C | Utility Items |
| 7217 | str_Uilities-D | Utility Items |
| 7218 | str_Uilities-E | Utility Items |
| 7219 | str_Uilities-F | Utility Items |
| 7220 | str_Wood-A | Wood |
| 7221 | str_Wood-B | Wood |
| 7222 | str_Wood-C | Wood |
| 7223 | str_Wood-D | Wood |
| 7224 | str_Wood-E | Wood |

3. The following table identifies each level, its associated color and the specific information belonging on each level for a Structures Design project.

Pre-V8 and V8 Standards

The Level Number is shown twice, once for Pre-V8 and a second time for V8 Standards. The color numbers remain the same as it was for Pre-V8 whether using level numbers for Pre-V8 or V8 Standards.

| LEVEL NO. | COLOR NAME AND NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|-----------------------|---------------|--|
| 1/201 | Blue/1 | Control | Control information (e.g. center line, station line) |
| 2/202 | Purple/2 | Existing | Drop out, existing structural steel elements |
| 3/203 | Green/3 | Existing | Drop out, existing wood elements |
| 4/204 | Orange/4 | Existing | Drop out, existing concrete elements |
| 5/205 | Light Slate Blue/5 | Existing | Drop out, existing concrete masonry elements |
| 6/206 | Med Spring Green/6 | Existing | Drop out, existing features |
| 7/207 | Pink/7 | Existing | Drop out, existing features |
| 8/208 | Cyan/8 | Existing | Drop out, existing features |
| 9/209 | Undefined | | Drop out, reserved for District Use |
| 10/210 | White/10 | Sheet Formats | Standard Sheet with border, trim lines, registration seal, signature blocks, District- |

| LEVEL NO. | COLOR NAME AND NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|-----------------------|-----------------------|---|
| | | | County-Kilometer Post, etc. |
| 11/211 | Undefined | | |
| 12/212 | Green/12 | Dimensioning | Dimension lines, witness lines, dimension text, arrow heads & reinforcement leaders |
| 13/213 | Red/13 | Bar Reinforcement | Bar Reinforcement Symbols (excluding reinforcing text) |
| 14/214 | Yellow/14 | Detailing Information | Text, detail notes and titles |
| 15/215 | Thistle/15 | Design Notes | Design Notes |
| 16/216 | Hot Pink/16 | Bar Reinforcement | Bar Reinforcement Symbols |
| 17/217 | Cyan/17 | Bar Reinforcement | Bar Reinforcement Symbols |
| 18/218 | Honeydew/18 | Bar Reinforcement | Bar Reinforcement Symbols |
| 19/219 | Light Blue/19 | Bar Reinforcement | Bar Reinforcement Symbols |
| 20/220 | Aquamarine/20 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 21/221 | Cornflower Blue/21 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 22/222 | Orange/22 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 23/223 | Yellow/23 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 24/224 | Tan/24 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 25/225 | Light Gray/25 | Structural Steel | Structural Steel (plates, beams & misc. steel) |
| 26/226 | Undefined | | |
| 27/227 | Undefined | | |
| 28/228 | Undefined | | |
| 29/229 | Undefined | | |
| 30/230 | Burleywood/30 | Wood | Wood |
| 31/231 | Peru/31 | Wood | Wood |
| 32/232 | Saddle Brown/32 | Wood | Wood |
| 33/233 | Brown/33 | Wood | Wood |
| 34/234 | Dark Goldenrod/34 | Wood | Wood |
| 35/235 | Chocolate/35 | Wood | Wood |
| 36/236 | Coral/36 | Contours | Minor Contours |
| 37/237 | Magenta/37 | Contours | Major Contours |
| 38/238 | Undefined | | |

| LEVEL NO. | COLOR NAME AND NUMBER | TITLE | DESCRIPTION/CONTENT |
|-----------|-----------------------------|-------------------------|--|
| 39/239 | Undefined | | |
| 40/240 | White/40 | Concrete | Concrete |
| 41/241 | Steel Blue/41 | Concrete | Concrete |
| 42/242 | Cadet Blue/42 | Concrete | Concrete |
| 43/243 | Med Violet Red/43 | Concrete | Concrete |
| 44/244 | Lt. Pink/44 | Concrete | Concrete |
| 45/245 | Dark Orange/45 | Concrete | Concrete |
| 46/246 | Azure/46 | Concrete | Concrete |
| 47/247 | Pale Green/47 | Concrete | Concrete |
| 48/248 | Dark Sea Green/48 | Concrete | Concrete |
| 49/249 | Khaki/49 | Concrete | Concrete |
| 50/250 | Light Coral/50 | Concrete | Concrete |
| 51/251 | Deep Sky Blue/51 | Concrete Masonry | Concrete (Masonry) |
| 52/252 | Salmon/52 | Bridge | Bridge Data |
| 53/253 | Dark Khaki/53 | Bridge | Bridge |
| 54/254 | Peach Puff/54 | Topo | Topo Data |
| 55/255 | Med Sea Green/55 | Topo | Topo |
| 56/256 | Firebrick/56 | Topo | Topo Data for Contours |
| 57/257 | Dodger Blue/57 | Original Ground | Original Ground, Batch Plotting Points (circles) |
| 58/258 | Dark Orange/58 | Survey Control | Survey Control Data |
| 59/259 | Pale Turquoise/59 | Hydrology | Hydrology Data |
| 60/260 | White/60 | UBC Code | UBC code information or level map. |
| 61/261 | Yellow/61 | Headquarters Changes | Final plan revisions performed by ESC- OE Drafting Services prior to reproduction. |
| 62/262 | Red/62 | As-Built Changes | Changes made during construction. Revisions are shown by lining out the original information and then placing the as-built information. |
| 63/263 | White/63 (Red for Cells) | Engineer's Signature | Project Engineer's signature. |

Named Levels

The following table identifies the level name, level number and its associated color using the Named Level convention for Structures Design Projects.

| Number | Name | Color |
|---------------|----------------------------|--------------|
| 7000 | str_Arch-Treatment-A | 211 |
| 7001 | str_Arch-Treatment-B | 212 |
| 7002 | str_Arch-Treatment-C | 213 |
| 7003 | str_Arch-Treatment-D | 214 |
| 7004 | str_Arch-Treatment-E | 211 |
| 7005 | str_As-Built-Changes-A | 136 |
| 7006 | str_As-Built-Changes-B | 136 |
| 7007 | str_As-Built-Changes-C | 136 |
| 7008 | str_Border-A | 0 |
| 7009 | str_Border-B | 0 |
| 7010 | str_Border-Plot-Shape-A | 252 |
| 7011 | str_Border-PSE-OE-Rsvrd-A | 0 |
| 7012 | str_Border-PSE-Seal-A | 0 |
| 7013 | str_Border-PSE-Signature-A | 0 |
| 7014 | str_Border-Text-A | 0 |
| 7015 | str_Border-Title-Block-A | 0 |
| 7016 | str_CCO-Changes-A | 138 |
| 7017 | str_CCO-Changes-B | 138 |
| 7018 | str_CCO-Changes-C | 138 |
| 7019 | str_CCO-Sign-Seal-A | 138 |
| 7020 | str_Center-Line-A | 152 |
| 7021 | str_Center-Line-B | 152 |
| 7022 | str_Center-Line-C | 152 |
| 7023 | str_Center-Line-D | 152 |
| 7024 | str_Center-Line-E | 152 |
| 7025 | str_Concrete-A | 0 |
| 7026 | str_Concrete-B | 84 |
| 7027 | str_Concrete-C | 220 |
| 7028 | str_Concrete-D | 225 |
| 7029 | str_Concrete-E | 0 |
| 7030 | str_Concrete-F | 84 |
| 7031 | str_Concrete-G | 220 |
| 7032 | str_Concrete-H | 225 |
| 7033 | str_Concrete-I | 0 |
| 7034 | str_Concrete-J | 84 |
| 7035 | str_Concrete-K | 220 |
| 7036 | str_Concrete-L | 225 |
| 7037 | str_Concrete-M | 0 |
| 7038 | str_Concrete-N | 84 |
| 7039 | str_Concrete-O | 220 |

| Number | Name | Color |
|---------------|-------------------------------|--------------|
| 7040 | str_Deck-Contours-A | 64 |
| 7041 | str_Deck-Contours-B | 187 |
| 7042 | str_Deck-Contours-C | 185 |
| 7043 | str_Deck-Contours-D | 48 |
| 7044 | str_Deck-Contours-E | 32 |
| 7045 | str_Dimensions-A | 152 |
| 7046 | str_Dimensions-B | 152 |
| 7047 | str_Dimensions-C | 152 |
| 7048 | str_Dimensions-D | 152 |
| 7049 | str_Dimensions-E | 152 |
| 7050 | str_Drainage-A | 59 |
| 7051 | str_Drainage-B | 60 |
| 7052 | str_Drainage-C | 61 |
| 7053 | str_Drainage-D | 62 |
| 7054 | str_Drainage-E | 63 |
| 7055 | str_Dropout-A_dither | 85 |
| 7056 | str_Dropout-B_dither | 86 |
| 7057 | str_Dropout-C_dither | 87 |
| 7058 | str_Dropout-D_dither | 88 |
| 7059 | str_Dropout-E_dither | 89 |
| 7060 | str_Dropout-F_dither | 90 |
| 7061 | str_Dropout-G_dither | 91 |
| 7062 | str_Dropout-H_dither | 92 |
| 7063 | str_Dropout-I_dither | 93 |
| 7064 | str_Dropout-J_dither | 94 |
| 7065 | str_Dropout-K_dither | 95 |
| 7066 | str_Dropout-L_dither | 96 |
| 7067 | str_Engineering-Notes-A | 239 |
| 7068 | str_Engineering-Notes-B | 239 |
| 7069 | str_Engineering-Notes-C | 239 |
| 7070 | str_Existing-A | 199 |
| 7071 | str_Existing-Arch-Treatment-A | 211 |
| 7072 | str_Existing-Arch-Treatment-B | 212 |
| 7073 | str_Existing-Concrete-A | 0 |
| 7074 | str_Existing-Concrete-B | 84 |
| 7075 | str_Existing-Concrete-C | 220 |
| 7076 | str_Existing-Concrete-D | 225 |
| 7077 | str_Existing-Non-Metallic-A | 196 |
| 7078 | str_Existing-Non-Metallic-B | 196 |
| 7079 | str_Existing-Railroad-A | 81 |

| Number | Name | Color |
|---------------|------------------------------|--------------|
| 7080 | str_Existing-Railroad-B | 81 |
| 7081 | str_Existing-Reinforcement-A | 48 |
| 7082 | str_Existing-Reinforcement-B | 120 |
| 7083 | str_Existing-Reinforcement-C | 176 |
| 7084 | str_Existing-Reinforcement-D | 185 |
| 7085 | str_Existing-Reinforcement-E | 124 |
| 7086 | str_Existing-Reinforcement-F | 180 |
| 7087 | str_Existing-Reinforcement-G | 32 |
| 7088 | str_Existing-Reinforcement-H | 56 |
| 7089 | str_Existing-Reinforcement-I | 10 |
| 7090 | str_Existing-Reinforcement-J | 64 |
| 7091 | str_Existing-Reinforcement-K | 122 |
| 7092 | str_Existing-Reinforcement-L | 178 |
| 7093 | str_Existing-Reinforcement-M | 187 |
| 7094 | str_Existing-Roadway-A | 195 |
| 7095 | str_Existing-Roadway-B | 196 |
| 7096 | str_Existing-Steel-A | 223 |
| 7097 | str_Existing-Steel-B | 222 |
| 7098 | str_Existing-Steel-C | 221 |
| 7099 | str_Existing-Steel-D | 200 |
| 7100 | str_Existing-Steel-E | 223 |
| 7101 | str_Existing-Steel-F | 222 |
| 7102 | str_Existing-Steel-G | 221 |
| 7103 | str_Existing-Steel-H | 200 |
| 7104 | str_Existing-Steel-I | 223 |
| 7105 | str_Existing-Steel-J | 222 |
| 7106 | str_Existing-Steel-K | 221 |
| 7107 | str_Existing-Steel-L | 200 |
| 7108 | str_Existing-Steel-M | 223 |
| 7109 | str_Existing-Utilities-A | 120 |
| 7110 | str_Existing-Utilities-B | 84 |
| 7111 | str_Existing-Wood-A | 231 |
| 7112 | str_Existing-Wood-B | 7 |
| 7113 | str_Grades-A | 7 |
| 7114 | str_Grades-Exec-Backfill-A | 200 |
| 7115 | str_Grades-Exec-Backfill-B | 231 |
| 7116 | str_Grades-Finish-Grade-A | 7 |
| 7117 | str_Grades-Major-Grades-A | 7 |
| 7118 | str_Grades-Minor-Grades-A | 200 |
| 7119 | str_Grades-Original-Ground-A | 200 |

| Number | Name | Color |
|---------------|-------------------------------|--------------|
| 7120 | str_Grades-Slope-Protection-A | 231 |
| 7121 | str_Grades-Top-Toe-Slope-A | 7 |
| 7122 | str_Grades-Water-A | 1 |
| 7123 | str_Guideline-NoPlot-A | 15 |
| 7124 | str_Guideline-NoPlot-B | 15 |
| 7125 | str_Guideline-NoPlot-C | 15 |
| 7126 | str_Guideline-NoPlot-D | 15 |
| 7127 | str_Guideline-NoPlot-E | 15 |
| 7128 | str_Hatching-A | 213 |
| 7129 | str_Hatching-B | 212 |
| 7130 | str_Hatching-C | 211 |
| 7131 | str_Hatching-D | 212 |
| 7132 | str_Hatching-E | 213 |
| 7133 | str_Layout-A | 1 |
| 7134 | str_Layout-B | 1 |
| 7135 | str_Layout-C | 1 |
| 7136 | str_Layout-D | 1 |
| 7137 | str_Layout-E | 1 |
| 7138 | str_Layout-F | 1 |
| 7139 | str_Layout-G | 1 |
| 7140 | str_Layout-H | 1 |
| 7141 | str_Layout-I | 1 |
| 7142 | str_Layout-J | 1 |
| 7143 | str_Masking-Shape-A | 250 |
| 7144 | str_Masking-Shape-B | 250 |
| 7145 | str_Misc-Steel-A | -- |
| 7146 | str_Misc-Steel-B | -- |
| 7147 | str_Misc-Steel-C | -- |
| 7148 | str_Misc-Steel-D | -- |
| 7149 | str_Misc-Steel-E | -- |
| 7150 | str_Misc-Steel-F | -- |
| 7151 | str_Misc-Steel-G | -- |
| 7152 | str_Misc-Steel-H | -- |
| 7153 | str_Misc-Steel-I | -- |
| 7154 | str_Misc-Steel-J | -- |
| 7155 | str_Non-Metallic-Components-A | 196 |
| 7156 | str_Non-Metallic-Components-B | 196 |
| 7157 | str_Non-Metallic-Components-C | 196 |
| 7158 | str_Non-Metallic-Components-D | 196 |
| 7159 | str_Non-Metallic-Components-E | 196 |

| Number | Name | Color |
|---------------|------------------------------|--------------|
| 7160 | str_Prestressed-Components-A | 6 |
| 7161 | str_Prestressed-Components-B | 6 |
| 7162 | str_Prestressed-Components-C | 6 |
| 7163 | str_Prestressed-Components-D | 6 |
| 7164 | str_Prestressed-Components-E | 6 |
| 7165 | str_Railroad-A | 81 |
| 7166 | str_Railroad-B | 81 |
| 7167 | str_Railroad-C | 81 |
| 7168 | str_Railroad-D | 81 |
| 7169 | str_Reinforcement-A | 48 |
| 7170 | str_Reinforcement-B | 120 |
| 7171 | str_Reinforcement-C | 176 |
| 7172 | str_Reinforcement-D | 185 |
| 7173 | str_Reinforcement-E | 124 |
| 7174 | str_Reinforcement-F | 180 |
| 7175 | str_Reinforcement-G | 32 |
| 7176 | str_Reinforcement-H | 56 |
| 7177 | str_Reinforcement-I | 10 |
| 7178 | str_Reinforcement-J | 64 |
| 7179 | str_Reinforcement-K | 122 |
| 7180 | str_Reinforcement-L | 178 |
| 7181 | str_Reinforcement-M | 187 |
| 7182 | str_Reinforcement-N | 126 |
| 7183 | str_Reinforcement-O | 182 |
| 7184 | str_Reinforcement-P | 48 |
| 7185 | str_Reinforcement-Q | 120 |
| 7186 | str_Reinforcement-R | 176 |
| 7187 | str_Reinforcement-S | 185 |
| 7188 | str_Reinforcement-T | 124 |
| 7189 | str_Reinforcement-U | 180 |
| 7190 | str_Reinforcement-V | 32 |
| 7191 | str_Reinforcement-W | 56 |
| 7192 | str_Reinforcement-X | 10 |
| 7193 | str_Reinforcement-Y | 64 |
| 7194 | str_Structural-Steel-A | 223 |
| 7195 | str_Structural-Steel-B | 222 |
| 7196 | str_Structural-Steel-C | 221 |
| 7197 | str_Structural-Steel-D | 200 |
| 7198 | str_Structural-Steel-E | 223 |
| 7199 | str_Structural-Steel-F | 222 |

| Number | Name | Color |
|--------|------------------------|-------|
| 7200 | str_Structural-Steel-G | 221 |
| 7201 | str_Structural-Steel-H | 200 |
| 7202 | str_Structural-Steel-I | 223 |
| 7203 | str_Structural-Steel-J | 222 |
| 7204 | str_Structural-Steel-K | 221 |
| 7205 | str_Structural-Steel-L | 200 |
| 7206 | str_Structural-Steel-M | 223 |
| 7207 | str_Structural-Steel-N | 222 |
| 7208 | str_Structural-Steel-O | 221 |
| 7209 | str_Text-A | 12 |
| 7210 | str_Text-B | 12 |
| 7211 | str_Text-C | 12 |
| 7212 | str_Text-D | 12 |
| 7213 | str_Text-E | 12 |
| 7214 | str_Uilities-A | 120 |
| 7215 | str_Uilities-B | 84 |
| 7216 | str_Uilities-C | 11 |
| 7217 | str_Uilities-D | 13 |
| 7218 | str_Uilities-E | 6 |
| 7219 | str_Uilities-F | 7 |
| 7220 | str_Wood-A | 231 |
| 7221 | str_Wood-B | 7 |
| 7222 | str_Wood-C | 200 |
| 7223 | str_Wood-D | 7 |
| 7224 | str_Wood-E | 231 |

E. Right of Way (R/W) Mapping Products Leveling Convention

The R/W Mapping leveling conventions are to be used for R/W Mapping Products only. These are not intended for Final Design contract plans. If R/W boundaries & annotation are delivered to Design in a Pre-V8 MicroStation design file, the contract plans leveling convention for Pre-V8 MicroStation design files must be adhered to (e.g., Existing R/W, Easement, and Property Boundaries reside on Level 31; New R/W and Easement Boundaries reside on Level 32; and the Text & Annotation describing data on Levels 31 & 32 reside on Level 33).

If R/W boundaries & annotation are delivered to Design in a V8 Standards MicroStation design file, the leveling convention for V8 Standards MicroStation design files must be adhered to (e.g., Levels 128 through 137).

1. General Content of R/W Mapping Levels is as follows:

Pre-V8

| Level(s) | Content |
|---------------------------|--------------------------------|
| Level 1 | Control Data |
| Levels 2 - 8 | Basic topographic map data |
| Levels 9 - 11 | Sheet formats |
| Levels 13 – 18 | Alignments |
| Levels 19 - 27 | Parcel Coloring |
| Levels 28 – 37, 43 – 46 * | R/W Data |
| Levels 38 – 42 * | Landnet Data |
| Levels 47 – 49 * | Point data |
| Levels 50 – 52 * | Project Surveyor Data |
| Levels 53 & 54 * | Clipping & Plotting Boundaries |
| Levels 12, 55 – 63 ** | Undefined |

* Flexibility from the R/W Mapping Leveling Convention. (See Note 1)

** Undefined levels may be used for information that has not been assigned to a specific level. (See Note 2)

Reassigned and expanded levels to be used in R/W Mapping Products are as follows:

V8 Standards

| Level(s) | Content |
|---------------------|--|
| Levels 101 - 108 | Unassigned, still using Pre-V8 levels (1 through 8) for control and topographic map data |
| Levels 109 - 111 | Sheet formats |
| Level 112 ** | Undefined |
| Level(s) | Content |
| Levels 113 – 118 | Unassigned, still using Pre-V8 levels (13 through 18) for alignments |
| Levels 119 - 127 | Parcel Coloring |
| Levels 128 – 137 * | R/W Data |
| Levels 138 – 142 * | Landnet Data |
| Levels 143 – 146 * | R/W Data |
| Levels 147 – 149 * | Point data |
| Levels 150 – 152 * | Project Surveyor Data |
| Levels 153 & 154 * | Clipping & Plotting Boundaries |
| Levels 155 – 163 ** | Undefined |
| Levels 164 – 169 | No_Plot |
| Level 170 | Plot Shape for lplot (does not plot) |
| Levels 171 – 200 ** | Undefined |

2. Summary of R/W Mapping Levels is as follows:

Pre-V8 and V8 Standards

| Level(s) | Content |
|-----------------|--|
| 1 | Photogrammetric Mapping Control |
| 2 | Existing Man-Made Features |
| 3 | Existing Roadway Features |
| 4 | Existing Vegetation and Natural Features |
| 5 | Existing Utilities and Utility Facilities |
| 6 | Existing Hydrographic Features |
| 7 | Relief Features - Contours |
| 8 | Spot Elevations and Contour Annotations |
| 9 & 109 | Appraisal Map Sheet Information |
| 10 & 110 | General Sheet Formats |
| 11 & 111 | Record Map Sheet Information |
| 12 & 112 | Undefined ** |
| 13 | Ramp, Over and Under Crossing Alignment Data |
| 14 | Ramp, Over and Under Crossing Annotation |
| 15 | Mainline Alignment Data |
| 16 | Mainline Alignment Annotation |
| 17 | Frontage Road Alignment Data |
| 18 | Frontage Road Alignment Annotation |
| 19 & 119 | Parcel Coloring |
| 20 & 120 | Parcel Coloring |
| 21 & 121 | Parcel Coloring |
| 22 & 122 | Parcel Coloring |
| 23 & 123 | Parcel Coloring |
| 24 & 124 | Parcel Coloring |
| 25 & 125 | Parcel Coloring |
| 26 & 126 | Parcel Coloring |
| 27 & 127 | Parcel Coloring |
| 28 & 128 | Existing Easement Boundaries * |
| 29 & 129 | Existing Easement Annotation * |
| 30 & 130 | Existing R/W Annotation * |
| 31 & 131 | Existing R/W Boundaries * |
| 32 & 132 | New R/W Boundaries * |
| 33 & 133 | New R/W Annotation * |
| 34 & 134 | New Easement Boundaries * |
| 35 & 135 | New Easement Annotation * |
| 36 & 136 | Temporary Easement Boundaries * |
| 37 & 137 | Temporary Easement Annotation * |
| 38 & 138 | Minor Landnet Boundaries * |
| 39 & 139 | Minor Landnet Annotation * |
| 40 & 140 | Major Landnet Boundaries * |

| Level(s) | Content |
|----------|--|
| 41 & 141 | Major Landnet Annotation * |
| 42 & 142 | Political & Municipal Boundaries * |
| 43 & 143 | JUA/CCUA/Freeway Lease Boundaries & Annotation * |
| 44 & 144 | Relinquishment * |
| 45 & 145 | Directors Deed * |
| 46 & 146 | Vacation/Abandonment * |
| 47 & 147 | Landnet Point Data * |
| 48 & 148 | R/W Point Data * |
| 49 & 149 | Landnet & R/W Plotted Point Data * |
| 50 & 150 | Retracement Data * |
| 51 & 151 | Retracement Annotation * |
| 52 & 152 | Retracement Comments * |
| 53 & 153 | Clip Boundaries * |
| 54 & 154 | Plot Boundaries * |
| 55 & 155 | Undefined ** |
| 56 & 156 | Undefined ** |
| 57 & 157 | Undefined ** |
| 58 & 158 | Undefined ** |
| 59 & 159 | Undefined ** |
| 60 & 160 | Undefined ** |
| 61 & 161 | Undefined ** |
| 62 & 162 | Undefined ** |
| 63 & 163 | Undefined ** |

* Flexibility from the R/W Mapping Leveling Convention. (See Note 1)

** Undefined levels may be used for information that has not been assigned to a specific level. (See Note 2)

Expanded levels to be used in R/W Mapping Products are as follows:

V8 Standards

| Level(s) | Content |
|--------------|--------------------------------------|
| 164 - 169 | No Plot |
| 170 | Plot Shape for lplot (does not plot) |
| 171 – 200 ** | Undefined |

- The following table identifies each level, the associated level name, and the specific information belonging on each level for R/W Mapping projects for both Pre-V8 and V8 Standards projects. Levels with only one number are for both Pre-V8 and V8 Standards projects and the levels **were not** reassigned. Level names are exactly as identified in MicroStation for Pre-V8 (including the level number). Level names for V8 Standards will now reflect the new level number instead of the Pre-V8 level number (see Appendix A9). Note: level naming has a character length restriction.

Pre-V8 and V8 Standards

| LEVEL NO. | LEVEL NAME | TITLE | DESCRIPTION/CONTENT |
|------------------|-------------------|--|--|
| 1 | 1 Control | Control | All photo control data, and topographic map survey information. Also includes district-added control information. |
| 2 | 2 Exist Man Made | Existing Man-Made Features | All existing man-made features not otherwise included in any other level, includes all buildings. |
| 3 | 3 Exist Roadway | Existing Roadway Features | Edges of existing surfaced areas accessible to vehicles, bicycles or pedestrians within the Existing Roadway limits. See section 2.4_B_3 (page 2.4-4) for a complete description of this level. |
| 4 | 4 Exist Veg_Nat | Existing Vegetation and Natural Features | All natural vegetation, existing highway plantings, orchards, vineyards, marshes, and miscellaneous natural features such as rock outcrops, slides, etc. |
| 5 | 5 Exist Utilitie | Existing Utilities and Utility Features | All existing underground and aboveground utility-type facilities (including signals, power and telephone poles and transmission poles for utility, railroad, highway, street, and private improvements.) All existing drainage structures including culverts and headwalls, excluding substantial structures such as buildings. Also, includes district-added underground utilities. |
| 6 | 6 Exist Hydro | Existing Hydro-graphic Features | All lakes, rivers, streams, natural channels, swamps, and standing water. |
| 7 | 7 Contours | Relief Features Contour Lines Only | Contours (lines only) of the original terrain. |
| 8 | 8 Spot Elev | Spot Elevations and Contour Elevation Annotation | Spot elevations and contour elevation annotation. |
| 9/109 | 9 Appraisal Map | Appraisal Map | Data specific to Appraisal Map sheets. |
| 10/110 | 10 Sheet Format | Sheet Format | Standard Border Sheets, (22" x 34" when plotted) with trim lines, District-County-Route-Post Mile block, plan sheet name, vestee block, geometry tables, North arrow, details, match lines & joining sheet data. (Information associated with the border). |
| 11/111 | 11 Record Map | Record Map | Data specific to Record Map sheets. |
| 12/112 | 12 Undefined | Undefined | ** (See Note 2) |
| 13 | 13 Ramp Align | Ramp, Over & Under Crossing Alignment | Ramp, Over Crossing & Under Crossing Alignment(s), includes station line and tick marks. |
| 14 | 14 Ramp Anno | Ramp, Over & Under Crossing Annotation | Ramp, Over & Under Crossing Annotation, includes Route designation, alignment bearing and station number. |
| 15 | 15 Main Align | Mainline Alignment | Mainline Alignment(s) for the main roadways, includes station line and tick marks. |
| 16 | 16 Main Anno | Mainline Alignment | Mainline Alignment Annotation, includes Route designation, alignment bearing and station number. |

| LEVEL NO. | LEVEL NAME | TITLE | DESCRIPTION/CONTENT |
|-------------|-----------------|------------------------------------|--|
| | | Annotation | |
| 17 | 17 Front Align | Frontage Road Alignment | Frontage Road Alignment(s), includes station line and tick marks. |
| 18 | 18 Front Anno | Frontage Road Alignment Annotation | Frontage Road Annotation, includes Route designation, alignment bearing and station number. |
| 19/119 | 19 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 20/120 | 20 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 21/121 | 21 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 22/122 | 22 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 23/123 | 23 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 24/124 | 24 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 25/125 | 25 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 26/126 | 26 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 27/127 | 27 Parcel Color | Parcel Coloring | Parcel Coloring line work and fill for Fee, Easement, and Remainder areas. Specific colors associated with parcel coloring (See Note 3) Optional reference file usage (See Note 4) |
| 28/128 * | 28 Exist Ease L | Existing Easement | Existing Easement line work including easements, public roadway alignments, public utilities, and other |

| LEVEL NO. | LEVEL NAME | TITLE | DESCRIPTION/CONTENT |
|-------------|------------------|----------------------------------|--|
| | | Boundaries | title encumbrances. |
| 29/129 * | 29 Exist Ease A | Existing Easement Annotation | All Annotation that describes Existing Easements. |
| 30/130 * | 30 Exist RW A | Existing R/W Annotation | All Annotation that describes Existing & previously existing Rights of Way. |
| 31/131 * | 31 Exist RW L | Existing R/W Boundaries | Existing & previously existing R/W line work. |
| 32/132 * | 32 New RW L | New R/W Boundaries | New R/W line work. |
| 33/133 * | 33 New RW A | New R/W Annotation | All Annotation that describes New Rights of Way. |
| 34/134 * | 34 New Ease L | New Easement Boundaries | New Easement line work – excluding temporary easements. |
| 35/135 * | 35 New Ease A | New Easement Annotation | All Annotation that describes New Easement Annotation. |
| 36/136 * | 36 Temp Ease L | Temporary Easement Boundaries | New Temporary Easements Line work – Construction, Drainage, General, & Slope. |
| 37/137 * | 37 Temp Ease A | Temporary Easement Annotation | All Annotation that describes New Temporary Easements. |
| 38/138 * | 38 Minor Land L | Minor Landnet Boundaries | Minor Landnet Line work – Parcel ownership, Lots, Subsection Lines (1/16 & below), USPLS Gov't Lots. |
| 39/139 * | 39 Minor Land A | Minor Landnet Annotation | All Annotation that describes Minor Landnet. |
| 40/140 * | 40 Major Land L | Major Landnet Boundaries | Major Landnet Line work – Township & Range Lines, Ranchos, Section & ¼ Section Lines, USPLS Gov't Tracts, Subdivision Boundaries. |
| 41/141 * | 41 Major Land A | Major Landnet Annotation | All Annotation that describes Major Landnet. |
| 42/142 * | 42 PBndy FedPart | Political & Municipal Boundaries | All drawing information required to describe Political Boundaries, City & County limits, Municipal boundaries, Federal Boundaries, and Federal Participation, includes annotation. |
| 43/143 * | 43 JUA_CCUA | JUA/CCUA & Freeway Lease Areas | All drawing information required to describe JUA & CCUA, Freeway Lease Area, and Supplemental Reference Areas, includes annotation. |
| 44/144 * | 44 Relinquishmt | Relinquishment | All drawing information required to identify areas of Relinquishment, includes annotation. |
| 45/145 * | 45 DirectorsDeed | Directors Deed | All drawing information required to identify areas in Directors Deeds, includes annotation. |
| 46/146 * | 46 Vac_Abandon | Vacation / Abandonment | All drawing information required to identify areas of Vacation/Abandonment, includes annotation. |
| 47/147 * | 47 LandnetPts-NP | Landnet Point Data | Non-plotted Point data – Landnet Point data that will not be shown on R/W maps including name, description, coordinates, leaders, and cells. |
| 48/148 * | 48 RW Pts - NP | R/W Point Data | Non-plotted Point data – R/W Point data that will not be shown on R/W maps including name, description, |

| LEVEL NO. | LEVEL NAME | TITLE | DESCRIPTION/CONTENT |
|-------------|------------------|------------------------|---|
| | | | coordinates, leaders, and cells. |
| 49/149 * | 49 Points-Plot | Plotted Point Data | Plotted Point data - Landnet & R/W Point data to be displayed on R/W maps including name, description, coordinates, leaders, and cells. |
| 50/150 * | 50 Retracement L | Retracement Data | Project Surveyors Retracement Line work. |
| 51/151 * | 51 Retracement A | Retracement Annotation | Project Surveyors Retracement Annotation. |
| 52/152 * | 52 Retracement C | Retracement Comments | Project Surveyors Retracement Comments. |
| 53/153 * | 53 Clip Boundary | Clip Boundaries | Reference file clip boundaries and clip masks. |
| 54/154 * | 54 Plot Boundary | Plot Boundaries | Boundary along sheet border used for fenceless IPLOT. |
| 55/155 | 55 Undefined | Undefined | ** (See Note 2) |
| 56/156 | 56 Undefined | Undefined | ** (See Note 2) |
| 57/157 | 57 Undefined | Undefined | ** (See Note 2) |
| 58/158 | 58 Undefined | Undefined | ** (See Note 2) |
| 59/159 | 59 Undefined | Undefined | ** (See Note 2) |
| 60/160 | 60 Undefined | Undefined | ** (See Note 2) |
| 61/161 | 61 Undefined | Undefined | ** (See Note 2) |
| 62/162 | 62 Undefined | Undefined | ** (See Note 2) |
| 63/163 | 63 Undefined | Undefined | ** (See Note 2) |

* Flexibility from the R/W Mapping Leveling Convention. (See Note 1)

** Undefined levels may be used for information that has not been assigned to a specific level. (See Note 2)

4. Exceptions or flexibility from the R/W Mapping Leveling Convention

Note 1: The R/W Mapping Standard Leveling Conventions were developed to provide users with a means of grouping similar data types while also separating line work from text. Many of the levels were assigned as a convenience for those users who desire to work across more levels. Not all of the data needs to be separated on all of the defined levels. However, some of the R/W Mapping Standard Leveling Conventions should not be deviated from.

The following table identifies those R/W Mapping Level Conventions that **must** be adhered to in both Pre-V8 and V8 Standards MicroStation design files:

| | |
|----------------------|---|
| Level 1 | Control Data as described in Sections E 2 & 3 |
| Levels 2 - 8 | Basic topographic map data as described in Sections E 2 & 3 |
| Levels 9–11/109-111 | Sheet formats as described in Sections E 2 & 3 |
| Levels 13 – 18 | Alignments as described in Sections E 2 & 3 |
| Levels 19–27/119-127 | Parcel Coloring as described in Sections E 2 & 3 |
| Level 31 or 131 | Existing R/W, Easement, and Property Line Boundaries |
| Level 32 or 132 | New R/W and Easement Boundaries |
| Level 33 or 133 | All Text & Annotation describing data on Levels 31 & 32 or Levels 131 & 132 |
| Level 38 or 138 | All Landnet Boundaries |
| Level 39 or 139 | Text & Annotation describing all Landnet |
| Level 47 or 147 | All non-plotted Point Data |
| Level 49 or 149 | All plotted Point Data |

Note 2: There are times when an exception (or some flexibility) may expedite the handling of a project to achieve the desired intent. Utilizing the undefined levels will handle most of the situations not defined by the V8-Standards leveling convention. When using undefined levels, communicate to others what was done in order to eliminate the loss of efficiency and productivity.

Note 3: Specific colors in the Caltrans color table (ctcolor.tbl), 224, 226 – 231 & 233 - 239, have been designed and **must** be used for the parcel coloring. These colors were chosen because the Easement & Remainder colored lines are clearly visible while the filled Fee areas do not obscure the overlying topography and data. These colors should also provide enough variation to allow colorblind users of the maps to be able to distinguish between adjoining parcels.

Note 4: The user may work with a separate referenced Pre-V8 DGN file for the parcel coloring. If this is the case, every level (1 – 63) may be used in this “Parcel Coloring” DGN file and the coloring for each parcel can reside on a separate level.

In a MicroStation design file using the V8-Standards convention, if the coloring for each parcel is to reside on a separate level within one DGN file (model), then one option is for the parcel coloring to be placed on one of the new “Undefined” levels (171 through 200).

Named Levels

The following table identifies the level name, level number and the description for levels available for use on R/W Mapping projects using the Named Level convention.

| Number | Name | Description |
|---------------|---------------------------------|---|
| 1719 | rw_EASE_EXIST | R/W - Existing easement |
| 1720 | rw_EASE_EXIST_align | R/W - Existing easement - Centerline |
| 1721 | rw_EASE_EXIST_anno | R/W - Existing easement - Annotation |
| 1722 | rw_EASE_EXIST_point | R/W - Existing easement - Point data |
| 1723 | rw_EASE_EXIST_point_anno | R/W - Existing easement - Point annotation |
| 1724 | rw_EASE_PROPOSED | R/W - Proposed easement |
| 1725 | rw_EASE_PROPOSED_align | R/W - Proposed easement - Centerline |
| 1726 | rw_EASE_PROPOSED_anno | R/W - Proposed easement - Annotation |
| 1727 | rw_EASE_PROPOSED_point | R/W - Proposed easement - Point data |
| 1728 | rw_EASE_PROPOSED_point_anno | R/W - Proposed easement - Point annotation |
| 1729 | rw_EASE_PROPOSED_TEMP | R/W - Proposed temporary easement |
| 1730 | rw_EASE_PROPOSED_TEMP_anno | R/W - Proposed temporary easement - Annotation |
| 1731 | rw_LANDNET_anno | R/W - Landnet (sectionalized land & lines of ownership) - Annotation |
| 1732 | rw_LANDNET_Fed_Part | R/W - Landnet (sectionalized land & lines of ownership) - Federal Participation |
| 1733 | rw_LANDNET_Govt_Lot_Sub_Section | R/W - Landnet (sectionalized land & lines of ownership) - USPLS Government Lots & Subsections |
| 1734 | rw_LANDNET_Interior_Lot | R/W - Landnet (sectionalized land & lines of ownership) - Interior Lot Lines |
| 1735 | rw_LANDNET_Parcels_Ownership | R/W - Landnet (sectionalized land & lines of ownership) - Parcels and Ownership Lines |
| 1736 | rw_LANDNET_point | R/W - Landnet (sectionalized land & lines of ownership) - Point data |
| 1737 | rw_LANDNET_point_anno | R/W - Landnet (sectionalized land & lines of ownership) - Point annotation |
| 1738 | rw_LANDNET_Public_Boundary | R/W - Landnet (sectionalized land & lines of ownership) - City, |

| Number | Name | Description |
|---------------|------------------------------|--|
| | | County, State, & Federal Boundaries |
| 1739 | rw_LANDNET_Qtr_Section_Tract | R/W - Landnet (sectionalized land & lines of ownership) - Quarter Section and USPLS Government Tract |
| 1740 | rw_LANDNET_Section_Rancho | R/W - Landnet (sectionalized land & lines of ownership) - Section Lines and Ranchos |
| 1741 | rw_LANDNET_Subdiv_Boundary | R/W - Landnet (sectionalized land & lines of ownership) - Subdivision Boundaries |
| 1742 | rw_LANDNET_Town_Range | R/W - Landnet (sectionalized land & lines of ownership) - Township & Range |
| 1743 | rw_map_anno | R/W - General map sheet annotation |
| 1744 | rw_map_anno_Appraisal_Map | R/W - Appraisal map sheet annotation |
| 1745 | rw_map_anno_Detail | R/W - Annotation for details in map sheets |
| 1746 | rw_map_anno_even_sheet | R/W - Annotation for edges of even numbered map sheets |
| 1747 | rw_map_anno_odd_sheet | R/W - Annotation for edges of odd numbered map sheets |
| 1748 | rw_map_anno_Record_Map | R/W - Record R/W map sheet annotation |
| 1749 | rw_map_anno_ROS | R/W - Record of Survey (ROS) map sheet annotation |
| 1750 | rw_map_anno_Vestee_Block | R/W - Appraisal & Record map vestee block including the parcel coloring of the rows |
| 1751 | rw_map_Appraisal_Map | R/W - Appraisal map miscellaneous data |
| 1752 | rw_map_Record_Map | R/W - Record R/W map miscellaneous data |
| 1753 | rw_map_ROS | R/W - Record of Survey (ROS) map miscellaneous data |
| 1754 | rw_MISC | R/W - Miscellaneous R/W data - Unassigned supplemental reference area, vacated, abandonment, etc. |
| 1755 | rw_MISC_anno | R/W - Miscellaneous R/W data - Annotation |
| 1756 | rw_MISC_CCUA | R/W - Miscellaneous R/W data - |

| Number | Name | Description |
|--------|--|--|
| | | Consent to Common Use Agreement (Sideline) |
| 1757 | rw_MISC_CCUA_align | R/W - Miscellaneous R/W data - Consent to Common Use Agreement (Centerline) |
| 1758 | rw_MISC_FLA | R/W - Miscellaneous R/W data - Freeway Lease Area |
| 1759 | rw_MISC_JUA | R/W - Miscellaneous R/W data - Joint Use Agreement (Sideline) |
| 1760 | rw_MISC_JUA_align | R/W - Miscellaneous R/W data - Joint Use Agreement (Centerline) |
| 1761 | rw_MISC_point | R/W - Miscellaneous R/W data - Point data |
| 1762 | rw_MISC_point_anno | R/W - Miscellaneous R/W data - Point annotation |
| 1763 | rw_parcel | R/W - Civil 3D parcels |
| 1764 | rw_parcel_anno | R/W - Parcel area & name annotation |
| 1765 | rw_parcel_anno_Annotation_Area_no_plot | R/W - Non-plotting Parcel area & name annotation - Parcels in the Parcel Annotation Site |
| 1766 | rw_parcel_anno_Easement_Area_no_plot | R/W - Non-plotting Parcel area & name annotation - Parcels in the Easement Parcels Site |
| 1767 | rw_parcel_anno_Existing_Area_no_plot | R/W - Non-plotting Parcel area & name annotation - Parcels in the Existing Parcels Site |
| 1768 | rw_parcel_anno_Proposed_Area_no_plot | R/W - Non-plotting Parcel area & name annotation - Parcels in the Proposed Parcels Site |
| 1769 | rw_parcel_COLOR | R/W - Miscellaneous parcel coloring |
| 1770 | rw_parcel_COLOR_Aqua | R/W - Parcel coloring - Aqua |
| 1771 | rw_parcel_COLOR_Blue | R/W - Parcel coloring - Blue |
| 1772 | rw_parcel_COLOR_Blue_Light | R/W - Parcel coloring - Light blue |
| 1773 | rw_parcel_COLOR_Brown | R/W - Parcel coloring - Brown |
| 1774 | rw_parcel_COLOR_Excess | R/W - Parcel coloring for excess areas only - Yellow |
| 1775 | rw_parcel_COLOR_Green | R/W - Parcel coloring - Green |
| 1776 | rw_parcel_COLOR_Green_Light | R/W - Parcel coloring - Light green |
| 1777 | rw_parcel_COLOR_Lavender | R/W - Parcel coloring - Lavender |
| 1778 | rw_parcel_COLOR_Lavender_Light | R/W - Parcel coloring - Light lavender |

| Number | Name | Description |
|---------------|-------------------------------------|---|
| 1779 | rw_parcel_COLOR_Orange | R/W - Parcel coloring - Orange |
| 1780 | rw_parcel_COLOR_Orange_Light | R/W - Parcel coloring - Light orange |
| 1781 | rw_parcel_COLOR_Pink | R/W - Parcel coloring - Pink |
| 1782 | rw_parcel_COLOR_Pink_Light | R/W - Parcel coloring - Light pink |
| 1783 | rw_parcel_COLOR_Tan | R/W - Parcel coloring - Tan |
| 1784 | rw_parcel_Easement Parcels | R/W - Parcels created in Easement Parcels Site |
| 1785 | rw_parcel_Existing Parcels | R/W - Parcels created in Existing Parcels Site |
| 1786 | rw_parcel_Parcel Annotation | R/W - Parcels created in Parcel Annotation Site |
| 1787 | rw_parcel_PATTERN_Directors_Deed | R/W - Patterning for director's deed parcels |
| 1788 | rw_parcel_PATTERN_Relinquishment | R/W - Patterning for relinquishment parcels |
| 1789 | rw_parcel_Proposed Parcels | R/W - Parcels created in Proposed Parcels Site |
| 1790 | rw_parcel_SEGMENT | R/W - Parcel segment linework |
| 1791 | rw_parcel_SEGMENT_anno | R/W - Parcel segment annotation |
| 1792 | rw_parcel_SEGMENT_Easement Parcels | R/W - Parcel segment linework of parcels created in Easement Parcels Site |
| 1793 | rw_parcel_SEGMENT_Existing Parcels | R/W - Parcel segment linework of parcels created in Existing Parcels Site |
| 1794 | rw_parcel_SEGMENT_Parcel Annotation | R/W - Parcel segment linework of parcels created in Parcel Annotation Site |
| 1795 | rw_parcel_SEGMENT_Proposed Parcels | R/W - Parcel segment linework of parcels created in Proposed Parcels Site |
| 1796 | rw_retracement | R/W - General retracement data |
| 1797 | rw_retracement_anno | R/W - General retracement annotation |
| 1798 | rw_RW_EXIST | R/W - Existing R/W - Conventional & access controlled R/W (Fee or Easement) |
| 1799 | rw_RW_EXIST_anno | R/W - Existing R/W - Annotation |
| 1800 | rw_RW_EXIST_point | R/W - Existing R/W - Point |
| 1801 | rw_RW_EXIST_point_anno | R/W - Existing R/W - Point annotation |
| 1802 | rw_RW_EXIST_point_anno_no_plot | R/W - Non-plotting Existing R/W - Point annotation |

| Number | Name | Description |
|---------------|------------------------------------|--|
| 1803 | rw_RW_EXIST_point_no_plot | R/W - Non-plotting Existing R/W - Point |
| 1804 | rw_RW_EXIST_Relinquished | R/W - Existing R/W - Relinquished conventional & access controlled R/W (Fee or Easement) |
| 1805 | rw_RW_EXIST_Superseded | R/W - Existing R/W - Superseded conventional & access controlled R/W (Fee or Easement) |
| 1807 | rw_RW_PROPOSED_anno | R/W - Proposed R/W - Annotation |
| 1808 | rw_RW_PROPOSED_point | R/W - Proposed R/W - Point |
| 1809 | rw_RW_PROPOSED_point_anno | R/W - Proposed R/W - Point annotation |
| 1812 | rw_EASE_EXIST_Public_Utility | R/W - Existing easement - Public Utility (Sideline) |
| 1813 | rw_EASE_EXIST_Public_Utility_align | R/W - Existing easement - Public Utility (Centerline) |
| 1814 | rw_EASE_EXIST_Title_Encumbrance | R/W - Existing easement - Title Encumbrance |
| 1815 | rw_EASE_PROPOSED_Drainage | R/W - Proposed easement - Drainage |
| 1816 | rw_EASE_PROPOSED_Slope | R/W - Proposed easement - Slope |
| 1817 | rw_EASE_PROPOSED_TEMP_Construction | R/W - Proposed temporary easement - Construction |
| 1818 | rw_EASE_PROPOSED_TEMP_Drainage | R/W - Proposed temporary easement - Drainage |
| 1819 | rw_EASE_PROPOSED_TEMP_Slope | R/W - Proposed temporary easement - Slope |
| 1820 | rw_MISC_Abandonment | R/W - Miscellaneous R/W data - Abandonment |
| 1821 | rw_MISC_Supplemental_Reference | R/W - Miscellaneous R/W data - Unassigned supplemental reference area |
| 1822 | rw_MISC_Vacation | R/W - Miscellaneous R/W data - Vacation |
| 1823 | rw_RW_EXIST_Access_Left | R/W - Existing R/W - Access controlled R/W (Fee or Easement) - Left |
| 1824 | rw_RW_EXIST_Access_Right | R/W - Existing R/W - Access controlled R/W (Fee or Easement) - Right |
| 1825 | rw_RW_EXIST_Conventional | R/W - Existing R/W - Conventional R/W (Fee or Easement) |

| Number | Name | Description |
|---------------|--|---|
| 1826 | rw_RW_EXIST_Relinquished_Access_Left | R/W - Existing R/W - Relinquished access controlled R/W (Fee or Easement) - Left |
| 1827 | rw_RW_EXIST_Relinquished_Access_Right | R/W - Existing R/W - Relinquished access controlled R/W (Fee or Easement) - Right |
| 1828 | rw_RW_EXIST_Relinquished_Conventional | R/W - Existing R/W - Relinquished conventional R/W (Fee or Easement) |
| 1829 | rw_RW_EXIST_Superseded_Access_Left | R/W - Existing R/W - Superseded access controlled R/W (Fee or Easement) - Left |
| 1830 | rw_parcel_COLOR_Aqua_Easement_UF | R/W - Parcel coloring for easement & UF areas - Aqua |
| 1831 | rw_parcel_COLOR_Blue_Easement_UF | R/W - Parcel coloring for easement & UF areas - Blue |
| 1832 | rw_parcel_COLOR_Blue_Light_Easement_UF | R/W - Parcel coloring for easement & UF areas - Light blue |
| 1833 | rw_parcel_COLOR_Brown_Easement_UF | R/W - Parcel coloring for easement & UF areas - Brown |
| 1834 | rw_parcel_COLOR_Green_Easement_UF | R/W - Parcel coloring for easement & UF areas - Green |
| 1835 | rw_parcel_COLOR_Green_Light_Easement_UF | R/W - Parcel coloring for easement & UF areas - Light green |
| 1836 | rw_parcel_COLOR_Lavender_Easement_UF | R/W - Parcel coloring for easement & UF areas - Lavender |
| 1837 | rw_parcel_COLOR_Lavender_Light_Easement_UF | R/W - Parcel coloring for easement & UF areas - Light lavender |
| 1838 | rw_parcel_COLOR_Orange_Easement_UF | R/W - Parcel coloring for easement & UF areas - Orange |
| 1839 | rw_parcel_COLOR_Orange_Light_Easement_UF | R/W - Parcel coloring for easement & UF areas - Light orange |
| 1840 | rw_parcel_COLOR_Pink_Easement_UF | R/W - Parcel coloring for easement & UF areas - Pink |
| 1841 | rw_parcel_COLOR_Pink_Light_Easement_UF | R/W - Parcel coloring for easement & UF areas - Light pink |
| 1842 | rw_parcel_COLOR_Tan_Easement_UF | R/W - Parcel coloring for easement & UF areas - Tan |
| 1843 | rw_parcel_COLOR_Aqua_Remainder | R/W - Parcel coloring for remainder areas - Aqua |
| 1844 | rw_parcel_COLOR_Blue_Remainder | R/W - Parcel coloring for remainder areas - Blue |

| Number | Name | Description |
|---------------|--|---|
| 1845 | rw_parcel_COLOR_Blue_Light_Remainder | R/W - Parcel coloring for remainder areas - Light blue |
| 1846 | rw_parcel_COLOR_Brown_Remainder | R/W - Parcel coloring for remainder areas - Brown |
| 1847 | rw_parcel_COLOR_Green_Remainder | R/W - Parcel coloring for remainder areas - Green |
| 1848 | rw_parcel_COLOR_Green_Light_Remainder | R/W - Parcel coloring for remainder areas - Light green |
| 1849 | rw_parcel_COLOR_Lavender_Remainder | R/W - Parcel coloring for remainder areas - Lavender |
| 1850 | rw_parcel_COLOR_Lavender_Light_Remainder | R/W - Parcel coloring for remainder areas - Light lavender |
| 1851 | rw_parcel_COLOR_Orange_Remainder | R/W - Parcel coloring for remainder areas - Orange |
| 1852 | rw_parcel_COLOR_Orange_Light_Remainder | R/W - Parcel coloring for remainder areas - Light orange |
| 1853 | rw_parcel_COLOR_Pink_Remainder | R/W - Parcel coloring for remainder areas - Pink |
| 1854 | rw_parcel_COLOR_Pink_Light_Remainder | R/W - Parcel coloring for remainder areas - Light pink |
| 1855 | rw_parcel_COLOR_Tan_Remainder | R/W - Parcel coloring for remainder areas - Tan |
| 1856 | rw_RW_EXIST_Previous | R/W - Existing R/W - Previous R/W (Fee or Easement) |
| 1857 | rw_RW_EXIST_Superseded_Access_Right | R/W - Existing R/W - Superseded access controlled R/W (Fee or Easement) - Right |
| 1858 | rw_RW_EXIST_Superseded_Conventional | R/W - Existing R/W - Superseded conventional R/W (Fee or Easement) |
| 1859 | rw_RW_PROPOSED | R/W - Proposed R/W - Conventional & access controlled R/W (Fee or Easement) |
| 1860 | rw_RW_PROPOSED_Access_Left | R/W - Proposed R/W - Access controlled R/W (Fee or Easement) - Left |
| 1861 | rw_RW_PROPOSED_Access_Right | R/W - Proposed R/W - Access controlled R/W (Fee or Easement) - Right |
| 1862 | rw_RW_PROPOSED_Conventional | R/W - Proposed R/W - Conventional R/W (Fee or Easement) |

Named Levels

The following table identifies the level name, associated level number and the color assigned to the levels available for use on R/W Mapping projects using the Named Level convention.

| Number | Name | Color |
|---------------|---------------------------------|--------------|
| 1719 | rw_EASE_EXIST | 217 |
| 1720 | rw_EASE_EXIST_align | 217 |
| 1721 | rw_EASE_EXIST_anno | 217 |
| 1722 | rw_EASE_EXIST_point | 217 |
| 1723 | rw_EASE_EXIST_point_anno | 217 |
| 1724 | rw_EASE_PROPOSED | 218 |
| 1725 | rw_EASE_PROPOSED_align | 218 |
| 1726 | rw_EASE_PROPOSED_anno | 218 |
| 1727 | rw_EASE_PROPOSED_point | 218 |
| 1728 | rw_EASE_PROPOSED_point_anno | 218 |
| 1729 | rw_EASE_PROPOSED_TEMP | 214 |
| 1730 | rw_EASE_PROPOSED_TEMP_anno | 214 |
| 1731 | rw_LANDNET_anno | 209 |
| 1732 | rw_LANDNET_Fed_Part | 223 |
| 1733 | rw_LANDNET_Govt_Lot_Sub_Section | 210 |
| 1734 | rw_LANDNET_Interior_Lot | 209 |
| 1735 | rw_LANDNET_Parcels_Ownership | 208 |
| 1736 | rw_LANDNET_point | 209 |
| 1737 | rw_LANDNET_point_anno | 209 |
| 1738 | rw_LANDNET_Public_Boundary | 221 |
| 1739 | rw_LANDNET_Qtr_Section_Tract | 210 |
| 1740 | rw_LANDNET_Section_Rancho | 209 |
| 1741 | rw_LANDNET_Subdiv_Boundary | 208 |
| 1742 | rw_LANDNET_Town_Range | 208 |
| 1743 | rw_map_anno | 245 |
| 1744 | rw_map_anno_Appraisal_Map | 245 |
| 1745 | rw_map_anno_Detail | 245 |
| 1746 | rw_map_anno_even_sheet | 234 |
| 1747 | rw_map_anno_odd_sheet | 235 |
| 1748 | rw_map_anno_Record_Map | 245 |
| 1749 | rw_map_anno_ROS | 245 |
| 1750 | rw_map_anno_Vestee_Block | 245 |
| 1751 | rw_map_Appraisal_Map | 0 |
| 1752 | rw_map_Record_Map | 0 |

| Number | Name | Color |
|---------------|--|--------------|
| 1753 | rw_map_ROS | 0 |
| 1754 | rw_MISC | 220 |
| 1755 | rw_MISC_anno | 220 |
| 1756 | rw_MISC_CCUA | 220 |
| 1757 | rw_MISC_CCUA_align | 220 |
| 1758 | rw_MISC_FLA | 218 |
| 1759 | rw_MISC_JUA | 219 |
| 1760 | rw_MISC_JUA_align | 219 |
| 1761 | rw_MISC_point | 220 |
| 1762 | rw_MISC_point_anno | 220 |
| 1763 | rw_parcel | 208 |
| 1764 | rw_parcel_anno | 245 |
| 1765 | rw_parcel_anno Annotation Area no plot | 245 |
| 1766 | rw_parcel_anno Easement Area no plot | 218 |
| 1767 | rw_parcel_anno Existing Area no plot | 216 |
| 1768 | rw_parcel_anno Proposed Area no plot | 219 |
| 1769 | rw_parcel_COLOR | 226 |
| 1770 | rw_parcel_COLOR Aqua | 234 |
| 1771 | rw_parcel_COLOR Blue | 235 |
| 1772 | rw_parcel_COLOR Blue Light | 229 |
| 1773 | rw_parcel_COLOR Brown | 237 |
| 1774 | rw_parcel_COLOR Excess | 224 |
| 1775 | rw_parcel_COLOR Green | 233 |
| 1776 | rw_parcel_COLOR Green Light | 227 |
| 1777 | rw_parcel_COLOR Lavender | 238 |
| 1778 | rw_parcel_COLOR Lavender Light | 228 |
| 1779 | rw_parcel_COLOR Orange | 236 |
| 1780 | rw_parcel_COLOR Orange Light | 230 |
| 1781 | rw_parcel_COLOR Pink | 239 |
| 1782 | rw_parcel_COLOR Pink Light | 226 |
| 1783 | rw_parcel_COLOR Tan | 231 |
| 1784 | rw_parcel Easement Parcels | 212 |
| 1785 | rw_parcel Existing Parcels | 216 |
| 1786 | rw_parcel Parcel Annotation | 245 |
| 1787 | rw_parcel_PATTERN Directors Deed | 232 |
| 1788 | rw_parcel_PATTERN Relinquishment | 232 |
| 1789 | rw_parcel Proposed Parcels | 218 |
| 1790 | rw_parcel_SEGMENT | 208 |
| 1791 | rw_parcel_SEGMENT_anno | 208 |
| 1792 | rw_parcel_SEGMENT Easement Parcels | 212 |

| Number | Name | Color |
|---------------|---|--------------|
| 1793 | rw_parcel_SEGMENT_Existing Parcels | 216 |
| 1794 | rw_parcel_SEGMENT_Parcel Annotation | 245 |
| 1795 | rw_parcel_SEGMENT_Proposed Parcels | 218 |
| 1796 | rw_retracement | 0 |
| 1797 | rw_retracement_anno | 245 |
| 1798 | rw_RW_EXIST | 217 |
| 1799 | rw_RW_EXIST_anno | 217 |
| 1800 | rw_RW_EXIST_point | 217 |
| 1801 | rw_RW_EXIST_point_anno | 217 |
| 1802 | rw_RW_EXIST_point_anno_no_plot | 215 |
| 1803 | rw_RW_EXIST_point_no_plot | 215 |
| 1804 | rw_RW_EXIST_Relinquished | 215 |
| 1805 | rw_RW_EXIST_Superceded | 217 |
| 1807 | rw_RW_PROPOSED_anno | 218 |
| 1808 | rw_RW_PROPOSED_point | 218 |
| 1809 | rw_RW_PROPOSED_point_anno | 218 |
| 1812 | rw_EASE_EXIST_Public Utility | 216 |
| 1813 | rw_EASE_EXIST_Public Utility_align | 216 |
| 1814 | rw_EASE_EXIST_Title_Encumbrance | 215 |
| 1815 | rw_EASE_PROPOSED_Drainage | 212 |
| 1816 | rw_EASE_PROPOSED_Slope | 213 |
| 1817 | rw_EASE_PROPOSED_TEMP_Construction | 211 |
| 1818 | rw_EASE_PROPOSED_TEMP_Drainage | 212 |
| 1819 | rw_EASE_PROPOSED_TEMP_Slope | 213 |
| 1820 | rw_MISC_Abandonment | 220 |
| 1821 | rw_MISC_Supplemental_Reference | 218 |
| 1822 | rw_MISC_Vacation | 220 |
| 1823 | rw_RW_EXIST_Access_Left | 217 |
| 1824 | rw_RW_EXIST_Access_Right | 217 |
| 1825 | rw_RW_EXIST_Conventional | 217 |
| 1826 | rw_RW_EXIST_Relinquished_Access_Left | 215 |
| 1827 | rw_RW_EXIST_Relinquished_Access_Right | 215 |
| 1828 | rw_RW_EXIST_Relinquished_Conventional | 215 |
| 1829 | rw_RW_EXIST_Superceded_Access_Left | 217 |
| 1830 | rw_parcel_COLOR_Aqua_Easement_UF | 234 |
| 1831 | rw_parcel_COLOR_Blue_Easement_UF | 235 |
| 1832 | rw_parcel_COLOR_Blue_Light_Easement_UF | 229 |
| 1833 | rw_parcel_COLOR_Brown_Easement_UF | 237 |
| 1834 | rw_parcel_COLOR_Green_Easement_UF | 233 |
| 1835 | rw_parcel_COLOR_Green_Light_Easement_UF | 227 |

| Number | Name | Color |
|---------------|--|--------------|
| 1836 | rw_parcel_COLOR_Lavender_Easement_UF | 238 |
| 1837 | rw_parcel_COLOR_Lavender_Light_Easement_UF | 228 |
| 1838 | rw_parcel_COLOR_Orange_Easement_UF | 236 |
| 1839 | rw_parcel_COLOR_Orange_Light_Easement_UF | 230 |
| 1840 | rw_parcel_COLOR_Pink_Easement_UF | 239 |
| 1841 | rw_parcel_COLOR_Pink_Light_Easement_UF | 226 |
| 1842 | rw_parcel_COLOR_Tan_Easement_UF | 231 |
| 1843 | rw_parcel_COLOR_Aqua_Remainder | 234 |
| 1844 | rw_parcel_COLOR_Blue_Remainder | 235 |
| 1845 | rw_parcel_COLOR_Blue_Light_Remainder | 229 |
| 1846 | rw_parcel_COLOR_Brown_Remainder | 237 |
| 1847 | rw_parcel_COLOR_Green_Remainder | 233 |
| 1848 | rw_parcel_COLOR_Green_Light_Remainder | 227 |
| 1849 | rw_parcel_COLOR_Lavender_Remainder | 238 |
| 1850 | rw_parcel_COLOR_Lavender_Light_Remainder | 228 |
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