

4 CELLS

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4.1 Cells

4.2 Road design cell Libraries

4.2.1 Metric.cel

Metric cell library

| Name | Description |
|--------------|---|
| APP | Planned Approach |
| APPE | Existing Approach |
| AROWLT | Miscellaneous Left Drainage Arrow |
| AROWRT | Miscellaneous Right Drainage Arrow |
| ARR | Miscellaneous Filled Arrow Head |
| BACKSLENGLT | English Standard Typical Left Backslope with Curb and Sidewalk |
| BACKSLENGRT | English Standard Typical Right Backslope with Curb and Sidewalk |
| BACKSLMETLT | Metric Standard Typical Left Backslope with Curb and Sidewalk |
| BACKSLMETRT | Metric Standard Typical Right Backslope with Curb and Sidewalk |
| BACKSLOPELT | Metric Standard Typical Left Backslope |
| BACKSLOPELTE | English Standard Typical Left Backslope |
| BACKSLOPERT | Metric Standard Typical Right Backslope |
| BACKSLOPERTE | English Standard Typical Right Backslope |
| BEARINGNOTE1 | Note: "Bearing Source Based on GPS Observation NAD..." |
| BEARINGNOTE2 | Note: "Bearing Source Based on GPS Observation Instrument..." |
| BKSRND | Note: "Backslope Rounding" and Diagram |
| BRICK | Pattern: Brick |
| CIR1 | Pattern: Circle 4 |
| CIR2 | Pattern: Circle 3 |
| CIR3 | Pattern: Circle 2 |
| CIR4 | Pattern: Circle 1 |
| CL | Miscellaneous Centerline Symbol |
| CLRNOT | Note: "Clear Zone" |
| CLRZON | Table: "Clear Zones" |
| CONCR2 | Pattern: Concrete 2 |
| CONCRT | Pattern: Concrete 1 |
| COREPROFILE | Profile: Core Hole |
| CRSRBL | Pattern: Course Rubble |
| CURBLT | Cross Section: Metric Concrete Left Curb and Gutter |
| CURBLTE | Cross Section: English Concrete Left Curb and Gutter |
| CURBRT | Cross Section: Metric Concrete Right Curb and Gutter |
| CURBRTE | Cross Section: English Concrete Right Curb and Gutter |
| CUTFIL | Table: Metric Standard Typical Cut and Fill |
| CUTFILE | Table: English Standard Typical Cut and Fill |
| CUTLT | Metric Standard Typical Left Cut |
| CUTLTE | English Standard Typical Left Cut |
| CUTRT | Metric Standard Typical Right Cut |
| CUTRTE | English Standard Typical Right Cut |
| Default | |
| DIRT | Pattern: Existing Ground |

| | |
|-------------------|---|
| DIRTP | Pattern: Purposed Linear Ground |
| EARTH | Pattern: Earth |
| ETOC | Notes: Table of Contents – Erosion Plans |
| EXGRND | Pattern: Existing Ground |
| FILL_LTE | English Standard Typical Left Side Fill |
| FILL_LTECurb | English Standard Typical Left Side Curb Fill |
| FILL_RTE | English Standard Typical Right Side Fill |
| FILL_RTECurb | English Standard Typical Right Side Curb Fill |
| FINGR | Note: Typical Profile ArrowTyp_profile note |
| FLLT | Metric Standard Typical Right Side Fill |
| FLLTCurb | Metric Standard Typical Left Side Curb Fill |
| flowarrow | Miscellaneous Filled Arrow Head |
| FLRT | Metric Standard Typical Right Side Fill |
| FLRTCurb | Metric Standard Typical Right Side Curb Fill |
| GPSNOT | Note: “Surveyed Utilizing GPS...” |
| GRAVEL | Pattern: Gravel |
| ICTFL | Table: Metric Typical Interstate Cut and Fill |
| INTCHG | Miscellaneous Interchange |
| LEVELNOTE2 | Note: “GPS Observation” |
| LINLEV | Note: “Linear and Level Data” |
| LITCON | Pattern: Light Concrete |
| MEDCUR | Cross Section: Concrete Median Curb |
| NA | North Arrow |
| NOTES | Notes: Notes |
| NOTES-01 | Notes: English and Met |
| PCI | Proposed Curb Inlet |
| PDI | Proposed Drop Inlet |
| PGLT1 | Note: Typical Curve Profile with Left Arrow |
| PGRT1 | Note: Typical Curve Profile with Right Arrow |
| POINT | Point Symbol |
| PORUSE | Pattern: Poruse Rock |
| PROJBEG | Note: Plan Sheet Begin Project |
| PROJEND | Note: Plan Sheet End Project |
| QUAN | Table: Metric Typical Quantities |
| QUANE | Table: English Typical Quantities |
| RANRBL | Pattern: Random Rubble |
| RIP | Pattern: Riprap |
| RVAL | Note: Typical R-Value |
| SIMCAL | Note: Simple Curve Calculation Sheet |
| SKEW | Note: Skew Diagram |
| SPICAL | Note: Spiral Curve Calculation Sheet |
| STAR1 | Pattern: Sta |
| STLN | Straight Line Plan Cell |
| STONWL | Pattern: Stone wall |
| STRITR | Straight Line Interstate Plan Cell |
| SUPER | Table: Typical Standard Super elevation Width |
| TITLELIMITS90 | Note: Project Limits |
| TOC | Notes: Table of contents |
| Typ_Vari_Slope_No | Note: “Construct cut and Fill Slopes...” |
| TYPSTA | Typ_sect. Stationing |
| UTXING | Utility: Crossing Location |
| WAVE | Pattern: Wave |
| WLAREA | Note: Wetland Area |
| WOOD | Pattern: Wood 1 |
| WOOD2 | Pattern: Wood 2 |
| XDRAPP | Cross Section: Drainage Approach Pipe |
| XSANC | Cross Section: Utility Anchor Guy |

| | |
|---------|--|
| XSBITC | Xsf Stake: Bit Curb |
| XSBLDG | Xsf Stake: Face of Building |
| XSBLNK | Xsf Overhead Blank |
| XSCNTR | Xsf Utility: Signal Controller |
| XSDF | Xsf Data Fields |
| XSEASE | Xsf Right of Way New Easement |
| XSECB | Xsf Existing Utility Catch Basin |
| XSECBR | Xsf Existing Round Utility Catch Basin |
| XSEDI | Xsf Existing Square Utility Drop Inlet |
| XSEDIR | Xsf Existing Round Utility Drop Inlet |
| XSEESE | Xsf Right of Way Existing Easement |
| XSEMH | Xsf Existing Generic Manhole |
| XSEMHE | Xsf Existing Electric Manhole |
| XSEMHSD | Xsf Existing Storm Drain Manhole |
| XSEMHSS | Xsf Existing Sanitation Sewer Manhole |
| XSEMHT | Xsf Existing Telephone Manhole |
| XSEOG | Xsf Stake: Edge of Gravel |
| XSEOP | Xsf Stake: Edge of Pavement |
| XSEOT | Xsf Stake: Edge of Trail |
| XSEOW | Xsf Stake: Edge of Water |
| XSEROW | Xsf Existing Right of Way |
| XSFH | Xsf Utility: Fire Hydrant |
| XSFL | Xsf Stake: Flow Line |
| XSFX | Xsf Fence |
| XSGM | Xsf Utility Gas Meter |
| XSGRID | Xsf Grid |
| XSGUY | Xsf Utility: Power & Guy Pole |
| XSGV | Xsf Utility: Gas Valve |
| XSLP | Xsf Utility: Power, Light & Guy Pole |
| XSNG | Xsf Utility: Natural Gas Valve |
| XSPB | Xsf Utility: Pull Box |
| XSPD | Xsf Utility: Power Pedestal |
| XSPMT | Xsf Right of Way New Permit |
| XSPPP | Xsf Utility: Power Pole |
| XSPTW | Xsf Stake: Present Traveled Way |
| XSRIPB | Xsf Stake: Riprap Boundary |
| XSRROW | Xsf New Right of Way |
| XSRRCR | Xsf Utility: Rail Road Crossing Light |
| XSRROW | Xsf Existing Railroad Right of Way |
| XSRRSWT | Xsf Utility: Rail Road Switch |
| XSSB | Xsf Utility: Service Box |
| XSSHLD | Xsf Stake: Shoulder |
| XSTANK | Xsf Utility: Tank |
| XSTB | Xsf Utility: Telephone Booth |
| XSTBOC | Xsf Stake: Top Back Curb |
| XSTGP | Xsf Utility: Telegraph Pole |
| XSTL | Xsf Utility: Traffic Light |
| XSTP | Xsf Utility: Telephone Pole |
| XSTPD | Xsf Utility: Telephone Pedestal |
| XSTREB | Xsf Stake: Tree Boundary |
| XSTREE | Xsf Tree |
| XSTT | Xsf Utility: Power Transfer Tower |
| XSTVPD | Xsf Utility: TV Cable Pedestal |
| XSUBOX | Xsf Utility: Utility Box |
| XSVALVE | Xsf Utility: Valve |
| XSWH | Xsf Utility: Water Hydrant |
| XSWM | Xsf Utility: Water Meter |
| XSWTLB | Xsf Stake Wetland Boundary |

| | |
|--------|--|
| XSWV | Xsf Utility: Water Valve |
| XUBLNK | Xsf Utility: Underground Blank |
| XUFO | Xsf Utility: Underground Fiber Optic Cable |
| XUGAS | Xsf Utility: Underground Gas Line |
| XUPWR | Xsf Utility: Underground Power Line |
| XUSAN | Xsf Utility: Underground Sanitation Sewer |
| XUSTM | Xsf Utility: Underground Storm Drain |
| XUTEL | Xsf Utility: Underground Telephone Line |
| XUTV | Xsf Utility: Underground TV Cable |
| XUWATR | Xsf Utility: Underground Water Line |

4.2.2 Metfram.cel Metric Summary Frames cell library

| Name | Description |
|--------------|---|
| ACCDET | Table: Accident Details |
| ADDEM | Table: Additional Grading...Emb. * |
| ADDEX | Table: Additional Grading...Exc. * |
| ADSURF | Table: Additional Surfacing * |
| APPFR | Table: Approach Frame * |
| APPIPE | Table: Approach Pipe * |
| BENCHM | Table: Bench Marks |
| BITPAV | Table: Bituminous Pavement Removal |
| CATGRD | Table: Cattle Guard * |
| CHANREST | Table: Channel Restoration And Fish Passage * |
| CLCORD | Table: Centerline Coordinate Table |
| CLEAR | Table: Clearing And Grubbing * |
| COLDML | Table: Cold Milling * |
| CONCDR | Table: Concrete Drainage Chutes * |
| CONCLD | Table: Concrete Lined Ditch * |
| CONCMR | Table: Concrete Barrier Rail |
| CTRLPT | Table: Control Points |
| CTRLTR | Table: Control Traverse Abstract |
| CULVNO | Table: Culverts...No Options * |
| CULVOP | Table: Culverts...Optional * |
| CULVRE | Table: Culvert Summary Recap * |
| CURB | Table: Curb * |
| DETOUR | Table: Detour |
| DETRIT | Table: Detour Items |
| DIGOUT | Table: Digout Excavation * |
| DUCTIRON | Table: Ductile Iron Fittings |
| EDGEDR | Table: Edge Drain * |
| EMPRO | Table: Embankment Protectors * |
| EQUIP | Table: Equipment |
| FENCE | Table: Fencing * |
| FGC | Table: Finish Grade Control * |
| GABIANS | Table: Gabians * |
| GRADEM | Table: Grading...Embankment * |
| GRADEX | Table: Grading...Excavation * |
| GRDRAL | Table: Guardrail * |
| IRRSTR | Table: Irrigation Structures * |
| MAILFR | Table: Mailboxes |
| MANHOL | Table: Manholes In Place |
| MEDCB | Table: Median Concrete Curb * |
| MEDCO | Table: Median Crossover |
| MEDI | Table: Median Inlets |
| MISC | Table: Miscellaneous Items * |
| MUCKEX | Table: Muck Excavation * |
| OBLIT | Table: Obliterate Roadway |
| PAVEMK | Table: Pavement Markings |
| PMLIDI | Table: Plant Mix Lined Ditch * |
| PULV | Table: Pulverization * |
| RANRAP | Table: Random Riprap * |
| REMSTR | Table: Remove Structure |
| REVEGETATION | Table: Revegetation * |
| RIPREVEG | Table: Riprap Revegetation * |
| RLEVOP | Table: Road Leveler Operations |
| RUMSTR | Table: Rumble Strips * |

| | |
|---------|-------------------------------|
| SELBACK | Table: Select Backfill * |
| SIDWLK | Table: Sidewalk * |
| SPBRW | Table: Special Borrow * |
| STKPS | Table: Stockpass * |
| STORM | Table: Storm Drain * |
| SUBEM | Table: Subexcavation...Emb. * |
| SUBEX | Table: Subexcavation...Exc. * |
| SURF | Table: Surfacing * |
| TEMPGR | Table: Temporary Guardrail * |
| TOPSO | Table: Topsoil And Seeding * |
| TRCTRL | Table: Traffic Control |
| UNDR | Table: Underdrain * |
| WATER | Table: Water Line * |
| WETLAND | Table: Wetland Site |
| WTRADJ | Table: Water Valve Boxes |

* These tables have both English and Metric texts set on different levels. English is on (P_Summary_Frame Heading Eng Text) and Metric is on (P_Summary_Frame Heading Met Text).

4.3 Survey Cell Libraries

4.3.1 Surveyst.cel Metric Topography cells

Used with the statem.dgn seed file

| Name | Description |
|-------|--------------------------------|
| ANC | Anchor Guy |
| ARRD | Drain Direction Arrow |
| BM | Benchmark |
| CCF | Closing Corner Found |
| CNTR | Signal Controller |
| CNTRF | Center Section Found |
| CORE | Core Hole |
| DB | Ditch Block |
| DEL | Deliniator |
| DF | Default Feature |
| ECB | Existing Catch Basin |
| ECBR | Existing Catch Basin Round |
| EDI | Existing Drop Inlet Square |
| EDIR | Existing Drop Inlet Round |
| EMH | Existing Manhole Generic |
| EMHE | Existing Manhole Electric |
| EMHSD | Existing Manhole Storm Drain |
| EMHSS | Existing Manhole Sant Sewer |
| EMHT | Existing Manhole Telephone |
| FH | Fire Hydrant |
| FULL | Control Trav. Point |
| GM | Gas Meter |
| GT | Grid Tick |
| GUY | Guy Pole |
| GV | Gas Valve |
| HORZ | Horizontal Control Point |
| HW | High Water Point |
| IC | Invert of Culvert |
| LB | Lowbeam |
| LP | Light Pole |
| MAIL | Mail Box |
| MASS | Mass Point |
| MCF | Meander Corner Found |
| MD | Misc. Dtm Point Ftr. |
| MILE | Mile Post |
| MND | Miscellaneous Non Dtm Pt. Ftr. |
| MON | Monument |
| MP | Mile Post |
| NG | Natural Gas Valve |
| PASS | Pass Point |
| PB | Pull Box |
| PCF | Property Corner Found |
| PM | Project Marker |
| PNT0 | Default Ground Point 0 |
| PNT1 | Default Ground Point 1 |
| PNT13 | Default Ground Point 13 |
| PNT2 | Default Ground Point 2 |
| PNT20 | Default Ground Pointt 20 |
| PNT22 | Default Ground Point 22 |

| | |
|--------|-------------------------------------|
| PNT3 | Default Ground Point 3 |
| PNT4 | Default Ground Point 4 |
| PNT5 | Default Ground Point 5 |
| PNT6 | Default Ground Point 6 |
| PNT7 | Default Ground Point 7 |
| PP | Power Pole |
| PPD | Power Pedestal |
| PT | Default Point |
| PT1 | Metal R W Pin |
| QCF | Quarter Corner – Found |
| QCF90 | Quarter Corner – Found (Turned 90°) |
| RRCR | Rail Road Crossing Light |
| RRSWT | Rail Road Switch |
| RWALUM | Alum R W Mon |
| RWCONC | Conc R W Mon |
| RWREF | R W Metal Ref. Pin |
| SB | Service Box |
| SCF | Section Corner Found |
| SHRUB | Shrub |
| SIGN2P | Sign with Two Panels |
| SM | Station Marker |
| SPOT | Spot Height |
| SRVMAS | Survey Mass Point |
| SUVMON | Survey Monument |
| SWAMP | Swamp |
| SY.SN4 | Chevron Sign |
| TANK | Tank |
| TB | Telephone Booth |
| TC | Top of Culvert |
| TFS | Two Faced Sign |
| TGP | Telegraph Pole |
| TL | Traffic Light |
| TP | Telephone Pole |
| TPD | Telephone Pedestal |
| TRAV | Traverse Point |
| TREE | Tree |
| TT | Transmission Tower |
| TTBCON | Note: Consultant Title Block |
| TTBMDT | Note: MDT Title Block |
| UBOX | Utility Box |
| VALVE | Valve |
| VERT | Verticle Control Point |
| WELL | Well |
| WH | Water Hydrant |
| WM | Water Meter |
| WV | Water Valve |

4.4 Bridge Bureau Cell Libraries

4.4.1 Stdcells.cel English cell library

| Name | Description |
|--------|---------------------------------|
| 34STUD | |
| 78STUD | |
| APE | |
| APP | |
| ARROW | Arrowhead |
| ASB | Table: As Built Signature Block |
| AST | |
| ASTIE | |
| ASTIP | |
| B1 | |
| B10 | |
| B10A | |
| B4 | |
| BA | |
| BDR | Bourder |
| BOLDER | Pattern: Boulders |
| BOLT | Splice Bolt Elev Bolt |
| BONUT2 | Splice Bolt 4 Gu Rail Sec |
| BRKLN | |
| BT | |
| BTEND | |
| BWSTLL | |
| BWSTLR | |
| CBSL | |
| CBSR | |
| CELLS | |
| CELS | |
| CHS | Core Hole Symbol |
| CL | Centerline Symbol |
| CL1 | Centerline With 1 Line Text |
| CLP | Centerline At Beg Paragraph |
| CONC | Concrete Symbol |
| CONCR1 | Concrete W Triangles |
| CONCR2 | Concrete Wo Triangles |
| CSEAL | |
| DIA | Diameter Symbol |
| DOW | |
| DSEL | Drilled Shaft Elev Left |
| DSER | Drilled Shaft Elev Right |
| DSPL | Drilled Shaft Plan Left |
| DSPR | Drilled Shaft Plan Right |
| EARTH | Earth |
| EBSTL | |
| FA | Direction Of Flow Arrow |
| FKB | |
| FKBR | |
| GA | Guard Angle |
| GRAN | Granite Basalt Pa 90 |
| GRAVEL | Gravel |

| | |
|--------|-------------------------|
| HEADER | |
| HP10 | |
| HP12 | |
| HP14 | |
| HPE10 | |
| HPE12 | |
| HPE14 | |
| IBSTL | |
| JEENE | |
| LIME | Limestone Dolomite |
| M72 | |
| MDT | |
| MEDIAN | |
| MSTL1 | |
| MSTL2 | |
| NA | North Arrow |
| NA2 | |
| NO4 | |
| NO5 | |
| NO6 | |
| NO7 | |
| NO8 | |
| NO9 | |
| NOSEAN | Plan View Of Nose Angle |
| NUTELE | Elev View 1 1 16 Nut |
| NUTPLA | Plan View 1 1 16 Nut |
| P12 | |
| P14 | |
| P16 | |
| P18 | |
| P20 | |
| PE12 | |
| PE14 | |
| PE16 | |
| PE18 | |
| PE20 | |
| PL | Plate Symbol |
| PSTL | |
| SA1 | |
| SA2 | |
| SA3 | |
| SA4 | |
| SA5 | |
| SA6 | |
| SA7 | |
| SA8 | |
| SAND | Sandstone Quartzite |
| SANGRA | Sand Gravel |
| SCALE | |
| SCHIST | Schist Gneiss Pa 90 |
| SILT | Siltstone Pa 135 |
| STL | |
| SWBSTL | |
| SWRSTL | |
| T101CK | T101 Backwall Check |
| T101EB | |
| T101EF | |
| T101EL | |

| | |
|----------------|----------------------------------|
| T101ER | |
| T101P | |
| T101timberplan | Plan View Of T101 To Timber Conn |
| T3CE10 | |
| T3CE12 | |
| T3CP | |
| THBMRL | |
| THBMRR | |
| TS1 | 37 4 Terminal Section |
| W6X20E | |
| W6X20P | |
| W6X9P | |
| WABOEF | Wabo Ef Series |
| WABOSE | Wabo Se |
| WBMRL | |
| WBMRR | |
| WELD | |
| WOOD1 | Wood Elevation |
| WOOD2 | Wood Plan |
| WS | Waterstop |
| border | New English Border |

4.4.2 Mstdcells.cel Metric Cell Library

| Name | Description |
|-------------|---------------------------------|
| 17 | Type 17 Rebar Shape |
| 19STUD | 19 Mm Shear Stud |
| 22STUD | 22 Mm Shear Stud |
| 27 | 27 Bar Type |
| 30 | 30 Bar Type |
| 33 | Barrier U Bar |
| 8.5D | 8.5x11 Boarder with Data Fields |
| APE | Approach Post Elevation |
| APP | Approach Post Plan |
| ARROW | Arrowhead |
| ASB | As Built Signature Block |
| AST | Asterisk |
| AST1E | App Type 1 Elevation |
| AST1P | App Type 1 Plan |
| AST3E | App Section Type 3 Elevatio |
| AST3EC | App Section Type 3 With Con |
| AST3P | App Section Type 3 Plan |
| AST3PC | App Section Type 3 With Con |
| ASTP2 | App Section Type 2 Plan |
| B1 | |
| B10 | Type 10 Beam |
| B10A | Type 10a Beam |
| B1SHOE | Shoe For Type B1 |
| B4 | Type 4 Beam |
| B472SH | Shoe For Type B4m72 |
| BA | Type Ba Beam |
| BAPLAN | Type Ba Beam Plan View |
| BAS | Type Ba Beam With Shoe |
| BASHOE | Shoe For Type Ba |
| BAST | Bridge App Section Test |
| BDR | Drawing Border |
| BHS | Bore Hole Symbol |
| BLDCBL | Pattern: Boulder cobble |
| BOLDER | Pattern: Boulders |
| BOLT | Splice Bolt Elev |
| BONUT | Splice Bolt |
| BRGDF | Bridge Data Fields |
| BRKLN | Breakline Symbol |
| BT | |
| BTEND | |
| BWSTLL | |
| BWSTLR | |
| CBSL | Concrete Barrier Left |
| CBSR | Concrete Barrier Right |
| CELLS | |
| CELS | |
| CL | Centerline Symbol |
| COAL | |
| CONC | Concrete Symbol |
| CONCR1 | Concrete With Triangles |
| CONCR2 | Concrete W O Triangles |
| CSEAL | Compression Seal |
| DIA | Diameter Symbol |
| DOW | Dow Corning 888 Silicone |

| | |
|--------|----------------------------|
| DSEL | Drilled Shaft Elev Left |
| DSER | Drilled Shaft Elev Right |
| DSPL | Drilled Shaft Plan Left |
| DSPR | Drilled Shaft Plan Right |
| EARTH | Pattern: Earth |
| EBSTL | End Bent Rebar |
| EBSTL2 | End Bent Rebar Geopak |
| FA | Direction Of Flow Arrow |
| FKB | |
| FKBR | |
| FLPILE | 356 Mm Fluted Pile |
| GA | Guard Angle |
| GL1 | General Layout For Class |
| GL2 | General Layout 2 For Class |
| GP | Pattern: Gravel |
| GRAN | Granite Basalt |
| GRAVEL | |
| GW | Gravel W |
| GWE | Ground Water Elevation |
| HEADER | Border Header |
| HP250 | 10x42 Hpile |
| HP310 | 12x53 Hpile |
| HP360 | 14x73 Hpile |
| HPE250 | 10x42 Hpile |
| HPE310 | 12x53 Hpile |
| HPE360 | 14x73 Hpile |
| HW | High Water Mark |
| IBSTL | Intermediate Bent Steel |
| JEENE | Expansion Joint |
| LIME | Limestone Dolomite |
| M72 | Type M72 Prestressed Beam |
| MDT | Title Block Logo |
| MEDIAN | Median Barrier |
| MSTL1 | Miscellaneous Bar Bends |
| MSTL2 | Miscellaneous Bar Bends |
| MT28 | Mt 28 Prestressed Beam |
| NA | North Arrow |
| NO4 | No4 Rebar |
| NO5 | No5 Rebar |
| NO6 | No6 Rebar |
| NO7 | No7 Rebar |
| NO8 | No8 Rebar |
| NO9 | No9 Rebar |
| NOSEAN | Nose Angle Plan View |
| NUTELE | Elev Of 11 16 Nut |
| NUTPLA | Plan Of 11 16 Nut |
| P305 | 12 Pipe Pile |
| P406 | 16 Pipe Pile |
| P508 | 20 Pipe Pile |
| PL | Plate Symbol |
| PP305 | 305 Mm Pipe Pile |
| PP406 | 406 Mm Pipe Pile |
| PP508 | 508 Mm Pipe Pile |
| PSTL | Concrete Pier Steel |
| QSHTXT | Quantities Sheet Text |
| RANRBL | Random Rubble |
| S11 | Type S11 Rebar Shape |
| S4 | Type S4 Rebar Shape |

| | |
|--------|---------------------------|
| S5 | Type S5 Rebar Shape |
| SA | Section Arrow |
| SAND | Sandstone Quartzite |
| SANGRA | Sand And Gravel |
| SCALE | |
| SCHIST | Schist Gneiss |
| SILT | Siltstone |
| STL | |
| SWBSTL | Slab With Barrier Steel |
| SWRSTL | Slab With T101 Rail Steel |
| T1 | T1 Bar Type |
| T101CK | T101 Backwall Check |
| T101EB | T101 Back Elevation View |
| T101EF | T101 Front Elev View |
| T101EL | T101 Left |
| T101ER | T101 Right |
| T101P | T101 Plan View |
| T3 | Type T3 Rebar Shape |
| T3C10E | Type 3 Curb Taper 254 |
| T3C12E | Type 3 Curb Taper 305 |
| T3CTP | Type 3 Curb Taper Plan |
| THBMRL | Thrie Beam Rail Left |
| THBMRR | Thrie Beam Rail Right |
| TI | Threaded Insert 16 Mm |
| TOPSOL | |
| TS1 | 37 4 Terminal Section |
| W6X20E | Elevation View Of T101 |
| W6X9P | |
| W6x20P | T101 Post Plan View |
| W740P | W740 Post Plan View |
| W830P | W830 Post Plan View |
| WABO | Ef Series |
| WABOSE | Wabo Se Series |
| WBMRL | W Beam Rail Left |
| WBMRR | W Beam Rail Right |
| WELD | Weld Symbol |
| WNGDNG | Surface Symbol |
| WOOD1 | Wood Elevation |
| WOOD2 | Wood Plan |
| WS | Waterstop |

4.5 Signing Cell Libraries

4.5.1 Guide1.cel Guide Signs

| Name | Description |
|--------|---|
| B3 | 3 Bar Barricade |
| BAR.3 | 3 Panel Parricade |
| D10.1 | 1 Digit Milepost |
| D10.2 | 2 Digit Milepost |
| D10.3 | 3 Digit Milepost |
| D11.1 | Bike Route |
| D12.5 | Travel Info Dial 511 |
| D20.1 | Post Office with Arrow |
| D4.1 | Parking with Arrow |
| D4.2 | Park And Ride |
| D5.1 | Rest Area 1 Mile |
| D5.11 | Rest Area 2 Miles |
| D5.2L | Rest Area with Left Arrow |
| D5.2R | Rest Area with Left Arrow |
| D5.5 | Roadside Table Text with Arrow |
| D5.5A | Roadside Table Pictograph with Arrow |
| D5.5B | Roadside Table ½ Mile |
| D6.4 | Secnic Turnout ½ Mile |
| D6.6 | Scenic Turnout with Arrow |
| D7.3L | Historic Point ½ Mi |
| D7.3R | Historic Point ½ Mi |
| D7.4L | Historic Pt with Left Arrow |
| D7.4R | Historic Pt with Right Arrow |
| D7.5L | Wildlife Viewing with Left Arrow |
| D7.5R | Wildlife Viewing with Right Arrow |
| D7.6L | Golf with Left Arrow |
| D7.6R | Golf with Right Arrow |
| D8.1 | Weigh Station 1 Mile |
| D8.2 | Weigh Station Next Right with Open/Closed |
| D8.2A | Weigh Sta with Straight Left Arrow |
| D8.3 | Weigh Sta with 45° Right Arrow |
| D9.10L | Information with Left Arrow |
| D9.10R | Information with Right Arrow |
| D9.12L | Sanitary Station with Left Arrow |
| D9.12R | Sanitary Station with Right Arrow |
| D9.1L | Phone with Left Arrow |
| D9.1R | Phone with Right Arrow |
| D9.2 | Hospital with Arrow |
| D9.20 | Old Hospital Signing with Arrow |
| D9.3 | Camping with Arrow |
| D9.3AL | Trailer with Left Arrow |
| D9.3AR | Trailer with Right Arrow |
| D9.4 | Litter Barrel ½ Mi |
| D9.4B | Litter Barrel with Arrow |
| D9.6 | Handicapped Access |
| D9.6A | Reserve For Handicap |
| D9.7 | Gas |
| D9.8 | Food |
| D9.9 | Lodging |
| D9.98 | Zoo with Arrow |

| | |
|--------|--|
| D9.XP | 24 X 6 Arrow Panel |
| I.5 | Airport with Arrow |
| IS1.1 | Phone – Gas |
| IS2.1 | Food – Phone – Gas – Lodging |
| IS3.1 | Food – Phone – Gas – Lodging Next Right |
| IS4.1 | Next Service Xx Miles |
| IS6.2 | Next Rest Area Xx Miles |
| IS6.4 | Rest Area Next Right |
| IS6.5 | Rest Area 45° Arrow |
| IS7.1 | Food – Phone – Gas – Lodging – Camping Next Right |
| IS7.50 | Food – Phone – Gas – Lodging – Hospital – Camping Next Right |
| M1.1 | Interstate Mainline |
| M1.11 | Lewis And Clark Trail |
| M1.12 | Mt Secondary Panel |
| M1.12S | Mt Seconary Shield |
| M1.13 | Nez Perce Trail |
| M1.14 | Old West Trail |
| M1.2 | Business Loop |
| M1.4.2 | Us Panel 2 Digit |
| M1.4.3 | Us Panel 3 Digit |
| M1.4A2 | Us Shield 2 Digit |
| M1.4A3 | Us Shield 3 Digit |
| M1.5.2 | Mt Route 2 Digit |
| M1.5.3 | Mt Route 3 Digit |
| M1.6 | County Route |
| M1.7 | National Forest Route |
| M1.8 | Bike Route 2 Digit |
| M1.9 | Bike Route 3 Digit |
| M2.1 | Junction Panel |
| M2.2 | Junction with 2 Shields |
| M3.1 | North Panel |
| M3.2 | East Panel |
| M3.3 | South Panel |
| M3.4 | West |
| M4.1 | Alternate Panel |
| M4.10L | Detour Left Arrow |
| M4.10R | Detour Right Arrow |
| M4.11 | Begin Bike Route |
| M4.12 | End Bkie Route |
| M4.13 | To Bike Route |
| M4.1A | Alt Panel |
| M4.2 | Bypass Panel |
| M4.3 | Business Panel |
| M4.4 | Truck Panel |
| M4.5 | To Panel |
| M4.6 | End Panel |
| M4.7 | Temporary Panel |
| M4.7A | Temp Panel |
| M4.8 | Detour Panel |
| M4.9 | Detour with Right Arrow |
| M5.1 | Advance with 90° Left Arrow |
| M5.2 | Advance with 45° Left Arrow |
| M6.1 | Right Turn Arrow |
| M6.2 | Rt Turn 45 Arrow |
| M6.3 | Strght Ahead Arrow |
| M6.4 | Rt Lt Turn Arrows |
| M6.5 | Rt Lt Turn 45 Arrow |

| | |
|--------|----------------------------|
| M6.6 | Strght Rt 90 Arrows |
| M6.7 | Strght Ahead 45 Arrows |
| MFWP.1 | State Parks Logo |
| MFWP.2 | Grizzly Bear Logo |
| N6.4B | Welcome To Montana |
| N7.1 | Adopt A Highway |
| NFLOGO | Forest Service Logo |
| NFRS | Usfs Ranger Station ½ Mile |
| OM.3L | Object Marker |
| OM.3R | Object Marker |
| RM.120 | Picnic Area |
| RS.000 | Fwp Tent And Camper |
| RS.050 | Ski Area Symbol |
| RS.054 | Fwp Boadt Launch |
| RS.063 | Fwp Fishing Access |
| S1.1 | School Crossing |
| S1.1SA | Advance 1 Block |
| S1.1SB | Advance Xxx Ft |
| S1.1SC | Advance Multiple Xings |
| S2.1 | Stop At School Crossing |
| S3.1 | School Bus Stop Ahead |
| S4.1 | Time Indication |
| S4.2 | When Children Present |
| S4.3 | School Panel |
| S4.4 | When Flashing |
| S5.1 | School Speed Combo |
| X3.2 | 9 Button Object Marker |
| X3.3 | 3 Button Object Marker |

4.5.2 Reg.cel Regulatory Signs

| Name | Description |
|--------|---|
| R1.1 | Stop Sign |
| R1.1A | Bike Path Stop Sign |
| R1.2 | Yield Sign |
| R1.3 | Multi Way Stop |
| R1.4 | All Way Stop |
| R10.1 | Cross Green Light Only |
| R10.10 | Left Turn Signal |
| R10.12 | Left Turn Yield On Green |
| R10.2 | Cross On Signal Only |
| R10.3 | Push Button For Green Light |
| R10.3A | To Cross Street Push Button Wait For Green Light with Left Arrow |
| R10.4 | Push Button For Walk Signal |
| R10.4A | To Cross Street Push Button Wait For Green Light with Right Arrow |
| R10.4B | Push Button To Walk |
| R10.5 | Left On Arrow Only |
| R10.6 | Stop Here On Red |
| R10.6A | Stop Here On Red |
| R10.7 | Do Not Block Intersect |
| R10.8 | Use Lane W Green Arrow |
| R1011A | No Turn On Red |
| R1011B | No Trun On Red |
| R11.1 | Keep Off Median |

| | |
|--------|--|
| R11.2 | Road Closed |
| R11.3 | Road Closed Xx Miles Ahead |
| R11.3B | Bridge Out Xx Miles Ahead |
| R11.4 | Road Closed Thru Traffic |
| R12.1 | Weight Limit Xx Tons |
| R12.2 | Axle Weight Limit X Tons |
| R12.3 | No Trucks Over Xx Lbs Empty Wt |
| R12.4 | Weight Limit X per Axle Xx Tons Gross |
| R12.5 | Weight Limit 3 Sizes |
| R13.1 | All Trucks Commercial Vehicles Next Right |
| R13.1A | All Trucks Commercial Vehicles with Arrow |
| R13.2 | Nonresident Trucks-Buses Must Have G.V.W Permits |
| R13.4 | Prepass Follow In-Cab Signals |
| R14.1 | Truck Route |
| R15.1 | Railroad Crossing - Crossbucks |
| R15.2 | X Tracks |
| R15.3 | Exempt For Rr |
| R15.5 | No Camping |
| R16.1 | Buckle Up It's the Law |
| R2.1 | Speed Limit Panel |
| R2.11 | Speed Checked By Radar |
| R2.12A | Reasonable Prudent |
| R2.12B | Reasonable Prudent |
| R2.1C | Night 65 Trucks 65 |
| R2.1C1 | Night 55 Trucks 60 |
| R2.2 | Trucks Xx Speed Lmt |
| R2.2A | Trucks 65 |
| R2.3A | Night 55 |
| R2.3B | Night 65 |
| R2.5A | Reduced Speed Ahead |
| R2.5B | Reduced Speed Xx |
| R2.5C | Speed Zone Ahead |
| R2.6A | Truck Speed Limit 60 |
| R2.7D | End Speed Zone |
| R3.1 | No Right Turn Symbol |
| R3.10 | Restricted Lane Ahead |
| R3.11 | Center Lane Restricted |
| R3.12 | Restricted Lane Ends |
| R3.13 | Over Head Restrict Lane Ahead |
| R3.14 | Over Head Restrict Lane with Arrow |
| R3.15 | Over Head Restrict Lane Ends |
| R3.16 | Bike Lane Ahead |
| R3.16A | Bike Lane Ends |
| R3.17 | Bike Right Lane Only |
| R3.1P | No Right Turn Legend |
| R3.2 | No Left Turn |
| R3.2P | No Left Turn Legend |
| R3.3 | No Turns |
| R3.4 | No U Turn Symbol |
| R3.4P | No U Turn Legend |
| R3.5 | Over Head Lane Control Left Arrow |
| R3.5A | Over Head Lane Control Right Arrow |
| R3.5B | Over Head Lane Control Straight Arrow |
| R3.6 | Over Head Left Straight Arrows |
| R3.6A | Over Head Right Straight Arrows |
| R3.7 | Lt Ln Must Turn Left |
| R3.7R | Rt Ln Must Turn Right |
| R3.8 | Dbl Arow Lt Strt Lt |

| | |
|--------|-------------------------|
| R3.8A | Rt Lt Only Arrows |
| R3.8B | Strt Rt Only Arrows |
| R3.8C | Lt Strt Rt Only Arrows |
| R3.8D | Lt Strt Only Rt Cmbo |
| R3.8E | Strt Only Combo Rt Only |
| R3.9 | Twltnl Sign Legend |
| R3.9A | Twltnl Symbol |
| R3.9B | Cntr Lane Twltnl Symbol |
| R3.9C | Begin Twltnl |
| R3.9D | End Twltnl |
| R4.1 | Do Not Pass |
| R4.14 | Authorized Vehic Only |
| R4.2 | Pass With Care |
| R4.20 | Thru Traffic Keep Rt |
| R4.3 | Slow Traffic Keep Rt |
| R4.4 | Beg Rt Turn Ln Yield |
| R4.5 | Trucks Use Rt Lane |
| R4.6 | Truck Lane 500 Ft |
| R4.7 | Keep Right Symbol |
| R4.7A | Keep Rt W Str Arrow |
| R4.7B | Keep Rt 45 Arrow |
| R4.7P | Keep Right Legend |
| R4.8 | Keep Left Symbol |
| R5.1 | Do Not Enter |
| R5.10A | Ped Bikes Motorbks Proh |
| R5.10B | Ped Bikes Prohibited |
| R5.10C | Peds Prohibited |
| R5.1A | Wrong Way |
| R5.2 | No Trucks |
| R5.3 | No Motor Vehicles |
| R5.4 | Comm Vehic Excluded |
| R5.5 | Vehicl With Lug Prohib |
| R5.6 | No Bicycles |
| R6.1L | One Way Left |
| R6.1R | One Way Right |
| R6.2R | One Way Arrow Legend |
| R6.3 | Divid Hiway X Road |
| R6.3A | Divid Hiway T Intsect |
| R7.10 | No Prk Stop Schol Day |
| R7.107 | No Prk Bus Stop Arrow |
| R7.10A | No Prk Skool Time Arow |
| R7.1A | No Prk Anytime Dbl Arow |
| R7.1L | No Prk Anytime Lt Arow |
| R7.1R | No Prk Anytime Rt Arow |
| R7.2 | No Prk Times Arrow |
| R7.200 | No Prk 1 Hr Prk Arrow |
| R7.201 | Tow Away Zone |
| R7.202 | This Side Of Sign |
| R7.2A | No Prk Times Symbol |
| R7.3 | No Park Except Sun Hol |
| R7.3A | No Park To Corner |
| R7.4 | No Standing Anytime |
| R7.5 | One Hour Prk W Times |
| R7.5A | One Hour Prk Arrows |
| R7.6 | No Prk Load Zone |
| R7.8 | Handicap Park Only |
| R7.8A | No Park Between Signs |
| R7.9 | No Park Bike Lane |

| | |
|--------|-------------------------|
| R7.9A | No Prk Bike Ln Symbol |
| R7.R | No Prk Bus Stop Arow |
| R7107A | No Prk Bus Stop Symb |
| R7108 | 2 Hr Parking Arrow |
| R7108A | 1 2 Hr Parking Arrow |
| R7108B | 20 Min Park Arrow |
| R7201A | Tow Away Zone Symb |
| R8.1 | No Park On Pavement |
| R8.2 | No Park Except Shoulder |
| R8.3 | No Parking Legend |
| R8.3A | No Parking Symbol |
| R8.4 | Emergency Park Only |
| R8.5 | No Stop On Pavement |
| R8.6 | No Syop Except Shoulder |
| R8.7 | Emergency Stop Only |
| R8.8 | Do Not Stop On Track |
| R9.1 | Walk Lt Face Traffic |
| R9.2 | Cross Only At X Walks |
| R9.3 | No Ped Crossing |
| R9.3A | No Ped Crossing Symbol |
| R9.3B | Use Crosswalk Arrow |
| R9.4 | No Hitch Hiking Legend |
| R9.4A | No Hitch Hike Symbol |
| R9.5 | Bikes Use Ped Signal |
| R9.6 | Bikes Yield To Peds |
| R9.7 | Keep Ped Lt Bikes Rt |
| R99.1 | Litter Hwy Prohibited |
| R99.6 | No Engine Brakes |
| RA.3 | Restricted Access |

4.5.3 Sign1.cel Misc

| Name | Description |
|--------|----------------------------|
| 6LINE | Metric Sign Design |
| AA | |
| AL.CP | Curve Points |
| AL.DAT | Curve Data |
| AL.STA | Stationsing 1000 Ft |
| APP.1 | Standard Appraoch |
| APP.2 | 20ft Driveway |
| APP.3 | 40ft Street Approach |
| AR.6 | 6uc Arrow 9.56 X 8.44 |
| AR.8 | 8uc Arrow 1 2 X 11.25 |
| AR.88 | 8uc Arow 17.25 X 14.25 |
| AR.DN1 | Down Arrow 24 X 16.25 |
| AR.DN2 | Down Arrow 32 X 22 |
| AR.GD3 | 4 X 6 Arrow For Gm D3 |
| AR.OD3 | 6 X 9 Arrow For Oh D3 |
| ARWHD | To Replace Geo S Arrowhead |
| BDR.1 | 17 X 11 Std Drw Border |
| BDR.2 | 8.5 X 11 Std Drw Border |
| DA.50 | 2 A Del Opposite 50ft |
| DA.60 | 2 A Del Opposite 60ft |
| DA.70 | 2 A Del Opposite 70ft |
| DA130 | Des A Del 130ft Spacing |
| DA160 | Des A Del 160ft Spacing |

| | |
|--------|----------------------------|
| DA225 | Des A Del 225ft Spacing |
| DA300 | Des A Del 300ft Spacing |
| DA400 | Des A Del 400ft Spacing |
| DAF.50 | A F Del Opposite 50ft |
| DAF.60 | A F Del Opposite 60ft |
| DAF.70 | A F Del Opposite 70ft |
| DAF090 | Des A F Del 90ft Spacing |
| DAF110 | Des A F Del 110ft Spacing |
| DAF130 | Des A F Del 130ft Spacing |
| DC.50 | 2 C Del Opposite 50ft |
| DC.60 | 2 C Del Opposite 60ft |
| DC.70 | 2 C Del Opposite 70ft |
| DC45 | Des C Del 45ft Spacing |
| DC60 | Des C Del 60ft Spacing |
| DEL.A | Design A Delineator |
| DEL.B | Design B Delineator |
| DEL.C | Design C Delineator |
| DEL.D | Design D Delineator |
| DEL.E | Design E Delineator |
| DEL.F | Design F Delineator |
| DEL.FX | Flexible Delineator |
| DEL.G | Design G Delineator |
| DEL.H | Design H Delineator |
| DEL.J | Design J Delineator |
| DEL.TA | Top Mounted Des A Del |
| DEL.TF | Top Mounted Des F Del |
| DELTBL | Delineator Table |
| DF.50 | 2 F Del Opposite 50ft |
| DF.60 | 2 F Del Opposite 60ft |
| DF.70 | 2 F Del Opposite 70ft |
| DF75 | Des F Del 75ft Spacing |
| DF90 | Des F Del 90ft Spacing |
| I | Roman Numeral For Spec |
| III | Roman Numeral |
| MDT | Mdot Logo |
| MSIGN | 4 Line Metric |
| NORTH | North Arrow |
| PM.ACL | 7.2x12.7 Combo Arrow |
| PM.ACR | 7.2x12.7 Combo Arrow |
| PM.AS | 3.2 X 9.6 Str Arrow Symbol |
| PM.BIK | Bike Lane Symbol |
| PM.CLR | 10 30 Rural Cntrln |
| PM.CLU | 9 15 Urban Lane Line |
| PM.LN | 8 X 8 Lane Symbol |
| PM.LT | 6.3 X 8 Lane Symbol |
| PM.MD | 2 Ft Median Diagonal |
| PM.NT | Plastic Note |
| PM.ON | 8 X 8 Only Symbol |
| PM.RR | 12 X 50 Rural Rr Symbol |
| PM.RR1 | 8 20 Rr Symbol |
| PM.RT | 8 X 8 Right Symbol |
| PM.ST | 7.75 X 8 Stop Symbol |
| PM.TAL | 6 X 8 Lt Turn Arrow Sym |
| PM.TAR | 6 X 8 Rt Turn Arrow Symbol |
| PM.TN | 8 X 8 Turn Symbol |
| SIGN | 4 Line English |
| SP.BB | Backbrace Reqd Note |
| SP.BLK | Frangible Bolt Symbol |

| | |
|---------|-----------------------------|
| SP.DF | Double Faced Noted |
| SP.FR | Frangible Note |
| SP.NT | Spec Sheet Note |
| SP.PI | X Inch Pipe |
| SP.PIH | X.5 Inch Pipe |
| SP.PL | X Inch Pole |
| SP.RS | Reduced Spacing Note |
| SP.SBS | Single Breakaway Symbol |
| SP.SSB | Single Tube W Breakaway |
| SP.SST | Single Sq Tube Note |
| SP.STD | Standard Breakaway |
| SP.STR | Dbl Sq Tube Symbol |
| SP.STW | Sq Tube Weights |
| SP.STWE | English Sq Tube Weights |
| SP.TB | 2.5 Inch Sq Tube |
| SP.TB1 | 2 Inch Sq Tube |
| SP.TOT | Total Line Spec Sheet |
| SP.TRI | Single Sq Tube Symbol |
| SP.TST | Telescoped Tube Note |
| SP.WFD | White Flex Delin Note |
| SP.X | Standard Brkawy Symbol |
| SP.YFD | Yellow Flex Delin Note |
| SY.PT1 | Lrg Construction Point |
| SY.PT2 | Sm Construction Point |
| SY.SN1 | 1 Post 1 Panel |
| SY.SN2 | 2 Post Guide Sign |
| SY.SN3 | 1 Post 2 Panels |
| SY.SN4 | 1 Post 2 Chevrons |
| SY.SN5 | 1 Post 2 Bk To Bk Panels |
| SY.TP | Telephone Pole Symbol |
| SY.TRM | Sign Calculation Terminator |
| SY.WFD | White Flex Delin Symbol |
| SY.YFD | Yellow Flex Delin Symbol |

4.5.4 Warn.cel Warning Signs

| Name | Description |
|--------|--------------------------|
| DUCK | Duck Crossing Sign |
| ELK | Elk Crossing Sign |
| MOOSE | Moose Crossing Sign |
| S1.1 | School Xing |
| SHEEP | Sheep Crossing Sign |
| W1.1L | Left Turn Sign |
| W1.1R | Right Turn Sign |
| W1.2L | Left Curve Sign |
| W1.2R | Right Curve Sign |
| W1.3L | Left Reverse Turn Sign |
| W1.3R | Right Reverse Turn Sign |
| W1.4L | Left Reverse Turn Sign |
| W1.4R | Right Reverse Curve Sign |
| W1.5AL | 180° Left Curve Sign |
| W1.5AR | 180° Right Curve Sign |
| W1.5L | Left Winding Road Sign |
| W1.5R | Right Winding Road Sign |
| W1.6 | Large Arrow Sign |
| W1.7 | Large Double Arrow Sign |

| | |
|--------|------------------------------------|
| W1.8 | Chevron Sign |
| W10.1 | Advance Rail Road Sign |
| W10.2L | Rail Road Advance Left with Panel |
| W10.2R | Rail Road Advance Right with Panel |
| W10.3L | Rail Road Advance Left with Panel |
| W10.3R | Rail Road Advance Right with Panel |
| W10.4L | Rail Road Advance Left with Panel |
| W10.4R | Rail Road Advance Right with Panel |
| W10.5A | Right Rail Road Supplement Panel |
| W10.5B | Left Rail Road Supplement Panel |
| W11.1 | Bike Crossing Sign |
| W11.10 | Truck Crossing Sign |
| W11.2 | Pedestrian Crossing Sign |
| W11.2A | Pedestrian Crossing with Lines |
| W11.3 | Deer Crossing Sign |
| W11.3A | Game Crossing Sign |
| W11.3P | Deer Crossing Panel |
| W11.4 | Cattle Crossing Sign |
| W11.4A | Range Cattle Sign |
| W11.5 | Farm Machinery Sign |
| W11.6A | Snowmobile Sign |
| W11.7 | Equestrian Sign |
| W11.8 | Fire Station Sign |
| W11.8A | Fire Trucks Entering Panel |
| W11.9 | Handicap Crossing Sign |
| W12.1 | Double Arrow Sign |
| W12.2 | Low Clearance Sign |
| W12.2P | Low Clearance Panel |
| W12.3 | Sup Fraction Mile Panel |
| W12.3A | Sup Mile Panel |
| W12.3B | Sup Xxxx Feet Panel |
| W12.4 | Over Head Low Clearance Sign |
| W13.1 | Advisory Speed Panel |
| W13.2 | Advisory Exit Speed |
| W13.3 | Advisory Ramp Speed |
| W14.1 | Dead End Sign |
| W14.2 | No Outlet Sign |
| W14.3 | No Passing Zone Sign |
| W15.1 | Playground Sign |
| W16.2 | Xxx Feet Panel |
| W16.3 | X Miles Panel |
| W16.7P | School Xing Arrow |
| W16.9P | Ahead Supplemental |
| W2.1 | Crossroad Sign |
| W2.2 | Side Road Sign |
| W2.3L | Side Road Angle Lt Sign |
| W2.3R | Side Road Angle Right Sign |
| W2.4 | T Intersection Sign |
| W2.5 | Y Intersection Sign |
| W2.6 | Roundabout |
| W20.1 | Road Construct Xx Ft |
| W20.10 | Equipment Enter Sign |
| W20.11 | Equipment Xing Sign |
| W20.12 | No Center Stripe Sign |
| W20.13 | Arrow Board |
| W20.2 | Detour Xx Ft Sign |
| W20.3 | Street Closed Xx Ft |
| W20.4 | One Lane Road Xx Ft |

| | |
|--------|--------------------------|
| W20.5 | Centr Ln Closed Xx Ft |
| W20.7 | Flagger Xx Ft Sign |
| W20.7A | Flagger Symbol Sign |
| W20.P3 | 3 Digit Panel |
| W20.P4 | 4 Digit Panel |
| W21.1 | Workers Sign |
| W21.1A | Workers Symbol Sign |
| W21.2 | Fresh Oil Sign |
| W21.3 | Rd Machinery Xx Ft |
| W21.4 | Road Work Xx Ft |
| W21.5 | Shoulder Work Sign |
| W21.6 | Survey Crew Sign |
| W22.1 | Blasting Zone Xx Ft |
| W22.2 | Turn Off 2 Way Radio |
| W22.3 | End Blasting Zone |
| W3-5 | Speed Reduction Ahead |
| W3.1 | Stop Ahead Sign |
| W3.1A | Stop Ahead Symbol Sign |
| W3.2A | Yield Ahead Sign |
| W3.3 | Signal Ahead Symbol Sign |
| W3.3P | Signal Ahead Panel |
| W4.1 | Merge Sign |
| W4.1P | Merge Panel |
| W4.2L | Lane Reduction Left |
| W4.2R | Lane Reduction Right |
| W4.3 | Added Lane Sign |
| W5.1 | Road Narrows Sign |
| W5.2 | Narrow Bridge |
| W5.2A | Narrow Bridge W Panel |
| W5.3 | One Lane Bridge Sign |
| W6.1 | Beg Divided Hiway Sign |
| W6.1P | Divided Hiway Panel |
| W6.2 | End Divided Hiway Sign |
| W6.2P | Divided Hiway Ends Panel |
| W6.3 | Two Way Traffic Sign |
| W6.3P | 2 Way Traffic Panel |
| W7.1 | Hill Sign |
| W7.1A | Hill Sign |
| W7.1B | Hill W Percent |
| W7.2 | Use 2nd Gear Panel |
| W7.2A | Use Low Gear Panel |
| W7.2B | Trks Use Low Gear Panel |
| W7.3 | Percent Grade Panel |
| W7.3A | Next X Miles Panel |
| W7.3B | X Grade X Miles Panel |
| W7.4 | Runaway Trk Rmp X Miles |
| W7.4A | Rnawy Trk Rmp Arrow |
| W7.5 | Bike Hill Sign |
| W8.1 | Bump Sign |
| W8.10 | Bike Slip When Wet Sign |
| W8.11 | Fallen Rock Legend Sign |
| W8.11A | Fallen Rock Symbol Sign |
| W8.12A | Icy Spots Next X Mi Sign |
| W8.12B | Watch For Ice On Bridge |
| W8.2 | Dip Sign |
| W8.3 | Pvmnt Ends Legend Sign |
| W8.3A | Pvmnt Ends Symb W Panel |
| W8.4 | Soft Shoulder Sign |

| | |
|-------|--------------------------|
| W8.5 | Slippery When Wet Sign |
| W8.6 | Truck Xing Sign |
| W8.6A | Trucks Entering Sign |
| W8.7 | Loose Gravel Sign |
| W8.8 | Rough Road Sign |
| W8.9 | Low Shoulder Sign |
| W8.9A | Low Shldr SmbL Sign |
| W9.1L | Left Lane Ends Sign |
| W9.1R | Right Lane Ends Sign |
| W9.2L | Ln Ends Merge Lt Sign |
| W9.2R | Ln Ends Merge Right Sign |

4.6 Right of Way Cell Libraries

4.6.1 rwmet.cel Metric cells

| Name | Description |
|--------|--|
| AC1 | Note: "Controlled Access Resolution Is Recorded" |
| AC2 | Note: "Amended Access Resolution Is Recorded" |
| ACCRES | Note: Limited Access Resolution |
| ADDBLK | Add Adv Acq Date Blk |
| APPBLK | Adv Acq Appr Date Blk |
| APPFR2 | Approach Block |
| AREADF | Data Fields For Areas |
| ARW | Line Terminator |
| BDNRCL | Begin Dnrc Call Left |
| BDNRCL | Begin Dnrc Call Right |
| BEGACQ | Begin Acquisition |
| CALC | Calculated Point |
| CCF | Closing Corner – Found |
| CCNF | Closing Corner – Unfound |
| CL | Center Line Symbol |
| CNTRF | Center Section – Found |
| CNTRNF | Center Of Section – Unfound |
| CONPMT | Const Permit Call |
| COORD | Coordinate Sheet Df |
| CORDDF | Coordinate Data Field |
| CORTIE | Section Corner Tie |
| COSSH | Certificate Of Survey Sheet |
| CPBEG | Begin Const. Pmt. Call |
| CPBEG | Begin Const. Pmt. Left |
| CPBEG | Begin Const. Pmt. Right |
| CPEND | End Const. Pmt. Call |
| CPEND | End Const. Pmt. Left |
| CPEND | End Const. Pmt. Right |
| CRDDF5 | Coord Data Field 5 |
| CRDGPK | Note: Right of Way Coordinate Ascii Files |
| DEEDPL | Border |
| EAC | Exist Access Controll |
| EASBEG | Begin New Easement Call |
| EASEBL | Begin Easement Left |
| EASEBR | Begin Easement Right |
| EASEEL | End Easement Left |
| EASEND | End New Easement Call |
| EDNRCL | End Dnrc Call Left |
| EDNRCL | End Dnrc Call Right |

| | |
|-------------|---|
| ENDACQ | End Acquisition |
| EQIV | Equivalent Symbol |
| EXHDAT | Deed Exhibit Date Df |
| EXHDF | Exhibit Data Fields |
| EXRW | Note: Existing Right of Way Retrace |
| FAC | Full Access Control |
| FILNAM | Name Date Xy 50k 50k |
| FSSIGN | Usfs Engineer Sign |
| HATCH | Pattern: Government Lands |
| INDEX | Extra Ownership Index |
| LAC | Limited Access Control |
| LOTCAL | U.S. Government Lot Call |
| MCF | Meander Corner – Found |
| MCNF | Meander Corner – Unfound |
| MDEED | Metric Deed Plan |
| METPL | Metric Right of Way Plan |
| MTOWN | Metric Ownership Df |
| MTOWN5 | 5 Line Ownership |
| MTPL | Metric Plan Df |
| MTPLDF | Metric Plan Df |
| MTTIDF | Title Sheet Data Field |
| NAR | Right of Way North Arrow |
| NAR180 | Right of Way North Arrow (Turned 180°) |
| NFSL | National Forest Systems Land |
| ODOTS | Round Ownership Dots |
| OLDES | Existing Right of Way Calls And Leaders |
| OMTSHT | Note: Omit Sheets |
| OWNBLK | |
| OWNER | Square Ownership Dots |
| OwnFrameMet | Table: Metric Ownership Frame |
| PCF | Property Corner – Found |
| PLMIN | Plus Or Minus Symbol |
| PLUSLT | New Right of Way Plus 00 Left |
| PLUSRT | New Right of Way Plus 00 Right |
| PLVERT | Old Property Line Symbol |
| PRCL1 | Parcel No...1 Edf |
| PRCL2 | Parcel No...2 Edf |
| PRCL3 | Parcel No...3 Edf |
| PRCL4 | Parcel No 4...Edf |
| PRCL5 | Parcel No 5...Edf |
| PRCL6 | Parcel No. 6 Edf |
| PRCL7 | Parcel 7 Edf |
| PRCL8 | Parcel 8 Edf |
| PRCL9 | Parcel 9 Edf |
| PRCLNM | Parcel, Sheet, and Number |
| PROJNO | New Project No Data Field |
| QCCF | Closing Quarter – Found |
| QCCNF | Closing Quarter – Unfound |
| QCF | Quarter Corner – Found |
| QCF90 | Quarter Corner – Found (Turned 90) |
| QCNF | Quarter Corner – Unfound |
| QCNF90 | Quarter Corner – Unfound (Turned 90°) |
| QTRCAL | Sixteenth Section Call |
| QTRTIE | Quarter Section Tie |
| RECEAS | Note: “Record Ex. Eese.” |
| RECORD | Note: “These Plans May Have Been Revised” |
| REVDAT | Plan Revision Date Df |
| RRTIE | Rr Hwy Sta Tie |

| | |
|--------|--|
| RWLCAL | New Right of Way Sta Break Left |
| RWLOPN | Blank Right of Way Call Left |
| RWMON | Right of Way Monument Found |
| RWRCAL | New Right of Way Sta Break Right |
| RWROPN | Blank Right of Way Call Right |
| RWTLDF | Right of Way Title Data Fields |
| SCF | Section Corner – Found |
| SCNF | Section Corner – Unfound |
| SEAL | Seal: Professional Engineer – James A. Walther |
| SPCNOT | Note: “Grid State Plane Coordinates” |
| SPNOTE | Note: “Measurements are Metric” and “Spiral Curve” |
| STBLK | State Land Block |
| TIE | Ownership Tie |
| TIE90 | Ownership Tie Turned 90° |
| TLDATE | Title Date Data Fields |
| TRACT | Tract Of Land Desc |
| TRCAL | Township And Range Call |
| UTLCLP | Row Clip in Utl File |
| UTLINV | ‘U’ – Utility Involvement |
| VALUES | Notes: Dnrc Met To Eng |
| XHATCH | Pattern: Indian Lands |

4.6.2 rw.cel

| Name | Description |
|-------------|---------------------------|
| ACAMEND | Amended Access Res Note |
| ACNOTE | Access Res Note |
| ACQBEG | Begin Acquisition |
| ACQEND | End Acquisition |
| APPBLK | Approach Block |
| ARW | Line Terminator |
| CCF | Closing Corner Found |
| CCNF | Unfound Closing Corner |
| CL | Center Line Symbol |
| CNTRF | Center Of Section Found |
| CNTRNF | Unfound Center Of Section |
| CORTIE | Section Corner Tie |
| CPBEG | Beg Const Pmt Call |
| CPBEGL | Beg Const Pmt Lt |
| CPBEGR | Beg Const Pmt Right |
| CPEND | End Const Pmt Call |
| CPENDL | End Const Pmt Lt |
| CPENDR | End Const Pmt Right |
| CRDGPK | Ascii Note |
| DNRCBL | Beg Dnrc Call Lt |
| DNRCBR | Beg Dnrc Call Right |
| DNRCCL | End Dnrc Call Lt |
| DNRCER | End Dnrc Call Right |
| EAC | Existing Access Control |
| EASEBEG | Beg New Ease Call |
| EASEBL | Beg Ease Lt |
| EASEBR | Beg Ease Right |
| EASEEL | End Ease Lt |
| EASEER | End Ease Right |
| EASEND | End New Ease Call |
| EXHDF | Exhibit Sheet Data Fields |
| FAC | Full Access Control |

| | |
|-----------|-----------------------------|
| HATCH1 | Exhibit Legend Hatching 1 |
| HATCH2 | Exhibit Legend Hatching 2 |
| HATCH3 | Exhibit Legend Hatching 3 |
| LAC | Limited Access Control |
| LOTICAL | Us Govt Lot Call |
| MCF | Meander Corner Found |
| MCNF | Unfound Meander Corner |
| NAR | Rw North Arrow |
| NAR180 | Rw North Arrow 180 |
| NFSL | Natl Forest System Land |
| OLDES | Ex Rw Call And Leaders |
| OMTSHT | Omit Sheets Note |
| OWNCHART | Ownership Chart Data Fields |
| OWNDF | Ownership Sheet Data Fields |
| OWNFRAME | Ownership Frame |
| PCF | Property Corner Found |
| PL | Old Prop Line Symbol |
| PLNDF | Plan Sheet Data Fields |
| PLUSLT | Plus 00 Lt |
| PLUSRT | Plus 00 Right |
| PRCL1 | Parcel 1 |
| PRCL2 | Parcel 2 |
| PRCL3 | Parcel 3 |
| PRCL4 | Parcel 4 |
| PRCL5 | Parcel 5 |
| PRCL6 | Parcel 6 |
| PRCL7 | Parcel 7 |
| PRCL8 | Parcel 8 |
| PRCL9 | Parcel 9 |
| QCCF | Closing Qtrcor Found |
| QCCNF | Unfound Closing Qtrcor |
| QCF | Quarter Corner Found |
| QCNF | Unfound Quarter Corner |
| QTRCAL | Sixteenth Section Call |
| RETRACE | Ex Rw Retrace Note |
| RRTIELT | Rr Hwy Sta Tie Lt |
| RRTIERT | Rr Hwy Sta Tie Right |
| RWLCAL | New Rw Sta Break Lt |
| RWLOPN | Blank Rw Call Lt |
| RWMON | Rw Monument Found |
| RWMONCALC | Rw Monument Calculated |
| RWRCAL | New Rw Sta Break Right |
| RWROPN | Blank Rw Call Right |
| SCF | Section Corner Found |
| SCNF | Unfound Section Corner |
| SEAL | James A Walther |
| SPCNOTE | State Plane Coord Note |
| STBLK | State Land Block |
| TIE | Ownership Tie |
| TRACT | Tract Of Land Desc |
| TRCAL | Township And Range Call |
| TTLDF | Title Sheet Data Fields |
| USFSSIGN | Usfs Engineer Sign |