Missouri Department of Transportation

Design MicroStation® CADD Standards

Updated September 9, 2011

Design MicroStation CADD Standards

All Setting Managers

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
← Note .10 Xtra-Small	7	Common-Notes	1	2.5 (.10)
← Note .12 Small	5	Common-Notes	2	3.05 (.12)
← Note .15 Medium	4	Common-Notes	4	3.8 (.15)
← Note .18 Large	1	Common-Notes	5	4.6 (.18)
← Note.21Xtra-Large	2	Common-Notes	7	5.3 (.21)
Text .10 Xtra-Small	7	Common-Notes	1	2.5 (.10)
Text .12 Small	5	Common-Notes	2	3.05 (.12)
Text .15 Medium	4	Common-Notes	4	3.8 (.15)
Text .18 Large	1	Common-Notes	5	4.6 (.18)
Text .21 Xtra-Large	2	Common-Notes	7	5.3 (.21)
Text General Note	4	Text-General Notes	4	3.05 (.12)

Title

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Text City Name	5	Common-Notes	5	4.6 (.18)
Text Population	5	Common-Notes	4	3.8 (.15)
Text Station Limits	0	Common-Dimensions	5	4.6 (.18)
Text Township/Range	10	Common-Notes	4	3.8 (.15)

Typical Sections

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
← Note Pavement History	4	Common-Notes	2	3.05 (.12)
← Note with Slope Arrow	5	Common-Notes	2	3.05 (.12)

Summary

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
See "All Settings Managers" Above				

Plan

Drainage (notes only)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note CMP,PVC,RCP,Culv't	31	Text-Drainage structure	4	3.05 (.12)
Note Conc Basin	31	Text-Drainage structure	1	2.03 (.08)
Note Ditch Block	68	Text-Ditch labels	2	3.05 (.12)
Note Ditch Lining & Size	52	Text-Ditch labels	2	3.05 (.12)
Note Ditch Type	52	Text-Ditch labels	2	3.05 (.12)
Note Rock Type	0	Text-Ditch labels	2	3.05 (.12)
Note Slope Line	53	Text-Slope line label	2	3.05 (.12)
Text CMP,PVC,RCP,Culv't	31	Text-Drainage structure	4	3.05 (.12)
Text Removals (R)	0	Common-Removals	2	3.05 (.12)

Plan

Exhibits (notes only)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
BLOCK Style Text Small	5	Common-Notes	2	3.05 (.12)
BLOCK Style Text Medium	4	Common-Notes	4	3.8 (.15)
BLOCK Style Text Large	1	Common-Notes	5	4.6 (.18)
BLOCK Text X-Large	2	Common-Notes	7	5.33 (.21)
Text Small	5	Common-Notes	2	3.05 (.12)
Text Medium	4	Common-Notes	4	3.8 (.15)
Text Large	1	Common-Notes	5	4.6 (.18)
Text X-Large	2	Common-Notes	7	5.33 (.21)

Plan

General Construction (Build)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Abandoned	0	Common-Removals	2	3.05 (.12)
Note Cons't Dept 2.5mm .10"	2	Text-Construction notes	1	2.5 (.10)
Note Cons't Dept 3.05mm (.12")	2	Text-Construction notes	2	3.05 (.12)
Note Cons't Dept 3.8mm (.15")	2	Text-Construction notes	4	3.8 (.15)
Note Cons't Dept 4.6mm (.18")	2	Text-Construction notes	5	4.6 (.18)
Note Cons't Dept 5.3mm (.21")	2	Text-Construction notes	7	5.3 (.21)
Note Grading (Grade To Drain)	52	Common-Build notes	2	3.05 (.12)
Note Linear Grading Type	0	Common-Build notes	2	3.05 (.12)
Note Misc Details	0	Common-Build notes	4	3.05 (.12)
Note No Direct Pay	0	Common Build notes	2	3.05 (.12)
Note Obliteration	0	Common-Removals	4	3.05 (.12)
Note Saw Cut - Pav't Repair	0	Common-Build notes	2	3.05 (.12)
Text (L.I.P.)(UIP)(DND)	5	Text-Construction notes	2	3.05 (.12)
Text Beg./ End Project	20	Common-Build notes	2	3.05 (.12)
Text Cons't Dept 2.5mm (.10")	2	Text-Construction notes	1	2.5 (.10)
Text Cons't Dept 3.05mm (.12")	2	Text-Construction notes	2	3.05 (.12)
Text Cons't Dept 3.8mm (.15")	2	Text-Construction notes	4	3.8 (.15)
Text Cons't Dept 4.6 mm (.18")	2	Text-Construction notes	5	4.6 (.18)
Text Cons't Dept 5.3mm (.21")	2	Text-Construction notes	7	5.3 (.21)
Text General Note	4	Text-General notes	4	3.05 (.12)
Text Removals (R)	0	Common-Removals	2	3.05 (.12)

Plan

R/W

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note City Limits	5	Common-Notes	4	3.05 (.12)
Note Esm't (Perm)	2	Text-Permenant easement	4	3.8 (.15)
Note Esm't (Temp)	6	Text-Temporary easement	4	3.05 (.12)
Note R/W (Exist)	6	Text-Existing rw label	4	3.8 (.15)

Plan

R/W (Cont.)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note R/W (New)	2	Text-New rw label	4	3.8 (.15)
←Note R/W - Borrow Area	8	Text-Property owner	4	3.8 (.15)
←Note R/W - Excess	2	Common-Notes	4	3.8 (.15)
Text BM or GRS Symbol Notation	10	Text-Bench mark	1	2.03 (.08)
Text Bearing & Dist. and P.O.B.	20	Text-Rw taking	4	3.05 (.12)
Text City Name	5	Common-Notes	5	3.8 (.15)
Text County/State Line	10	Common-Notes	5	3.8 (.15)
Text Esm't (Perm) Sta & Offset	2	Text-Permanant easement	4	3.05 (.12)
Text Landcall (Sec-Twn-Ran)	10	Common-Notes	5	3.8 (.15)
Text Landpin or Corner	5	Text-Bench mark	1	2.03 (.08)
Text R/W (Exist) Sta & Offset	6	Text-Existing rw label	4	3.8 (.15)
Text R/W (New) Sta & Offset	2	Text-New rw label	4	3.8 (.15)
Text Sec ¼, and ¼ ¼ (along)	16	Text-Sections	4	3.05 (.12)
Text Section Line (above elem)	10	Text-Sections	4	3.05 (.12)
Text Section, Township Range	1	Text-Sections	4	3.8 (.15)
Text Subdivision Name & Lot No.	5	Text-Property owner	4	3.05 (.12)
Text Survey & Grant/Lease Line	5	Text-Land tie details	4	3.05 (.12)
Text Township / Range Line	10	Common-Notes	4	3.05 (.12)
Text USGS BM Datum	10	Text-Bench mark	2	3.05 (.12)

Plan

Roadside

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Environmental	99	Text-Environmental	4	3.8 (.15)
←Note Landscaping	4	Text-Landscaping	4	3.05 (.12)
Text Benchmark GRS	10	Text-Bench mark	2	3.05 (.12)
Text bldg (B,H,S,G) Overhang	14	Text-Building labels	2	3.05 (.12)
Text Business Name	5	Text-Building labels	5	4.6 (.18)
Text Cemetery	1	Text-Public property	2	3.05 (.12)
Text Delineator/Milemarker/SIGN	0	Text-Signs	1	2.03 (.08)
Text Fence (Woven/Chain Link)	4	Text-Fence	1	2.03 (.08)
Text Private Property	5	Text-Private property	1	2.03 (.08)
Text Sdwk & Border	1	Text-Sidewalk	2	3.05 (.12)
Text Steps & Wheelchair Ramp	1	Text-Sidewalk	1	2.03 (.08)
Text Trail	8	Text-Public property	2	2.03 (.08)

Plan

Roadway

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Abutment	0	Text-Safety label	2	3.05 (.12)
Note Barrier	99	Text-Safety label	2	3.05 (.12)
Note Bridge	0	Text-Safety label	4	3.8 (.15)
Note Cons't Joint	0	Text-Edge of pavement	1	2.03 (.08)
Note Retaining Wall	99	Text-Safety label	2	3.05 (.12)
Note Rte Label - Main Line	20	Text-Main route label	5	3.8 (.15)
Note Sound Wall	99	Text-Safety label	2	3.05 (.12)
Text Alignment Number	20	Text-Alignment info	1	2.03 (.08)
Text Bearing (above)	20	Text-Alignment info	4	3.05 (.12)
Text C&G Sta & Offset	11	Text-Curb	2	3.05 (.12)
Text Curb - Existing	114	Text-Curb	2	3.05 (.12)
Text Curb or C&G	11	Text-Curb	2	3.05 (.12)
Text Curve Number	20	Text Curve info	1	2.03 (.08)
Text Edge of Pavement (EP)	0	Text-Edge of pavement	2	3.05 (.12)
Text Edge of Pvmt Sta & Offset	0	Text-Edge of pavement	2	3.05 (.12)
Text Entrance Edge of Apron	11	Text-Shoulder	2	3.05 (.12)
Text Entrance Radius Points	11	Text-Entrances	2	3.05 (.12)
Text Equation	20	Text-Alignment info	5	3.8 (.15)
Text Island Radius Points	11	Text-Curb	1	2.03 (.08)
Text Matchline	2	Text-Main route label	5	5.00 (.25)
Text Median Radius Point	20	Text-Safety label	2	3.05 (.12)
Text Median or Median Strip	99	Text-Safety label	2	3.05 (.12)
Text PC,PRC,PT,TS,ST	20	Text-Project pt pc	4	3.8 (.15)
Text Pedestrian Overpass	5	Text-Safety label	2	3.05 (.12)
Text Ramp Number	20	Text-Route label	4	3.8 (.15)
Text Retain Wall Sta & Offset	99	Text-Safety label	2	3.05 (.12)
Text Rte Intersection Tie	20	Text-Route label	5	3.8 (.15)
Text Rte Label -Perm. Connection	20	Text-Main route label	5	3.8 (.15)
Text Rte Label -Service/Crossrd	20	Text-Route label	5	3.8 (.15)
Text Rte Label -Side/Outer Roads	20	Text-Route label	5	3.8 (.15)
Text Shoulder	11	Text-Shoulder	2	3.05 (.12)
Text Shoulder Sta & Offset	11	Text-Shoulder	2	3.05 (.12)
Text Stationing	20	Text-Alignment info	7	5.3 (.21)
Text Stationing - Existing	20	Text-Alignment info	4	4.6 (.18)
Text Surface Type	0	Text-Edge of pavement	1	2.03 (.08)

Design MicroStation CADD Standards

Plan

Roadway (Temporary)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←——Note Rte Label-Temp Bypass	20	Common-Removals	4	3.05 (.12)
←—Note Rte Label-Temp Connection	20	Common-Removals	4	3.05 (.12)
←—Note Rte Label-Temp Crossover	20	Common-Removals	4	3.05 (.12)
Text Alignment Number	20	Common-Removals	1	2.03 (.08)
Text Bearing (above elem)	20	Common-Removals	2	3.05 (.12)
Text Curve Number (along elem)	20	Common-Removals	1	2.03 (.08)
Text Equation (above elem)	20	Common-Removals	4	3.05 (.12)
Text PC,PRC,PT,TS,ST	20	Common-Removals	4	3.05 (.12)
Text Rte Intersection Tie	20	Common-Removals	4	3.05 (.12)
Text Stationing	20	Common-Removals	4	3.05 (.12)
Text Striping Description	0	Common-Removals	2	2.03 (.08)

Plan

Sheet Labels - Old Border (bottom 3 are New Border additions)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Revision Date Text	0	Common-Sheet info	1	2.85 (.11)
Text Date, Time, Sheet Title	5	Common-Sheet info	2	3.05 (.12)
Text Dist No., Sheet No., Route	1	Common-Sheet info	6	5.3 (.21)
Text Job No. Contract & County	4	Common-Sheet info	6	3.05 (.15)
Text Rev Date, Path, FN	5	Common-Sheet info	2	3.05 (.12)
XXXXX SHEET SHEET XX OF XX	4	Text - General Notes (Standard Sheet Label)	0	N/A
Text Addendum Date	4	Common Sheet Info	3	1.8
Text - Addendum Description	4	Common Sheet Info	3	1.8

Plan

Striping

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←—Note Permanent Striping Station	0	Text-Perm striping	4	3.05 (.12)
←——Note Permanent Striping Type	0	Text-Perm striping	4	3.05 (.12)
←——Note Temp Striping Station	1	Text-Temp striping	2	3.05 (.12)

Plan
Utilities

Design MicroStation CADD Standards

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.	4	Cell-Disclaimer-Utilities	4	
Text Cable TV	70	Text-Utility-cable	1	2.03 (.08)
Text Fiber Optic Cable	70	Text-Utility-cable	1	2.03 (.08)
Text Gas	60	Text-Utility-gas	1	2.03 (.08)
Text Pole (Combo Util)	5	Text-Utility-poles	1	2.03 (.08)
Text Power	51	Text-Utility-power	1	2.03 (.08)
Text Railroad	1	Text-Utility-railroad	1	2.03 (.08)
Text Railroad Owner	1	Text-Utility-railroad	4	3.8 (.15)
Text San Sewer	18	Text-Utility-sanitary sewer	1	2.03 (.08)
Text Signal	0	Text-Signal	1	2.03 (.08)
Text Telephone	70	Text-Utility-telephone	1	2.03 (.08)
Text Utility Owner	0	Text-Utility-owner	4	3.8 (.15)
Text Water	13	Utitlty-Water	1	2.03 (.08)

Plan
Waterways

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Text 3.05mm (.12")	23	Text-Natural water	2	3.05 (.12)
Text 3.8mm (.15")	23	Text-Natural water	2	3.8 (.15)
Text 4.6mm (.18")	23	Text-Natural water	5	4.6 (.18)

Traffic Control

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Barricade	0	Text-Barricades	2	3.05 (.12)
Note Channelizer/Cones	0	Text-Channelizers	2	3.05 (.12)
Note Delineator	0	Text-Signs	2	3.05 (.12)
Note Flashing & Warning Light	20	Text-Electric signs	2	3.05 (.12)
Note Perm. Construction	0	Common-Build notes	2	3.05 (.12)
Note Raised Pvm't Marker	20	Text-Misc	2	3.05 (.12)
NoteSign/Object Marker/Flagger	0	Text-Signs	2	3.05 (.12)
Note Signal	0	Text-Signal	2	3.05 (.12)
Note Temp. Construction	0	Common-Removals	2	3.05 (.12)
Note Temp. Island	11	Common-Removals	2	3.05 (.12)
Note Temp. Striping White	0	Text-Temp striping	2	3.05 (.12)
Note Temp. Striping Yellow	20	Text-Temp striping	2	3.05 (.12)
Note Traffic Barrier	0	Text-Traffic barriers	2	3.05 (.12)
Note Work Area	0	Common-Build notes	2	3.05 (.12)
Text Sign Station	0	Text-Signs	2	3.05 (.12)

Erosion Control

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Rock Ditch Check	0	Text-Ditch labels	2	3.05 (.12)
Note Sediment Basin	1	Text-Ditch labels	2	3.05 (.12)
Note Silt Fence	7	Text-Fence	2	3.05 (.12)
Note Silt Fence Ditch Check	7	Text-Fence	2	3.05 (.12)
Note Slope Limits	7	Text-Slope line label	2	3.05 (.12)
Note Sodding	4	Text-Landscaping	2	3.05 (.12)
Note Straw Bale Ditch Chk	5	Text-Ditch labels	2	3.05 (.12)
Note Temporary Berm	52	Text-Ditch labels	2	3.05 (.12)
Note Temporary Pipe	31	Text-Drainage structure	2	3.05 (.12)

Lighting

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note (Conduit)	51	Text-Utilty power	4	3.05 (.12)
←Note (Junction Box)	5	Text-Utility power	4	3.05 (.12)
←Note (Lighting Pattern)	0	Text-Utility-power	4	3.05 (.12)
←Note (Power Supply/Source)	51	Text-Utility-power	4	3.05 (.12)
←Note (Power to Meter)	51	Text-Utility-power	4	3.05 (.12)
←Note (Striping Perm White)	0	Text-Perm striping	2	3.05 (.12)
←Note (Striping Perm Yellow)	20	Text-Perm striping	2	3.05 (.12)
←Note (Striping Temp White)	0	Text-Temp striping	2	3.05 (.12)
←Note (Striping Temp Yellow)	20	Text-Temp striping	2	3.05 (.12)
Text (Luminaire + and offset)	0	Text-Utility-power	4	3.05 (.12)
Text (Luminaire Post #)	0	Text-Utility-power	5	3.05 (.12)

Signal Sheet

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Conduit	51	Text-Signal	1	3.05 (.12)
←Note Controller	0	Text-Signal	1	3.05 (.12)
←Note Detector	0	Text-Signal	1	3.05 (.12)
←Note Mast Arm	0	Text-Signal	1	3.05 (.12)
←Note Perm. Striping White	0	Text-Perm striping	1	3.05 (.12)
←Note Perm. Striping Yellow	20	Text-Perm striping	1	3.05 (.12)
←Note Signal	0	Text-Signal	1	3.05 (.12)
←Note Span Wire	0	Text-Signal	1	3.05 (.12)
←Note Temp. Striping White	0	Text-Temp striping	1	3.05 (.12)
←Note Temp. Striping Yellow	20	Text-Temp striping	1	3.05 (.12)
Text Signal	0	Text-Signal	2	3.05 (.12)

Signing

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Pattern Area	0	Common-Patterns-hatch	2	3.05 (.12)
←Note Sign	0	Text-Signs	4	3.8 (.15)

Signing Section

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Entrance	11	Text-Entrances	2	3.05 (.12)
←Note Footing	0	Text-Signs	4	3.8 (.15)
←Note Post	8	Text-Signs	4	3.8 (.15)

Signing Section

Notes (Cont.)

←Note Roadway Grade % w/arrow	1	Text-Slope line label	1	2.5 (.10)
←Note Sign	0	Text-Signs	4	3.8 (.15)
Text Sign	0	Text-Signs	4	3.8 (.15)
Text Station	2	Text-Alignment info	7	5.3 (.21)

X-Section/Culverts

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Centerline of Road	20	XS-Proposed surface-pavement	2	3.05 (.12)
←Note Class III Exc	0	Common-Notes	2	3.05 (.12)
←Note Existing Ground Line	4	XS-Existing surface-ground	4	3.05 (.12)
←Note Flared End Section	31	Text-Dranaige structure	2	3.05 (.12)
←Note Pipe Callout	31	Text-Drainage structure	2	3.05 (.12)
←Note Profile Grade	1	XS-Text-profile report	2	3.05 (.12)
←Note Rock Type Ditch	0	Text-Ditch labels	2	3.05 (.12)
←Note Util CATV Exist	15	Text-Utility-cable	1	3.05 (.12)
←Note Util CATV New	70	Text-Utility-cable	4	3.05 (.12)
←Note Util Gas Exist	116	Text-Utility-gas	1	3.05 (.12)
←Note Util Gas New	60	Text-Utility-gas	4	3.05 (.12)
←Note Util Power Exist	115	Text-Utility-power	1	3.05 (.12)
←Note Util Power New	51	Text-Utility-power	4	3.05 (.12)
←Note Util Railroad	1	Text-Utility-railroad	4	3.05 (.12)
←Note Util San Sewer Exist	114	Text-Utility-sanitary sewer	1	3.05 (.12)
←Note Util San Sewer New	18	Text-Utility-sanitary sewer	4	3.05 (.12)
←Note Util Storm Sewer Exist	114	Text-Utility-storm sewer	1	3.05 (.12)
←Note Util Storm Sewer New	18	Text-Utility-storm sewer	4	3.05 (.12)
←Note Util Telephone Exist	15	Text-Utility-telephone	1	3.05 (.12)
←Note Util Telephone New	70	Text-Utility-telephone	4	3.05 (.12)
←Note Util Water Exist	12	Text-Utility-water	1	3.05 (.12)
←Note Util Water New	13	Text-Utility-water	4	3.05 (.12)
Text Cut and Fill	1	XS-Text-earthwork labels	4	3.8 (.15)
Text Ditch Flowline Elevation	52	Text-Ditch labels	1	2.5 (.10)
Text Ditch Information	52	Text-Ditch labels	1	3.05 (.12)
Text Elevation	5	XS-Text-elevation	5	3.05 (.12)
Text Entrance Grade %	11	Text-Entrances	1	2.5 (.10)
Text Entrance Information	11	Text-Entrances	1	3.05 (.12)
Text Pipe Callout	31	Text-Drainage structure	2	3.05 (.12)
Text Pipe Flowline Elevation	31	Text-Drainage structure	1	2.5 (.10)
Text Pipe Flowline Grade %	31	Text-Drainage structure	1	2.5 (.10)
Text Road Elevations	0	XS-Text-pavement elevations	2	3.8 (.15)
Text Road Elevations Existing	1	XS-Text-pavement elevation	2	3.05 (.12)
Text Stationing	2	XS-Text-pavement elevation	7	5.3 (.21)

Title

Notes

Component		Type:	Color:	Level:	Line Style:	Line Weight:
Note Controlled Access Full Hwy	FULLY CONTROLLED ACCESS HIGHWAY THIS SHALL BE A FULLY CONTROLLED ACCESS HIGHWAY BETWEEN STA. + AND STA. + . NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS" AS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS. BEGINNING AND ENDING OF CONTROLLED ACCESS CONTROLLED ACCESS NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES. TEMPORARY ACCESS THROUGH FUTURE NO RIGHT OF ACCESS	Cell		Text-New rw label		
Note Controlled Access Part Hwy	PARTIAL CONTROLLED ACCESS HIGHWAY THIS SHALL BE A PARTIAL CONTROLLED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE. BEGINNING AND ENDING OF CONTROLLED ACCESS NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.	Cell		Text-New rw label		
Note Controlled Access Hwy	CONTROLLED ACCESS HIGHWAY THIS SHALL BE A CONTROLLED ACCESS HIGHWAY, BETWEEN STA. + . EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY. THERE SHALL BE THE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN ON THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A PRIVATE UNDERPASS. WHEREVER AN ADJACENT OUTER ROADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE USUAL RIGHT OF DIRECT ACCESS BETWEEN THE ABUTTING PROPERTY AND SUCH OUTER ROADWAY OR SERVICE ROAD (EXCEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING NO RIGHT OF ACCESS) AND ALONG IT TO AND FROM THE NEAREST LANE OF THE THROUGHWAY OF A PUBLIC HIGHWAY. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS. BEGINNING AND ENDING OF CONTROLLED ACCESS CONTROLLED ACCESS NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.	Cell		Text-Existing rw label		

Title

Lines (Misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
City Limits (dots)	Linear	5	Title-Location sketch	Custom	2
City Limits (lines)	Linear	5	Title-Location sketch	Custom	2
County Line	Linear	20	Title-Location sketch	Custom	2
Drainage Ditch Line	Linear	52	Title-Location sketch	Custom	2
Land Grant Survey Line	Linear	7	Title-Location sketch	Custom	1
Section Line	Linear	10	Title-Location sketch	0	2
State Line	Linear	10	Title-Location sketch	Custom	4
Stream Banks	Linear	23	Title-Location sketch	0	1
Stream Intermittent	Linear	23	Title-Location sketch	Custom	1
Township Line	Linear	10	Title-Location sketch	Custom	1

Title

Lines (Road)

Bituminous Road	Linear	0	Title-Location sketch	Custom	2
City Streets	Linear	0	Title-Location sketch	0	1
Divided Pavement	Linear	0	Title-Location sketch	Custom	4
Frontage Road	Linear	0	Title-Location sketch	0	2
Graded & Drained Road	Linear	1	Title-Location sketch	Custom	1
Gravel or Stone Road	Linear	1	Title-Location sketch	Custom	1
Paved Road	Linear	0	Title-Location sketch	Custom	2

Title

Lines (Road) (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Private Road	Linear	1	Title-Location sketch	Custom	4
Railroad	Linear	0	Title-Location sketch	Custom	2
Soil Surfaced Road	Linear	8	Title-Location sketch	Custom	1
Unimproved Road	Linear	1	Title-Location sketch	Custom	1

Title

Symbols/Patterns

Bridge	Cell	99	Title-Location sketch	0	1
1 ½ 0 1 2 3 4 SCALE IN MILES Graphic Scale 1mm = 50m (1"=2 miles)	Cell	1	Common-Graphic scale	0	3
1/2 0 1 2 SCALE IN MILES Graphic Scale 1mm = 25m (1"=1 mile)	Cell	1	Common-Graphic scale	0	3
¼ 0 ½ 1 SCALE IN MILES Graphic Scale 1mm = 12.5m (1"=1/2 miles)	Cell	1	Common-Graphic scale	0	3
Limits Arrow	Cell	0	Common-Dimensions	0	2
North Arrow	Cell	2	Common-North arrow	0	4
SAFE & SOUND Safe & Sound Logo	Cell	0	Common-Misc Details	0	1
INTERSTATE Shield-Interstate	Cell	0	Roadway-Signs	0	2
BUSINESS LOOP Shield-Interstate Bus. Loop	Cell	0	Roadway-Signs	0	2
INTERSTATE MISSOURI Shield-Interstate MO	Cell	0	Roadway-Signs	0	2
XX Lettered Route	Cell	0	Roadway-Signs	0	2
Shield-MO Highway	Cell	0	Roadway-Signs	0	2
XX Shield-US Highway	Cell	0	Roadway-Signs	0	2

Typical Sections

Dimensions

Component	Type:	Color:	Level:	Line Style:	Line Weight:
41°58′47″ Dimension Angle	Dimension	0	Common-Dimensions	0	2
45′-7″ 13903mm; 9′-7″ 2926mm; 45′-7″ 00°00′00″; Ø 17′-5″ 5296mm; Ø 17′-5″ 5296mm; Ø 17′-5″ 5296mm; R 8′-8″ 2648mm Dimension Element	Dimension	0	Common-Dimensions	0	2
42′-8″ 13008mm Dimension Point to Point	Dimension	0	Common-Dimensions	0	2
R 8′-8″ 2648mm Dimension Radius	Dimension	0	Common-Dimensions	0	2
45′-7″ 0°0′0″ Label Line (Bearings etc)	Dimension	0	Common-Dimensions	0	2

Typical Sections

Lines

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Center Line of Roadway	Line	20	Typical_Section-New line	4	4
Misc. Detail Line Exist.	Line	4	Common-Misc details	2	2
Misc. Detail Line New	Line	1	Common-Misc details	0	2
Typical Line Exist.	Line	4	Typical_Section-Existing line	2	2
Typical Line New	Line	1	Typical_Section-New line	0	2

Typical Sections

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Channelizer (cone)	Cell	Var	Traffic Control-Channelizers	0	2
Channelizer (Drum-Like)	Cell	Var	Traffic Control-Channelizers	0	2
Channelizer (Trim-Like)	Cell	Var	Traffic Control-Channelizers	0	2
Guardrail Section	Cell	99	Roadway - Safety	0	2
Concrete Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Cross Hatch Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Earth Areafill	Area Pattern	8	Common-Patterns-hatch	0	1
Hatch Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Traffic Barrier	Cell	40	Traffic_Control-Traffic barriers	0	1

Summary

Lines

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Grid Lines - Inside	Cell	5	Grid_Line-Main	0	2
Grid Lines - Outside Border	Linear	1	Grid_Line-Main	0	2

Plan

Construction Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
DFPRP CHECK MARK	Cell	2	Common-Notes	0	0
FPR CHECK MARK	Cell	4	Common-Notes	0	0
RE CHECK MARK	Cell	5	Common-Notes	0	0

Plan
Construction Symbols

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
THESE PLANS ACCURATELY REFLECT THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL APPURTENANCE FEATURES INCLUDING MODIFICATIONS DESIGNATED OR AUTHORIZED BY THE ENGINEER OF RECORD. SIGNATURE DATE	Cell	2	Text-General notes	0	1
FINAL PLANS	Cell	13	Text-General notes	0	0

Plan
Dimensions

Component	Type:	Color:	Level:	Line Style:	Line Weight:
41°58′47″ Dimension Angle	Dimension	0	Common-Dimensions	0	2
45′-7″ 13903mm; 9′-7″ 2926mm; 45′-7″ 00°00′00″; Ø 17′-5″ 5296mm; Ø 17′-5″ 5296mm; Ø 17′-5″ 5296mm; R 8′-8″ 2648mm Dimension Element	Dimension	0	Common-Dimensions	0	2
42′-8″ 13008mm Dimension Point to Point	Dimension	0	Common-Dimensions	0	2
R 8′-8″ 2648mm Dimension Radius	Dimension	0	Common-Dimensions	0	2
45′-7″ 0°0′0″ Label Line (Bearings etc)	Dimension	0	Common-Dimensions	0	2

Plan
Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Flow Arrow	Cell	52	Roadway-Ditches	0	2

Plan

Exhibits

Modot Logo Wave	Cell		Common-Notes	0	VARIES
Modot State Wave	Cell		Common-Notes	0	VARIES

Plan

General Construction (Build)

BEGIN PROJECT STA END PROJECT STA Begin / End Project	Cell	20	Text-Project pt pc	0	4
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT. Beyond Project Limits	Cell	4	Text-General notes	0	4
DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS. Disclaimer - Plan Sheet	Cell	4	Text-General notes	0	4
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. Disclaimer - Utilities	Cell	4	Text-General notes	0	4
PRELIMINARY/FINAL STRIP MAP ROUTE COUNTY CLASSIFICATION JOB NO. DESIGN SPEED - DESIGN TRAFFIC - CONS'T YEAR ( ) ADT DESIGN YEAR ( ) ADT TRUCK ADT - % SUBMITTED 2 LENGTH OF PROJECT END OF PROJECT STA BEGINNING OF PROJECT STA APPARENT LENGTH EQUATIONS & EXCEPTIONS: NONE NET LENGTH Final Strip Map Note	Cell	4	Text-General Notes	0	VARIES

Plan

Location Survey

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
THIS PLAN REPORTS THE RESULTS OF A SURVEY OF HIGHWAY RIGHT-OF-WAY FOR THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION. THE RIGHT-OF-WAY CORRIDOR IS (DESCRIBE LOCATION). THE RIGHT-OF-WAY CORRIDOR ENCOMPASSED IN THIS SURVEY IS CLASSIFIED AS (TYPE OF) PROPERTY. THE SURVEY WAS COMPLETED IN (DATE) THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE MISSOURI MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS. SURVEY AND PLAT BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.	Cell	0	Location_Survey-Note	0	2
MISSOURI HIGHWAYS & TRANSPORTATION COMMISSION SURVEY OF HIGHWAY RIGHT-OF-WAY SHEET / SECTION / TOWNSHIP / RANGE / COUNTY / ROUTE LOCATION DRAWN BY / SCALE / DATE	Cell		Location_Survey-Title block		
	Cell	20	Location_Survey-Improvement table	0	3
RECOVERY & IMPROVEMENT TABLE	Cell	20	Location_Survey-Improvement table	0	3
LEGEND - LAND CORNER - SET 5/8" IRON PIN - FOUND MONUMENT - FOUND RIGHT OF WAY MONUMENT - ℄ OF ROADWAY - NEW RIGHT-OF-WAY - PUBLIC LAND LINE - PROPERTY LINE - EXISTING RIGHT-OF-WAY	Cell		Common-Legends		

Plan

General Construction (Build)

ADD SHEET Revision Symbol-Add Sheet	Cell	0	Text-General Notes	0	6
ADDED Revision Symbol-Added	Cell	0	Text-General Notes	0	6
DELETE SHEET Revision Symbol-Delete Sheet	Cell	0	Text-General Notes	0	6
DELETED Revision Symbol-Deleted	Cell	0	Text-General Notes	0	6
REVISED Revision Symbol-Revised	Cell	0	Text-General Notes	0	6

Plan

R/W

Component	Type:	Color:	Level:	Line Style:	Line Weight:
APPROVED R/W PLANS SUBJECT TO CHANGE DATE / / Approved R/W Plans Stamp	Cell	2	Text–General Notes	0	5
APPROVED PRELIMINARY PLANS SUBJECT TO CHANGE DATE / / Approved preliminary Plans Stamp	Cell	2	Text–General Notes	0	5
Esm't Perm. Plus Offset above Esm't Perm. Plus Offset below	Cell	2	Text–Permanent easement	0	4
Esm't Temp. Plus Offset above Esm't Temp. Plus Offset below	Cell	6	Text–Temporary easement	0	4
XX JOHN Q PROP OWNER XXX.XX NEW R/W XXX.XX PERM. ESM'T XXX.XX TEMP. ESM'T. XXX.XX REMAINING Prop. Owner Note & Circle	Cell	5	Text–Property owner & Text–Rw taking	0	4
Property Line Symbol	Cell	5	Roadway–Land lines	0	4
Property Tie	Cell	5	Roadway–Land lines	0	2
R/W Exist Plus Offset above R/W Exist Plus Offset below	Cell	6	Text–Existing rw label	0	4

Plan

R/W (Cont.)

R/W New Plus Offset above R/W New Plus Offset below	Cell	2	Text–New rw label	0	4

Plan

Roadway

Component	Type:	Color:	Level:	Line Style:	Line Weight:
P.I. Δ - D - T - L - R - SE - W - Curve Data (Curve)	Cell	20	Text–Curve info	0	2
P.I. Δ - D - T - L - R - SE - W - Curve Data (Curve) box	Cell		Text–Curve info	0	
P.I. Δ - D - T - L - R - SE - Os - Xc - Yc - Curve Data (Spiral)	Cell	20	Text–Curve info	0	2
P.I. Δ - D - T - L - R - SE - Os - Xc - Yc - Curve Data (Spiral) box	Cell		Text–Curve info	0	

Plan

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
TYPE I DRWY. T. STA. Driveway Type & Stationing	Cell	11	Text–Entrances	0	4
TYPE I DRWY. XT. XXX+XXX RT. (XXXm ACCESS BREAK) X.Xm TOP XXXmm X XX.Xm GR. B PIPE Driveway Type, Angle, Pipe Text	Cell	11	Text–Entrances	0	4
STA. XXX+XXX.XX XT. EXISTING XX.Xm ENTR. (XXXm ACCESS BREAK) Entrance Existing Plus Offset	Cell	11	Text–Entrances	0	4
ENTRANCE STA. ENTRANCE TYPE ENTRANCE STA. ENTRANCE TYPE Entrance Sta Descript. above Entrance Sta Descript. below	Cell	11	Text–Entrances	0	2
EXISTING AND CONSTRUCTED ENTRANCES MAY BE WIDENED TO A MAXIMUM WIDTH OF 18m BY PERMIT UNLESS OTHERWISE NOTED. Entrance Width Note	Cell	11	Text–Entrances	0	4
Entrance Width Box	Linear	11	Text–Entrances	0	4

Plan

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC STA. PC STA. Equation above Equation below	Cell	20	Text–Alignment info	0	5
Matchline	Linear	2	Text–Main route label	0	5
PC STA. PC STA. PC PS PT STA. above PC PS PT STA. below	Cell	20	Text–Project pt pc	0	4

Plan

Roadway (Temporary)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC STA. PC STA. Equation above Equation below	Cell	20	Text–Alignment info	0	5
PC STA. PC STA. PC PS PT STA. above PC PS PT STA. below	Cell	20	Text–Project pt pc	0	4

Plan

Striping

STRIPING LEGEND 4" INTERMITTENT WHITE 4" SOLID WHITE 4" INTERMITTENT YELLOW 4" SOLID YELLOW Pavement Marking Legend	Cell		Common–Legends		2

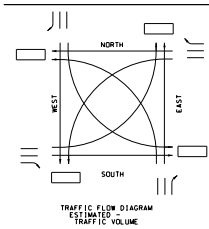
Plan

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
SCALE 0 10 20 30 Graphic Scale 1"=10'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 20 40 60 Graphic Scale 1"=20'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 30 60 90 Graphic Scale 1"=30'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 40 80 120 Graphic Scale 1"=40'	Cell	0	Common–Graphic scale	VARIES	3

Component	Type:	Color:	Level:	Line Style:	Line Weight:
SCALE 0 50 100 150 Graphic Scale 1"=50'	Cell	0	Common–Graphic scale	0	3
SCALE 0 60 120 180 Graphic Scale 1"=60'	Cell	0	Common–Graphic scale	0	3
SCALE 0 100 200 300 400 500 Graphic Scale 1"=100'	Cell	0	Common–Graphic scale	0	3
SCALE 0 100 200 300 400 500 Graphic Scale 1"=200'	Cell	0	Common–Graphic scale	0	3
North Arrow	Cell	2	Common–North Arrow	0	4
Pattern–Removals	Pattern Area	0	Pattern–Removals	0	1
Pattern–Rock Blanket	Pattern Area	0	Pattern–Rock Blanket	0	1
Pattern–Rock Ditch Liner	Pattern Area	0	Pattern–Rock Ditch Liner	0	1
Pattern–Rock Lining(Outlet)	Pattern Area	0	Pattern–Rock Lining(Outlet)	0	1
Concrete	Pattern Area	0	Common–Patterns–hatch	0	1
Cross Hatch	Pattern Area	0	Common–Patterns–hatch	0	1
Earth	Pattern Area	8	Common–Patterns–hatch	0	1
Grass	Pattern Area	4	Common–Patterns–hatch	0	1
Hatch	Pattern Area	0	Common–Patterns–hatch	0	1
Rock	Pattern Area	0	Common–Patterns–hatch	0	1
Swamp	Pattern Area	23	Common–Patterns–hatch	0	1

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Turn Diagram	Cell		Common–Legends		

Profile

Drainage

CMP – Circle	L	31	Roadway–Ditches	0	2
Ditch Special RT /LT	L	52	Roadway–Ditches	Dash 4	4
Flow Arrow	C	52	Roadway–Ditches	0	2
Manhole 12", 18", or 24" San Sewer	C	18	Utility–Sanitary sewer	0	1
RCP 12"–84" Circle	C	31	Roadway–Ditches	0	1

Profile

Lines (Profile and Grid Lines)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Entrance Lines	L	11	Roadway–Entrances	0	4
Existing Profile Lines	L	1	XS–Existing surface–ground	Dash 3	2
Flow Line Elevation Lines	L	52	Drainage–Structure	0	2
Main Grid Lines	L	4	Grid_Line–Main	0	4
New Profile Lines	L	0	XS–Proposed surface–ground	0	4
PC, PT Line	L	0	Roadway–Curve circle symbology	0	2
Secondary Grid Lines	L	7	Grid_Line–Secondary	0	1

Profile

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
10 Graphic Scale 10'	C	1	Common–Graphic scale	0	4
20 Graphic Scale 20'	C	1	Common–Graphic scale	0	4
5 Graphic Scale 5'	C	1	Common–Graphic scale	0	4
PC PT PVI Circle	C	0	Roadway–Curve pc pt	0	4
PC STA. PC STA. PC PT PVI Sta Elev Above PC PT PVI Sta Elev Below	C	20	Text–Project pt pc	0	4

Profile

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV CATV UG Exist	L	15	Utility–Cable	C	2
CATV CATV UG New	L	70	Utility–Cable	C	4
FO FO Cable Exist	L	15	Utility–Cable	C	2
FO FO Cable New	L	70	Utility–Cable	C	4
G Gas UGG Exist	L	116	Utility–Gas	C	2
G Gas UGG New	L	60	Utility–Gas	C	4
P Power UGP Exist	L	115	Utility–Power	C	2
P Power UGP New	L	51	Utility–Power	C	4
Railroad	L	1	Utility–Railroad	C	2
Railroad Dash	L	1	Utility–Railroad	C	4
S San. Sewer UG Exist	L	18	Utility–Sanitary sewer	C	2
S San. Sewer UG New	L	18	Utility–Sanitary sewer	C	4
SS Storm Sewer UG Exist	L	18	Utility–Storm sewer	C	2
SS Storm Sewer UG New	L	18	Utility–Storm sewer	C	4
T Telephone UGT Exist	L	15	Utility–Telephone	C	2
T Telephone UGT New	L	70	Utility–Telephone	C	4
W Water UGW Exist	L	12	Utility–Water	C	2
W Water UGW New	L	13	Utility–Water	C	4

User

CMP/RCP

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CMP/RCP New 12" - 84"	Multi-line	31	Drainage–Structures	Custom	1
CMP/RCP Exist 12" - 84"	Multi-line	31	Drainage–Structures	Custom	1

User

Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
BRCHNL	Linear	95	Drainage–Structures	0	3
CONBASIN	Linear	95	Drainage–Structures	Dash 3	1
Culvert	Linear	95	Drainage–Structures	0	2
Dam inside	Linear	52	Drainage–Structures	Custom	4
Dam outside	Linear	52	Drainage–Structures	Custom	4
Ditch – FB Line For Tapering	Linear	52	Roadway–Ditches	Dash 5	2
Ditch – Flat Bottom 1.22m – 3.05m (4'–10')	Linear	52	Roadway–Ditches	Custom	2
Ditch – Inter Line For Tapering	Linear	52	Roadway–Ditches	0	2
Ditch – Interception 1.22m – 3.05m (4'–10')	Linear	52	Roadway–Ditches	Custom	2
Ditch – Special V	Linear	52	Roadway–Ditches	Custom	2
Ditch – Standard V	Linear	52	Roadway–Ditches	Custom	2
Ditch Block	Cell	52	Roadway–Ditches	0	1
Ditch Flow Line	Linear	52	Roadway–Ditches	Custom	2
Ditch Solid Line For Tapers	Linear	52	Roadway–Ditches	0	2
DM 0 Drain Marker	Cell	5	Drainage–Structures	0	1
Drainage – Perm. Esmt.	Linear	2	Roadway–Permanent easement	Dash 6	4
Existing Culvert	Linear	95	Drainage–Structures	Dash 1	1
Flow Arrows	Cell	52	Roadway–Ditches	0	2

User

Drainage (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Ford	Linear	31	Roadway–Ditches	Dash 5	2
Levee – Interception 4'–10'	Linear	52	Roadway–Levee	Custom	2
Levee inside	Linear	52	Roadway–Levee	Custom	2
Levee outside	Linear	52	Roadway–Levee	Custom	1
Levee w/Interception 4'–10'	Linear	52	Roadway–Levee	Custom	2
PVC	Linear	95	Drainage–Structures	Dash 1	1
Paved Ditch	Linear	1	Roadway–Ditches	0	2
Ridge	Linear	52	Roadway–Land lines	Dash 6	1
Slope Line	Linear	53	Roadway–Slope lines	Dash 1	2
Slope Line – Cut	Linear	53	Roadway–Slope lines	Custom	2
Slope Line – Fill	Linear	53	Raodway–Slope lines	Custom	2
Temporary Berm	Linear	52	Raodway–Berm line	Custom	2
Terrace	Linear	52	Roadway–Berm line	Dash 6	2
Trench	Linear	52	Roadway–Berm line	Dash 5	2

User

Drop Inlets

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Drop Inlets (3'x2') (3'x3') (4'x2') (5'x2') (5'x3')	Cell	31	Drainage–Structures	0	1
DI – Drop Inlet	Cell	31	Drainage–Structures	0	1
DI –Type D DI	Cell	31	Drainage–Structures	0	1
DI –Type T DI	Cell	31	Drainage–Structures	0	1
DI – Type X X2 (L & R)	Cell	31	Drainage–Structures	0	1
DI – Type X X5 (L & R)	Cell	31	Drainage–Structures	0	1
DI – Type X X7 (L & R)	Cell	31	Drainage–Sructures	0	1
Grate	Linear	0	Drainage–Structures	0	2
MH	Cell	31	Drainage–Structures	0	1
MH – 1.22m (4') MH	Cell	31	Drainage–Structures	0	1
MH – SSMH Storm Sewer MH	Cell	18	Utility–Storm sewer	0	1

User

Environmental

Archaeological	Linear	99	Environmental–Geometry	0	1
Brick	Cell	56	Archeology–Brick	0	1
Burned Earth	Cell	2	Archeology–Burned earth–fireplace	0	1
Ceramic Items (other)	Cell	7	Archeology–Ceramic–other	0	1
Ceramic Stoneware	Cell	13	Archeology–Ceramic–stoneware	0	1
Ceramic Whiteware	Cell	11	Archeology–Ceramic–whiteware	0	1

Design MicroStation CADD Standards

User

Environmental

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Conifer	Cell	4	Environmental-New trees	0	1
Core	Cell	5	Archeology-Core	0	1
Debitage	Cell	5	Archeology-Debitage-flake chip	0	1
Fauna	Cell	52	Archeology-Fauna-animal remains	0	1
Fire Cracked Rock	Cell	2	Archeology-Fire cracked rock	0	1
Floral	Cell	4	Archeology-Floral	0	1
Foundation	Cell	56	Archeology-Foundation	0	1
Glass Flat	Cell	103	Archeology-Flat glass	0	1
Glass Items (other)	Cell	103	Archeology-Other glass	0	1
H1 Historic General 1	Cell	4	Archeology-Historical general 1	0	1
H2 Historic General 2	Cell	2	Archeology-Historic general 2	0	1
H3 Historic General 3	Cell	3	Archeology-Historic general 3	0	1
Historical Structure	Linear	99	Environmental-Geometry	Dash 1	1
Human Bones	Cell	20	Archeology-Human remains	0	1
Large Tree	Cell	4	Environmental-New trees	0	1
M Metal Items	Cell	10	Archeology-Metal	0	1
Nail	Cell	16	Archeology-Nail	0	1
Point (arrow head)	Cell	6	Archeology-Point-arrowhead	0	1
Pottery	Cell	8	Archeology-Pottery	0	1
P1 Prehistoric General	Cell	4	Archeology-Prehistoric general 1	0	1
P2 Prehistoric General	Cell	2	Archeology-Prehistorc general 2	0	1
P3 Prehistoric General	Cell	3	Archeology-Prehistoric general 3	0	1

User

Environmental (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Retouched Utilized	Cell	3	Archeology-Retouched-utilized	0	1
Shovel Auger Posthole	Cell	0	Archeology-Shovel-auger-posthole test	0	1
Small Tree	Cell	4	Environmental-New trees	0	1
Timber Line	Linear	4	Environmental-New trees	Custom	2
Tool (chipped)	Cell	6	Archeology-Tool-chipped	0	1
Tool (ground stone)	Cell	6	Archeology-Tool-ground stone	0	1
Uniface	Cell	2	Archeology-Uniface	0	1
Unmodified Rock	Cell	6	Archeology-Unmodified rock	0	1
Wetland Boundary	Linear	17	Drainage-Area	Dash 5	5

User

Flared End Sections (CONC)

FES 12"-84"	Cell	31	Drainage-Structures	0	1
Headwall	Linear	31	Drainage-Structures	0	1

User

Flared End Sections (METAL)

FES 12"-84"	Linear	31	Drainage-Structures	0	1
Pipe Collar 12"-72"	Cell	31	Drainage-Structures	0	1

User

Property

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Building	Linear	14	Property-Buildings	Dash 2	2
Bus Stop	Cell	0	Roadway-Signs	0	1
Cave	Cell	8	Property-Public	Dash 2	1
Cellar	Linear	14	Property-Private	Dash 1	1
Conc. Misc.	Linear	48	Property-Private	0	4
Fence Chain Link	Linear	4	Property-Fences	Custom	1
Fence Woven Wire	Linear	4	Property-Fences	Custom	1
Flag Pole	Cell	1	Property-Fences	0	1
Foundation	Linear	48	Property-Buildings	Dash 2	2
Gate Post	Cell	4	Property-Fences	0	1
Grave	Cell	144	Property-Buildings	0	1
House	Linear	14	Property-Buildings	Dash 2	2
Liquid Propane Tank	Linear	28	Property-Private	0	1

User

Property (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Mailbox	Cell	59	Survey-Miscellaneous roadside	0	1
Mine	Cell	5	Property-Private	0	1
Overhang	Linear	14	Property-Buildings	Dash 2	2
Pool (Swimming)	Linear	23	Property-Private	0	2
Satellite	Cell	15	Property-Private	0	1
Stock Pile	Linear	112	Property-Private	1	1
Tank	Linear	0	Property-Private	Dash 1	1
Tower	Cell	15	Utility-Pole	0	1
Trail	Linear	8	Property-Public	Dash 3	4
Wood Post	Cell	4	Lighting_Signals-Equipment	0	1

User

R/W

1/4 Line	Linear	16	Roadway-Land lines	Dash 6	4
1/4 1/4 Line	Linear	16	Roadway-Land lines	Dash 6	4
Borrow Area	Linear	8	Roadway-Rural land use	0	4
City Limits Line	Linear	5	Roadway-Land lines	Custom	4
City Lot & Subdivision Line	Linear	5	Roadway-Land lines	Dash 4	4
County Line	Linear	10	Roadway-Land lines	Custom	5
Easement Existing	Linear	6	Roadway-Existing easement	Dash 4	2
Easement Perm Limit Access	Linear	2	Roadway-Permanent easement	Custom	6
Easement Perm.	Linear	2	Roadway-Permanent easement	Dash 6	4
Easement Temp.	Linear	6	Roadway-Temporary easement	Dash 4	2

User

R/W (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Exist. Controlled Access Symbol	Cell	6	Roadway-Existing rw	0	1
Exist. R/W Controlled Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Line	Linear	6	Roadway-Existing rw	Dash 4	4
Exist. R/W Location Survey Mark	Cell	6	Roadway-Exisitng rw	Dash 1	4
Exist. R/W Marker (Conc. or Copper)	Cell	6	Roadway-Exisitng rw	Dash 1	4
Exist. R/W Marker (Steel)	Cell	6	Roadway-Existing rw	Dash 1	4
Exist. R/W No Right Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Prop. Limit Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Temp. Access Line	Linear	6	Roadway-Existing rw	Custom	4
Exist. Temporary Access Symbol	Cell	6	Roadway-Existing rw	0	2
Exist. Terminal Point Symbol	Cell	22	Roadway-Existing rw	0	2
Grant/Lease Line	Linear	5	Roadway-Land lines	Dash 4	4
Landcorner	Cell	5	Roadway-Land lines	0	4
Latitude/Longitude Line	Linear	9	Roadway-Land lines	0	1
New Controlled Access Symbol	Cell	51	Roadway-New rw	0	9
New R/W Controlled Access Line	Linear	2	Roadway-New rw	Custom	6
New R/W Line	Linear	2	Roadway-New rw	0	6
New R/W Location Survey Marker	Cell	2	Roadway-New rw	0	4
New R/W No Right Access	Linear	2	Roadway-New rw	Custom	6

User

R/W (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
New R/W Temp. Access Line	Linear	2	Roadway-New rw	Custom	6
New Temp. Access Symbol	Cell	51	Roadway-New rw	0	9
New Terminal Point Symbol	Cell	2	Roadway-New rw	0	2
Property Line	Linear	5	Roadway-Land lines	Dash 5	2
P PIN Property Pin	Cell	5	Text-Property private	0	4
Property Tie	Cell	5	Roadway-Land lines	0	2
Section Line	Linear	10	Roadway-Land lines	Dash 6	5
State Line	Linear	10	Roadway-Land lines	Custom	5
Township/Range Line	Linear	10	Roadway-Land lines	Custom	5
US Survey Line	Linear	16	Roadway-Land lines	Dash 6	2

User

Roadside

Component	Type:	Color:	Level:	Line Style:	Line Weight:
BM Benchmark	Cell	10	Roadway - New R/W	0	1
GRS Monument	Cell	10	Roadway - New R/W	0	1
GS Gage Station	Cell	10	Survey - Miscellaneous Roadside	0	1
Landscaping	Linear	4	Environmental-Landscaping	0	3
Side Walk	Linear	1	Roadway-Sidewalks	Custom	2
Steps	Linear	1	Roadway-Sidewalks	0	2
Traverse	Linear	5	Roadway-Sidewalks	Dash 2	2
Wheelchair Ramp	Linear	1	Roadway-Sidewalks	0	2

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Baseline Ramp Alignment	Linear	20	Roadway-Centerline other	0	6
Breakline	Linear	5	Roadway-Safety	0	6
Bridge	Linear	7	Roadway-Safety	0	6
Bridge Exist.	Linear	109	Roadway-Safety	Dash 3	1
CL Main Line Alignment	Linear	20	Roadway-Centerline main	0	6
CL Main Line Alignment - Exist	Linear	5	Roadway-Centerline other	Dash 6	1
CL Side Road Alignment	Linear	20	Roadway-Centerline other	0	6
Construction Joint	Linear	0	Roadway-Saw cut line	Dash 2	2
Curb	Linear	11	Roadway-Curbs and or gutters	0	4
Curb Exist.	Linear	114	Roadway-Curbs and or gutters	Dash 3	2
Edge of Pavement	Linear	0	Roadway-Edge of pavement	0	2
Edge of Pavement Exist.	Linear	112	Roadway-Edge of pavement	Dash 3	2
Edge of Pavement Temporary	Linear	0	Roadway-Edge of pavement	0	2
Entrance	Linear	11	Roadway-Entrances	0	2
Entrance Edge of Apron	Linear	11	Roadway-Entrances	Dash 2	2
Entrance Exist.	Linear	114	Roadway-Entrances	Dash 3	2
Entrance Temporary	Linear	11	Roadway-Entrances	0	2
Island	Linear	11	Roadway-Entrances	0	2
Island Exist.	Linear	114	Roadway-Entrances	Dash 3	2
Oil Surface	Linear	1	Survey-Oil surface	0	2
Outer Road Alignment	Linear	20	Roadway-Centerline other	0	6
Shoulder	Linear	11	Roadway-Edge of shoulder	0	2
Shoulder Exist.	Linear	114	Roadway-Edge of shoulder	Dash 3	2

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Shoulder Temporary	Linear	11	Roadway-Edge of shoulder	0	2
Temporary Bypass Alignment	Linear	20	Roadway-Centerline other	0	6
Temporary Crossover Alignment	Linear	20	Roadway-Centerline other	0	6

User

Safety

Abutment	Linear	51	Roadway-Safety	Dash 3	1
Barrier	Linear	51	Roadway-Safety	Dash 3	1
Guard Cable-Existing	Linear	51	Roadway-Safety	Custom	2
Guard Cable-New	Linear	19	Roadway-Safety	Custom	4
Guardrail	Cell	1	Roadway-Safety	0	1
Guardrail B Nose for Piers	Cell	19	Roadway-Safety	0	2
Guardrail B Nose Med 15' to over 33'	Cell	19	Roadway-Safety	0	2
Guard Rail ET2000	Cell	2	Roadway-Safety	0	4
Guard Rail ET2000 End	Cell	2	Roadway-Safety	0	4
Guard Rail Line Exist.	Linear	51	Roadway-Safety	Custom	2
Guard Rail Line New	Linear	19	Roadway-Safety	Custom	4
Median	Linear	51	Roadway-Safety	0	2
Median Strip	Linear	51	Roadway-Safety	0	2
Pedestrain Overpass	Linear	51	Roadway-Safety	0	2
Retaining Wall	Linear	51	Roadway-Walls	0	2
Rumble Strip- 6" Edgeline	Linear	0	Roadway-Safety	Custom	2
Rumble Strip- 12" Edgeline	Linear	0	Roadway-Safety	Custom	2
Rumble Strip- 12" Centerline	Linear	0	Roadway-Safety	Custom	2
Sound Wall	Linear	51	Roadway-Walls	Dash 3	2

User
Safety Slope End Sections

Component	Type:	Color:	Level:	Line Style:	Line Weight:
15"-60"End Section-4:1	Cell	31	Drainage Structure	0	1
15"-60"End Section-6:1	Cell	31	Drainage Structure	0	1
15"-60"End Section-10:1	Cell	31	Drainage Structure	0	1

User
Signs/Signals

Component	Type:	Color:	Level:	Line Style:	Line Weight:
GW Guy Wire	Cell	0	Utility-Pole	Custom	1
? Object Marker	Cell	5	Location_Survey-Note	0	1
SIGN Sign	Cell	0	Roadway-Signs	0	1
SIGBOX (Signal Box)	Cell	0	Lighting-Conduit	0	1
SIGCNTRL (Signal Control)	Cell	0	Lighting_Signals-Equipment	0	1

User
Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
12S - 3.66m (12') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
14S - 4.27m (14') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
24S - 7.32 (24') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
12' Yield Line (24"wide)	Cell	0	Traffic_Control-Permanent striping	0	4
12' Yield Line (24"wide)	Cell	0	Traffic_Control-Permanent striping	0	4
P.I. Δ - D - T - L - R - SE - W - Curve Data	Cell	20	Text-Curve info	0	2
P.I. Δ - D - T - L - R - SE - Ds - Xc - Yc - Curve Data - Spiral	Cell	20	Text-Curve info	0	2
LA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
N North Arrow	Cell	2	Common-North arrow	0	4

Symbols/Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC PT PRC ST TS Circles	Cell	20	Roadway-Curves pc pt	0	4
PI Lines	Linear	20	Roadway-Curve pc pt	Dash 1	1
Pattern Removals	Area Pattern	0	Pattern Removals	0	1
Pattern Rock Blanket	Area Pattern	0	Pattern Rock Blanket	0	1
Pattern Rock Ditch Liner	Area Pattern	0	Pattern Rock Ditch Liner	0	1
Pattern Rock Lining (Outlet)	Area Pattern	0	Pattern Rock Lining (Culvert Outlet)	0	1
Pattern Area - ADA Truncated Domes	Area Pattern	7	Pattern Rock Lining (Culvert Outlet)	0	0
Pattern Area Concrete	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Cross Hatch	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Earth	Area Pattern	8	Common-Patterns-hatch	0	1
Pattern Area Grass	Area Pattern	4	Common-Patterns-hatch	0	1
Pattern Area Hatch	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Rock	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Swamp	Area Pattern	23	Common-Patterns-hatch	0	1
RA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SLA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SRA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SRL Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV C - Under Gnd CATV Exist.	Linear	15	Utility-Cable	Custom	2
CATV C - Under Gnd CATV New	Linear	70	Utility-Cable	Custom	4
FO FO - Fiber Optic Cable Existing	Linear	15	Utility-Cable	Custom	2
FO FO - Fiber Optic Cable New	Linear	70	Utility-Cable	Custom	4
GD G - GDRIP	Cell	60	Utility-Gas	0	1
G - GFILLER	Cell	60	Utility-Gas	0	1
G - GMARKER	Cell	60	Utility-Gas	0	1
GM G - GMETER	Cell	60	Utility-Gas	0	1
GV G - GVALVE	Cell	60	Utility-Gas	0	1
G - GVENT	Cell	60	Utility-Gas	0	1
G - Gas Island	Linear	60	Utility-Gas	0	2
G G - Under Gnd Gas Exist.	Linear	116	Utility-Gas	Custom	2
G G - Under Gnd Gas New	Linear	28	Utility-Gas	Custom	4
ITS ITS - Type 2 Pull Box	Cell	5	Lighting_Signals - Equipment	0	1
ITS ITS - Type 5 Pull Box	Cell	5	Lighting_Signals - Equipment	0	1
P - Anchor	Cell	5	Photo-Anchor	0	1
P RISER P - CTVRISER	Cell	5	Utility-Pole	0	1
PED P - PED	Cell	1	Utility-Telephone	0	1
GUY P - POLEGUY	Cell	5	Utility-Pole	0	1
P - POLEL (Light)	Cell	5	Utility-Pole	0	1
P METER P - POLEMT (Power w/ Meter)	Cell	5	Utility-Pole	0	1
PP P - POLEP (Power)	Cell	5	Utility-Pole	0	1
P&C P - POLEPC (Power/Cable)	Cell	5	Utility-Pole	0	1
P&L P - POLEPL (Power/Light)	Cell	5	Utility-Pole	0	1

Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
P RISER P - POLEPR (Power w/ Riser)	Cell	5	Utility-Pole	0	1
PTC P - POLEPTC (Power/Tele/Cable)	Cell	5	Utility-Telephone	0	1
PTC P - POLEPTCL (Pow/Tele/Cable/Light)	Cell	5	Utility-Telphone	0	1
P - POLET (Telephone)	Cell	5	Utility-Pole	0	1
TEC P - POLETC (Tele/Cable)	Cell	5	Utility-Telephone	0	1
P&T P - POLETP (Tele/Power)	Cell	5	Utility-Pole	0	1
P TRANS P - POLETR (Power w/Transformer)	Cell	5	Utility-Pole	0	1
P - POWERHV (High Voltage Tower)	Cell	5	Utility-Pole	0	1
P - POWERHW (H-Frame PP)	Cell	5	Utility-Pole	0	1
Power Over Head Exist.	Linear	115	Utility-Power	Custom	2
Power Over Head New	Linear	27	Utility-Power	Custom	4
P - Tower	Cell	15	Utility-Pole	0	1
P Under Gnd Power Exist.	Linear	115	Utility-Power	Custom	2
P Under Gnd Power New	Linear	27	Utility-Power	Custom	4
RR - Railroad Dash	Linear	1	Utility-Railroad	Custom	2
RR - Railroad Single	Linear	1	Utility-Railroad	Custom	2
RR - RAILTOP	Linear	1	Utility-Railroad	0	2
S - Drain Field	Linear	13	Utility-Sanitary sewer	Dash 2	2
SAN S - SAN MH	Cell	18	Utility-Sanitary sewer	0	1
S S - Sanitary Sewer Exist.	Linear	130	Utility-Sanitary sewer	Custom	2
S S - Sanitary Sewer New	Linear	18	Utility-Sanitary sewer	Custom	4

User

Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
S - Septic Tank	Linear	18	Utility-Sanitary sewer	0	2
SS - Storm Sewer Exist.	Linear	130	Utility-Storm sewer	Custom	2
SS - Storm Sewer New	Linear	18	Utility-Storm sewer	Custom	4
T - TELERISER	Cell	5	Utility-Telephone	0	1
T - TELEPAY (Pay Telephone)	Cell	15	Utility-Telephone	0	1
T - TMH (Tele. Manhole)	Cell	15	Utility-Telephone	0	1
T - Tele. Pedistal	Cell	1	Utility-Telephone	0	1
T - Telephone Over Head Exist.	Linear	15	Utility-Telephone	Custom	2
T - Telephone Over Head New	Linear	70	Utility-Telephone	Custom	4
T - Under Gnd Telephone Exist.	Linear	15	Utility-Telephone	Custom	2
T - Under Gnd Telephone New	Linear	70	Utility-Telephone	Custom	4
W - HYDRANT	Cell	31	Utility-Water	0	1
W - Sprinkler	Cell	13	Utility-Water	0	1
W - Under Gnd Water Exist.	Linear	12	Utility-Water	Custom	2
W - Under Gnd Water New	Linear	13	Utility-Water	Custom	4
W - WELL	Cell	3	Utility-Water	0	1
W - WFAUCET	Cell	13	Utility-Water	0	1
W - WMETER	Cell	13	Utility-Water	0	1
W - WVALVE	Cell	13	Utility-Water	0	1

User

Waterways

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CL of River	Linear	3	Environmental-Natural water	cl3	2
Lake	Linear	3	Environmental-Natural water	Phantom	4
Pond	Linear	3	Envrionmental-Natural water	Phantom	4
River	Linear	3	Environmental-Natural water	0	4
SPRING Spring	Cell	23	Environmental-Natural water	0	1
Stream	Linear	3	Envronmental-Natural water	pl2	4
Swamp	Cell	23	Common-Patterns hatch	0	1

Reference

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Centerline	L	20	Roadway-Centerline main	0	6
Grid Line	L	2	Grid_Line-Main	0	4
Tie Circle	L	1	Common-Misc details	0	4
Tie Line	L	4	Common-Misc details	0	4

Coordinate

Lines (Grid)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Grid Line Main	L	4	Grid_Line-Main	0	4
Grid Line Secondary	L	7	Grid_Line-Secondary	0	1

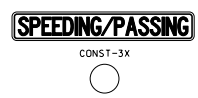
Traffic Control

Signs (D-2bs)

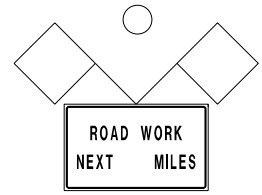
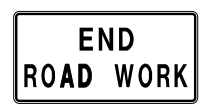
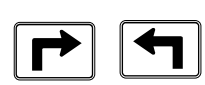
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Sign Character Marker (1, 2 or 3 digit)					

Traffic Control

Signs (D-2bs)

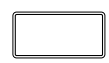
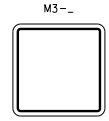
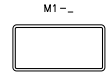
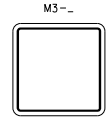
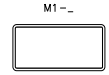
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Work Zone Fine	CONST-3A				
Speeding/Passing Plate	 CONST-3X				
Drive Smart	CONST-6-48				
Gore Exit	E05-1				
Gore Exit Open/Closed	E05-2 E05-2a				
	Type: cell	Color: 2	Levels: Roadway Signs	Line Style: 0	Line Weight: 1
Flashing Electric Light					

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Fresh Oil - Loose Gravel	SPECIAL				
Road Work Next __ Miles	 G020-1				
End Road Work	 G020-2a				
Pilot Car Follow Me	G020-4				
Work Zone Plaque	G023-1				
Give 'Em A Brake					
Grooved Pavement Ahead	SPECIAL				
Hit A Worker					
Advance Right/Left Turn Arrow	 M5-1R M5-1L				

Traffic Control

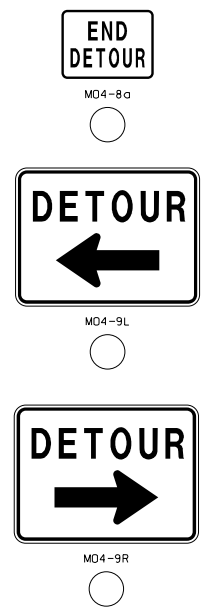
Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Turn Arrow			M6-1		
Straight Arrow			M6-3		
Alternate Assembly			M04-1  M3-_  M1-_  M_-_		
Detour (in Left Arrow)			M04-10L		
Detour (in Right Arrow)			M04-10R		
Detour Assembly			M04-8 M3-_  M1-_  M_-_		

Traffic Control

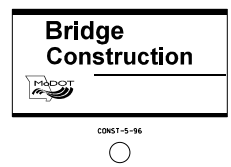
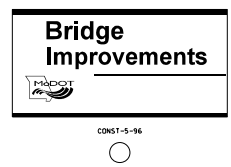
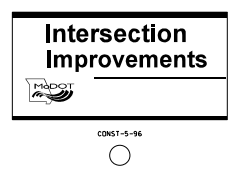
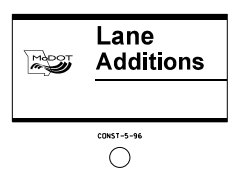
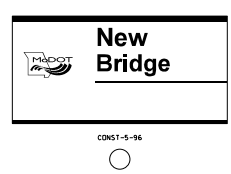
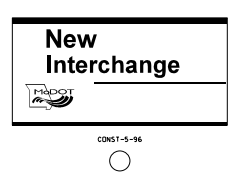
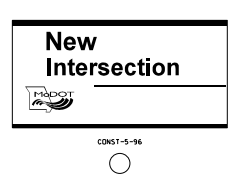
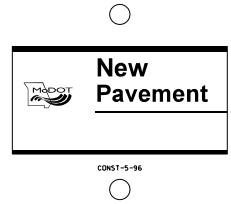
Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
End Detour					
Detour w/ Left Arrow					
Detour w/ Right Arrow					
Moveable Barricade (Left)	cell	2	Traffic_Control Barricades	0	1
Moveable Barricade (Right)	cell	2	Traffic_Control Barricades	0	1
Object Marker Type I	cell	6	Traffic_Control Barricades	0	2
Object Marker Type II	cell	6	Traffic_Control Barricades	0	2
Object Marker Type III	cell	6	Traffic_Control Barricades	0	2



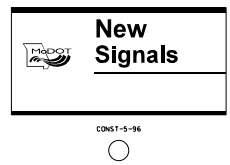
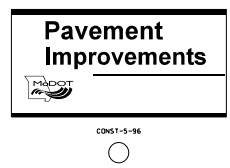
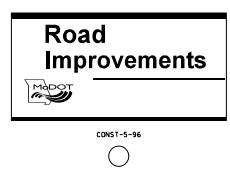
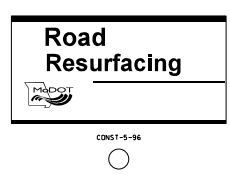
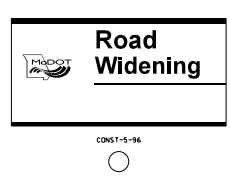
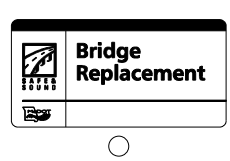
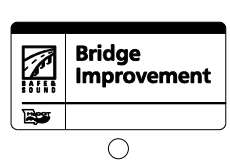
Traffic Control

Signs (D-2bs) (Cont.) and Economic Recovery Project Signs

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - Bridge Construction					
POP - Bridge Improvements					
POP - Intersection Improvements					
POP - Lane Additions					
POP - New Bridge					
POP - New Interchange					
POP - New Intersection					
POP - New Pavement					

Traffic Control

Signs (D-2bs) (Cont.) and Economic Recovery Project Signs

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - New Signals					
POP - Pavement Improvements					
POP - Road Improvements					
POP - Road Resurfacing					
POP - Road Widening					
POP S&S Bridge Replacement					
POP S&S Bridge Improvement					

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - Safety Improvements	CONST-5-96				
POP - Signal Improvements	CONST-5-96				
Please Wait For Pilot Car	SPECIAL				
Stop	R1-1b				
Yield	R1-2				
4-Way (Plaque)	R1-3				
3-Way (Plaque)	R1-3				
X-Way (Plaque)	R1-3				

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Stop Here On Red (Arrow)			R10-6		
Road Closed			R11-2		
Road Closed XX Miles Ahead			R11-3a		
Road Closed To Thru Traffic			R11-4		
To Oncoming Traffic			R12-3b		
Speed Limit XX			R2-1		
Reduced Speed Ahead			R2-5a		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
No Right Turn (Symbol)			R3-1		
No Left Turn (Symbol)			R3-2		
No Turns			R3-3		
No U-Turn (Symbol)			R3-4		
Left Lane Must Turn Left			R3-7L		
Right Lane Must Turn Rignt			R3-7R		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Do Not Pass			R4-1		
Keep Left			R4-17aL		
Keep Right			R4-17aR		
Pass With Care			R4-2		
Keep Right (Horiz. Arrow)			R4-7a		
Keep Left (Horiz. Arrow)			R4-7aL		

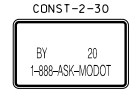
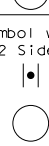
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Do Not Enter			R5-1		
Wrong Way			R5-1a		
One Way Arrow (Left)			R6-1L		
One Way Arrow (Right)			R6-1R		
One Way (Left)			R6-2L		
One Way (Right)			R6-2R		
When Flashing			S4-4		

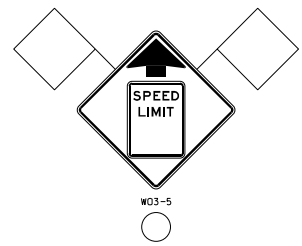
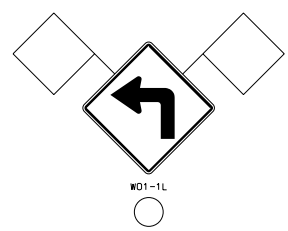
Traffic Control

Signs (D_2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Show Me Progress	CONST-2-30  CONST-2A-30				
Sign Symbol w/ Number (1 Sided)	cell	0	Roadway Signs	0	2
Sign Symbol w/ Number (2 Sided) 	cell	0	Roadway Signs	0	2
Special Low Clearance XX' XX"					
Special Width Restriction					
Railroad Crossing	W10-1				

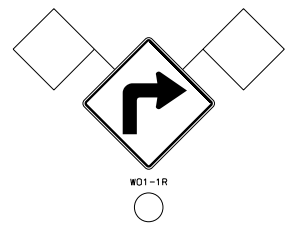
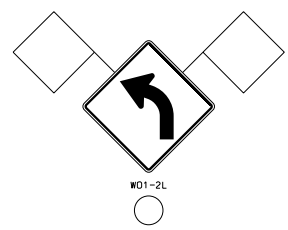
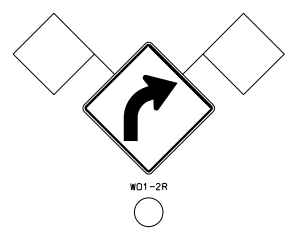
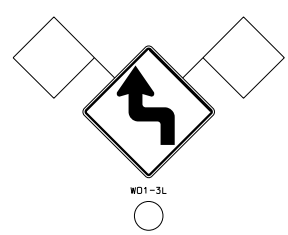
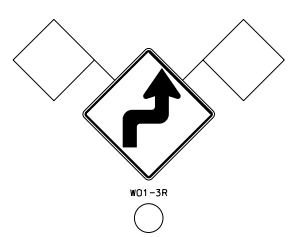
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Reduced Speed Limit Ahead					
Turn (Symbol Left Arrow)					

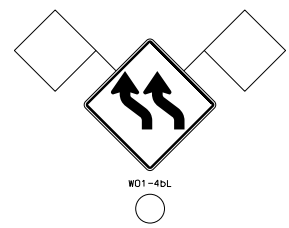
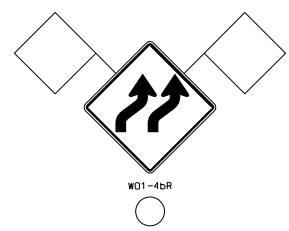
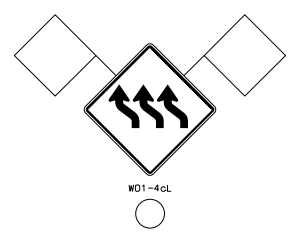
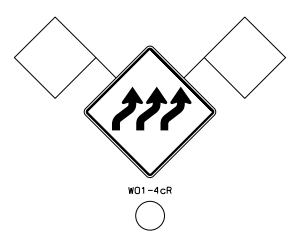
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Turn (Symbol Right Arrow)					
Curve (Symbol Left Arrow)					
Curve (Symbol Right Arrow)					
Reverse Turn (Symbol Left Arrow)					
Reverse Turn (Symbol Right Arrow)					

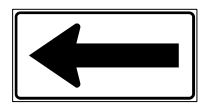
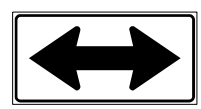
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Double Arrow Reverse Curve (Symbol Left Arrow)					
Double Arrow Reverse Curve (Symbol Right Arrow)					
Triple Arrow Reverse Curve (Symbol Left Arrow)					
Triple Arrow Reverse Curve (Symbol Right Arrow)					

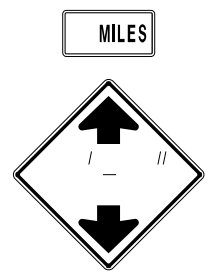
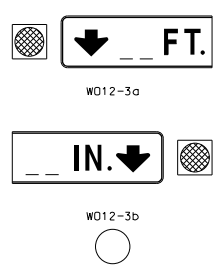
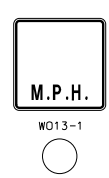
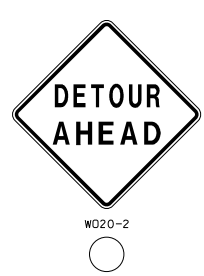
Traffic Control

Signs (D-2bs) (Cont.)

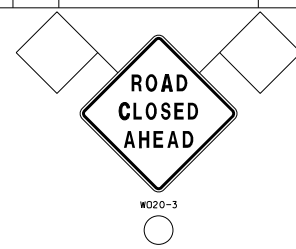
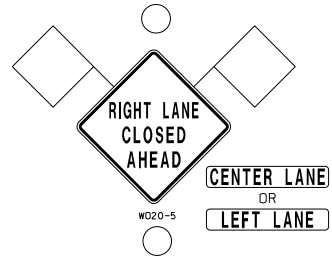
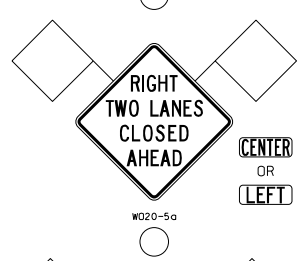
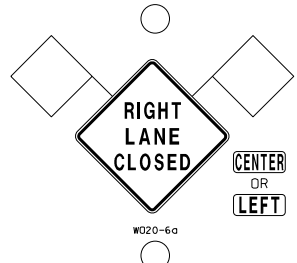
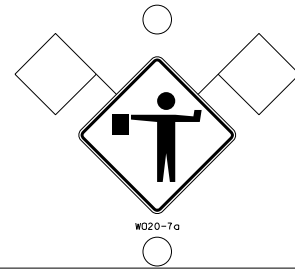
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Horizontal Arrow Sm. or Lg.			 WO1-6 (Sm.) OR WO1-6a (Lg.)		
Double Head Horizontal Arrow. Sm. or Lg.			 WO1-7 (Sm.) OR WO1-7a (Lg.)		
Chevron Sm. or Lg.			WO1-8 (Sm.) OR WO1-8a (Lg.)		
Double Down Arrow			WO12-1		

Traffic Control

Signs (D-2bs) (Cont.)

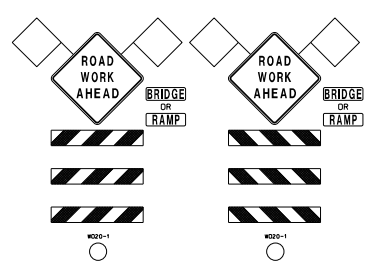
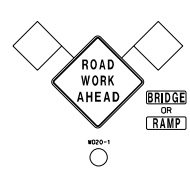
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Low Clearance					
Overhead Low Clearance					
Advisory Speed (Plaque)					
Detour Ahead					

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Road Closed Ahead					
Road Closed XXX Ft					
One Lane Road Ahead					
Rt/Ctr/Lt Lane Closed Ahead					
Rt/Ctr/Lt 2 Lanes Closed Ahead					
Rt/Ctr/Lt Lane Closed					
Flagger (Sign)					

Traffic Control

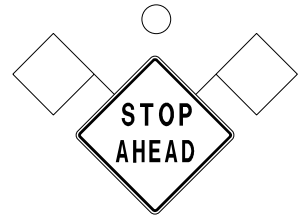
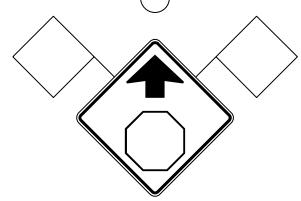
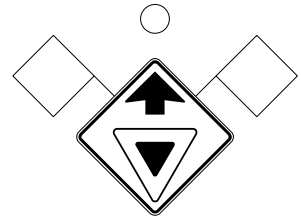
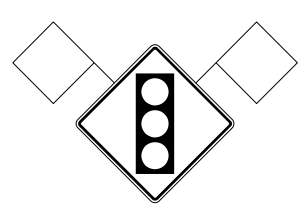
Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Be Prepared to Stop					
500 Ft. / 1000 Ft.					
Open Trench					
Fresh Oil					
Road Work Ahead w/ Advanced Warning Rail System					
Road Work Ahead					

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Shoulder Work Ahead			WO21-5b		
Sand Blasting			WO21-7		
Blasting Zone 1000 Ft			WO22-1		
Turn Off 2-Way Radios			WO22-2		
End Blasting Zone			WO22-3		
Wet Paint			WO22-6e		

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
1/2 Mile 1 Mile (Plaque)	W016-3				
1/2 Mile 1 Mile (Plaque)	W16-3a				
Stop Ahead	 W03-1				
Stop Ahead (Symbol)	 W03-1a				
Yield Ahead	W03-2				
Yield Ahead (Symbol)	 W03-2a				
Signal Ahead (Symbol)	 W03-3				

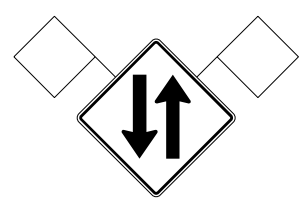
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Merge (Symbol From Left)	W04-1L				
Merge (Symbol From Right)	W04-1R				
Road Narrows	W05-1				
One Lane Bridge	W05-3				

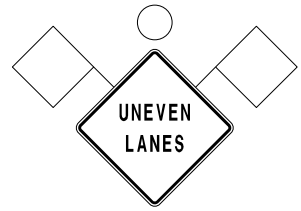
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Narrow Lanes	W05-5				
Divided Highway (Symbol)	W06-1				
Divided Highway Ends (Symbol)	W06-2				
Two Way Traffic (Symbol)	 W06-3				

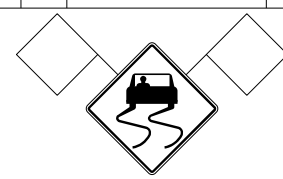
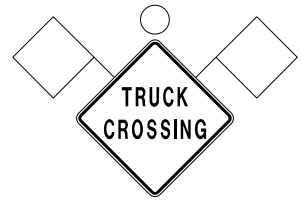
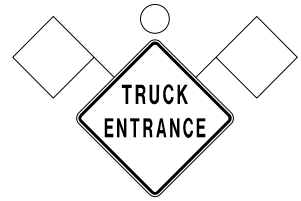
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Next XX Miles (Plaque)	W07-3a				
Bump	W08-1				
Uneven Lanes	 W08-11				
No Center Stripe	W08-12				
Dip	W08-2				
Pavement Ends	W08-3				
Soft Shoulder	W08-4				

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Slippery When Wet (Symbol)					
	W08-5				
Truck Crossing					
	W08-6				
Truck Entrance					
	W08-6c				
Loose Gravel					
	W08-7				
Shoulder Drop-Off					
	W08-9a				
Low Shoulder					
	W08-9				

Traffic Control

Pavement Markings

Component	Type:	Color:	Level:	Line Style:	Line Weight:
BIKE-"BIKE" LETTERING	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE-"LANE" LETTERING	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE-STRAIGHT ARROW	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE- SYMBOL 1	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE- SYMBOL 1 WITH SHARROWS	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE- SYMBOL 2	Cell	0	Traffic_Control-Miscellaneous	0	0
BIKE- SYMBOL 2 WITH SHARROWS	Cell	0	Traffic_Control-Miscellaneous	0	0
Permanent 4" White Intermittent	Linear	0	Traffic_Control-Permanent striping	Dash	7
Permanent 4" Yellow Intermittent	Linear	20	Traffic_Control-Permanent striping	Dash	7
Perm. 4" White Solid	Linear	0	Traffic_Control-Permanent striping	0	7
Perm 4" Yellow Solid	Linear	20	Traffic_Control-Permanent striping	0	7
Preformed Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Railroad Crossing	Cell	0	Traffic_Control-Pavement marker	0	3
Preformed Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight-Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight-Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4

Traffic Control

Pavement Markings

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Preformed "Only" 8'	Cell	0	Traffic_Control-Pavement marker	0	4
Preformed "Only" 10'	Cell	0	Traffic_Control-Pavement marker	0	4

Traffic Control

Pavement Markings

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Preformed Stop Line 12', 14' & 24'	Cell	0	Traffic_Control-Permanent striping	0	4
Temp. (4") White Intermittent	Linear	0	Traffic_Control-Temporary striping	Dash	7
Temp. (4") Yellow Intermittent	Linear	20	Traffic_Control-Temporary striping	Dash	7
Temp. (4") White Solid	Linear	0	Traffic_Control-Temporary striping	0	7
Temp. (4") Yellow Solid	Linear	20	Traffic_Control-Temporary striping	0	7

Traffic Control

Symbols/Patterns

SCALE 0 10 20 30 Graphic Scale 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', 1"=100', 1"=200'	Cell	0	Common-Graphic scales	0	3
North Arrow	Cell	2	Common-North arrow	0	4
Pattern - Removals	Area Pattern	0	Common-Patterns-hatch	0	1
Work Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	1
TRAFFIC CONTROL LEGEND: SIGN (SINGLE SIDED), SIGN (DOUBLE SIDED), FLAGGER, CONE, CHANNELIZER, BARRICADE, CHANGEABLE MESSAGE BOARD Traffic Control Legend	Cell		Common-Legends		
NORTH, WEST, EAST, SOUTH; TRAFFIC FLOW DIAGRAM ESTIMATED - TRAFFIC VOLUME Turning Diagram	Cell		Common-Legends		

Traffic Control

Traffic Control Devices

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Attenuator	L	0	Traffic_Control-Attenuators	0	2
Portable Changeable Message Sign (PCMS)	Cell	6	Traffic_Control-Electric Signs	0	2

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Channelizer	Cell		Traffic_Control-Channelizers		
Channelizer Cone	Cell		Traffic_Control-Channelizers		
Channelizer Drum-Like	Cell		Traffic_Control-Channelizers		
Channelizer Trim-Like	Cell		Traffic_Control-Channelizers		
Cone	Cell	0	Traffic_Control-Channelizers	0	0
Delineator (filled circle)	Cell	0	Roadway-Signs	0	0
Delineator (filled square)	Cell	0	Roadway-Signs	0	0
Delineator (filled triangle)	Cell	0	Roadway-Signs	0	0
Delineator (open circle)	Cell	0	Roadway-Signs	0	0
Directional Indicator Barricade		0	Traffic_Control-Channellzers	0	0
Flagger Symbol	Cell	2	Roadway-Signs	0	1
Flashing Arrow Panel (Double)	Cell		Traffic_Control - Electric Signs	0	1
Flashing Arrow Panel (Single)	Cell		Traffic_Control - Electric Signs	0	1
Impact Attenuator 8,9,10,12,14,17,19	Cell	0	Traffic_Control - Attenuators	0	2
Movable Barricade Plan View	Cell	2	Traffic_Control-Barricades	0	1
Dir. Indicator Barricade (Lt or Rt)	Cell		Traffic_Control-Barricades	0	2
Movable Barricade Side View Lt or Rt	Cell		Traffic_Control-Barricades		
Raised Pvm't Marker	Linear	20	Traffic_Control-Pavement	0	2
Sign Symbol (1 & 2 Sided)	Cell	0	Roadway-Signs	0	2
Sign Symbol w/Number (1 Sided)	Cell	0	Roadway-Signs	0	2
Sign Symbol w/Number (2 Sided)	Cell	0	Roadway-Signs	0	2
Traffic Barrier Plan View	Multi-Line	0	Roadway-Safety	0	2
Traffic Barrier Section View	Cell	40	Traffic_Control-Traffic barriers	0	1
Tubular Marker	Cell	0	Traffic_Control-Channelozers	0	0

Erosion Control
Symbols/Patterns

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Flow Arrow	Cell	52	Roadway-Ditches	0	2
SCALE 0 10 20 30 Graphic Scale 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60',1"=100', 1"=200',	Cell	0	Common-Graphic scales	0	3
North Arrow	Cell	2	Common-North arrow	0	4
Pattern-Removals	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Blanket	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-RockLining(Outlet)	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Lining Pattern	Area Pattern	0	Common-Patterns-hatch	0	1
Sodding Area Pattern	Area Pattern	4	Common-Patterns-hatch	0	5
TEMPORARY EROSION CONTROL LEGEND: ROCK DITCH CHECK; STRAW BALE DITCH CHECK; STRAW BALE FENCE; TEMPORARY BERM; SILT FENCE; SILT FENCE; STRAW BALE FENCE	Cell		Common-Legends		

Erosion Control
Temporary Erosion Control Devices

Temporary Pipe 6" - 36"	MultiLine	31	Erosion_Control-Temporary pipe	0	2
R Rock Ditch Check	Cell	1	Erosion_Control-Rock ditch check	0	1
Sediment Basin	Linear	1	Erosion_Control-Sediment basin	0	2
Silt Fence (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
B B Silt Fence B (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
F F Silt Fence F (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
Slope Limits	Linear	7	Roadway-Slope lines	Dash 1	4
C Slope Limits in Cut	Linear	7	Roadway-Slope break line	Custom	4
F Slope Limits in Fill	Linear	7	Roadway-Slope break line	Custom	4

Erosion Control

Temporary Erosion Control Devices (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Straw Bale Ditch Check	Cell	5	Erosion_Control-Straw bale ditch check	0	1
Straw Bale Fence	Cell	5	Erosion_Control-Straw bale ditch check	0	1
Temporary Berm	Linear	52	Erosion_Control-Temporary berms	Custom	4

Lighting

Equipment

Cable-Conduit	Linear	51	Lighting_Signals-Conduit	0	4
Cable-Conduit (Existing)	Linear	51	Lighting_Signals-Conduit	3	2
Conduit, rigid (Existing)	Linear	51	Lighting_Signals-Conduit	Custom	1
Conduit, rigid (bridge)	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, rigid (median)	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, rigid (pushed)	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, rigid (trenched)	Linear	51	Lighting_Signals-Conduit	Custom	2
Controller, Lighting	Cell	0	Lighting_Signals-Equipment	0	1
Controller, Lighting (Existing)	Cell	0	Lighting_Signals-Equipment	2	1
JCT Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
Power Cable	Linear	51	Utility-Power	0	2
Power Supply	Cell	2	Lighting_Signals-Equipment	0	1
Pull Box Conc. Type 1	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box Conc. Type 2	Cell	0	Lighting_Signals-Equipment	0	1

Lighting

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Pull Box preformed Type 1	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box preformed Type 2	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box (Existing)	Cell	0	Lighting_Signals-Equipment	0	1

Lighting

Luminaires

Arm w/150w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Arm w/250w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Arm w/400w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Underpass, 150w Luminaire	Cell	0	Lighting_Signals-Equipment	0	1

Lighting

Symbols/Patterns

SCALE 0 20 40 60 Graphic Scale 1"= 20'	Cell	0	Common-Graphic Scales	0	3
SCALE 0 50 100 150 Graphic Scale 1"= 50'	Cell	0	Common-Graphic Scales	0	3
LIGHTING LEGEND Lighting Legend	Cell		Common-Legends		
North Arrow	Cell	2	Common-North arrow	0	4

Signals

Equipment

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Conduit, bridge	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, existing	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, median	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, pushed	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, trenched	Linear	51	Lighting_Signals-Conduit	Custom	2
Controller, Signals	Cell	0	Lighting_Signals-Equipment	0	1
Controller, Signals (existing)	Cell	0	Lighting_Signals-Equipment	2	1
Detector, 6'x15' loop	Cell	0	Roadway-Signals	0	2
Detector, 6'x30' loop	Cell	0	Roadway-Signals	0	2
Detector, 6'x6' loop	Cell	0	Roadway-Signals	0	2
Detector, push button	Cell	0	Lighting_Signals-Equipment	0	1
ITS - Type 2 Pull Box	Cell	5	Lighting_Signals - Equipment	0	1
ITS - Type 5 Pull Box	Cell	5	Lighting_Signals - Equipment	0	1
Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
Power Cable	Linear	51	Utility-Power	Custom	1
Power Supply	Cell	2	Lighting_Signals-Equipment	0	1
Pull Box Conc. Type 1	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box Conc. Type 2	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box (existing)	Cell	0	Lighting_Signals-Equipment	0	1

Design MicroStation CADD Standards

Signals

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Pull Box preformed Type 1	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box preformed Type 2	Cell	0	Lighting_Signals-Equipment	0	1
Signal Head, (existing)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Head, (opt. lim. conv.)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Head, (opt. lim.)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Head, (pedestrian)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Head, (standard)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Wire, straight (d38)	Linear	0	Lighting - Signals - Conduit	0	2
Span Wire	Linear	0	Lighting - Signals - Conduit	0	1
Video Detector	Cell	0	Lighting - Signals - Conduit	0	1

Signals

Mast Arms Type A Base

A Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Mast Arms Type C Base

C Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Mast Arms Type F Base

F Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Pavement Marking

Perm.4" Intermittent White	Linear	0	Traffic_Control-Pavement striping	Dash 3	7
Perm.4" Intermittent Yellow	Linear	20	Traffic_Control-Pavement striping	Dash 3	7
Perm.4" Solid White	Linear	0	Traffic_Control-Pavement striping	0	7
Perm.4" Solid Yellow	Linear	20	Traffic_Control-Pavement striping	0	7

Signals

Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Preformed Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
ONLY Preformed ONLY (8')	Cell	0	Traffic_Control-Pavement marker	0	4
ONLY Preformed ONLY (10')	Cell	0	Traffic_Control-Pavement marker	0	4
Stop Line (12', 14' & 24')	Cell	0	Traffic_Control-Permanent striping	Cust	4
Temp. 8mm (4") Intermittent White	Linear	0	Traffic_Control-Temporary striping	Dash 3	7
Temp. 8mm (4") Intermittent Yellow	Linear	20	Traffic_Control-Temporary striping	Dash 3	7
Temp. 8mm (4") Solid White	Linear	0	Traffic_Control-Temporary striping	0	7
Temp. 8mm (4") Solid Yellow	Linear	20	Traffic_Control-Temporary striping	0	7

Signals

Symbols/Patterns

D 38 Standard Plan Light	Cell	0	Lighting_Signals-Conduit	0	1
D 38 Standard Plan No Turn	Cell	20	Lighting_Signals-Conduit	0	1
D 38 Standard Plan Left Turn	Cell	20	Lighting_Signals-Conduit	0	1
D 38 Standard Plan Right Turn	Cell	20	Lighting_Signals-Conduit	0	1
T D 38 Standard Stop Line	Cell	20	Lighting_Signals-Conduit	0	1
SCALE 0 100 200 300 400 500 Graphic Scale 10', 20',30',40',50',60', 100', 200'	Cell	0	Common-Graphic scales	0	3
25 15 5 0 25 50 SCALE IN METERS Graphic Scale 1:500,1:1000	Cell	0	Common-Graphic scales	0	3

Signals

Symbols/Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
North Arrow	Cell	2	Common-North arrow	0	4
Symbol, Detector (Hexagon)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Pull Box (Rectangle)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Signal Head (Triang.)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Signal Pole (Circle)	Cell	0	Lighting_Signals-Conduit	0	1
Traffic Signals Legend	Cell		Common-Legends		
Turning Diagram	Cell		Common-Legends		

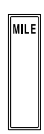
Signing

Signs (Cont.)

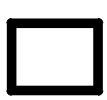
Component	Type: cell	Color: 0,2,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
1,2,3 Character Sign Marker					
ALTPAS Alt. Passing Lane					
Parking Area (Ahead)	D4-1A				
Commuter Plaque	D4-1B				
Commuter Parking	D4-1C				
Parking Area (Left)	D4-1L				
Parking Area (Left 45)	D4-1L45				
Parking Area (Right)	D4-1R				
Parking Area (Right 45)	D4-1R45				
Hospital (Symbol)	D9-2				
Camping (Symbol)	D9-3				
Trailer Camping (Symbol)	D9-3a				

Signing

Signs (Cont.)

Component	Type: cell	Color: 0,2,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Handicap Access (Symbol)			D9-6		
Gas (Symbol)			D9-7		
Food (Symbol)			D9-8		
Lodging (Symbol)			D9-9		
R.V. Sanitary Station			D9-12		
Milepost Marker 1,2,3 Digit			D10-1 D10-2  D10-3		
Missouri Welcome Center					
Gore Exit (1 Character)			E5-1		
Gore Exit (2 Character)			E5-2		
Gore Exit			E5-5		
City Limit			I4-1		
Airport (Symbol)			I-5		

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Train Station (Symbol)			I-7		
MoDOT Adopt-A-Highway			I9-1		
Interstate Shield			M1-1		
Interstate Shield (MO)			M1-1		
U.S. Route Marker			M1-4		
U.S. Shield			M1-4a		
State Route Shield (2 Numbers)			M1-5		
State Route Shield (3 Numbers)			M1-5		
State Route Shield (2 Letters)			M1-5A		
State Route Shield (3 Letters)			 M1-5A		
Junction Marker			M2-1		
North - Direction Marker			M3-1		
East - Direction Marker			M3-2		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
South - Direction Marker			SOUTH M3-3		
West - Direction Marker			WEST M3-4		
Alternate Marker			ALTERNATE M4-1		
Spur Marker			SPUR M4-1B		
Business Marker			BUSINESS M4-3		
To Marker			TO M4-5		
End Marker			END M4-6		
Advance Left Turn Arrow			M5-1L		
Advance Right Turn Arrow			M5-1R		
Advance Turn Arrow 45° Lt.			M5-2L		
Advance Turn Arrow 45° Rt.			M5-2R		
Turn Arrow			M6-1		
Arrow 45° Lt.			M6-2L		
Arrow 45° Rt.			M6-2R		
Straight Ahead Arrow			M6-3		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Arrow Lt./Rt.			M6-4		
Double Head Arrow Diagonal			M6-5		
Arrow Straight/Lt.			M6-6L		
Arrow Straight/Rt.			M6-6R		
Arrow Straight/45° Lt.			M6-7L		
Arrow Straight/45° Rt.			M6-7R		
Missouri on the Move			MISSOURI ON THE MOVE Progress as Promised		
Stop			STOP R1-1b		
Yield			YIELD R1-2		
3-Way and 4-Way (Plaque)			3-WAY R1-3 4-WAY R1-3		
X-Way (Plaque)			-WAY R1-3		

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Speed Limit			R2-1		
Reduced Speed Ahead			R2-5a		
Speed Limit Except Where Posted			R2-5d		
No Right Turn (Symbol)			R3-1		
No Left Turn (Symbol)			R3-2		
No Turns			R3-3		
No U-Turn (Symbol)			R3-4		
Left Arrow Only			R3-5L		
Right Arrow Only			R3-5R		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Straight Ahead Arrow Only			R3-5S		
Left Arrow/ Straight Arrow			R3-6L		
Right Arrow/ Straight Arrow			R3-6R		
Left Lane Must Turn Left			R3-7L		
Right Lane Must Turn Right			R3-7R		
Left Arrow Only Left Arrow/ Straight Arrow			R3-8		
Two Way Left Turn Only			R3-9a		
Center Lane Only			R3-9b		
Do Not Pass			R4-1		

Signing

Signs (Cont.)

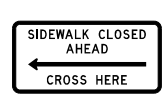
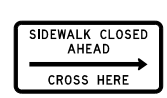
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Pass With Care			R4-2		
Slower Traffic Keep Right			R4-3		
Right Turn Lane Yield To Bikes			R4-4		
Keep Right (Symbol)			R4-7		
Keep Right (Horizontal Arrow)			R4-7a		
Keep Right (45 degrees)					
Keep Left (Horizontal Arrow)			R4-7aL		
Keep Left (Symbol)			R4-8		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Next Passing Lane X Miles			R4-13		
End Passing Lanes			R4-14		
Keep Left			R4-17aL		
Keep Right			R4-17aR		
Do Not Enter			R5-1		
Wrong Way			R5-1a		
No More Trash			R11-26		
Left Lane No Trucks Over 24T			R5-32		

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
One Way Arrow (Left)			R6-1L		
One Way Arrow (Right)			R6-1R		
One Way (Left Arrow) (Right Arrow)			R6-2L R6-2R		
Divided Highway			R6-3		
Divided Highway			R6-3a		
No Parking Anytime			R7-1		
No Parking Both Directions			R7-1D		
No Parking (Left Side) (Right Side)			R7-1L R7-1R		
Reserved Parking (Handicapped)			R7-8		
Sidewalk Closed Ahead (Left) (Right)			 R9-11L  R9-11R		

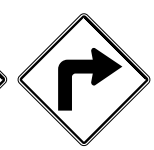
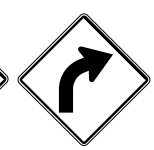
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Sidewalk Closed			R9-9		
No Turn On Red			R10-11a		
Cross Walk Buttons (Left) (Right)			R10-3bL R10-3bR		
Road Closed			R11-2		
Road Closed xx Miles Ahead			R11-3a		
Road Closed To Thru Traffic			R11-4		
To Oncoming Traffic			R12-3b		
Buckle Safety Buckle			R20-2		
School Crossing			S1-1		
School Crossing			S2-1		

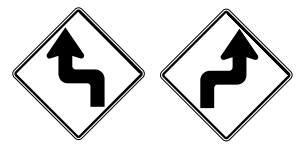
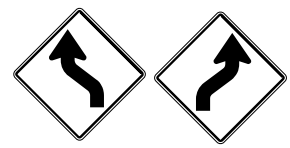
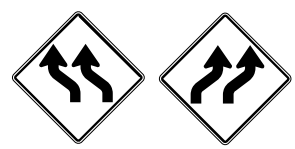
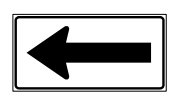
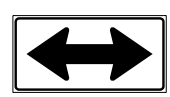
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
School Bus Stop Ahead	S3-1				
School Plaque	S4-3				
When Flashing	S4-4				
Turn Arrow (Left) (Right)	W1-1L  W1-1R				
Curve Arrow (Left) (Right)	W1-2L  W1-2R				

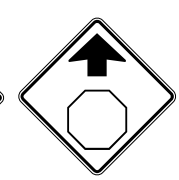
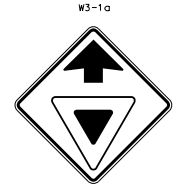
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Reverse Turn (Left Arrow) (Right Arrow)	 W1-3L W1-3R				
Reverse Curve (Left Arrow) (Right Arrow)	 W1-4L W1-4R				
Double Arrow Reverse Curve (Left) (Right)	 W1-4bL W1-4bR				
Winding Road (Left) (Right)	W1-5L W1-5R				
Horizontal Arrow Left & Right	 W1-6				
Double Headed Horizontal Arrow	 W1-7				
Chevron	W1-8				
Crossroad	W2-1				

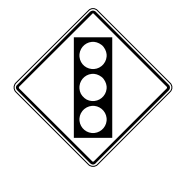
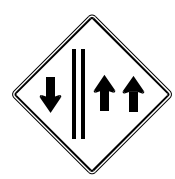
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Side Road	W2-2				
Side Road Obilque	W2-3				
T-Intersection	W2-4				
Y-Intersection	W2-5				
Circular Intersection	W2-6				
Roundabout Plaque	W2-6a				
Stop Ahead/ Stop Ahead(Symbol)	W3-1  W3-1a				
Yield Ahead/ Yield Ahead(symbol)	W3-2  W3-2a				

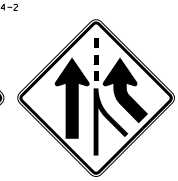
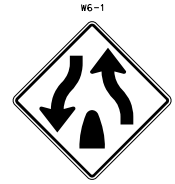
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Signal Ahead	 W3-3				
Be Prepared To Stop	W3-4				
Reduced Speed Limit Ahead	W3-5				
Passing Lane Ends	W4-10				
Watch Left Turn Traffic	W4-11				
Passing Lane Symbol/Plaque	 W4-12 W4-12A				
Merge From Left/Right	W4-1L W4-1R				

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Lane Reduction	W4-2				
Added Lane	W4-3L  W4-3R				
Cross Traffic Does Not Stop	W4-4				
Road Narrows	W5-1				
Narrow Bridge	W5-2				
One Lane Bridge	W5-3				
Divided Highway	W6-1				
Divided Highway Ends	 W6-2				

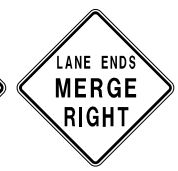
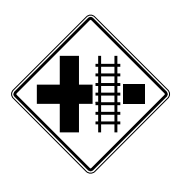
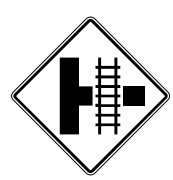
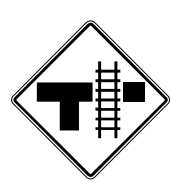
Signing

Signs (Cont.)

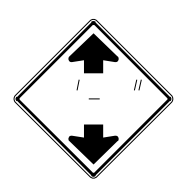
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Two Way Traffic	W6-3				
Hill	W7-1				
Bump	W8-1				
Dip	W8-2				
Pavement Ends	W8-3				
Soft Shoulder	W8-4				
Slippery When Wet	W8-5				

Signing

Signs (Cont.)

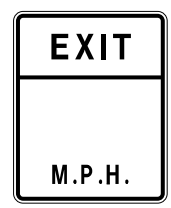
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Right Lane Ends	W9-1				
Lane Ends Merge Lt/Rt	W9-2L  W9-2R				
Railroad Crossing	W10-1				
Railroad Crossing Crossroad	 W10-2				
Railroad Crossing Side Road	 W10-3				
Railroad Crossing T-Intersection	 W10-4				

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Bicycle	W11-1				
Horse & Buggy	W11-12				
Emergency Signal Ahead	W11-12p				
Pedestrian Crossing ---------- Pedestrian Symbol	W11A-2 W11-2				
Deer Crossing	W11-3				
Cattle Crossing	W11-4				
Emergency Vehicle Ahead	W11-8				
Double Down Arrow	W12-1				
Low Clearance	 W12-2				

Signing

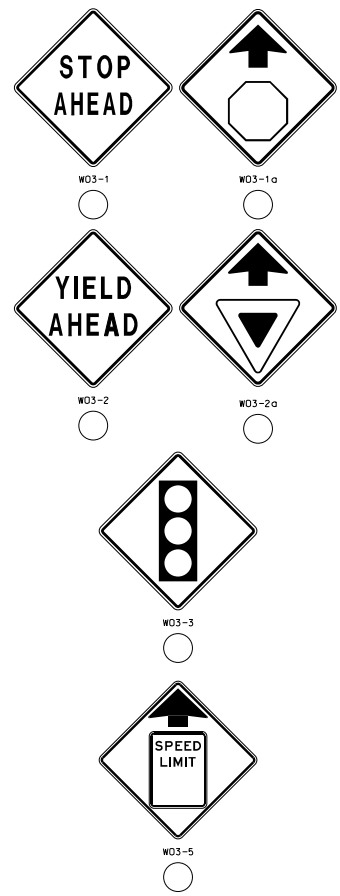
Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Low Clearance Plaque			W12-2x		
Overhead Low Clearance (Feet)			W12-3a		
Overhead Low Clearance (Inches)			W12-3b		
Advisory Speed			W13-1		
Advisory Exit Speed			 W13-2		
Dead End			W14-1		
No Outlet			W14-2		
No Passing Zone Pennant			W14-3		
Share The Road			W16-1		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadways Signs	Line Style: 0	Line Weight: 2
Stop Ahead Sign/Plaque					
Yield Ahead Sign/Plaque					
Signal Ahead					
Reduced Speed Limit Ahead					



Signing

Symbols & Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Hatch Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	2
Cross Hatch Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	2
Concrete Areafill	Area Pattern	0	Common-Patterns-hatch	0	1

Signing

Symbols & Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
SIGN Sign Symbol	Cell	0	Roadway-Signs	0	1
Delineator - White	Linear	0	Roadway-Safety	0	2
Delineator - Yellow	Linear	20	Roadway-Safety	0	2
Attenuator	Linear	0	Roadway-Safety	0	2

Signing Section

Lines (Misc)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Entrance Line	Linear	11	Roadway-Entrances	0	5
Grid Primary Lines	Linear	4	Grid_Line-Main	0	4
Grid Secondary Lines	Linear	7	Grid_Line-Secondary	0	1
Road Section	Linear	1	Typical_Section-New line	0	5

Signing Section

Signs

Existing Sign Board	Linear	1	Roadway-Signs	Dash 2	2
Footing	Linear	0	Roadway-Signs	0	4
Post	Linear	8	Roadway-Signs	0	4
Post Behind Sign	Linear	150	Roadway-Signs	Dash 2	2
Sign Board	Linear	0	Roadway-Signs	0	4

Signing Section

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Concrete Areafill	Area Pattern	1	Common-Patterns-hatch	0	1
Earth Areafill	Area Pattern	8	Common-Patterns-hatch	0	1
10' Graphic Scale 10	Cell	1	Common-Graphic scales	0	4
20' Graphic Scale 20	Cell	1	Common-Graphic scales	0	4
Graphic Scale 5	Cell	1	Common-Graphic scales	0	4
Rock Areafill	Area Pattern	1	Common-Patterns-hatch	0	1

Signing Section

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV CATV - UG Cable Exist	Linear	15	Utility-Cable	Custom	2
CATV CATV - UG Cable New	Linear	70	Utility-Cable	Custom	4
FO FO - Fiber Optic Cable Exist	Linear	15	Utility-Cable	Custom	2
FO FO - Fiber Optic Cable New	Linear	70	Utility-Cable	Custom	4
G G - UG Gas Exist	Linear	116	Utility-Gas	Custom	2
G G - Gas New	Linear	28	Utility-Gas	Custom	4
P P - UG Power Exist	Linear	115	Utility-Power	Custom	2
P P - UG Power New	Linear	51	Utility-Power	Custom	4
RR - Railroad	Linear	1	Utility-Railroad	Custom	2
S San Sewer Line Exist	Linear	114	Utility-Sanitary sewer	Custom	2
S San Sewer Line New	Linear	18	Utility-Sanitary sewer	Custom	4
SS SS - Storm Sewer Exist	Linear	114	Utility-Storm sewer	Custom	2

Signing Section

Utilities (Cont.)

SS - Storm Sewer New	Linear	18	Utility-Storm sewer	Custom	4
T - UG Telephone Exist	Linear	15	Utility-Telephone	Custom	2
T- UG Telephone New	Smart Line	70	Utility-Telephone	Custom	4
W - Water Line Exist	Smart Line	12	Utility-Water	Custom	2
W - Water Line New	Linear	13	Utility-Water	Custom	4

X-Section/Culverts

Drop Inlet Bases

Component	Type:	Color:	Level:	Line Style:	Line Weight:
DI Base 2'-4' Left	Cell	1	Drainage-Structures	0	1
DI Base 2'-4' Right	Cell	1	Drainage-Structures	0	1
DI Base 2'-4' Center	Cell	1	Drainage-Structures	0	1
DI Base 5' Center	Cell	1	Drainage-Structures	0	1
DI Base Type X variable Left	Cell	1	Drainage-Structures	0	1
DI Base Type X variable Right	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Drop Inlet Tops

A 3'x2' left, right, sideview	Cell	1	Drainage-Structures	0	1
A 4'x2' left, right	Cell	1	Drainage-Structures	0	1
B 3'x2' 4'x2' left, right	Cell	1	Drainage-Structures	0	1
C 3'x2' 4'x2' left, right	Cell	1	Drainage-Structures	0	1
D 2'x2' left w/ curb D 2'x2' right w/ curb	Cell	1	Drainage-Structures	0	1
D 2'x2' left w/o curb mh D 2'x2' right w/o curb mh	Cell	1	Drainage-Structures	0	1
E variable front view E variable side view	Cell	1	Drainage-Structures	0	1
S-1 5'x2' 5'x3' side view S-1 variable side view	Cell	1	Drainage-Structures	0	1
S-2 5'x2' left, right	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Drop Inlet Tops (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
S-2 variable left, right, sideview	Cell	1	Drainage-Structures	0	1
S-3 3'x2' side view	Cell	1	Drainage-Structures	0	1
S-3 5'x3' left, right, sideview	Cell	1	Drainage-Structures	0	1
S-3 variable for E & EE mod.	Cell	1	Drainage-Structures	0	1
S-3 variable side view S-3 variable side view	Cell	1	Drainage-Structures	0	1
T 2.5'x3' left, right	Cell	1	Drainage-Structures	0	1
T 2.5'x3' left,right w/ mh	Cell	1	Drainage-Structures	0	1
T variable	Cell	1	Drainage-Structures	0	1
X variable left, right	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Flared End Sections (Safety Slope)

15"-60" FES Left\Right (4:1)	Cell	31	Drainage-Structures	0	4
15"-60" FES Left\Right (6:1)	Cell	31	Drainage-Structures	0	4
15"-60" FES Left\Right (10:1)	Cell	31	Drainage-Structures	0	4

X-Section/Culverts

Flared End Sections (Concrete)

12"-84" Inlet Left	Cell	31	Drainage-Structures	0	2
12"-84" Inlet Right	Cell	31	Drainage-Structures	0	2
12"-84" Outlet Left	Cell	31	Drainage-Structures	0	2
12"-84" Outlet Right	Cell	31	Drainage-Structures	0	2

X-Section/Culverts

Flared End Sections (Concrete) (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Headwall Exist	Linear	31	Drainage-Structures	Dash 2	2
Headwall New	Linear	31	Drainage-Structures	0	2
Metal Flared End Section Exist	Linear	31	Drainage-Structures	Dash 2	2
Metal Flared End Section New	Linear	31	Drainage-Structures	0	2

X-Section/Culverts

Flared End Sections (Metal)

12"-84"F.E.S. Left	Cell	31	Drainage-Structures	0	4
12"-84"F.E.S. Right	Cell	31	Drainage-Structures	0	4

X-Section/Culverts

Lines (Ground, Flow, Entrance)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Centerline of Road	Linear	20	XS-Existing surface-ground	4	4
Cls 3 Excavation Line	Linear	31	XS-Proposed surface-ground	Custom	2
Entrance Line	Linear	11	Roadway-Entrances	0	5
Existing Ground Line	Linear	90	XS-Existing surface-ground	2	3
Finished Ground Line	Linear	1	XS-Proposed surface-ground	0	5
Flowline of Pipe	Linear	31	Drainage-Structures	0	1
Subgrade Line	Linear	0	XS-Existing surface-ground	0	2

Design MicroStation CADD Standards

X-Section/Culverts

Lines (Right of Way)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Permanent Easement	Linear	2	Roadway-Permanent easement	Dash 6	4
Existing Right of Way	Linear	6	Roadway-Existing rw	Dash 4	4
New Right of Way	Linear	2	Roadway-New rw	0	6
Temporary Easement	Linear	6	Roadway-Temporary easement	Dash 4	2

X-Section/Culverts

Manholes - Precast

Manhole Top Type 4 variable	Cell	1	Drainage-Structures	0	1
Manhole Base Type 4 variable	Cell	1	Drainage-Structures	0	1
Manhole Top 6'	Cell	1	Drainage-Structures	0	1
Manhole Base 6'	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Pipes/Culverts

Component	Type:	Color:	Level:	Line Style:	Line Weight:
1½' - 8'Box Culvert Exist	Multi-line	31	Drainage-Structures	Dash 3	2
1½' - 8' Box Culvert New	Multi-line	31	Drainage-Structures	0	4
CMP 6" - 84" Exist	Multi-line	31	Drainage-Structures	Dash 3	2
CMP 6" - 84" New	Multi-line	31	Drainage-Structures	0	4
CMP/RCP/Culvert Exist Line	Linear	31	Drainage-Structures	Dash 3	2
CMP/RCP/Culvert New Line	Linear	31	Drainage-Structures	0	4

X-Section/Culverts

Pipes/Culverts (Cont.)

Design MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
RCP 12" - 84" Exist	Multi-line	31	Drainage-Structures	Custom	2
RCP 12" - 84" New	Multi-line	31	Drainage-Structures	Custom	4

X-Section/Culverts

Safety

Guardrail Section	Cell	99	Roadway-Safety	0	2
Traffic Barrier Section	Cell	40	Traffic_Control-Traffic barriers	0	1

X-Section/Culverts

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Class III Excavation Hatching	Area Pattern	0	Common-Patterns-hatch	0	1
Concrete Pattern Area	Area Pattern	0	Common-Patterns-hatch	0	1
Earth Pattern Area	Area Pattern	8	Common-Patterns-hatch	0	1
F.E.S. Callout Bubble	Cell	31	Text-Drainage structure	0	2
Flowline Arrow	Cell	52	Roadway-Ditches	0	2
Graphic Scale 10	Cell	1	Common-Graphic scales	0	4
Graphic Scale 20	Cell	1	Common-Graphic scales	0	4
Graphic Scale 5	Cell	1	Common-Graphic scales	0	4
Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Lining	Linear	1	Common-Patterns-hatch	0	2
Steel Pattern Area	Area Pattern	1	Common-Patterns-hatch	0	2
Pattern-Rock Blanket	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Lining(Outlet)	Area Pattern	0	Common-Patterns-hatch	0	1

X-Section/Culverts

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV - UG Cable Exist Section	Linear	15	Utility-Cable	Dash 2	1
CATV - UG Cable New Section	Linear	70	Utility-Cable	0	4
FO - Fiber Optic Cable Exist Section	Linear	15	Utility-Cable	Dash 2	1
FO - Fiber Optic Cable New Section	Linear	70	Utility-Cable	0	4
G - Gas Existing Section	Linear	116	Utility-Gas	Dash 2	1
G - Gas New Section	Linear	60	Utility-Gas	0	4
P - Power UG Exist Section	Linear	115	Utility-Power	Dash 2	1
P - Power UG New Section	Linear	51	Utility-Power	0	4
RR - Railtops	Linear	1	Utility-Railroad	0	1
S - San Sewer Exist Section	Linear	114	Utility-Sanitary sewer	Dash 2	1
S - San Sewer New Section	Linear	18	Utility-Sanitary sewer	0	4
SS - Storm Sewer Exist Section	Linear	114	Utility-Storm sewer	Dash 2	1
SS - Storm Sewer New Section	Linear	18	Utility-Storm sewer	0	4
T - Telephone UG Exist Section	Linear	15	Utility-Telephone	Dash 2	1
T - Telephone UG New Section	Linear	70	Utility-Telephone	0	4
W - Water Exist Section	Linear	12	Utility-Water	Dash 2	1
W - Water New Section	Linear	13	Utility-Water	0	4

X-Section/Culverts

Walls

Retaining Wall	Linear	99	Roadway-Walls	0	4
Sound Wall	Linear	99	Roadway-Walls	0	4

Preliminary Plan

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Plot Limits 4' - 25' Color: 2 Line Style: 0 Plot Window Color: 7 Line Style: 2 Construction Element Color: 4 Line Style: 0	CELL	2,4,7	1	0,2	0

Scales	
ENGLISH	METRIC
1" = 20' - 4' - 25' 1" = 50' - 4' - 25' 1" = 100' - 4' - 25' 1" = 200' - 4' - 25' 1" = 500' - 4' - 25' 1" = 1000' - 4' - 25'	1: 500 - 4' - 25' 1:1000 - 4' - 25' 1:1250 - 4' - 25' 1:1500 - 4' - 25' 1:2000 - 4' - 25'

Note: The Preliminary Plan settings manager is located in the pull down menu. (Design/Preliminary Plan).