

9 Plan levels

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9.1 *Intruduction*

The following pages are to be used a guild lines for MicroStation files. These are to be used to for phases of design to tell what levels should be on/off on each type class of file. The three current phases are Alignment and Grade Plans, Plan-In-Hand Plans and Final Plans. There is also a setup option for Consultant files

Explanation of symbols on the following pages:

- A - *Alignment and Grade Plan*
- P - *Plan-In-Hand Plans*
- F - *Final Plans*
- C - *Consultants Only*
- - *Off for Consultants*
- ** - *There is no Cadd Standards set up for the levels in this file. Therefore, turn on all levels depending on design.*
- X – Applicable to all phases of design
- (P) – Applicable only for preliminary alignment and construction limits
- (F) – Applicable only for final alignment and construction limits

9.2 Road Design Title Sheet & Note Sheet

Level	Active File **	Plans Border sheet 1 of 3 (planm.ref)	Plans Border sheet 3 of 3 (planm.ref)																	
1		X																		
2	X	X																		
3		X																		
4		X																		
5	X																			
6	X			C																
7																				
8			C																	
9																				
10	X			X																
11																				
12																				
13																				
14				A, P																
15																				
16																				
17	X																			
18																				
19																				
20			X	X																
21																				
22																				
23																				
24			A, P	A, P																
25																				
26																				
27																				
28																				
29																				
30			X																	
31																				
32																				
33																				
34			A, P																	
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37																				
38																				
39																				
40				A, P																
41				A, P																
42				X																
43				X																
44	X			X, *																
45				X																
46				X																
47				X																
48				X, *																
49																				
50																				
51																				
52			A, P																	
53			A, P																	
54			X																	
55			X																	
56			X, *																	
57			X																	
58			X																	
59			X																	
60			X, *																	
61																				
62																				
63																				

See Explanation of symbols on page 9-2

Road Design Typical Section Sheet

Level	Active File **	Plans Border (plannm.ref)										
1		X										
2	X	X										
3	X	X										
4	X	X										
5	X											
6	X											
7												
8												
9	X											
10		X										
11		X										
12												
13												
14		A, P										
15												
16												
17												
18												
19												
20		X										
21		X										
22												
23												
24		A, P										
25												
26												
27												
28												
29												
30		X										
31		X										
32												
33												
34		A, P										
35												
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63												

See Explanation of symbols on page 9-2

9.3 Road Design Summary Sheet

Level	Active File **	Plans Border (plann.ref)												
1	X	X												
2	X	X												
3	X	X												
4	X	X												
5	X													
6	X													
7														
8														
9														
10		X												
11														
12														
13														
14		A, P												
15														
16														
17														
18														
19														
20		X												
21														
22														
23														
24		A, P												
25														
26														
27														
28														
29														
30		X												
31														
32														
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34		A, P												
35														
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See Explanation of symbols on page 9-2

9.4 Road Design Detail Sheet

Level	Active File **	Plans Border (planm.ref)	Geometric Detail **	Hydraulic Detail **								
1		X										
2	X	X										
3		X										
4		X										
5	X		OFF	OFF								
6	X											
7												
8												
9												
10		X										
11												
12		X										
13												
14		A. P										
15												
16												
17												
18												
19												
20		X										
21												
22		X										
23												
24		A. P										
25												
26												
27												
28												
29												
30		X										
31												
32		X										
33												
34		A. P										
35												
36												
37												
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See Explanation of symbols on page 9-2

9.5 Road Design Plan & Profile Sheet

Level	Active File **	Plans Border (planm.ref)	Photo/Survey Mapping (FL#)	Sue Mapping (RDUT#)	Road Mapping HORIZ. (H#)	Road Mapping VERT. (V#)	R/W Mapping (R#)	R/W Plans (RO#)	Signing Mapping	Electrical Mapping	Geometric Mapping
1		X			X						
2	X	X			X						
3		X	X		X						
4	X	X			X						
5	X	X			X						
6	X		A. P		X						
7			X		X						
8	X		X								
9	X		X								
10	X	X									
11					X						
12	X										
13					X						
14		A. P			X						
15					X						
16		X					X				
17		X			X			X			
18											
19			X								
20		X			X						
21					X						
22			X		X						
23			X					X			
24		A. P									
25											
26		X									
27		X						X			
28								X			
29								X			
30		X	X	X			X				
31			X	X			X				
32			X	X				X			
33			X	X	A. P			X			
34		A. P			A. P						
35			X	X							
36		X	X	X			X				
37		X						X			
38			X				X				
39											
40							X				
41											
42											
43											
44			X		X						
45						A. P					
46					X						
47					X						
48					X						
49					X						
50											
51						X					
52						X					
53	X					X					
54						X					
55	X					X					
56						X					
57											
58											
59											
60											
61											
62											
63											

See Explanation of symbols on page 9-2

9.6 Road Design Cross Section Sheet

Level	Active File **	Cross Section Border (gridmgp.ref)										
1	X	X										
2	X	X										
3		X										
4	X											
5	X											
6	X											
7	X											
8												
9												
10	X											
11	X											
12												
13	X											
14												
15	X											
16												
17	X											
18	X											
19												
20												
21												
22												
23												
24												
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59												
60												
61												
62												
63		A. P										

See Explanation of symbols on page 9-2

9.7 Right-of-Way Control Traverse Sheet

Level	Active File	Road Design Traverse Sheet	Plans Border (planm.ref)	R/W Border (metrwti.ref)							
1		X	X								
2		X	X	X							
3		X	X								
4											
5				X							
6	X			X							
7				X							
8	X			X							
9											
10				X							
11				X							
12	X			X							
13											
14	X										
15				X							
16				X							
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42				X							
43											
44											
45											
46											
47	X			X							
48											
49				X							
50											
51		X		X							
52				X							
53											
54											
55											
56											
57											
58											
59											
60	X										
61											
62											
63											

See Explanation of symbols on page 9-2

9.8 Right-of-Way Coordinate Sheet

Level	Active File	Plans Border (planm.ref)	R/W Border (mcoord.ref)								
1		X									
2		X	X								
3		X									
4											
5			X								
6	X		X								
7			X								
8	X		X								
9											
10			X								
11			X								
12	X		X								
13											
14	X		X								
15			X								
16			X								
17											
18											
19											
20			X								
21			X								
22			X								
23			X								
24			X								
25			X								
26			X								
27			X								
28			X								
29			X								
30			X								
31			X								
32	X										
33	X										
34											
35											
36											
37											
38											
39											
40											
41											
42			X								
43											
44											
45											
46											
47	X		X								
48											
49			X								
50											
51			X								
52			X								
53											
54											
55											
56											
57											
58											
59											
60	X										
61											
62											
63											

See Explanation of symbols on page 9-2

9.9 Right-of-Way Exhibit Sheets

Level	Active File	Photo/ Survey Map	Road Map	R/W Map	Geometric Map	Road Plans	R/W Plans	Plans Border (plann.ref)	R/W Border (mdeed.ref)		
1							X	X	X		
2								X	X		
3				X				X			
4				X							
5									X		
6							X		X		
7											
8											
9											
10							X				
11			X				X		X		
12									X		
13							X				
14											
15							X		X		
16				X					X		
17							X				
18											
19							X				
20							X				
21							X				
22		X									
23							X				
24											
25							X				
26							X				
27							X				
28							X				
29							X				
30				X							
31				X							
32							X				
33							X				
34				X			X		X		
35				X							
36											
37											
38				X							
39				X							
40				X							
41											
42							X				
43							X				
44											
45							X				
46							X				
47							X		X		
48											
49									X		
50							X				
51							X		X		
52									X		
53											
54											
55											
56											
57											
58											
59											
60							X		X		
61											
62											
63											

See Explanation of symbols on page 9-2

9.10 Right-of-Way Ownership Sheet

Level	Active File	Plans Border (planm.ref)	R/W Border (metrwpl.ref)								
1		X									
2		X	X								
3		X									
4			X								
5			X								
6	X		X								
7	X		X								
8	X		X								
9											
10			X								
11			X								
12	X		X								
13											
14	X										
15			X								
16			X								
17											
18											
19											
20											
21			X								
22			X								
23			X								
24			X								
25			X								
26			X								
27			X								
28			X								
29			X								
30			X								
31			X								
32			X								
33											
34											
35											
36											
37											
38											
39											
40											
41											
42			X								
43											
44											
45											
46											
47	X		X								
48											
49			X								
50											
51			X								
52			X								
53											
54											
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56											
57											
58											
59											
60	X										
61											
62											
63											

See Explanation of symbols on page 9-2

9.11 Right-of-Way Plan Sheets

Level	Active File	Photo/ Survey Map	Road Map	R/W Map	Geometric Map	Road Plans	Plans Border (planm.ref)	R/W Border (metrwpl.ref)			
1	X						X				
2							X	X			
3				X (F)			X				
4	X			X (F)		X					
5								X			
6	X							X			
7	X	X	X					X			
8	X	X						X			
9	X	X									
10	X							X			
11	X		X					X			
12	X							X			
13	X		X								
14	X							X			
15	X							X			
16				X				X			
17	X										
18	X										
19	X										
20	X	X	X								
21	X		X								
22		X	X								
23	X	X									
24	X										
25	X			X (P)							
26	X			X (P)							
27	X										
28	X										
29	X										
30		X		X							
31		X		X							
32	X	X									
33	X	X	X (F)								
34	X		X	X							
35		X		X							
36		X		X							
37	X										
38		X		X							
39	X			X							
40				X							
41											
42	X							X			
43	X										
44	X										
45	X										
46	X										
47	X							X			
48											
49	X							X			
50	X										
51	X							X			
52								X			
53											
54											
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56											
57											
58											
59											
60	X										
61											
62											
63											

See Explanation of symbols on page 9-2

9.12 Right-of-Way Strip Map

Level	Active File	Photo/ Survey Map	Road Map	Geometric Map							
1											
2	X										
3	X (F)										
4	X (F)										
5											
6	X										
7		X	X								
8		X									
9		X									
10											
11			X								
12											
13			X								
14											
15											
16	X										
17											
18											
19											
20		X	X								
21			X								
22		X	X								
23		X									
24											
25	X (P)										
26	X (P)										
27											
28											
29											
30	X	X									
31	X	X									
32	X	X									
33		X	X (F)								
34	X		X								
35	X	X									
36	X	X									
37		X									
38	X	X									
39	X										
40	X										
41											
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See Explanation of symbols on page 9-2

9.13 Right-of-Way Title Sheet

Level	Active File	Road Design Title Sheet**	R/W Border (metrwti.ref)										
1	X		X										
2		X	X										
3			X										
4			X										
5		X	X										
6	X	X											
7			X										
8	X												
9													
10	X	X	X										
11			X										
12	X												
13			X										
14	X		X										
15			X										
16													
17		X											
18													
19													
20			X										
21													
22													
23			X										
24													
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36													
37													
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39													
40													
41													
42			X										
43	X		X										
44		X	X										
45													
46													
47			X										
48													
49			X										
50													
51			X										
52			X										
53													
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55													
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57													
58													
59													
60	X												
61													
62													

See Explanation of symbols on page 9-2

9.14 Traffic Geometric Design Plans

Level	Active File Detail Sheets	Road Mapping	Geometric Mapping	Plans Border (planm.ref)	Traffic Border (mtrafpl.dgn)						
1				X	X						
2				X							
3		X	X	X							
4		X	X	X							
5		X	X								
6											
7											
8											
9											
10				X							
11											
12				X							
13	X		X								
14				A,P							
15											
16											
17											
18											
19											
20				X							
21											
22	X	X	X	X							
23	X		X								
24	X		X	A,P							
25											
26											
27	X		X								
28											
29											
30				X							
31											
32				X							
33											
34				AP							
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49					X						
50					A,P						
51											
52											
53											
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See Explanation of symbols on page 9-2