

Mn/DOT CADD DATA STANDARDS

TEXT SIZING GUIDES

This is the sizing guide for general text placement in MicroStation files. The sizes are in MicroStation file units. In English files the units are feet and in metric files they are meters. These text sizes were developed based on plotting test files to 11 x 17 sheets. Title Sheet borders are one exception to this size limitation in order to allow the use of cartographic reference files for project area location. The line spacing information is indicated for placement of notes that require multiple lines of text. The final condition of these guides is that text is to be placed in the file at the font, level, weight, color and line style in which it will be plotted. Element properties should not be altered through the use of a pen table. Black and white color tables may be called out for black and white plotting. These are the only text sizes permitted for use. There are versions of this table for some of the functional groups that have identified what each size of text is to be used for (title block, existing feature label, etc.). Verify that you have located the chart that is appropriate for the type of file you are working on.

If it is necessary to produce plans at a scale not specifically addressed by this chart, the user is required to use a multiple of the values in this chart. For example, the smallest size text in an English plan of intended plot scale 1" = 20' would be 0.8 master units (foot) tall in the design file based on the smallest text size value of 2.0 master units (feet) for an intended plot scale of 1" = 50'. This chart governs text sizes for intended plot scales ranging from (1" = 10') to (1" = 500') English and their equivalent range in metric files. The smallest size text on the chart is reserved for Surveys point numbering only. It is not to be used for any other text placement in any design file.

Mn/DOT English Text Size Guide - General						
ENGLISH 1 inch =	50' Scale	50' Line Spacing	100' Scale	100' Line Spacing	200' Scale	200' Line Spacing
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
	2.5	1.7	5	3.3	10	6.7
	3.125	2.1	6.25	4.2	12.5	8.3
	3.75	2.5	7.5	5	15	10
	5	3.3	10	6.7	20	13.3
	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unitless Scale	(1:600)		(1:1200)		(1:2400)	

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Mn/DOT Metric Text Size Guide - General						
METRIC 1 cm =	5m Scale	5m line space	10m Scale	10m line space	25m Scale	25m line space
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
	0.8	0.5	1.6	1.1	4	2.7
	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unitless Scale	(1:500)		(1:1000)		(1:2500)	

FUNCTIONAL GROUP TEXT SIZING GUIDES

The following notes apply to all of the tables for the functional group specific text sizing guides:

1. Standard plot size is considered to be 11" x 17" at either 1"=100' or 1"=200' plot scale
2. XS specific columns apply to text on cross section files and sheets only.
3. The designation L.S. in column headers refers to "Line Spacing" to be used between consecutive lines of text when placing notes or labels that require multiple lines of text for a single note or label.

Mn/DOT CADD DATA STANDARDS

DESIGN (Preliminary and Final)

ENGLISH 1 inch = (see column head)

USAGE	XS (10')	50'	50' L. S.	100'	100' L. S.	200'	200' L. S.
Inplace or existing features, removals		2.5	1.7	5	3.3	10	6.7
Plan view proposed text (i.e. lane widths, general labeling)		3.125	2.1	6.25	4.2	12.5	8.3
Alignment stationing, profile labeling		3.75	2.5	7.5	5	15	10
Alignment & profile names, larger labels		5	3.3	10	6.7	20	13.3
Title block in lower right corner		6.25	4.2	12.5	8.3	25	16.7
Cross Sections - proposed text	1.25						
Cross Sections - existing text	1						
Cross Sections (nominal 1.4) station to station	1.25 Or 1.875						

METRIC 1 cm = (see column head)

USAGE		5m	5m L.S.	10m	10m L.S.	25m	25m L. S.
Inplace or existing features, removals		0.64	0.4	1.28	0.9	3.2	2.1
Proposed text (i.e. lane widths, general labeling)		0.8	0.5	1.6	1.1	4	2.7
Alignment stationing		0.96	0.6	1.92	1.3	4.8	3.2
Alignment names, larger labels		1.28	0.9	2.56	1.7	6.4	4.3
Title block in lower right corner		1.6	1.1	3.2	2.1	8	5.3

Mn/DOT CADD DATA STANDARDS

HYDRAULICS WATER RESOURCES

ENGLISH 1 inch = (see column head)

USAGE	50'	50' L.S.	100'	100' L.S.	200'	200' L.S.
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
	2.5	1.7	5	3.3	10	6.7
Inlet Drainage Area Information, Structure Labels	3.125	2.1	6.25	4.2	12.5	8.3
Hydraulic Notes (Included in Plan)	3.75	2.5	7.5	5	15	10
	5	3.3	10	6.7	20	13.3
System Drainage Area Information	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unit-less Scale	1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE	5m	5m L.S.	10m	10m L.S.	25m	25m L.S.
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
Inlet Drainage Area Information, Structure Labels	0.8	0.5	1.6	1.1	4	2.7
Hydraulic Notes (Included in Plan)	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
System Drainage Area Information	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unit-less Scale	1:500		1:1000		1:2500	

Mn/DOT CADD DATA STANDARDS

LAND MANAGEMENT- RIGHT OF WAY

ENGLISH 1 inch = (see column head)

USAGE	50'	50' L.S.	100'	100' L.S.	200'	200' L.S.
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
	2.5	1.7	5	3.3	10	6.7
	3.125	2.1	6.25	4.2	12.5	8.3
	3.75	2.5	7.5	5	15	10
Temp. Easements, Railroad RW, - general labels	5	3.3	10	6.7	20	13.3
Parcel Flagging and Caption Blocks	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unit-less Scale	1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE	5m	5m L.S.	10m	10m L.S.	25m	25m L.S.
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
	0.8	0.5	1.6	1.1	4	2.7
	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unit-less Scale	1:500		1:1000		1:2500	

Mn/DOT CADD DATA STANDARDS

LAND MANAGEMENT - SURVEY

ENGLISH 1 inch = (see column head)

USAGE	50'	50' L.S.	100'	100' L.S.	200'	200' L.S.
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
	2.5	1.7	5	3.3	10	6.7
	3.125	2.1	6.25	4.2	12.5	8.3
	3.75	2.5	7.5	5	15	10
Feature Labels	5	3.3	10	6.7	20	13.3
	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unit-less Scale	1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE	5m	5m L.S.	10m	10m L.S.	25m	25m L.S.
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
	0.8	0.5	1.6	1.1	4	2.7
	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unit-less Scale	1:500		1:1000		1:2500	

Mn/DOT CADD DATA STANDARDS

SOILS\MATERIALS

ENGLISH 1 inch = (see column head)

USAGE	XS (10)	50'	50' L. S.	100'	100' L. S.	200'	200' L. S.
Plan view borehole number		2.5	1.7	5	3.3	10	6.7
Profile - stratum description, water depths		3.125	2.1	5	3.3	12.5	8.3
Profile - column label		3.75	2.5	6.25	4.2	15	10
Cross Section - column label	1.5						
Cross Section - stratum description, water depths	1						
Unit-less Scale		1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE		5m	5m L.S.	10m	10m L.S.	25m	25m L. S.
Plan view borehole number		0.64	0.4	1.28	0.9	3.2	2.1
Profile - stratum information		0.8	0.5	1.6	1.1	4	2.7
Profile - station and associated labels		0.96	0.6	1.92	1.3	4.8	3.2
Unit-less Scale		1:500		1:1000		1:2500	

Mn/DOT CADD DATA STANDARDS

SITE DEVELOPMENT

ENGLISH 1 inch = (see column head)

USAGE	50'	50' L.S.	100'	100' L.S.	200'	200' L.S.
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
SP# in title block	2.5	1.7	5	3.3	10	6.7
	3.125	2.1	6.25	4.2	12.5	8.3
General labeling size (details sheet)	3.75	2.5	7.5	5	15	10
Note indicator, Title block labels	5	3.3	10	6.7	20	13.3
Detail Identifier	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unit-less Scale	1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE	5m	5m L.S.	10m	10m L.S.	25m	25m L.S.
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
	0.8	0.5	1.6	1.1	4	2.7
	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unit-less Scale	1:500		1:1000		1:2500	

Mn/DOT CADD DATA STANDARDS

TRAFFIC

ENGLISH 1 inch = (see column head)

USAGE	50'	50' L.S.	100'	100' L.S.	200'	200' L.S.
Surveys Pt. #'s only	2	1.3	4	2.7	8	5.3
	2.5	1.7	5	3.3	10	6.7
	3.125	2.1	6.25	4.2	12.5	8.3
Minimum Text size - general labels	3.75	2.5	7.5	5	15	10
	5	3.3	10	6.7	20	13.3
	6.25	4.2	12.5	8.3	25	16.7
	9.375	6.3	18.75	12.5	37.5	25
	12.5	8.3	25	16.7	50	33.4
Unit-less Scale	1:600		1:1200		1:2400	

METRIC 1 cm = (see column head)

USAGE	5m	5m L.S.	10m	10m L.S.	25m	25m L.S.
Surveys Pt. #'s only	0.51	0.3	1.02	0.7	2.55	1.7
	0.64	0.4	1.28	0.9	3.2	2.1
	0.8	0.5	1.6	1.1	4	2.7
Minimum Text size - general labels	0.96	0.6	1.92	1.3	4.8	3.2
	1.28	0.9	2.56	1.7	6.4	4.3
	1.6	1.1	3.2	2.1	8	5.3
	2.4	1.6	4.8	3.2	12	8
	3.2	2.1	6.4	4.3	16	10.7
Unit-less Scale	1:500		1:1000		1:2500	