

## 2.6 Text

### A. Introduction

Text requirements for notes, dimensions, titles, and headings used for project plan sheets have been consolidated and standardized for CADD use. The Caltrans standard font “CTFONT1” has a numerical value of 3. CTFONT1 is a replication of the previous standard font, “LEROY”, but with modifications to the kerning (space for each letter) of some letters. Additional characters were added to both CTFONT1 and LEROY (but more characters were added to CTFONT1). The LEROY font is still being used for mapping purposes.

NOTE: MicroStation fonts, which are currently being used by various functional units and which are acceptable at Caltrans, are shown in the Appendix A6 of this manual.

### B. Text Size - Highway & Landscape Project Plans

In the Caltrans CADD system, all base mapping for Highway and Landscape projects are designed using State Plane Coordinates. Plans are developed at a ratio of 1 to 1 (real coordinate values), but can be plotted at any desired scale. Text sizes were determined based on how the text looked within the border sheet and what information should be shown more prominently. It is important to place text at the appropriate CADD size within the drawing based on the intended scale of the plotted plan sheet for clarity and readability of text on hard copy prints.

The table on the next page defines the text sizes to be used for Highway and Landscape project plan sheets. The English text size listed is based on a plotting scale of 1” = 50’ (Caltrans Base Scale).

**TEXT – For Highway/Landscape Projects  
and Photogrammetry**

“TX =” represents the height (TH) and width (TW) in feet for the Caltrans base plotting scale of 1” = 50’ plans. See Appendix A6 for text sizes at other acceptable plotting scales (fonts, weights and slant remain the same.)

<b>DESCRIPTION</b>	<b>ENGLISH SIZE</b>	<b>FONT</b>	<b>WEIGHT</b>	<b>SLANT</b>
Title Project Description	TX = 14.5 *	43	0	0
Name and ID Code of Individual Plan Sheets, (does not apply to the Title Sheet)	TX = 14.5 *	43	0	0
Titles for Quantity Tables and Detail Drawings. Begin and End Construction on Title Sheet	TX = 12	43	0	0
For Pacific Ocean	TX = 12	3	2	25
Country and State boundary	TX = 11	43	0	0
City Names on the Title Sheet Strip Map	TX = 10 **	43	0	0
County Names on the Title Sheet Strip Map	TX = 10	43	0	25
Begin and End Work on Title Sheet. Titles for Informational Tables	TX = 10	3	2	0
Subtitles for Tables and Detail Drawings. Route & Route No, Line Designation. *** Headings inside a Quantity Table	TH = 8.75 TW = 8.75 ****	3	2	0
Bays	TX = 8.75	3	2	25
As-built Changes	TX = 8.75	3	2	15
River Names (Water Ways)	TX = 7	3 *****	1	25
Majority of Text, (including text with drawings, tables and dimensioning). County Lines and City Limit Lines	TX = 7	3	1	0
Restricted Space for Placement of Text	TH = 7 TW = 6	3	0	0
Name, Date, License Number Inside Seal and Date of Signature	TH = 7 TW = 5	3	1	0
Printed Names in Margin of Border Sheet	TX = 6	3	1	0
Photogrammetric Mapping and Survey Topographic Mapping Text	TX = 6	2	1	0

- \* Adjustable if necessary (TX = 12 minimum).
- \*\* For projects spanning multiple counties, which are identified on the Title Sheet, the text size and font for cities may be reduced to TX = 7, Font = 3 and WT = 1, so the counties can be shown more prominently than cities.
- \*\*\* If a Layout Sheet has multiple routes and is a busy and cluttered sheet, making it difficult to see the route labeling, then the Route, Route Number and Line Designation may be placed using TX = 10, Font = 43, WT = 0 for routes with work or TX = 7, Font = 3, WT = 1 for routes without work.

For Title Sheets having a strip map that covers a large area (multiple counties), the route identification may be placed using TX = 7, Font = 3, WT = 1 for routes without work.

- \*\*\*\* Reduce text width (TW = 7 minimum), if needed for restricted space when placing a heading inside a quantity table.
- \*\*\*\*\* Do not use Font 23. It is obsolete and does not have the appropriate spacing for characters or the desired appearance for certain letters. Use the Caltrans standard Font 3 (ctfont1) and place at a slant angle of 25 degrees.

Note: Text sizes for additional information on contract plans not listed in the above table see the individual sections and examples in the Plans Preparation Manual.

C. Text Size - Structures

The text size values listed in the table below applies to both a pre-version 8 (V8) and a full version 8 (V8) MicroStation design file. In a pre-V8 DGN file the text size values are in **feet**. But in a full V8 DGN file the text size values are in **inches**. The reason the text size values changed from **feet** to **inches**, is the border sheet in a pre-V8 DGN file was 22' x 34'. In a full V8 DGN file the border sheet was changed to 22" x 34".

DESCRIPTION	TEXT SIZE	FONT	WEIGHT
Informational notes - majority of plan lettering requirements and border information	0.1400	3	1 or 2
Detail Titles	0.2400	3	4
Detail Titles	0.2400	43	0
Sheet Titles and Border information	0.2400	43	0

Structures seed files contain further explanation of the appropriate text size, font and weight to use within a Structures DGN file.

1. Pre-Version 8 (V8) MicroStation Design File:

The Structures base scale is 1" = 1'-0".

**Unit Names:** Master Units (MU) -----Feet (')  
 Sub Units (SU) -----Inches (")

**Resolution:** Sub Units (SU) -----12 (inches per foot)  
 Positional Units (PU) -----8000 (Pos. Units per sub unit)

Working Area -----44,739 (feet square)

2. Full Version 8 (V8) MicroStation Design File:

The Structures base scale is 1'-0" = 1'-0".

**Unit Names:** Master Units (MU) -----Feet (')  
 Sub Units (SU) -----Inches (")

**Resolution:** -----1,152,000 per Foot

**Working Area** (each axis): -----1,480,827 Miles

D. Text Size – Right of Way (R/W) Mapping Products

In the Caltrans CADD system, all R/W drawings are designed using State Plane Coordinates. Maps are developed at a ratio of 1 to 1 (real coordinate values), but can be plotted at any desired scale. Text sizes were determined based on how the text looked within the border sheet and what information should be shown more prominently. The size for the text listed in the table below, is based on a plotting scale of 1"= 50' (Caltrans Base Scale). It is important to place text at the appropriate CADD size within the drawing based on the intended scale of the plotted plan sheet for clarity and readability of text on hard copy prints.

Right of Way uses several fonts that are specific for their use only. These specific fonts are 4 (CTFONT-RW), 7 (Adline), 55 (Fancy–Old Mon. Font2) & 56 (Shadow). Fonts are shown in Appendix A6 of this manual.

DESCRIPTION	ENGLISH SIZE *	FONT	WEIGHT
Predominantly Numeric Annotation including bearings & distances, curve data, coordinates, and stationing.	TX = 5.0	3	1
Detail Labels (i.e. DETAIL "A" & SEE DETAIL "A")	TX = 10.0	3	3
"NO SCALE" label	TX = 5.0	3	2
Descriptive Annotation including easement descriptions, "EXISTING R/W", "CITY LIMITS"	TX = 5.0	4	1
Route Label along alignment	TX = 7.0	4	2
Map Sheet Reference Label (i.e. "SEE MAP 81328")	TX = 8.0	4	2
Block & Lot/Parcel Labeling Large (i.e. BLOCK 9) Medium (i.e. LOT 2, PARCEL 4)	TX = 12.0 TX = 10.0	4	1 1
County and City Labels	TX = 26.0	7	2
Government Landnet Labeling Township & Range Large (i.e. SECTION 1) Medium (i.e. GOVT TRACT 21) Small (i.e. GOVT LOT 3)	TX = 14.0 TX = 12.0 TX = 10.0 TX = 8.0	55	3 1 1 1
Subdivision & Record Map Labeling Large (i.e. ROS 6-8) Medium (i.e. PM 2-3) Small (i.e. OR 7-11)	TX = 14.0 TX = 12.0 TX = 10.0	56	2 2 2

\* TX = represents height (TH) and width (TW) in feet for Caltrans standard 1" = 50' drawings.