

Caltrans Fonts

The seven fonts shown in this Appendix are the only fonts currently used by Caltrans! Out dated fonts are still in the Caltrans Font resource file (ctfont.rsc) in order to allow old archived files to be plotted/printed with the fonts that were originally used.

Font 3 (ctfont1) is the new standard Caltrans font used by all functional units. Font 3 was developed to improve the printing quality and clarity for half-size plotting/printing (11" X 17"). The space for each character (kerning) has been improved in Font 3 over the kerning used in Font 2 (Leroy). Font 2 is still used and needed for mapping purposes.

Font 3 contains additional characters and has enhanced several existing characters for clarity when reading the plans. Because of these additional characters, enhancements and kerning, Font 3 has replaced the need for using Font 23 when labeling waterways and As-built changes. Use Font 3 with a slant angle of 25 degrees for waterways and a slant angle of 15 degrees for As-built changes.

Years ago Font 1 was created to reduce the spacing between characters. With the improved kerning in Font 3 along with the improved enhancements for print quality and clarity, it is now unnecessary and obsolete to use Font 1.

Font 43 (Bold) is used in the preparation of the Final Contract plans. Fonts 4, 7, 55, & 56 are used by Right of Way Engineering for their specific needs.

In this Appendix, every character for each of the seven fonts is shown with its character ID value. To access any character by its ID value, type a back-slash followed by the ID value of the character. Since special characters may not be linked to a particular key on the keyboard, the back-slash is the best way to insert them while using the standard MicroStation "Dialog" Text Editor Style.

Example: (\197) will allow the user to place a cubic symbol when using Font 3.

All font characters can be displayed and selected by using the "WYSIWYG" Text Editor Style available in MicroStation.

Font 2 (LEROY)

2 - LEROY															
File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z	{		}	~	¢
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
π	1/2	1/4	3/4	1/8	3/8	5/8	7/8	1/16	3/16	5/16	7/16	9/16	11/16	13/16	15/16
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1/32	3/32	5/32	7/32	9/32	11/32	13/32	15/32	17/32	19/32	21/32	23/32	25/32	27/32	29/32	31/32
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1/64	3/64	5/64	7/64	9/64	11/64	13/64	15/64	17/64	19/64	21/64	23/64	25/64	27/64	29/64	31/64
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
°	35/64	37/64	39/64	41/64	43/64	45/64	47/64	49/64	51/64	53/64	55/64	57/64	59/64	61/64	63/64
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Δ	∅	ℙ	μ	2	3	Δ		±							
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Font 3 (CTFONT1)

3 - CTFONT1

File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z	{		}	~	€
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
π	1/2	1/4	3/4	1/8	3/8	5/8	7/8	1/16	3/16	5/16	7/16	9/16	11/16	13/16	15/16
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1/32	3/32	5/32	7/32	9/32	11/32	13/32	15/32	17/32	19/32	21/32	23/32	25/32	27/32	29/32	31/32
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1/64	3/64	5/64	7/64	9/64	11/64	13/64	15/64	17/64	19/64	21/64	23/64	25/64	27/64	29/64	31/64
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
□	35/64	37/64	39/64	41/64	43/64	45/64	47/64	49/64	51/64	53/64	55/64	57/64	59/64	61/64	63/64
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Δ	∅	ℙ	μ	²	³	Δ		±	∅	γ	Σ	Φ	Ω	I	V
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
X	L														
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
1/3	2/3	1/5			1/6		1/25								

Font 4 (CTFONT-RW)

4 - CTFONT-RW

File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
'	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z	{		}	~	€
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
π	1/2	1/4	3/4	1/8	3/8	5/8	7/8	1/16	3/16	5/16	7/16	9/16	11/16	13/16	15/16
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1/32	3/32	5/32	7/32	9/32	11/32	13/32	15/32	17/32	19/32	21/32	23/32	25/32	27/32	29/32	31/32
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1/64	3/64	5/64	7/64	9/64	11/64	13/64	15/64	17/64	19/64	21/64	23/64	25/64	27/64	29/64	31/64
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
°	35/64	37/64	39/64	41/64	43/64	45/64	47/64	49/64	51/64	53/64	55/64	57/64	59/64	61/64	63/64
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Δ	∅	ℙ	μ	2	3	4		±	θ	γ					
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Font 7 (ADLINE)

7 - ADLINE															
File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	•	3		&	'	()			.	-	.	
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;				†
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z					
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
,	•	ˆ	˜	˘	˙	˚	¸	˛	˜	˝	˞	˟	ˠ	ˡ	ˢ
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
ƒ	g	h	i	ˆ	˜	˘	˙	˚	¸	˛					
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Font 43 (BOLD)

43 - BOLD															
File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z					€
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
								±							
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Font 55 (FANCY – OLD MON. FONT 2)

55 - FANCY - OLD MON. FONT2

File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z	{	}	~		
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
	1/2	1/4	3/4	1/8	3/8	5/8	7/8	1/16	3/16	5/16	7/16	9/16	11/16	13/16	15/16
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1/32	3/32	5/32	7/32	9/32	11/32	13/32	15/32	17/32	19/32	21/32	23/32	25/32	27/32	29/32	31/32
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1/64	3/64	5/64	7/64	9/64	11/64	13/64	15/64	17/64	19/64	21/64	23/64	25/64	27/64	29/64	31/64
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
31/64	33/64	35/64	37/64	39/64	41/64	43/64	45/64	47/64	49/64	51/64	53/64	55/64	57/64	59/64	61/64
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
								+							
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Font 56 (SHADOW)

56 - SHADOW															
File	Display														
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	J	"	#	⌵	%	⌶	'	()	⌸	+	⌺	⌻	⌼	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	⌺	⌻	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Ⓐ	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[]	o	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
P	Q	R	S	T	U	V	W	X	Y	Z					
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

TEXT SIZE for accepted plotting scales other than the Caltrans base scale
For Highway/Landscape Projects
and Photogrammetry

DESCRIPTION	SIZE at 1"=20'	SIZE at 1"=100'	FONT	WEIGHT
Title Project Description	TX = 5.8 *	TX = 29.0 *	43	0
Name and ID Code of Individual Plan Sheets, (does not apply to the Title Sheet.	TX = 5.8 *	TX = 29.0 *	43	0
Titles for Quantity Tables and Detail Drawings. Begin and End Construction on Title Sheet	TX = 4.8	TX = 24.0	43	0
For Pacific Ocean	TX = 4.8	TX = 24.0	3	2
Country and State boundary	TX = 4.4	TX = 22.0	43	0
City Names on the Title Sheet Strip Map	TX = 4.0 **	TX = 20.0 **	43	0
County Names on the Title Sheet Strip Map	TX = 4.0	TX = 20.0	43	0
Begin and End Work on Title Sheet. Titles for Informational Tables	TX = 4.0	TX = 20.0	3	2
Subtitles for Tables and Detail Drawings. Route and Route No. *** Headings inside a Quantity Table	TH = 3.5 TW = 3.5 ****	TH = 17.5 TW = 17.5 ****	3	2
Bays	TX = 3.5	TX = 17.5	3	2
As-built Changes	TX = 3.5	TX = 17.5	3	1
River Names (waterways)	TX = 2.8	TX = 14.0	3 *****	1
Majority of Text, (including text with drawings, tables and dimensioning). County Lines and City Limit Lines	TX = 2.8	TX = 14.0	3	1
Restricted Space for Placement of Text	TH = 2.8 TW = 2.4	TH = 14.0 TW = 12.0	3	0
Name, Date, License Number Inside Seal and Date of Signature	TH = 2.8 TW = 2.0	TH = 14.0 TW = 10.0	3	1
Printed Names in Margin of Border Sheet	TX = 2.4	TX = 12.0	3	1
Photogrammetric Mapping and Survey Topographic Mapping Text	TX = 2.4	TX = 12.0	2	1

- * Adjustable if necessary;
 TX = 4.8 minimum at 1" = 20' or
 TX = 24 minimum at 1" = 100'

- ** For projects spanning multiple counties that are identified on the Title Sheet, the text size and font for cities may be reduced to;
 TX = 4, Font = 3 and WT = 1 at 1" = 20' or
 TX = 20, Font = 3 and WT = 1 at 1" = 100'
 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 and Route No. may be placed using;
 TX = 4, Font = 43, WT = 0 for routes with work at 1" = 20' or
 TX = 20, Font = 43, WT = 0 at 1" = 100'
 TX = 2.8, Font = 3, WT = 1 for routes without work at 1" = 20' or
 TX = 14, Font 3, WT = 1 at 1" = 100'

- For Title Sheets having a strip map that covers a large area (multiple counties), the route identification may be placed using;
 TX = 2.8, Font = 3, WT = 1 for routes without work at 1" = 20' or
 TX = 14, Font = 3, WT = 1 at 1" = 100'

- **** Reduce text width;
 TW = 2.8 at 1" = 20' or
 TW = 14 at 1" = 100' 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.