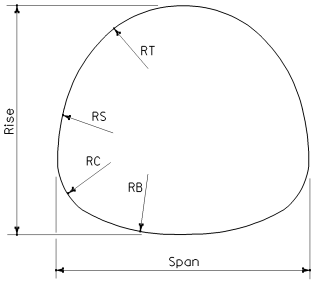
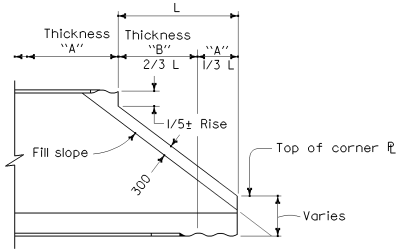




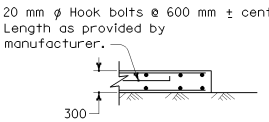
SIDE ELEVATION

NOTE

Thickness "B" two thicknesses greater than thickness "A", except for 6.5 mm and 7 mm thicknesses.

Skew-bevels not permitted with Alternative I.
Cutoff dimensions are approximate only and may be varied by fabricator to suit plate layout.

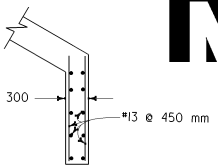
ALTERNATIVE I



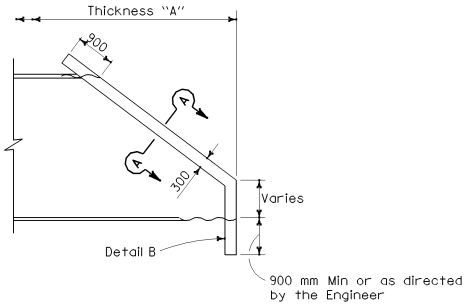
SECTION A-A

NOTE

Reinforce both faces of concrete collar with #13 @ 450 mm both ways. Maximum skew is 35°.

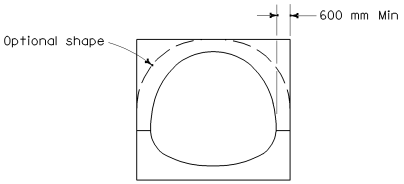


DETAIL B



SIDE ELEVATION

ALTERNATIVE 2



END ELEVATION

END BEVELS

Span (mm)	Rise (mm)	MAXIMUM HEIGHT OF FILL (m) Thickness (mm) 2.5	3.5	4.5	2.5	3.5	4.5	5.5	6.5	7.0	LAYOUT DATA (mm) RT	RS	RC	RB
		Soil Pressure 144 KPa			For soil pressures see Table A									
3708	3353	4.9	4.9	4.9	5.2	7.9	10.0	14.0	16.5	18.0	1727	2362	965	3404
3937	3429	4.6	4.6	4.6	4.9	7.3	9.4	13.1	15.5	17.1	1854	2413	965	3658
4013	3632	4.3	4.3	4.3	4.9	7.3	9.4	12.8	15.2	16.8	1854	2616	965	4039
4216	3734	4.0	4.0	4.0	4.6	6.7	8.8	12.5	14.6	15.8	1956	2743	965	4166
4293	3912	4.0	4.0	4.0	4.6	6.7	8.8	12.2	14.3	15.5	1956	2921	965	4623
4420	4115	4.0	4.0	4.0	4.3	6.4	8.5	11.9	14.0	15.2	1981	3327	965	4420
4521	4267	4.0	4.0	4.0	4.3	6.4	8.2	11.6	13.7	14.9	2007	3454	965	4877
4724	4369	3.7	3.7	3.7	4.0	6.1	7.9	11.0	13.1	14.3	2134	3505	965	5105
4801	4597		3.7	3.7		6.1	7.9	10.7	12.8	14.0	2108	3810	965	5385
4978	4699		3.7	3.7		5.8	7.6	10.4	12.2	13.4	2184	3988	965	5461
5004	4902		3.4	3.4		5.8	7.6	10.4	12.2	13.4	2235	4013	965	6883
5105	4953		3.4	3.4		5.8	7.3	10.0	11.9	13.1	2261	4242	965	6274
5258	5182		4.3	4.3		5.5	7.0	9.8	11.6	12.8	2286	4420	1194	5461
5588	5156			4.0			6.7	9.1	11.0	11.9	2515	3988	1194	6325
5842	5232			4.0			6.4	8.8	10.7	11.6	2667	3962	1194	6706
5944	5359			3.7			6.4	8.8	10.4	11.3	2718	4013	1194	7544
6198	5436							8.5	10.0	11.0	2870	3962	1194	7976

Structures require strutting for fill heights below heavy lines. See Note A.

TABLE A						
Spans (mm)	Soil Pressure kPa Thickness (mm) 2.5	3.5	4.5	5.5	6.5	7.0
3708 to 5105	163	239	316	431	508	555
5258 to 6198	134	192	239	345	402	440

NOTES

A. For strutting requirements of structural steel plate vehicular undercrossing during construction, see Standard Plan D88A.

B. Minimum cover from crown to shoulder hinge point = 1.5 m.

C. Backfill shall be brought up uniformly on both sides of the structure.

D. Minimum cover for construction loading, see Standard Plan D88.

Reinforced concrete: F_S = 165 MPa
N = 10
F_C = 9 MPa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL PLATE VEHICULAR UNDERCROSSING

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B14-1

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

July 1, 2004
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Dallas Forester No. C37765 Exp. 12-31-04 CIVIL STATE OF CALIFORNIA

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