

DIMENSIONS

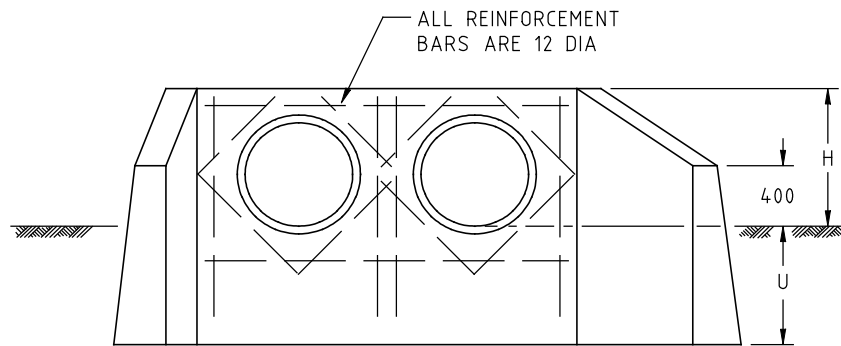
SKEW ANGLE DEGREE	FLARE ANGLE DEGREE	NOM PIPE DIA	EXTERNAL PIPE DIA#	A	E	H	K	L	M	N	O	U	TYPE 1 *SLOPE AT 1.5:1						TYPE 2 *SLOPE AT 2:1						TYPE 3 *SLOPE AT 3:1					
													B	B1	C	D	F	P	B	B1	C	D	F	P	B	B1	C	D	F	P
15	30	600	698	2232	300	854	250	117	740	430	201	650	681	182	3096	681	705	963	908	243	3383	908	940	1284	1362	365	3959	1362	1410	1926
		675	781	2445	340	933	280	120	780	470	202	650	800	214	3459	800	828	1131	1066	286	3797	1066	1104	1508	1599	428	4473	1599	1655	2261
		750	864	2653	375	1013	310	122	820	510	201	650	920	246	3824	920	952	1300	1226	329	4213	1226	1269	1734	1839	493	4990	1839	1904	2601
		825	946	2859	410	1092	340	125	870	550	201	650	1038	278	4176	1038	1075	1468	1384	371	4614	1384	1433	1957	2076	556	5492	2076	2149	2936
		900	1029	3073	450	1172	370	126	910	590	201	650	1158	310	4541	1158	1199	1638	1544	414	5030	1544	1598	2184	2316	621	6009	2316	2398	3275
		1050	1194	3492	525	1330	440	132	990	700	211	750	1395	374	5266	1395	1444	1973	1860	498	5856	1860	1926	2630	2790	748	7035	2790	2888	3946
		1200	1359	3911	600	1489	500	134	1060	770	207	750	1634	438	5982	1634	1691	2310	2178	584	6673	2178	2255	3080	3267	875	8054	3267	3382	4620
30	30	600	698	2490	300	854	250	117	740	430	201	650	1180	0	3669	681	681	1362	1573	0	4062	908	908	1816	2359	0	4849	1362	1362	2724
		675	781	2727	340	933	280	120	780	470	202	650	1385	0	4112	800	800	1599	1846	0	4574	1066	1066	2132	2770	0	5497	1599	1599	3198
		750	864	2959	375	1013	310	122	820	510	201	650	1593	0	4558	920	920	1839	2123	0	5089	1226	1226	2452	3185	0	6151	1839	1839	3678
		825	946	3189	410	1092	340	125	870	550	201	650	1798	0	4987	1038	1038	2076	2397	0	5586	1384	1384	2768	3596	0	6785	2076	2076	4152
		900	1029	3427	450	1172	370	126	910	590	201	650	2006	0	5433	1158	1158	2316	2674	0	6101	1544	1544	3088	4011	0	7439	2316	2316	4632
		1050	1194	3895	525	1330	440	132	990	700	211	750	2416	0	6317	1395	1395	2790	3222	0	7122	1860	1860	3720	4832	0	8733	2790	2790	5580
		1200	1359	4362	600	1489	500	134	1060	770	207	750	2829	0	7192	1634	1634	3267	3772	0	8135	2178	2178	4356	5659	0	10021	3267	3267	6534
45	20	600	698	3049	300	854	250	117	740	430	201	650	1460	-318	4192	681	751	1611	1947	-423	4573	908	1002	2149	2921	-635	5335	1362	1503	3223
		675	781	3340	340	933	280	120	780	470	202	650	1715	-373	4682	800	882	1892	2286	-497	5129	1066	1176	2522	3429	-746	6024	1599	1764	3784
		750	864	3625	375	1013	310	122	820	510	201	650	1972	-429	5175	920	1015	2176	2629	-572	5689	1226	1353	2901	3944	-858	6718	1839	2029	4351
		825	946	3906	410	1092	340	125	870	550	201	650	2226	-484	5648	1038	1145	2456	2968	-645	6229	1384	1527	3275	4452	-968	7390	2076	2291	4912
		900	1029	4197	450	1172	370	126	910	590	201	650	2483	-540	6141	1158	1278	2740	3311	-720	6789	1544	1704	3653	4967	-1080	8084	2316	2555	5480
		1050	1194	4770	525	1330	440	132	990	700	211	750	2992	-650	7118	1395	1539	3301	3989	-867	7899	1860	2052	4401	5983	-1301	9459	2790	3078	6602
		1200	1359	5343	600	1489	500	134	1060	770	207	750	3503	-762	8084	1634	1802	3865	4671	-1016	8998	2178	2403	5154	7006	-1523	10826	3267	3605	7730

NOTES:

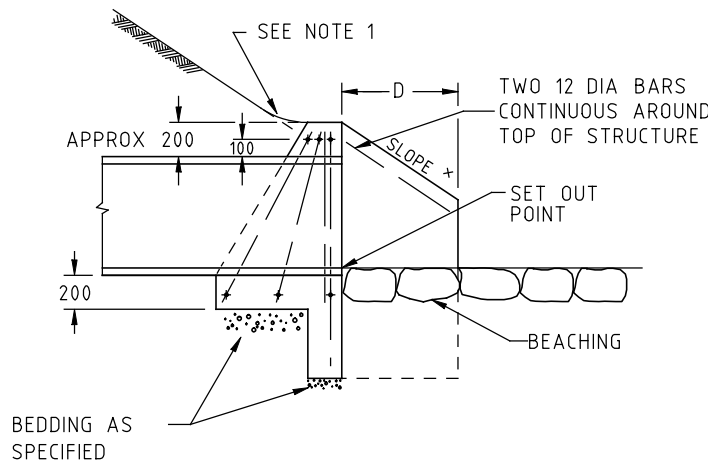
- BECAUSE THE RELATION OF THE BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL FOR THE SAFETY OF THE MOTORIST, THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION.
- REINFORCEMENT BARS SHALL COMPLY WITH AS/NZS 4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN, AND CLEAR COVER 50 MIN.
- EXPOSED EDGES SHALL HAVE 20 x 20 CHAMFERS.
- COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15 kPa. (1.5 TONNE VIBRATORY ROLLER OR 300 kg VIBRATING PLATE WITHIN 0.5m OF WALL).
- REFER TO SD 1902 FOR QUANTITIES
- CONCRETE SHALL BE NORMAL-CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- CONCRETE AGGREGATES SHALL COMPLY WITH TABLE 701.021 OF VICROADS STANDARD SPECIFICATION SECTION 701.
- ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS 3600.

* THEORETICAL SLOPE OF WINGWALL MEASURED AT RIGHT ANGLES TO THE ROADWAY.

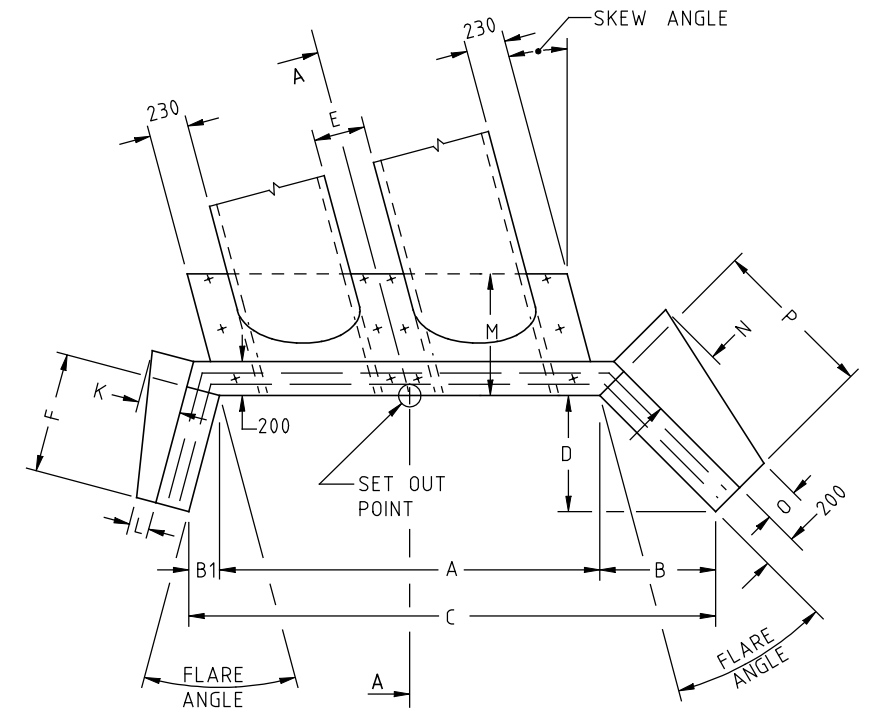
APPROXIMATE ONLY



END ELEVATION



SECTION A-A



PLAN


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ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C	J.K.	1/7/05	NOTE 2 AMENDED
B	J.C.	1/2/98	AMENDMENT TO NOTE 6, NOTES 7 & 8 ADDED, CONCRETE STRENGTH GRADES
A	J.C.	1/2/95	NOTES 2, 5 & 6, GENERAL NOTES 1 & 2

GENERAL NOTES	
1.	ALL DIMENSIONS ARE IN MILLIMETRES.
2.	CULVERT INLET AND OUTLET STRUCTURES - SELECTION GUIDE

SD 1700

DESIGNED	PRINCIPAL ROAD DESIGN ENGINEER
APPROVED	1.2.95 <i>J. Cunningham</i>
CATALOG PROJECT FILENAME	PRED sddgnnew sd-1901c.dgn



3 PROSPECT HILL ROAD,
CAMBERWELL,
VICTORIA, 3124
PHONE NO. (03) 9811 8355
FAX NO. (03) 9811 8329

SCALE	HOR	NOT TO SCALE
OF	VER	
METRES		

STANDARD DRAWING				
MASS CONCRETE WINGWALL				
TYPES 1, 2 & 3				
SKEW MULTIPLE PIPE CULVERTS 600 TO 1200 DIA				
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1901	C