

DIMENSIONS

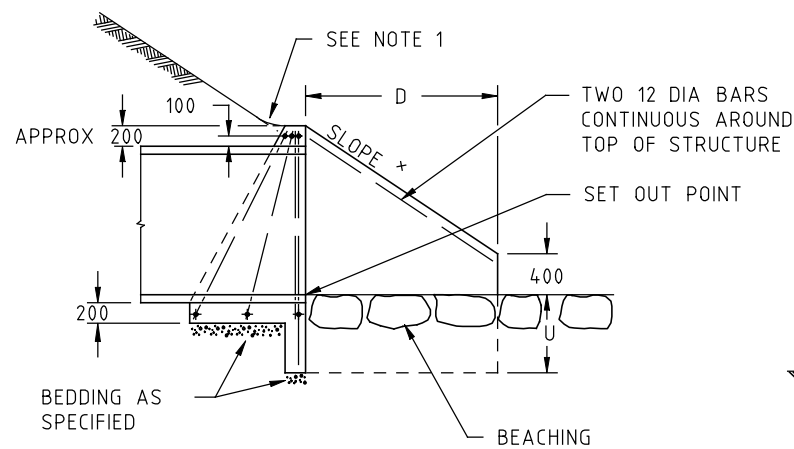
SKEW ANGLE DEGREE	FLARE ANGLE DEGREE	NOM PIPE DIA	EXTERNAL PIPE DIA*	A	E	H	K	L	M	N	O	U	TYPE 1 × SLOPE 1.5:1						TYPE 2 × SLOPE 2:1						TYPE 3 × SLOPE 3:1					
													B	B1	C	D	F	P	B	B1	C	D	F	P	B	B1	C	D	F	P
15	30	1350	1524	4331	675	1648	550	133	1130	850	206	760	1872	502	6709	1872	1938	2647	2496	669	7501	2496	2584	3530	3744	1003	9083	3744	3876	5295
		1500	1676	4723	750	1800	600	133	1200	925	206	760	2100	563	7386	2100	2174	2970	2800	750	8273	2800	2899	3960	4200	1125	10048	4200	4348	5940
		1650	1842	5144	825	1959	650	133	1260	1000	204	760	2339	627	8115	2339	2421	3307	3118	835	9103	3118	3228	4410	4677	1253	11080	4677	4842	6614
		1800	2006	5562	900	2117	700	132	1320	1075	203	760	2576	690	8827	2576	2666	3642	3434	920	9916	3434	3555	4856	5151	1380	12093	5151	5333	7285
		1950	2198	5959	900	2296	770	134	1370	1175	205	760	2844	762	9648	2844	2944	4022	3792	1016	10850	3792	3926	5363	5688	1524	13254	5688	5889	8044
2100	2388	6352	900	2474	840	136	1420	1275	206	760	3111	834	10452	3111	3221	4400	4148	1111	11767	4148	4294	5866	6222	1667	14397	6222	6441	8799		
30	30	1350	1524	4830	675	1648	550	133	1130	850	206	760	3242	0	8078	1872	1872	3744	4323	0	9159	2496	2496	4992	6485	0	11321	3744	3744	7488
		1500	1676	5268	750	1800	600	133	1200	925	206	760	3637	0	8905	2100	2100	4200	4850	0	10117	2800	2800	5600	7275	0	12542	4200	4200	8400
		1650	1842	5738	825	1959	650	133	1260	1000	204	760	4050	0	9794	2339	2339	4677	5401	0	11144	3118	3118	6236	8101	0	13844	4677	4677	9354
		1800	2006	6203	900	2117	700	132	1320	1075	203	760	4461	0	10664	2576	2576	5151	5948	0	12151	3434	3434	6868	8922	0	15125	5151	5151	10302
		1950	2198	6646	900	2296	770	134	1370	1175	205	760	4926	0	11665	2844	2844	5688	6568	0	13307	3792	3792	7584	9852	0	16591	5688	5688	11376
2100	2388	7085	900	2474	840	136	1420	1275	206	760	5388	0	12647	3111	3111	6222	7185	0	14443	4148	4148	8296	10777	0	18035	6222	6222	12444		
45	20	1350	1524	5916	675	1648	550	133	1130	850	206	760	4015	-873	9064	1872	2066	4430	5353	-1164	10112	2496	2754	5906	8029	-1746	12206	3744	4131	8859
		1500	1676	6452	750	1800	600	133	1200	925	206	760	4503	-979	9976	2100	2317	4969	6005	-1306	11151	2800	3089	6625	9007	-1958	13500	4200	4634	9938
		1650	1842	7027	825	1959	650	133	1260	1000	204	760	5015	-1090	10959	2339	2580	5533	6687	-1454	12267	3118	3440	7378	10030	-2181	14883	4677	5160	11067
		1800	2006	7597	900	2117	700	132	1320	1075	203	760	5523	-1201	11919	2576	2842	6094	7364	-1601	13360	3434	3789	8126	11046	-2402	16242	5151	5683	12188
		1950	2198	8140	900	2296	770	134	1370	1175	205	760	6099	-1326	13026	2844	3138	6729	8132	-1768	14617	3792	4184	8973	12198	-2652	17799	5688	6276	13459
2100	2388	8678	900	2474	840	136	1420	1275	206	760	6672	-1451	14111	3111	3433	7361	8895	-1934	15851	4148	4577	9815	13343	-2901	19332	6222	6865	14723		

NOTES:

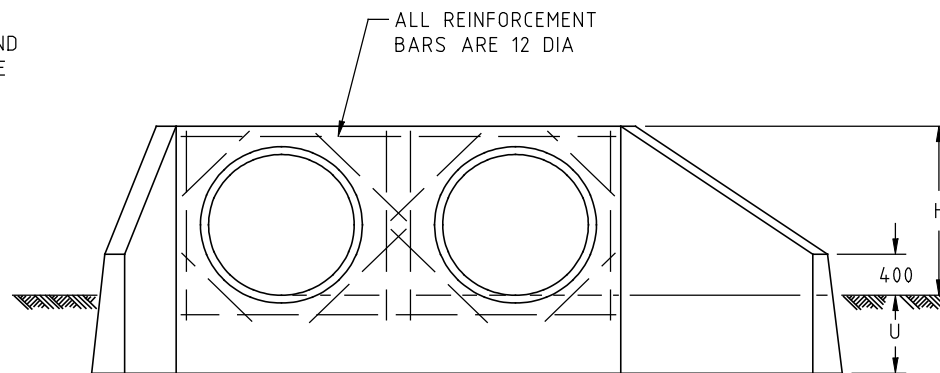
- BECAUSE THE RELATION OF THE BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL FOR THE SAFETY OF THE MOTORIST, THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION.
- REINFORCEMENT BARS SHALL COMPLY WITH AS/NZS 4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN, AND CLEAR 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 1912 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.

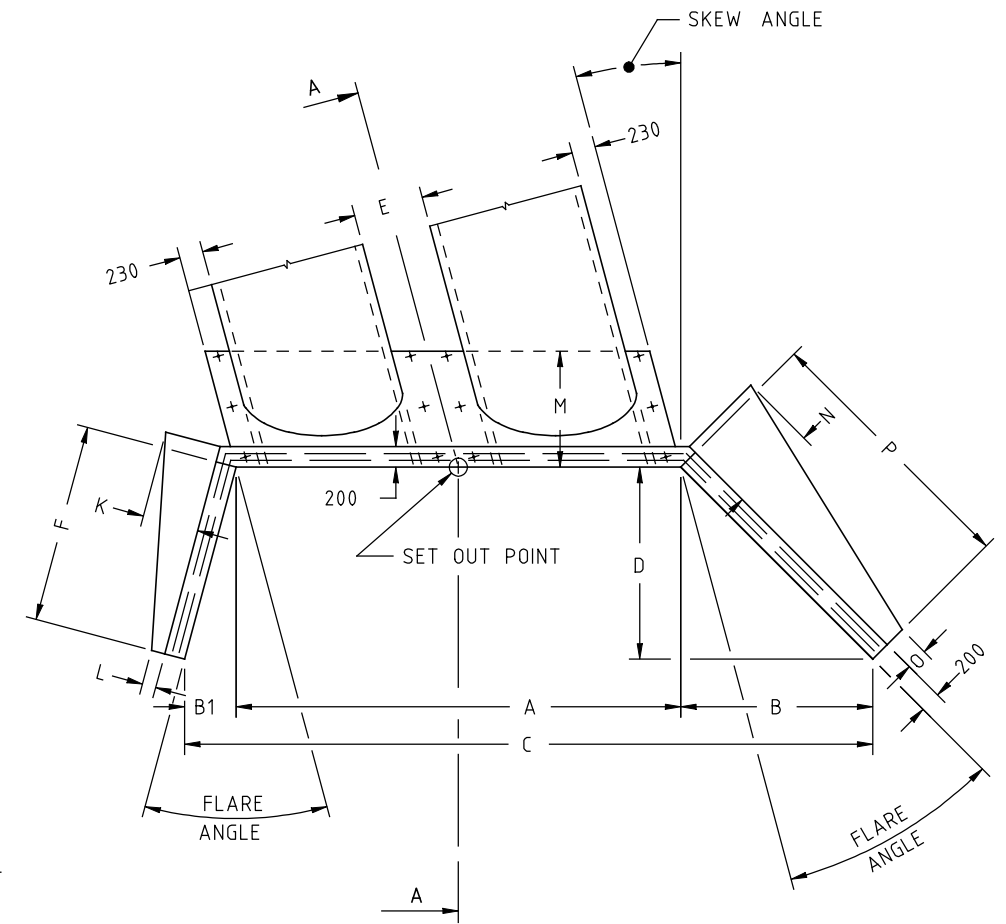
APPROXIMATE ONLY



SECTION A-A



END ELEVATION



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 1350 TO 2100 DIA				
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1911	C