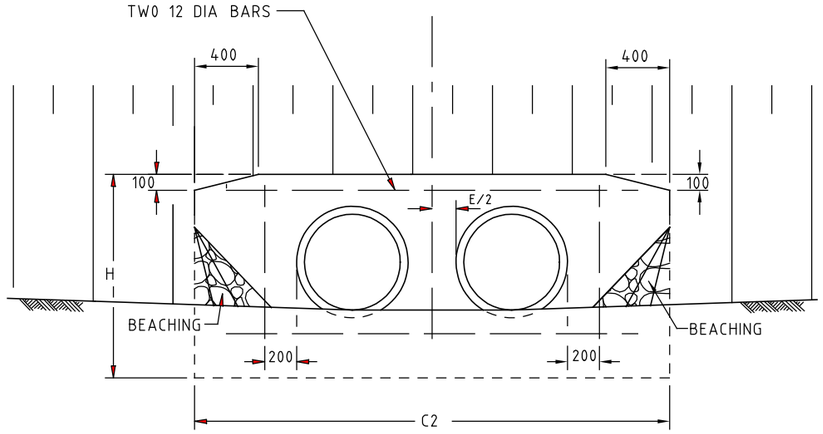
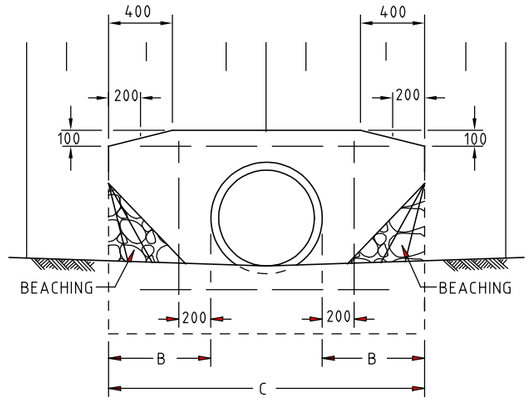


END ELEVATION

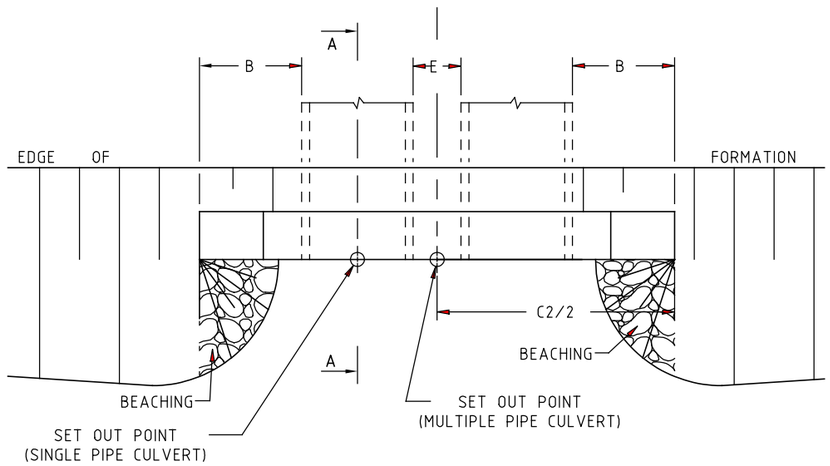


END ELEVATION

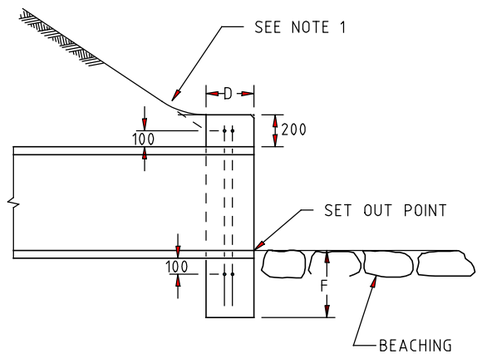
DIMENSIONS

NOM PIPE DIA	EXTERNAL PIPE DIA#	B	C	C2	D	E	F	H
600	698	640	1978	2976	300	300	420	1274
675	781	720	2221	3342	340	340	470	1403
750	864	760	2384	3628	380	380	500	1513
825	946	770	2486	3872	450	440	530	1622
900	1029	780	2589	4068	540	450	560	1732

APPROXIMATE ONLY



PLAN



SECTION A-A

NOTES:

1. 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.
2. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN, AND CLEAR COVER 50 MIN. BARS SHALL TERMINATE 50 FROM THE CONCRETE SURFACE.
3. EXPOSED CONCRETE EDGES SHALL HAVE 20 x 20 CHAMFER.
4. COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15 kPa. (1.5 TONNE VIBRATORY ROLLER).
5. REFER TO SD 1822 FOR QUANTITIES
6. 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.
7. REINFORCEMENT SHALL BE GRADE 400 Y COMPLYING WITH SECTION 611 OF VICROADS SPECIFICATION
8. CONCRETE AGGREGATES SHALL COMPLY WITH TABLE 701.021 OF VICROADS STANDARD SPECIFICATION SECTION 701.
9. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS 3600.

AMEND.	Appd.	Date	AMENDMENTS
E			
D			
C			
B	J.C.	1.2.98	AMENDMENT TO NOTE 6, NOTES 8 & 9 ADDED, CONCRETE STRENGTH GRADES
A	J.C.	1.7.95	BEACHING ADDED, NOTES 4, 5, 6 & 7, GENERAL NOTES 1 & 2, DIMENSION C2 ADDED

GENERAL NOTES / CROSS REFERENCES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. CULVERT INLET AND OUTLET STRUCTURES - SELECTION GUIDE SD 1700

vicroads

PRINCIPAL ROAD DESIGN ENGINEER'S DEPARTMENT

STANDARD DRAWING

MASS CONCRETE ENDWALL

PIPE CULVERTS 600 TO 900 DIA.

APPROVED	DATE	SPEC.REF.No.	SHEET No.	DRAWING No.	AMENDMENT
PRINCIPAL RD ENGINEER	1.2.95			SD 1821	B