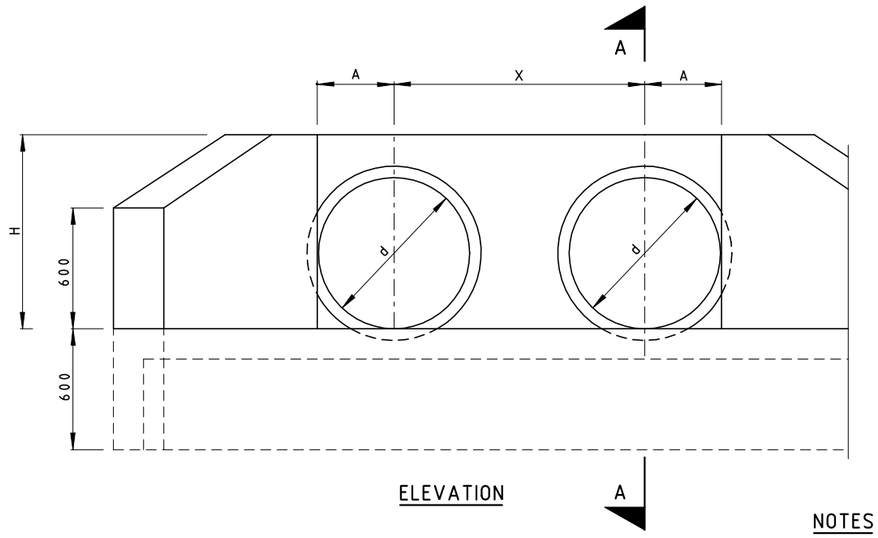
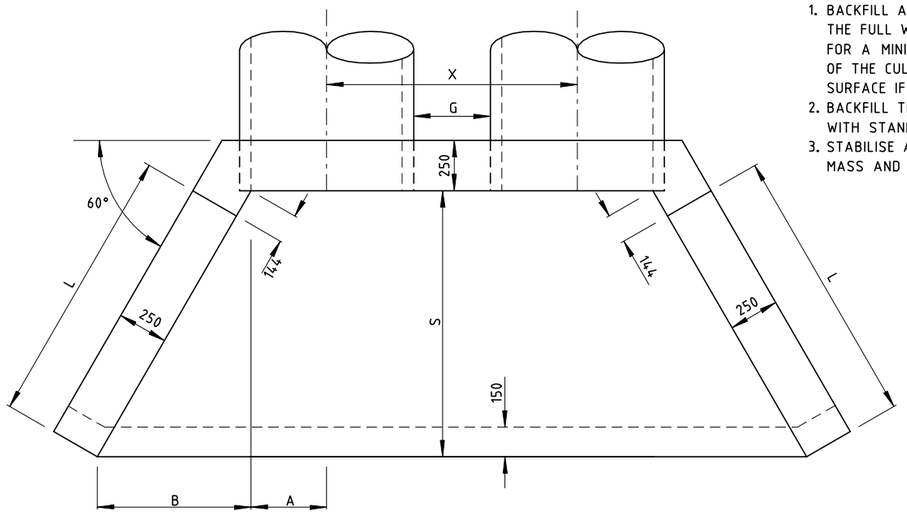
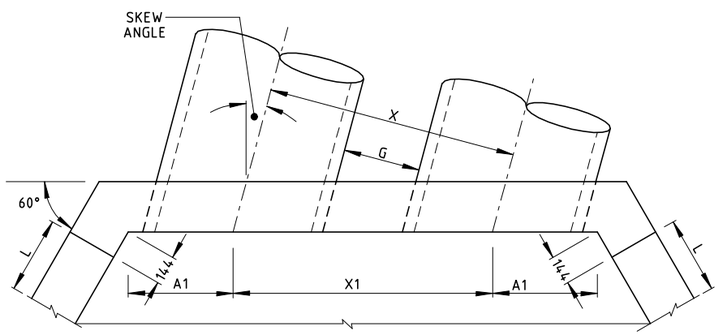


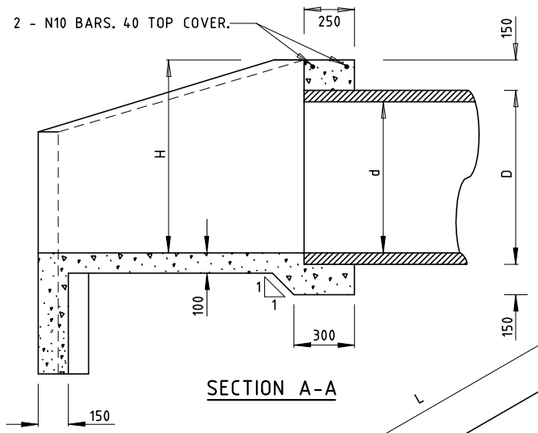
ELEVATION



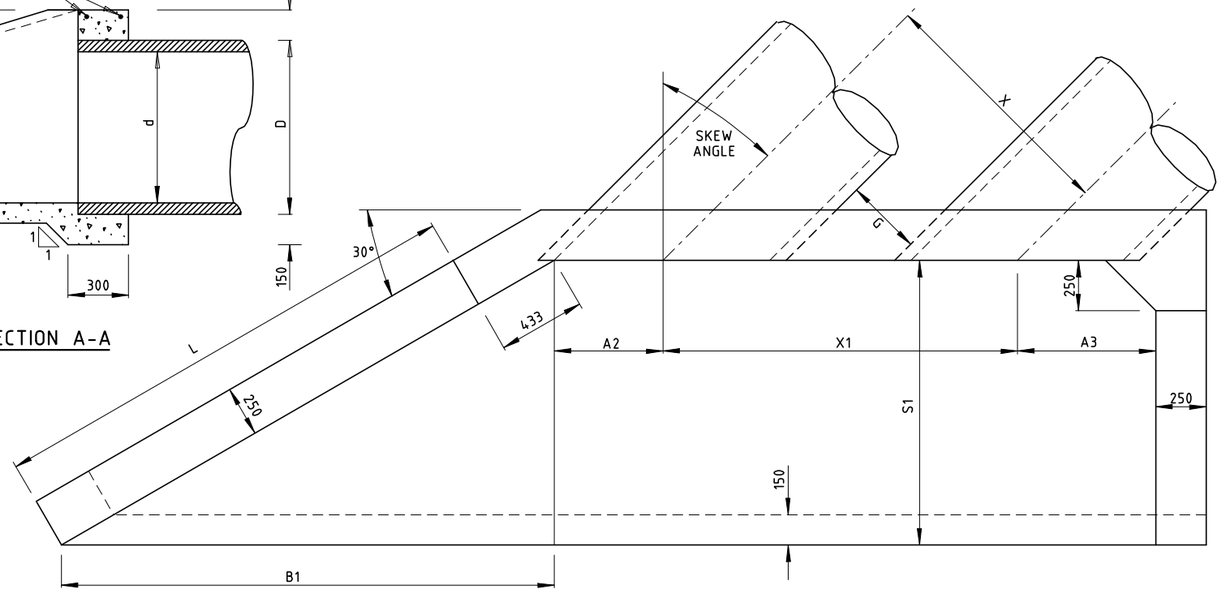
PLAN
SQUARE HEADWALL



PLAN
UP TO 30° SKEW



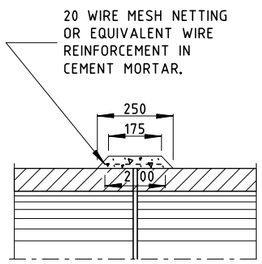
SECTION A-A



PLAN
35° TO 45° SKEW

NOTES

1. BACKFILL AROUND THE CULVERT FOR THE FULL WIDTH OF THE TRENCH, AND FOR A MINIMUM 300mm ABOVE THE TOP OF THE CULVERT, OR TO THE SUBGRADE SURFACE IF LESS, WITH SELECT FILL.
2. BACKFILL THE REMAINDER OF THE TRENCH WITH STANDARD FILL.
3. STABILISE ALL BACKFILL WITH 2% CEMENT BY MASS AND COMPACT TO 95% MMND.



BANDAGE JOINT
900 OR LARGER
SCALE 1:20 (A3)

SKEW 0°

NOMINAL PIPE SIZE "d"	D	H	A	X	G	L	B	S	Q	AC
600	699	849	305	1079	380					
750	864	963	381	1244	380	1380	762	1320	2.22	0.91
900	1029	1122	457	1409	380	1650	900	1558	2.85	1.14
1050	1194	1280	533	1574	380	1930	1038	1798	3.57	1.39
1200	1359	1439	609	1765	406	2203	1175	2035	4.35	1.68
1350	1524	1598	686	1981	457	2480	1312	2273	5.21	2.06
1500	1676	1750	762	2184	508	2740	1444	2501	6.11	2.44
1800	2007	2068	914	2617	610	3290	1719	2978	8.21	3.35
1950	2197	2239	991	2857	660	3590	1868	3235	9.46	3.94

SKEW 30°

NOMINAL PIPE SIZE "d"	D	H	A1	X1	G	L	B1	S1	Q	AC
600										
750	A	A	570	1436	A	A	A	A	2.54	1.06
900	S	S	670	1627	S	S	S	S	3.26	1.31
1050			764	1817					4.04	1.60
1200	F	F	860	2038	F	F	F	F	4.92	1.95
1350	0	0	950	2287	0	0	0	0	5.88	2.38
1500	R	R	1040	2522	R	R	R	R	6.86	2.82
1800			1233	3019					9.17	3.87
1950	0°	0°	1343	3299	0°	0°	0°	0°	10.61	4.54

SKEW 15°

NOMINAL PIPE SIZE "d"	D	H	A1	X1	G	L	B	S	Q	AC
600										
750	A	A	520	1288	A	A	A	A	2.48	0.95
900	S	S	610	1459	S	S	S	S	3.17	1.18
1050			690	1629					3.94	1.43
1200	F	F	780	1827	F	F	F	F	4.79	1.75
1350	0	0	860	2051	0	0	0	0	5.71	2.13
1500	R	R	940	2261	R	R	R	R	6.66	2.53
1800			1113	2709					8.91	3.47
1950	0°	0°	1210	2958	0°	0°	0°	0°	10.30	4.08

SKEW 45°

NOMINAL PIPE SIZE "d"	D	H	A2	A3	X1	G	L	B	S	Q	AC
600											
750	A	A	539	686	1759	A	2390	2445	1412	3.38	1.33
900	S	S	646	803	1993	S	2862	2850	1648	4.31	1.65
1050			754	919	2226		3341	3268	1887	5.35	2.00
1200	F	F	863	1036	2496	F	3816	3683	2127	6.49	2.44
1350	0	0	970	1153	2801	0	4292	4092	2362	7.74	2.96
1500	R	R	1078	1260	3089	R	4750	4489	2592	8.99	3.51
1800			1293	1494	3698		5700	5312	3067	12.05	4.81
1950	0°	0°	1402	1629	4040	0°	6216	5759	3327	13.88	5.64

Q= CUBIC METRES OF CONCRETE REQUIRED FOR TWO HEADWALLS FOR FIRST CELL.
AC= CUBIC METRES OF CONCRETE REQUIRED FOR EACH ADDITIONAL CELL.
ALL CONCRETE SHALL BE STRENGTH GRADE N25 TO AS3600.
ON ALL RCP CULVERTS OF GREATER DIAMETER THAN 900mm, 2No.10mm DIA. REINFORCING BARS SHALL BE INCORPORATED IN THE HEADWALL EXTENDING 1000mm INTO EACH WINGWALL.

● ALL BARS DENOTED " NXX " SHALL BE " D500NXX " TO AS4671.

No.	DESCRIPTION	DATE	INIT.
3.	NEW CADD FILE CREATED & NOTES UPDATED.	03/2004	K.S.
2.	DRAWING CONVERTED TO ELECTRONIC FORMAT & DEPARTMENT LOGO CHANGED	02/2003	K.S.
1.	STABILISED BACKFILL NOTES ADDED.	25/2/97	

AMENDMENTS

DRAWN I.B. DATE APRIL 1998	CHECKED D.G.B. 21 FEB. 1979 DATE		
DESIGNED DATE	CHECKED S. LACEY 21 FEB. 1979 DATE		
DESIGN PROJECT LEADER DATE 19 MAR. 2004	PROJECT OFFICER DATE 19 MAR. 2004		

Northern Territory Government
Department of Planning and Infrastructure

STANDARD DRAWING

HEADWALLS TO PIPE CULVERTS 750mm TO 1950mm DIAMETER

FILE No.	ASSET No.	SHEET No.	DRAWING No. AMEND.	SHEET SIZE
		1 OF 1	C(S)1103-3	A1

15/01/2007 4:20:48 PM X:\CIVIL STANDARD DRAWINGS\2 CULVERTS\(S)1103-3\(S)1103 - 3.dgn