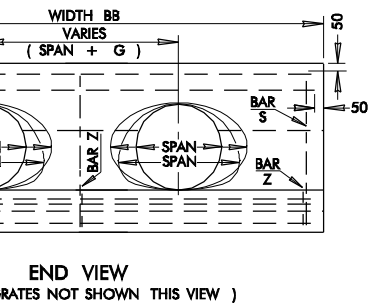
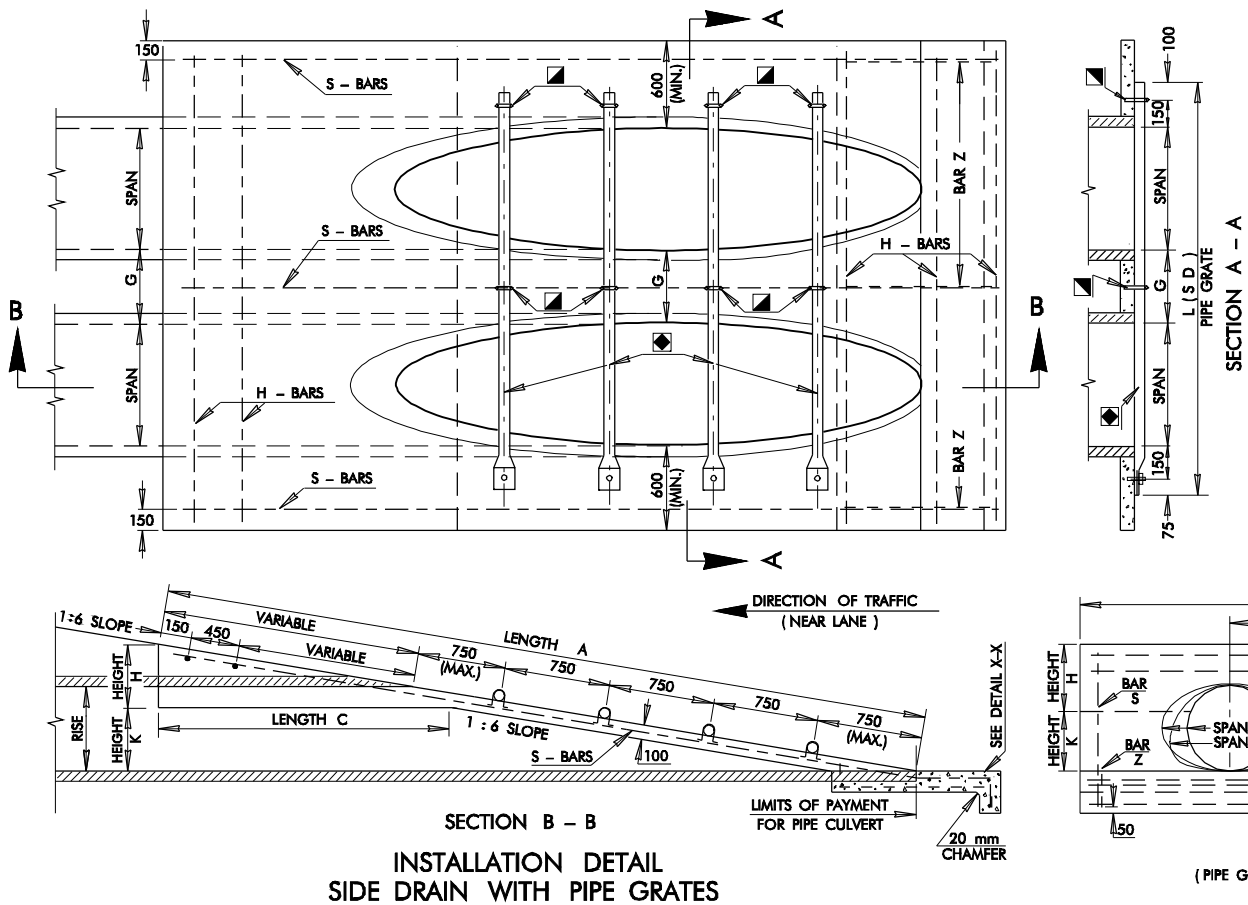
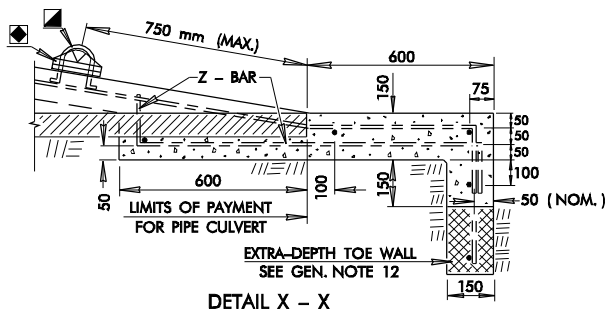
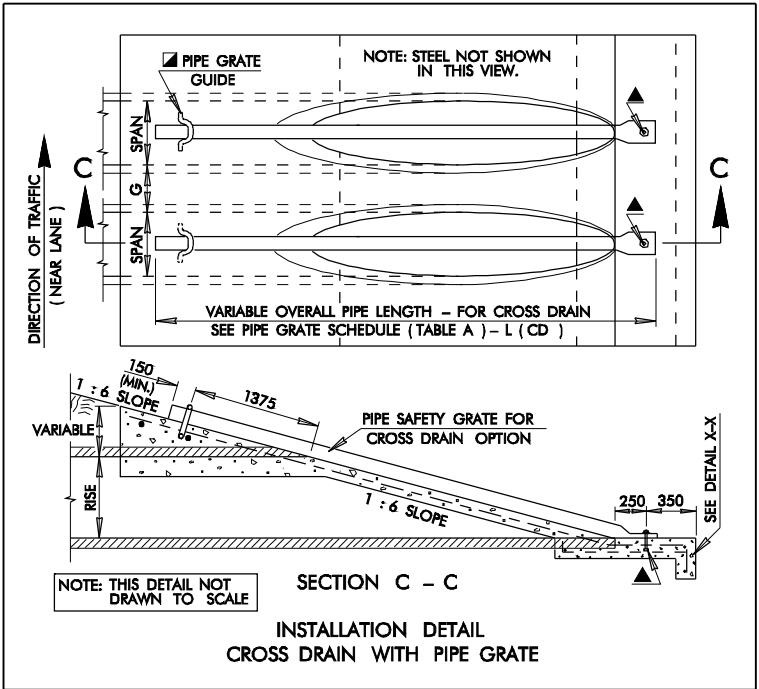


DOUBLE PIPE INSTALLATION – 1 TO 6 SAFETY SLOPE												
TABLE A – SCHEDULE OF PIPE SAFETY GRATES – AASHTO DESIGNATED PIPE SIZES (METRIC)												
C. E. T. DESIGN	EQUIV. ROUND DIAMETER		REINF. CONC. ROUND	REINF. CONC. ARCH PIPE	STEEL ARCH PIPE	ALUMINUM ARCH PIPE	REINF. CONC. ELLIPTICAL PIPE	SIDE DRAIN GRATES	CROSS DRAIN GRATES	G		
TYPE	mm	in.	mm	mm x mm	mm x mm	mm x mm	mm x mm	L (SD) mm	L (CD) mm	mm	mm	mm
AA6	450	18	450	3				1700	NONE			300
	450	18			560 x 345	2		1920	NONE			300
	450	18					510 x 380	2	510 x 380	2		300
	450	18									365 x 575	2
	525	21			660 x 395	2		2120	NONE			300
BB6	600	24	600	4				2000	NONE			300
	600	24			725 x 460	3		2205	NONE			300
	600	24					680 x 500	3	680 x 500	3		300
	600	24									490 x 770	3
	675	27						2340	2 @ 4870			300
CC6	750	30	750	5				2530	2 @ 5235			300
	750	30			920 x 570	4		2300	NONE			375
	750	30						2715	2 @ 5360			460
	750	30					610 x 1055	4	2795	2 @ 5600		325
	800	32					910 x 660	5	2695	2 @ 5920		325
DD6	825	33						2985	2 @ 5965			350
	900	36	900	7				2750	2 @ 7365			450
	900	36			1110 x 675	5		3095	2 @ 6000			375
	900	36					1030 x 740	5	2910	2 @ 6395		350
	900	36						3185	2 @ 6330			385
EE6	1000	39					1150 x 820	6	3185	2 @ 6940		385
	1050	42	1050	8				3125	2 @ 8275			525
	1050	42			1300 x 795	6		3265	2 @ 6725			435
	1050	42						3640	2 @ 7090			450
	1200	48	1200	9				3500	2 @ 9190			600
EE6	1200	48			1485 x 915	7		3970	2 @ 7455			500
	1200	48					1390 x 970	7	3745	2 @ 7790		465
	1200	48						4070	4 @ 7820			500
◆ NUMBER OF HORIZONTAL PIPE GRATES FOR SIDE DRAIN OPTIONS ● DIMENSIONS SHOWN AS RISE BY SPAN												



DOUBLE PIPE INSTALLATION – 1 TO 6 SAFETY SLOPE												
TABLE B – SCHEDULE OF DIMENSIONS FOR C. E. T. TYPES (METRIC)												
C.E.T. TYPE	LENGTH A	WIDTH BB	WIDTH BB	LENGTH C	HEIGHT H	HEIGHT K	CONC.	CONC.	STEEL LENGTH			
	m	m	m	m	mm	mm	m ³	m ³	H-BARS	H-BARS	S-BARS	m
AA6	4.55	2.40	2.62	2.55	525	225	2.62	2.95	2.30	2.52	5.24	
BB6	5.45	2.70	2.95	2.70	550	350	3.19	3.70	2.60	2.85	6.14	
CC6	7.00	3.10	3.45	3.30	650	500	4.90	5.81	3.00	3.35	6.98	
DD6	8.35	3.83	4.24	3.60	700	675	7.02	8.34	3.73	4.14	8.84	
EE6	9.10	4.20	4.70	3.90	750	750	8.22	10.12	4.10	4.60	9.74	

- ROUND SHAPE CULVERT OPTIONS
▲ ARCH SHAPE CULVERT OPTIONS
● HORIZONTAL ELLIPSE SHAPE CULVERT OPTIONS



TYPICAL ABBREVIATIONS	
RS	ROUND SIDE DRAIN
RC	ROUND CROSS DRAIN
AS	ARCH SIDE DRAIN
AC	ARCH CROSS DRAIN
GR	GRADED
NG	NON-GRADED

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
613.06(CC)	● CULVERT END TREATMENT	EACH

- SPECIFY TYPE OF END TREATMENT
(EXAMPLE: TYPE BB6 CULVERT END TREATMENT – NG)
- C. E. T. ORIENTATION AND SAFETY GRATE REQUIREMENTS SHALL BE SPECIFIED ON THE SUMMARY OF DRAINAGE STRUCTURES.
(SEE TYPICAL ABBREVIATIONS)

APPROVED BY ROADWAY ENGINEER		DATE	
OKLAHOMA DEPT. OF TRANSPORTATION ROADWAY STANDARD (METRIC) CULVERT END TREATMENT DOUBLE PIPE INSTALLATION 1 TO 6 SAFETY SLOPE			
1999 SPECIFICATIONS		CET6D-2	00M
ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED.			R-80DM