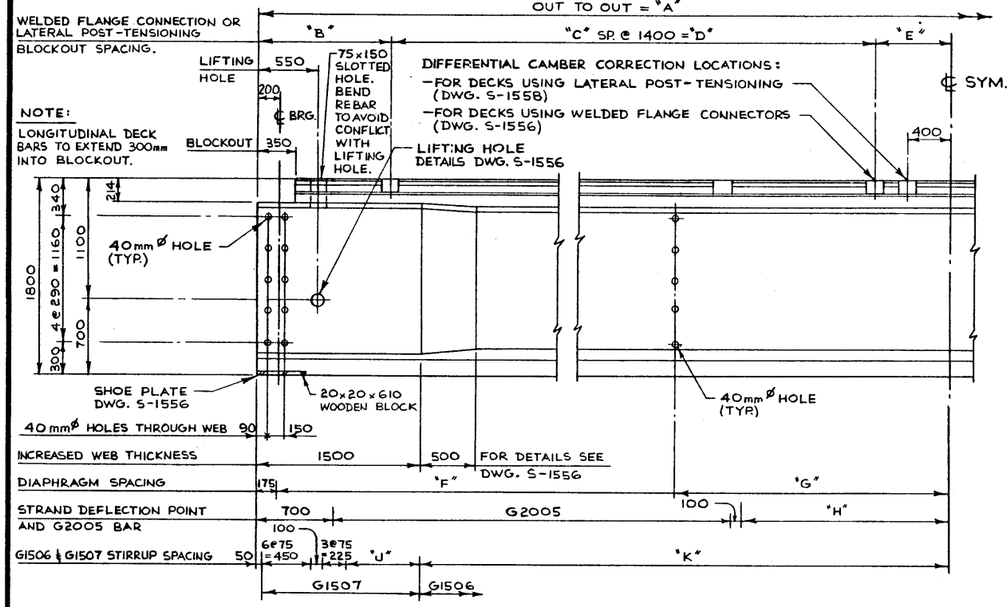
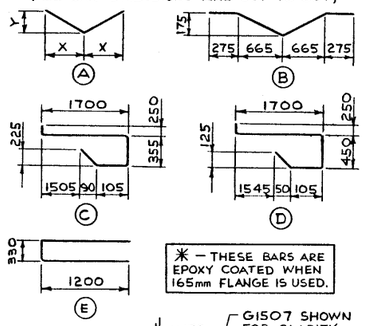


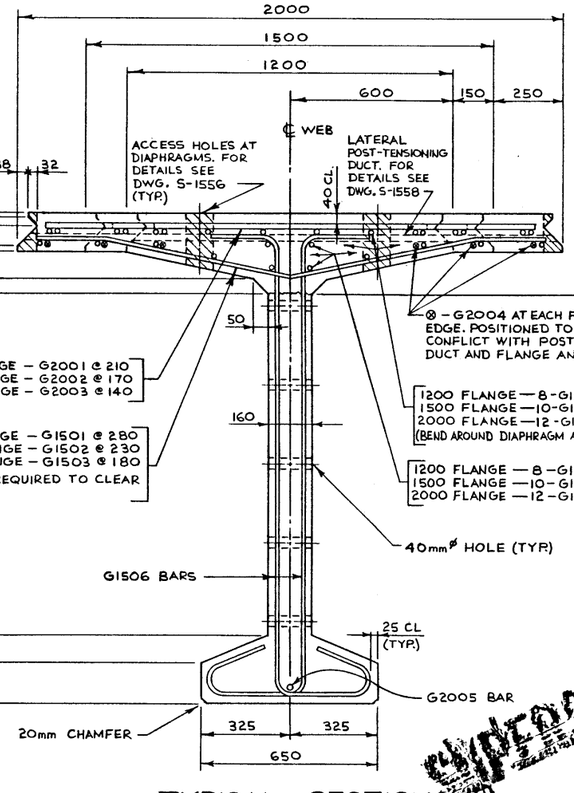
ELEVATION
1:25

BAR LIST: TYPICAL SQUARE GIRDER						
MARK	SIZE	TYPE	X	Y	FLANGE WIDTH	LENGTH
G1501	15	A	550	120	1200	1130
G1502	15	A	680	150	1500	1390
G1503	15	B			2000	1930
* G1504	15	STR			ALL FLANGES	
G1505	15	STR			ALL FLANGES	
G1506	15	C			ALL FLANGES	2650
G1507	15	D			ALL FLANGES	2640
G1508	15	E			ALL FLANGES	2730
* G2001	20	STR			1200	1000
* G2002	20	STR			1500	1300
* G2003	20	STR			2000	1800
G2004	20	STR			ALL FLANGES	
G2005	20	STR			ALL FLANGES	
G2006	20	STR			ALL FLANGES	1520

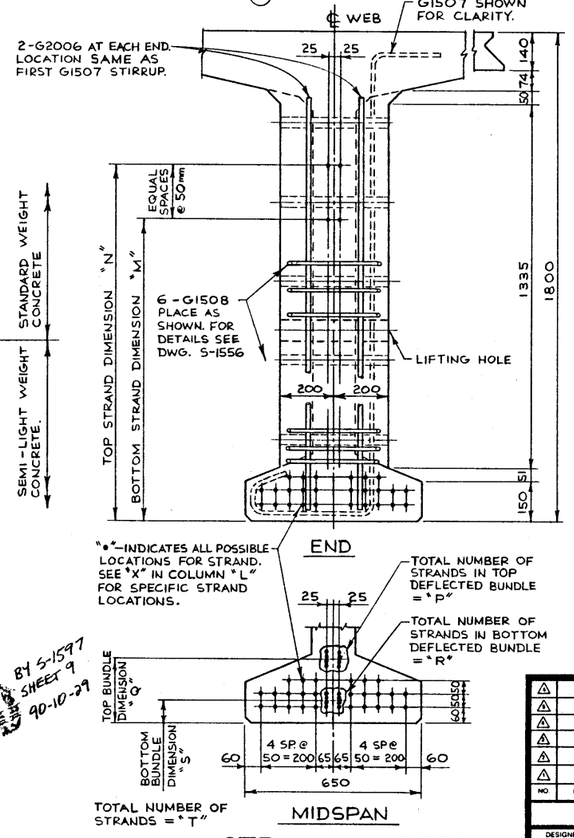
BAR TYPES
(ALL BAR DIMENSIONS ARE OUT TO OUT)



* - THESE BARS ARE EPOXY COATED WHEN 165mm FLANGE IS USED.



TYPICAL SECTION
1:10



STRAND PATTERN
1:10

	"A" (mm)	"D", "E"	"G"	"H"	"J" (END-INT)	"K" (# @ mm)	"L"	"P" @ "Q" "R" @ "S"	"T"	f'c RLSE 28dy MPa	RLSE FINAL STRAND FORCE (kN)	GIRDER MASS 140 mm 165 mm (t)	FLANGE (cm)	
DBT 1800x1200	42	700, 14, 19600,700	10325 10500	4500	(325, 300)	(350, 32 @ 600)	.x. xxxxx xxxxx	1060-1410 (16)	6 @ 208 10 @ 85	38	28 35	128.6 99.6	57.1 59.9	66/ 85 67/109	0.68
	40	1100, 13, 18200,700	9825 10000	4500	(325, 300)	(550, 30 @ 600)	.x. xxxxx xxxxx	1060-1360 (14)	4 @ 201 10 @ 85	36	28 35	128.6 99.6	54.6 57.3	63/ 87 62/105	0.68
	38	800, 12, 16800,1400	9325 9500	4500	(325, 300)	(350, 400, 28 @ 600)	... xxxxx xxxxx	1060-1310 (12)	2 @ 195 10 @ 85	32	28 35	128.6 101.3	52.1 54.6	54/ 77 51/ 86	0.68
	36	500, 12, 16800,700	11825 0	3500	(325, 300)	(350, 27 @ 600)	... xxxx. xxxxx	1110-1310 (10)	10 @ 85	28	28 35	128.6 103.2	49.2 51.6	40/ 56 39/ 65	0.69
	34	900, 11, 15400,700	11325 0	3500	(325, 300)	(550, 25 @ 600)	... xxx. xxxxx	1010-1210 (10)	10 @ 85	26	28 35	128.6 103.6	46.7 48.9	36/ 52 35/ 59	0.69
	32	1300, 10, 14000,700	10525 0	3500	(325, 300)	(350, 400, 23 @ 600)	... xxx. xxxxx	1160-1310 (8)	8 @ 79	24	28 35	128.6 104.2	44.1 46.3	29/ 42 28/ 47	0.70
	30	1000, 9, 12600,1400	9825 0	3500	(325, 300)	(350, 22 @ 600)	... xx. xxxxx	1060-1210 (8)	8 @ 79	22	28 35	128.6 104.8	41.6 43.7	26/ 40 25/ 45	0.70
	28	700, 9, 12600,700	9225 0	3500	(325, 300)	(550, 20 @ 600)	 xxxxx	1010-1160 (8)	8 @ 79	18	28 35	128.6 107.2	39.1 41.0	17/ 26 17/ 30	0.71
	26	1100, 8, 11200,700	8525 0	2500	(325, 300)	(350, 400, 18 @ 600)	 xxxxx	1210-1310 (6)	6 @ 73	16	28 35	128.6 108.3	36.6 38.4	13/ 19 11/ 19	0.71
	24	800, 7, 9800,1400	11825 NOT REQ'D	2500	(325, 300)	(350, 17 @ 600)	 xxxxx	1460-1510 (4)	4 @ 66	14	28 35	128.6 109.2	33.7 35.3	10/ 16 11/ 20	0.72
	22	500, 7, 9800,700	10825 NOT REQ'D	0	(325, 300)	(550, 15 @ 600)	 xxxxx	1410-1460 (4)	4 @ 66	14	28 35	128.6 108.2	31.2 32.7	9 / 14 9 / 17	0.73
	20	900, 6, 8400,700	9825 NOT REQ'D	0	(325, 300)	(350, 400, 13 @ 600)	..... xx.xx	1310-1360 (4)	4 @ 66	12	28 35	128.6 109.5	28.7 30.0	6 / 9 6 / 11	0.74
	18	1300, 5, 7000,700	8825 NOT REQ'D	0	(325, 300)	(350, 12 @ 600)	.... x..xx	1160-1210 (4)	4 @ 66	10	28 35	128.6 110.8	26.2 27.4	4 / 7 4 / 7	0.76
DBT 1800x1500	38	800, 12, 16800,1400	9325 9500	4500	(325, 300)	(350, 400, 28 @ 600)	.x. xxxxx xxxxx	1060-1360 (14)	4 @ 201 10 @ 85	36	28 35	128.6 99.3	57.2 60.4	59/ 84 57/ 98	0.80
	36	500, 12, 16800,700	11825 0	3500	(325, 300)	(350, 27 @ 600)	... xxxxx xxxxx	1010-1260 (12)	2 @ 195 10 @ 85	32	28 35	128.6 100.8	53.9 57.1	50/ 74 50/ 87	0.80
	34	900, 11, 15400,700	11325 0	3500	(325, 300)	(550, 25 @ 600)	... xxxxx xxxxx	1160-1360 (10)	10 @ 85	30	28 35	128.6 101.0	51.2 54.4	43/ 64 43/ 75	0.81
	32	1300, 10, 14000,700	10525 0	3500	(325, 300)	(350, 400, 23 @ 600)	... xxx. xxxxx	1110-1310 (10)	10 @ 85	26	28 35	128.6 103.1	48.4 51.7	33/ 50 32/ 55	0.81
	30	1000, 9, 12600,1400	9825 0	3500	(325, 300)	(350, 22 @ 600)	... xxx. xxxx	1160-1310 (8)	8 @ 79	24	28 35	128.6 103.7	45.7 49.0	28/ 44 27/ 49	0.82
	28	700, 9, 12600,700	9225 0	3500	(325, 300)	(550, 20 @ 600)	... xx.. xxxxx	1060-1210 (8)	8 @ 79	22	28 35	128.6 104.3	43.0 46.3	24/ 37 23/ 42	0.83
	26	1100, 8, 11200,700	8525 0	2500	(325, 300)	(350, 400, 18 @ 600)	 xxxx	910-1060 (8)	8 @ 79	18	28 35	128.6 106.7	40.3 43.6	15/ 23 15/ 27	0.83
	24	800, 7, 9800,1400	11825 NOT REQ'D	2500	(325, 300)	(350, 17 @ 600)	 xxxxx	1110-1210 (6)	6 @ 73	16	28 35	128.6 107.6	37.0 40.2	13/ 22 13/ 24	0.84
	22	500, 7, 9800,700	10825 NOT REQ'D	2500	(325, 300)	(550, 15 @ 600)	 xxxxx	1410-1460 (4)	4 @ 66	14	28 35	128.6 108.6	34.3 37.5	10/ 16 9 / 17	0.85
	20	900, 6, 8400,700	9825 NOT REQ'D	2500	(325, 300)	(350, 400, 13 @ 600)	..... xx.xx	1260-1310 (4)	4 @ 66	12	28 35	128.6 109.8	31.6 34.8	6 / 9 5 / 9	0.87
	18	1300, 5, 7000,700	8825 NOT REQ'D	0	(325, 300)	(350, 12 @ 600)	..... xx.xx	1260-1310 (4)	4 @ 201	12	28 35	128.6 109.6	28.9 32.1	5 / 9 5 / 9	0.88
	16	1000, 4, 5600,1400	7825 NOT REQ'D	0	(175, 200 , 250)	(2 @ 200, 400, 450 , 2 @ 550, 7 @ 600)	.x. x..x x...x	1260- 1310 (4)	4 @ 300	12	28 35	128.6 109.6	26.1 29.4	5 / 10 5 / 10	0.90
	14	700, 4, 5600,700	6825 NOT REQ'D	0	(175, 200 , 250)	(2 @ 250, 300, 550 , 7 @ 600)	....	2 @1060 360-510 (10)	DEFLECT TOP 2 STRANDS ONLY* 360-510, 660*	12	28 35	128.6 111.9	23.4 26.7	5 / 10 5 / 10	0.93
DBT 1800x2000	32	1300, 10, 14000,700	10525 0	3500	(175, 200 , 250)	(6 @ 300, 450, 3 @ 500, 18 @ 600)	... xxxxx xxxxx	1060-1310 (12)	2 @ 195 10 @ 85	32	28 35	128.6 99.3	55.9 59.5	46/ 74 43/ 79	1.01
	30	1000, 9, 12600,1400	9825 0	3500	(175, 200 , 250)	(5 @ 300, 3 @ 450, 500, 17 @ 600)	... xxxx. xxxxx	1110-1310 (10)	10 @ 85	28	28 35	128.6 101.2	52.8 56.5	35/ 56 31/ 63	1.02
	28	700, 9, 12600,700	9225 0	3500	(175, 200 , 250)	(5 @ 300, 450, 2 @ 500, 16 @ 600)	... .xxx. xxxxx	1060-1260 (10)	10 @ 85	26	28 35	128.6 101.6	49.8 53.4	30/ 49 29/ 54	1.03
	26	1100, 8, 11200,700	8525 0	2500	(175, 200 , 250)	(2 @ 300, 350, 4 @ 400, 15 @ 600)	... .xx.. xxxxx	1160-1310 (8)	8 @ 79	22	28 35	128.6 104.0	46.7 50.4	21/ 35 20/ 37	1.04
	24	800, 7, 9800,1400	11825 NOT REQ'D	0	(175, 200 , 250)	(4 @ 300, 450, 500 , 14 @ 600)	... .x.. xxxxx	1060-1210 (8)	8 @ 79	20	28 35	128.6 104.5	42.7 46.3	16/ 25 16/ 30	1.05
	22	500, 7, 9800,700	10825 NOT REQ'D	0	(175, 200 , 250)	(5 @ 300, 350, 500 , 12 @ 600)	 xxxxx	960-1210 (8)	8 @ 79	18	28 35	128.6 105.3	39.6 43.3	12/ 20 11/ 20	1.07
	20	900, 6, 8400,700	9825 NOT REQ'D	0	(175, 200 , 250)	(4 @ 300, 350, 400 , 11 @ 600)	.... xx.xx	860-1010 (8)	8 @ 135	16	28 35	128.6 106.0	36.5 40.2	10/ 17 9 / 19	1.09
	18	1300, 5, 7000,700	8825 NOT REQ'D	0	(175, 200 , 250)	(4 @ 300, 350, 10 @ 600)	.... xx.xx	1010-1110 (6)	6 @ 220	14	28 35	128.6 108.1	33.4 37.1	8 / 15 7 / 15	1.11
	16	1000, 4, 5600,1400	7825 NOT REQ'D	0	(175, 200 , 250)	(3 @ 300, 400, 450, 8 @ 600)	... ..x.. x...x	860- 910 2 @ 760 (6)	6 @ 240	12	28 35	128.6 109.8	30.5 34.1	5 / 10 5 / 10	1.13
	14	700, 4, 5600,700	6825 NOT REQ'D	0	(175, 200 , 250)	(3 @ 300, 450, 7 @ 600)	... ..x.. x...x	1060-1110 (4)	4 @ 250	10	28 35	128.7 99.6	27.4 31.1	3 / 6 3 / 6	1.16
	12	1100, 3, 4200,700	NOT REQ'D NOT REQ'D	0	(175, 200 , 250)	(5 @ 250, 300, 5 @ 600)	.x. ..... x...x	1060-1110 (4)	4 @ 475	10	28 35	128.7 100.6	23.4 27.1	3 / 5 2 / 4	1.19
	10	800, 2, 2800,1400	NOT REQ'D NOT REQ'D	0	(175, 3 @ 150')	(2 @ 250, 2 @ 275, 2 @ 300, 2 @ 450, 2 @ 500)	.x. ..... x...x	2 @ 1160 510-560 (6)	DEFLECT TOP 2 STRANDS ONLY* 510-560, 710*	10	28 35	109.3 96.0	20.4 24.1	3 / 5 2 / 4	1.21

SUPERSEDED BY S-1597 SHEET 9 90-10-29

SUPERSEDED 12

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

REVISIONS

APPROVED
CHIEF BRIDGE ENGINEER
DATE FEB 08 1984

Alberta TRANSPORTATION
BRIDGE AND STRUCTURAL ENGINEERING BRANCH
METRIC

DBT 1800 SERIES STANDARD INTERIOR GIRDER DATA SHEET

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HWY NO	SCALE	FILE NO	SHEET	DWG NO
B.L.C.	W. S.	83-12-01						SHOWN		OF	S-1553

AT A.I.U. - RECORDS CENTRE F3041(B)