TABLE 1 – GIRDER DEPTH (mm)				
SPAN (m)	L–75	L–100	L–150	L–165
10	500	500	500	600
11	500	500	500	600
12	500	500	600	600
13	500	500	600	600
14	500	500	600	700
15	600	600	700	700
16	600	600	700	700
17	600	600	700	
18	600	700		

TABLE 2 – SIZE & NUMBER OF OPEN STIRRUPS/SECTION					
SPAN (m)	STIRRUP ZONE	L–75	L–100	L–150	L–165
10	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
11	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
12	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
13	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
14	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
15	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
16	ZONE A	–	1–10M	2–15M	2–15M
	ZONE B	–	–	1–15M	1–15M
17	ZONE A	–	–	2–15M	
	ZONE B	–	–	1–15M	
18	ZONE A	–	–		
	ZONE B	–	1–10M		

TABLE 8 – GIRDER 28 DAY CONCRETE STRENGTH				
SPAN (m)	L–75	L–100	L–150	L–165
10	40	40	40	40
11	40	40	40	40
12	40	40	40	40
13	40	40	40	45
14	40	45	45	40
15	40	40	40	45
16	40	40	40	50
17	40	45	45	
18	45	40		

ASSUME NOT TO SCALE

TABLE 3 – L–75 TRUCK						
SPAN (m)	NO. OF STRANDS	TOP/BOTTOM BARS	STIRRUP SPACING		GIRDER WEIGHT (kg)	
			ZONE A	ZONE B	4300 WIDE	4900 WIDE
10	13	5–20M	250	290	9050	9800
11	16	5–20M	250	290	9880	10700
12	18	5–20M	250	270	10710	11590
13	20	5–20M	250	260	11550	12490
14	23	5–20M	250	250	12380	13390
15	21	6–20M	210	210	14630	15730
16	23	6–20M	250	250	15550	16710
17	26	6–20M	250	250	16460	17690
18	29	6–20M	190	190	17380	18670

TABLE 4 – L–100 TRUCK						
SPAN (m)	NO. OF STRANDS	TOP/BOTTOM BARS	STIRRUP SPACING		GIRDER WEIGHT (kg)	
			ZONE A	ZONE B	4300 WIDE	4900 WIDE
10	16	6–20M	200	250	9050	9800
11	18	6–20M	200	230	9880	10700
12	21	6–20M	190	220	10710	11590
13	24	6–20M	190	220	11550	12490
14	27	6–20M	190	220	12380	13390
15	24	6–20M	250	250	14630	15730
16	27	6–20M	250	250	15550	16710
17	30	6–20M	170	170	16460	17690
18	29	7–20M	200	200	19040	20360

TABLE 5 – L–150 TRUCK						
SPAN (m)	NO. OF STRANDS	TOP/BOTTOM BARS	STIRRUP SPACING		GIRDER WEIGHT (kg)	
			ZONE A	ZONE B	4300 WIDE	4900 WIDE
10	22	6–20M	180	180	9050	9800
11	25	6–20M	180	180	9880	10700
12	23	6–20M	230	230	11880	12790
13	26	6–20M	230	230	12800	13770
14	29	6–20M	230	230	13720	14750
15	27	7–20M	200	200	16050	17170
16	30	7–20M	200	200	17050	18240
17	33	5–25M	200	200	18040	19300

TABLE 6 – L–165 TRUCK						
SPAN (m)	NO. OF STRANDS	TOP/BOTTOM BARS	STIRRUP SPACING		GIRDER WEIGHT (kg)	
			ZONE A	ZONE B	4300 WIDE	4900 WIDE
10	22	6–20M	170	170	10230	11010
11	25	6–20M	170	170	11170	12000
12	28	6–20M	170	170	12100	13000
13	31	6–20M	170	170	13000	14000
14	29	7–20M	200	280	15300	16360
15	32	5–25M	200	200	16320	17440
16	36	5–25M	190	190	17330	18520

NOTE: TOP/BOTTOM BARS IN TABLES 3–6 ARE NUMBER AND SIZE OF BARS IN EACH FLANGE

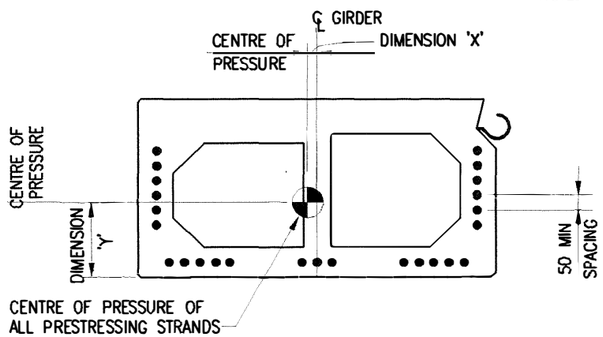

TABLE 7 – LOCATION OF PRESTRESS CENTRE OF PRESSURE (mm)					
GIRDER DEPTH (mm)	BTM FLANGE THK (mm)	EXTERIOR GIRDER		INTERIOR GIRDER	
		'X'	'Y'	'X'	'Y'
500	90	7	153	0	149
600	90	7	177	0	172
700	90	6	201	0	197
700	100	6	199	0	194

PRESTRESS STRAND LAYOUT

Rev	Date	Description	Init

ISSUE RECORD

SCALE

DESIGNED GWT DATE MAR/99
CHECKED GWT DATE MAR/99
DRAWN DG DATE MAR/99

Rev	Date	Description	Init

REVISIONS

Province of British Columbia
MINISTRY OF FORESTS
RESOURCE TENURES AND ENGINEERING BRANCH

STANDARD BRIDGE DRAWING

PRECAST PRESTRESSED CONCRETE BOX GIRDERS
GIRDER DETAILS – SHEET 2

ORIGINAL SIGNED AND SEALED BY: GRAHAM W. TAYLOR, P.ENG.
DESIGN ENGINEER GRAHAM W. TAYLOR, P.ENG.
DATE
FILE No.

APPROVED BY: June/94
MOF ENGINEER
DATE
DRAWING No. STD–E– 060–03 A

CANCEL PRINTS BEARING PREVIOUS LETTER