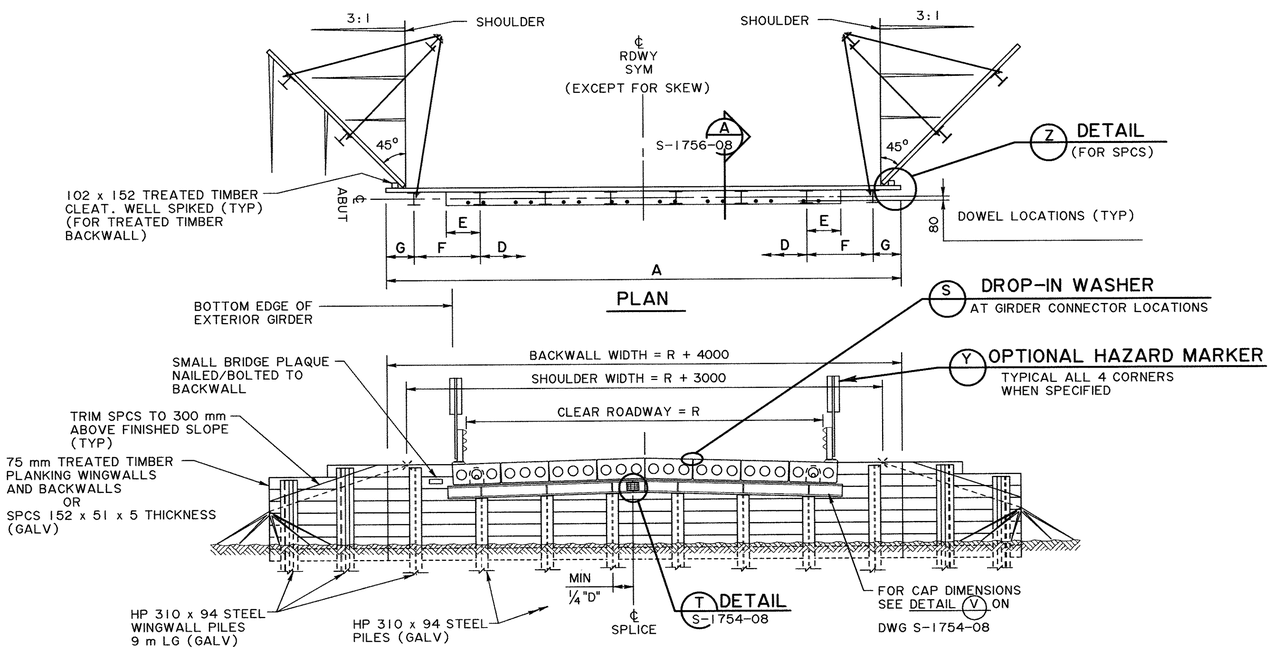
DATA FOR STANDARD SL PRECAST GIRDER BRIDGES - ABUTMENTS

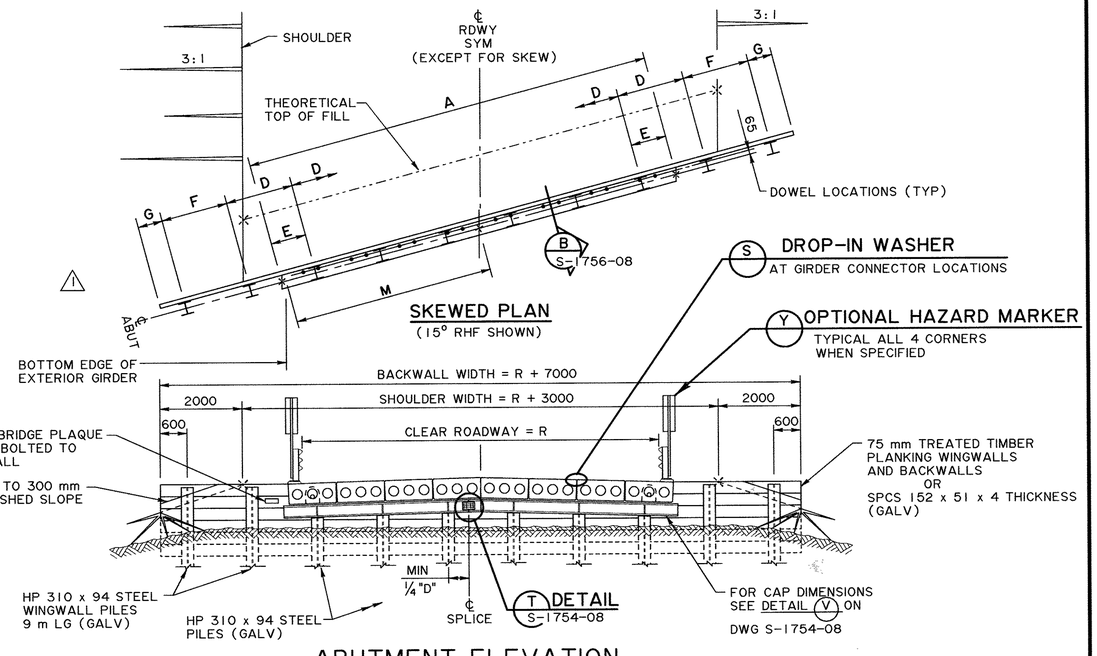
CLEAR ROADWAY (GIRDERS / SPAN)		R	8 940 (8)					10 160 (9)					11 370 (10)					12 590 (11)					13 810 (12)					15 020 (13)				
GENERAL	ABUTMENT TYPE		BACKWALL	SPILL THROUGH				BACKWALL	SPILL THROUGH				BACKWALL	SPILL THROUGH				BACKWALL	SPILL THROUGH				BACKWALL	SPILL THROUGH				BACKWALL	SPILL THROUGH			
	SKEW		0°	0°	15°	30°	45°	0°	0°	15°	30°	45°	0°	0°	15°	30°	45°	0°	0°	15°	30°	45°	0°	0°	15°	30°	45°	0°	0°	15°	30°	45°
	OVERALL LENGTH	A	12 740	9 920	10 270	11 455	14 029	13 960	11 140	11 533	12 863	15 754	15 170	12 350	12 786	14 261	17 466	16 390	13 570	14 049	15 669	19 191	17 610	14 790	15 312	17 078	20 916	18 820	16 000	16 564	18 475	22 627
	CROWN	B	127	99	99	99	99	140	111	111	111	111	152	124	124	124	124	164	136	136	136	136	176	148	148	148	148	188	160	160	160	160
	DIFFERENTIAL FOR ROADWAY GRADE OF 1%	C	0	0	27	57	99	0	0	30	64	111	0	0	33	71	124	0	0	36	78	136	0	0	40	85	148	0	0	43	92	160
	DIFFERENTIAL FOR ROADWAY GRADE OF 2%	C	0	0	53	115	198	0	0	60	129	223	0	0	66	143	247	0	0	73	157	271	0	0	79	171	296	0	0	86	185	320
	DIFFERENTIAL FOR ROADWAY GRADE OF 3%	C	0	0	80	172	298	0	0	90	193	334	0	0	99	214	371	0	0	109	235	407	0	0	119	256	444	0	0	129	277	480
PILES	NUMBER - LOAD BEARING		6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10
	SPACING	D	1 642	1 642	1 700	1 896	2 322	1 572	1 572	1 627	1 815	2 223	1 520	1 520	1 574	1 755	2 150	1 482	1 482	1 534	1 711	2 096	1 635	1 635	1 693	1 888	2 312	1 588	1 588	1 644	1 834	2 246
	END DISTANCES	E	855	855	885	987	1 209	855	855	885	987	1 209	855	855	885	987	1 209	855	855	885	987	1 209	855	855	885	987	1 209	855	855	885	987	1 209
	WINGWALL PILE LOCATION	F	1 665	1 623	1 680	1 874	2 295	1 664	1 693	1 753	1 955	2 394	1 665	1 745	1 807	2 015	2 468	1 667	1 783	1 846	2 059	2 522	1 665	1 630	1 688	1 882	2 305	1 664	1 677	1 736	1 936	2 372
	WINGWALL PROJECTION	G	600	600	621	693	849	600	600	621	693	849	600	600	621	693	849	600	600	621	693	849	600	600	621	693	849	600	600	621	693	849
NUMBER OF DOWELS PER LINE			16	16	16	16	16	18	18	18	18	18	20	20	20	20	20	22	22	22	22	22	24	24	24	24	24	26	26	26	26	26
EXTERIOR GIRDER LOCATION FROM ℄ BRIDGE		M	4 859	4 859	5 030	5 611	6 872	5 467	5 467	5 660	6 313	7 732	6 075	6 075	6 289	7 015	8 591	6 683	6 683	6 919	7 717	9 451	7 291	7 291	7 548	8 419	10 311	7 899	7 899	8 178	9 121	11 171



ABUTMENT ELEVATION

BACKWALL TYPE 1:75

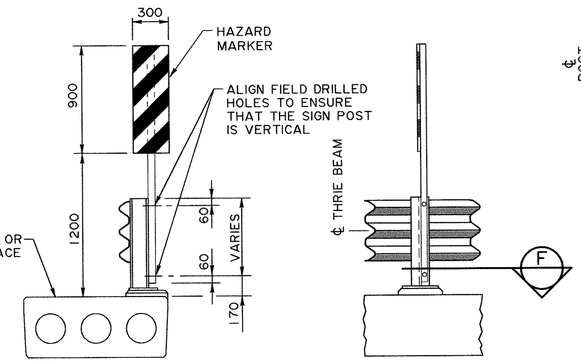
(TREATED TIMBER PLANKING SHOWN SPCS SIMILAR)



ABUTMENT ELEVATION

SPILL-THROUGH TYPE 1:75

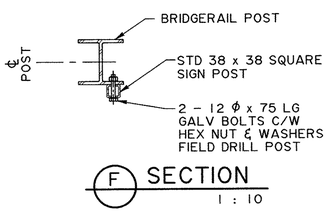
(TREATED TIMBER PLANKING SHOWN SPCS SIMILAR)



Y OPTIONAL HAZARD MARKER

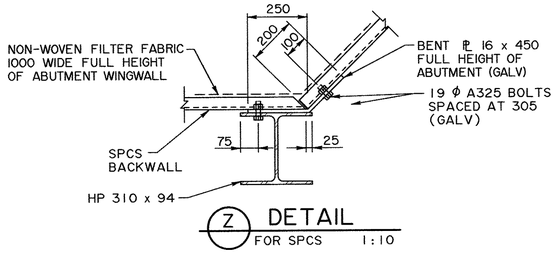
S-1753-08
S-1755-08

1:25



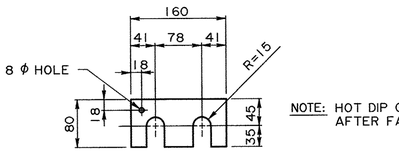
F SECTION

1 : 10



Z DETAIL

FOR SPCS 1:10



NOTE: HOT DIP GALVANIZE AFTER FABRICATION

S DROP-IN WASHER

S-1754-08
S-1755-08

1:5

FOR SL-510 GIRDER TO GIRDER CONNECTIONS IN 2 mm AND 4 mm THICKNESSES USE WITH 2 - 19 ϕ A325 BOLTS (GALV)

MOST Engineering (2001) Ltd.

PERMIT TO PRACTICE
MOST ENGINEERING (2001) LTD.
Signature
Date
PERMIT NUMBER: P 8859
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

DESIGNER — PROFESSIONAL ENGINEER ALBERTA — W. POLANICA — DATE

CHECKER — PROFESSIONAL ENGINEER ALBERTA — ATIF F. SHAKER — DATE

REV	DATE	REVISIONS	BY
6			
5			
4			
3			
2			
1	2006-07-15	DIMENSION REMOVED	CM

RECOMMENDED DIRECTOR BRIDGE ENGINEERING
ORIGINAL SIGNED BY TOM LOO

APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH
ORIGINAL SIGNED BY ALLAN KWAN
DATE FEB 15, 2007

Alberta Transportation

SL PRECAST GIRDER BRIDGES WITH STEEL SUBSTRUCTURES SHEET 3

AT BAR CODE	DATE	SHEET	DRAWING
	2008-08-18	3 OF 4	S-1755-08