

EXTERIOR GIRDER 1B MOMENT TABLE (S.N. 082-0325 - Unit 3)								
	0.4 Sp. 8	Pier 8	0.5 Sp. 9	Pier 9	0.5 Sp. 10	Pier 10	0.6 Sp. 11	
I_s	(in ⁴)	76,491	136,939	76,491	190,741	94,947	190,741	76,491
$I_c(n)$	(in ⁴)	153,886	150,770	153,886	204,732	180,289	204,732	153,886
$I_c(3n)$	(in ⁴)	114,884	150,770	114,884	204,732	135,205	204,732	114,884
S_s	(in ³)	1,866	3,260	1,866	4,541	2,316	4,541	1,866
$S_c(n)$	(in ³)	2,434	3,388	2,434	4,654	2,962	4,654	2,434
$S_c(3n)$	(in ³)	2,208	3,388	2,208	4,654	2,683	4,654	2,208
S_{xl}	(in ³)	42.67	85.33	42.67	192.00	66.67	192.00	42.67
DC1	(k/')	1.07	1.22	1.07	1.33	1.14	1.33	1.07
M_{DC1}	(k)	1,001	2,167	609	5,684	2,589	5,649	575
DC2	(k/')	0.26	0.26	0.26	0.26	0.26	0.26	0.26
M_{DC2}	(k)	238	526	197	913	380	892	198
DW	(k/')	0.27	0.27	0.27	0.27	0.27	0.27	0.27
M_{DW}	(k)	289	578	188	1,495	780	1,478	176
M_{LL+IM}	(k)	2,070	2,885	2,464	4,207	3,240	4,203	2,496
M_u (Strength I)	(k)	5,605	9,282	5,602	17,851	10,551	17,749	5,598
M_{bl}	(k)	8.69	14.02	4.10	26.42	16.02	27.05	4.13
f_s DC1	(ksi)	6.44	7.98	3.92	15.02	13.42	14.93	3.70
f_s DC2	(ksi)	1.29	1.86	1.07	2.35	1.70	2.30	1.08
f_s DW	(ksi)	1.57	2.05	1.02	3.85	3.49	3.81	0.96
f_s 1.3(LL+IM)	(ksi)	13.27	13.28	15.79	14.10	17.06	14.09	16.00
f_l	(ksi)	2.44	1.97	1.15	1.65	2.88	1.69	1.16
f_s (Service II)	(ksi)	22.57	25.17	21.80	35.33	35.67	35.13	21.73
f_s (Total)(Strength I)	(ksi)	29.88	33.25	29.03	46.48	47.10	46.21	28.94
F_{cr} (Service II)	(ksi)	47.50	46.64*	47.50	47.50	47.50	47.50	47.50
V_f	(k)	63.52	93.22	65.19	96.94	81.82	118.37	64.47
F_{cr}	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00

*Governed by web bend buckling (AASHTO Eq. 6.10.4.2.2-4).

INTERIOR GIRDER 7B MOMENT TABLE (S.N. 082-0325 - Unit 3)								
	0.4 Sp. 8	Pier 8	0.5 Sp. 9	Pier 9	0.5 Sp. 10	Pier 10	0.6 Sp. 11	
I_s	(in ⁴)	76,491	136,939	76,491	190,741	94,947	190,741	76,491
$I_c(n)$	(in ⁴)	156,703	151,173	153,445	203,874	174,252	202,238	153,501
$I_c(3n)$	(in ⁴)	116,996	151,173	114,560	203,874	131,295	202,238	114,601
S_s	(in ³)	1,866	3,260	1,866	4,541	2,316	4,541	1,866
$S_c(n)$	(in ³)	2,447	3,392	2,432	4,647	2,930	4,634	2,432
$S_c(3n)$	(in ³)	2,222	3,392	2,205	4,647	2,654	4,634	2,206
S_{xl}	(in ³)	42.67	85.33	42.67	192.00	66.67	192.00	42.67
DC1	(k/')	1.10	1.21	1.04	1.26	1.02	1.18	1.04
M_{DC1}	(k)	1,090	2,050	521	4,957	2,424	4,838	300
DC2	(k/')	0.00	0.00	0.00	0.00	0.00	0.00	0.26
M_{DC2}	(k)	0	0	0	353	249	498	88
DW	(k/')	0.38	0.36	0.35	0.33	0.31	0.29	0.35
M_{DW}	(k)	404	677	212	1,374	735	1,272	125
M_{LL+IM}	(k)	1,953	2,602	2,137	3,653	2,695	3,372	2,449
M_u (Strength I)	(k)	5,386	8,132	4,709	15,091	9,160	14,479	4,958
M_{bl}	(k)	8.35	13.44	3.64	23.55	14.32	22.93	4.13
f_s DC1	(ksi)	7.01	7.54	3.35	13.10	12.56	12.78	1.93
f_s DC2	(ksi)	0.00	0.00	0.00	0.91	1.13	1.29	0.48
f_s DW	(ksi)	2.18	2.40	1.15	3.55	3.32	3.29	0.68
f_s 1.3(LL+IM)	(ksi)	12.45	11.97	13.71	12.26	14.35	11.35	15.71
f_l	(ksi)	2.35	1.89	1.02	1.47	2.58	1.43	1.16
f_s (Service II)	(ksi)	21.64	21.91	18.21	29.82	31.36	28.72	18.80
f_s (Total)(Strength I)	(ksi)	28.79	29.13	24.37	39.34	41.41	37.81	25.18
F_{cr} (Service II)	(ksi)	47.50	46.61*	47.50	47.50	47.50	47.50	47.50
V_f	(k)	64.42	102.87	79.27	101.88	76.74	104.34	72.55
F_{cr}	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00

*Governed by web bend buckling (AASHTO Eq. 6.10.4.2.2-4).

INTERIOR GIRDER 9B MOMENT TABLE (S.N. 082-0325 - Unit 3)					
	0.4 Sp. 8	Pier 8	0.5 Sp. 9	Pier 9	
I_s	(in ⁴)	76,491	136,939	76,491	190,741
$I_c(n)$	(in ⁴)	151,485	146,402	134,400	197,785
$I_c(3n)$	(in ⁴)	113,142	146,402	102,085	197,785
S_s	(in ³)	1,866	3,260	1,866	4,541
$S_c(n)$	(in ³)	2,423	3,349	2,332	4,600
$S_c(3n)$	(in ³)	2,195	3,349	2,111	4,600
S_{xl}	(in ³)	42.67	85.33	42.67	192.00
DC1	(k/')	1.00	0.98	0.76	0.95
M_{DC1}	(k)	1,059	1,776	421	4,450
DC2	(k/')	0.00	0.00	0.26	0.26
M_{DC2}	(k)	92	214	114	609
DW	(k/')	0.33	0.25	0.21	0.17
M_{DW}	(k)	359	470	119	1,010
M_{LL+IM}	(k)	1,761	2,169	1,836	2,007
M_u (Strength I)	(k)	5,059	6,988	4,060	11,351
M_{bl}	(k)	7.11	11.17	3.05	17.11
f_s DC1	(ksi)	6.81	6.54	2.71	11.76
f_s DC2	(ksi)	0.50	0.77	0.65	1.59
f_s DW	(ksi)	1.96	1.68	0.68	2.63
f_s 1.3(LL+IM)	(ksi)	11.34	10.10	12.28	6.81
f_l	(ksi)	2.00	1.57	0.86	1.07
f_s (Service II)	(ksi)	20.62	19.09	16.32	22.79
f_s (Total)(Strength I)	(ksi)	27.35	25.25	21.75	29.80
F_{cr} (Service II)	(ksi)	47.50	47.50	47.50	47.50
V_f	(k)	62.77	89.30	61.62	82.58
F_{cr}	(ksi)	50.00	50.00	50.00	50.00

INTERIOR GIRDER 2B MOMENT TABLE (S.N. 082-0325 - Unit 3)								
	0.4 Sp. 8	Pier 8	0.5 Sp. 9	Pier 9	0.5 Sp. 10	Pier 10	0.6 Sp. 11	
I_s	(in ⁴)	76,491	136,939	76,491	190,741	94,947	190,741	76,491
$I_c(n)$	(in ⁴)	157,661	152,079	157,661	206,073	184,898	206,073	157,661
$I_c(3n)$	(in ⁴)	117,732	152,079	117,732	206,073	138,347	206,073	117,732
S_s	(in ³)	1,866	3,260	1,866	4,541	2,316	4,541	1,866
$S_c(n)$	(in ³)	2,452	3,399	2,452	4,664	2,985	4,664	2,452
$S_c(3n)$	(in ³)	2,227	3,399	2,227	4,664	2,706	4,664	2,227
S_{xl}	(in ³)	42.67	85.33	42.67	192.00	66.67	192.00	42.67
DC1	(k/')	1.11	1.26	1.11	1.37	1.18	1.37	1.11
M_{DC1}	(k)	1,039	2,190	631	5,645	2,595	5,598	581
DC2	(k/')	0.26	0.26	0.26	0.26	0.26	0.26	0.26
M_{DC2}	(k)	164	335	121	664	311	650	116
DW	(k/')	0.39	0.39	0.39	0.39	0.39	0.39	0.39
M_{DW}	(k)	336	678	229	1,614	821	1,594	214
M_{LL+IM}	(k)	1,974	2,631	2,295	3,786	3,000	3,800	2,341
M_u (Strength I)	(k)	5,462	8,778	5,300	16,933	10,114	16,851	5,289
M_{bl}	(k)	8.56	13.63	3.95	25.55	15.52	26.17	3.88
f_s DC1	(ksi)	6.68	8.06	4.06	14.92	13.45	14.79	3.74
f_s DC2	(ksi)	0.88	1.18	0.65	1.71	1.38	1.67	0.62
f_s DW	(ksi)	1.81	2.39	1.23	4.15	3.64	4.10	1.15
f_s 1.3(LL+IM)	(ksi)	12.56	12.07	14.60	12.66	15.68	12.71	14.89
f_l	(ksi)	2.41	1.92	1.11	1.60	2.79	1.64	1.09
f_s (Service II)	(ksi)	21.94	23.71	20.55	33.44	34.14	33.27	20.41
f_s (Total)(Strength I)	(ksi)	29.08	31.40	27.39	44.05	45.10	43.84	27.23
F_{cr} (Service II)	(ksi)	47.50	46.55*	47.50	47.50	47.50	47.50	47.50
V_f	(k)	66.31	98.15	67.60	103.61	89.23	110.51	69.39
F_{cr}	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00

*Governed by web bend buckling (AASHTO Eq. 6.10.4.2.2-4).

INTERIOR GIRDER 8B MOMENT TABLE (S.N. 082-0325 - Unit 3)							
	0.4 Sp. 8	Pier 8	0.5 Sp. 9	Pier 9	0.5 Sp. 10	Pier 10	
I_s	(in ⁴)	76,491	136,939	76,491	190,741	94,947	190,741
$I_c(n)$	(in ⁴)	154,984	149,569	144,804	199,934	164,284	198,477
$I_c(3n)$	(in ⁴)	115,698	149,569	108,552	199,934	125,300	198,477
S_s	(in ³)	1,866	3,260	1,866	4,541	2,316	4,541
$S_c(n)$	(in ³)	2,440	3,378	2,389	4,616	2,875	4,605
$S_c(3n)$	(in ³)	2,213	3,378	2,162	4,616	2,606	4,605
S_{xl}	(in ³)	42.67	85.33	42.67	192.00	66.67	192.00
DC1	(k/')	1.06	1.13	0.90	1.07	0.90	0.98
M_{DC1}	(k)	1,072	1,915	466	4,671	2,407	4,647
DC2	(k/')	0.00	0.00	0.00	0.00	0.26	0.26
M_{DC2}	(k)	38	85	50	491	281	598
DW	(k/')	0.36	0.32	0.28	0.23	0.25	0.19
M_{DW}	(k)	386	584	162	1,162	679	1,106
M_{LL+IM}	(k)	1,920	2,471	1,940	3,447	2,666	2,767
M_u (Strength I)	(k)	5,327	7,700	4,283	14,228	9,044	13,058
M_{bl}	(k)	8.52	12.57	3.30	21.91	14.08	20.38
f_s DC1	(ksi)	6.90	7.05	3.00	12.34	12.47	12.28
f_s DC2	(ksi)	0.21	0.30	0.28	1.28	1.29	1.56
f_s DW	(ksi)	2.09	2.07	0.90	3.02	3.13	2.88
f_s 1.3(LL+IM)	(ksi)	12.28	11.41	12.67	11.65	14.47	9.37
f_l	(ksi)	2.40	1.77	0.93	1.37	2.53	1.27
f_s (Service II)	(ksi)	21.47	20.84	16.84	28.29	31.36	26.09
f_s (Total)(Strength I)	(ksi)	28.54	27.66	22.50	37.23	41.37	34.24
F_{cr} (Service II)	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50
V_f	(k)	64.02	96.99	62.44	91.60	73.47	94.95
F_{cr}	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00

GDR. 10B MOMENT TABLE (S.N. 082-0325 - Unit 3)			
	0.4 Sp. 8	Pier 8	
I_s	(in ⁴)	76,491	136,939