

TABLE 3.8-1

STRESSES IN HOOP REINFORCING BAR NO. 1
(KIPS/IN.²)

El. (feet)	Load Combination					Case
	A	B	Critical		E	
			C	D		
289.71	-	-	-	-	-	-
288.66	-	-	-	-	-	-
285.42	-	-	-	-	-	-
280.14	-	-	-	-	-	-
272.96	-	-	-	-	-	-
264.12	-	-	-	-	-	-
253.87	-	-	-	-	-	-
242.54	-	-	-	-	-	-
230.46	-	-	-	-	-	-
227.38	-	-	-	-	-	-
224.28	-	-	-	-	-	-
221.15	-	-	-	-	-	-
218.00	51.75	46.36	38.80	4.48	-5.06	A
215.00	55.45	49.58	41.41	4.54	-5.21	A
210.00	56.46	50.60	42.35	4.13	-5.35	A
200.00	55.27	49.69	41.52	3.26	-5.48	A
190.00	56.07	50.72	42.63	4.24	-5.62	A
180.00	56.19	51.29	43.42	4.27	-5.74	A
170.00	55.87	51.56	43.94	3.30	-5.83	A
160.00	55.54	51.87	44.55	3.57	-5.96	A
150.00	55.38	52.34	45.21	3.82	-6.12	A
140.00	58.50	56.00	48.51	4.36	-6.42	A
130.00	57.35	55.65	48.27	4.45	-6.91	A
120.00	54.42	53.80	46.99	4.47	-7.80	A
110.00	48.15	49.17	44.28	4.72	-7.03	B
100.00	37.46	40.20	34.44	3.44	-3.16	B
92.00	24.04	28.78	24.78	-3.12	-1.93	B
84.00	12.58	20.30	20.91	-4.62	-3.77	C
76.00	4.59	10.83	6.05	-3.45	-2.06	B

TABLE 3.8-2

STRESSES IN MERIDIONAL REINFORCING BAR NO. 1
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	54.12	47.53	38.58	-1.77	-4.27	A
288.66	56.63	49.10	39.69	-2.67	-4.28	A
285.42	49.56	43.25	35.13	-2.51	-4.24	A
280.14	55.96	48.80	39.65	-3.37	-4.59	A
272.96	50.16	44.15	36.02	-2.80	-4.96	A
264.12	52.09	45.89	37.48	-3.28	-4.98	A
253.87	52.12	46.02	37.66	-3.77	-4.56	A
242.54	52.25	46.35	38.05	-4.34	-4.42	A
230.46	52.53	46.83	38.56	-4.88	-4.55	A
227.38	52.29	46.80	38.62	-5.21	-4.65	A
224.28	52.39	47.02	38.86	-5.42	-4.61	A
221.15	48.97	44.02	36.44	-5.65	-4.24	A
218.00	42.67	38.40	31.87	-5.89	-3.47	A
215.00	43.69	39.47	32.87	-7.02	-3.14	A
210.00	43.02	39.26	32.87	-7.49	-3.33	A
200.00	42.28	39.24	33.15	-8.19	-3.58	A
190.00	41.39	39.24	33.51	-9.08	-3.83	A
180.00	40.59	39.41	34.03	-10.09	-4.10	A
170.00	39.79	39.63	34.63	-11.19	-4.39	A
160.00	38.96	39.89	35.29	-12.46	-4.69	B
150.00	38.61	40.64	36.37	-13.72	-5.14	B
140.00	38.51	41.67	37.70	-14.96	-5.60	B
130.00	37.97	42.34	38.76	-16.19	-5.91	B
120.00	37.79	43.39	40.13	-17.40	-6.13	B
110.00	34.68	41.78	39.32	-18.60	-5.90	B
100.00	26.86	35.52	34.84	-20.03	-5.53	B
92.00	14.23	19.96	18.76	-13.83	-3.86	B
84.00	18.79	25.71	25.82	-15.56	-4.65	C
76.00	19.29	19.49	15.59	-11.99	-3.21	B

TABLE 3.8-3

STRESSES IN HOOP REINFORCING BAR NO. 2
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	54.76	47.56	38.41	-2.25	-4.36	A
288.66	53.77	46.83	37.94	-2.31	-4.35	A
285.42	53.24	46.52	37.85	-2.47	-4.33	A
280.14	53.59	47.00	38.38	2.31	-4.29	A
272.96	53.89	47.46	38.92	2.81	-4.22	A
264.12	53.95	47.74	39.37	3.43	-4.11	A
253.87	53.89	47.98	39.83	4.25	-3.99	A
242.54	47.61	42.75	35.69	4.00	-3.93	A
230.46	49.54	44.51	37.26	4.54	-4.01	A
227.38	50.42	45.32	37.99	4.72	-4.04	A
224.28	52.06	46.73	39.16	4.88	-4.48	A
221.15	53.91	48.32	40.49	4.99	-4.78	A
218.00	51.75	46.36	38.80	4.48	-5.06	A
215.00	55.50	49.64	41.49	4.60	-5.22	A
210.00	56.54	50.67	42.42	4.24	-5.36	A
200.00	55.34	49.75	41.61	3.40	-5.50	A
190.00	56.12	50.76	42.68	4.07	-5.63	A
180.00	56.21	51.31	43.44	4.11	-5.75	A
170.00	55.87	51.56	43.95	3.44	-5.83	A
160.00	55.53	51.87	44.55	3.71	-5.96	A
150.00	55.37	52.34	45.22	3.97	-6.13	A
140.00	58.49	56.01	48.61	4.55	-6.44	A
130.00	57.39	55.70	48.50	4.69	-6.97	A
120.00	54.54	53.93	47.33	4.76	-7.86	A
110.00	48.38	49.38	44.49	4.92	-7.04	B
100.00	37.71	40.53	35.59	3.81	-3.42	B
92.00	24.17	29.01	26.11	-3.49	-2.31	B
84.00	12.46	20.27	21.30	-4.87	-3.93	C
76.00	3.82	10.52	8.07	-3.70	-2.35	B

TABLE 3.8-4

STRESSES IN MERIDIONAL REINFORCING BAR NO. 2
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	-	-	-	-	-	-
288.66	-	-	-	-	-	-
285.42	-	-	-	-	-	-
280.14	-	-	-	-	-	-
272.96	-	-	-	-	-	-
264.12	-	-	-	-	-	-
253.87	-	-	-	-	-	-
242.54	-	-	-	-	-	-
230.46	-	-	-	-	-	-
227.38	-	-	-	-	-	-
224.28	-	-	-	-	-	-
221.15	-	-	-	-	-	-
218.00	-	-	-	-	-	-
215.00	-	-	-	-	-	-
210.00	-	-	-	-	-	-
200.00	-	-	-	-	-	-
190.00	-	-	-	-	-	-
180.00	-	-	-	-	-	-
170.00	-	-	-	-	-	-
160.00	-	-	-	-	-	-
150.00	-	-	-	-	-	-
140.00	-	-	-	-	-	-
130.00	-	-	-	-	-	-
120.00	-	-	-	-	-	-
110.00	-	-	-	-	-	-
100.00	-	-	-	-	-	-
92.00	15.70	22.42	22.37	-15.05	-4.55	B
84.00	17.44	25.36	25.84	-16.61	-4.99	C
76.00	10.97	16.11	16.15	-10.89	-2.31	C

TABLE 3.8-5

STRESSES IN HOOP REINFORCING BAR NO. 4
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	-	-	-	-	-	-
288.66	-	-	-	-	-	-
285.42	-	-	-	-	-	-
280.14	-	-	-	-	-	-
272.96	-	-	-	-	-	-
264.12	-	-	-	-	-	-
253.87	-	-	-	-	-	-
242.54	46.98	42.17	35.21	4.00	4.64	A
230.46	48.93	43.95	36.80	4.54	4.79	A
227.38	49.78	44.73	37.50	4.72	4.83	A
224.28	51.36	46.09	38.64	4.88	4.86	A
221.15	53.15	47.62	39.91	4.99	4.79	A
218.00	50.93	45.61	38.19	4.48	4.63	A
215.00	55.09	49.37	41.51	5.14	4.65	A
210.00	56.41	50.53	42.39	5.11	4.60	A
200.00	55.21	49.58	41.79	4.54	4.67	A
190.00	55.83	50.49	42.63	2.74	4.79	A
180.00	55.70	50.87	43.12	2.87	4.96	A
170.00	55.24	51.04	43.58	4.60	5.18	A
160.00	54.84	51.29	44.09	4.83	5.37	A
150.00	54.65	51.74	44.88	5.12	5.55	A
140.00	57.87	55.53	48.93	6.01	5.71	A
130.00	57.15	55.63	49.90	6.59	5.65	A
120.00	55.09	54.55	49.63	7.03	5.21	A
110.00	49.88	50.75	45.91	6.44	4.45	C
100.00	39.52	42.91	44.42	6.78	5.43	C
92.00	25.09	30.73	36.48	-6.37	5.27	C
84.00	11.48	20.02	24.32	-6.84	-3.65	B
76.00	-2.36	-11.62	-26.43	6.76	6.26	C

TABLE 3.8-6

STRESSES IN HOOP REINFORCING BAR NO. 5
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	48.60	41.93	33.75	-2.25	3.68	A
288.66	51.25	44.52	36.03	-2.31	3.73	A
285.42	51.85	45.25	36.80	-2.47	3.80	A
280.14	52.57	46.07	37.62	2.31	3.90	A
272.96	53.04	46.68	38.28	2.81	4.02	A
264.12	53.19	47.05	38.79	3.43	4.21	A
253.87	53.19	47.35	39.30	4.25	4.45	A
242.54	46.98	42.17	35.21	4.00	4.64	A
230.46	48.93	43.95	36.80	4.54	4.79	A
227.38	49.78	44.73	37.50	4.72	4.83	A
224.28	51.36	46.09	38.64	4.88	4.86	A
221.15	53.15	47.62	39.91	4.99	4.79	A
218.00	50.93	45.61	38.19	4.48	4.63	A
215.00	55.14	49.42	41.59	5.21	4.66	A
210.00	56.48	50.60	42.46	5.22	4.60	A
200.00	55.28	49.64	41.88	4.68	4.68	A
190.00	55.88	50.53	42.69	2.57	4.79	A
180.00	55.72	50.89	43.14	2.71	4.96	A
170.00	55.24	51.05	43.59	4.75	5.18	A
160.00	54.83	51.29	44.09	4.97	5.37	A
150.00	54.64	51.74	44.90	5.27	5.56	A
140.00	57.86	55.54	49.02	6.20	5.74	A
130.00	57.19	55.68	50.13	6.83	5.71	A
120.00	55.21	54.68	49.97	7.31	5.28	A
110.00	50.12	50.96	46.12	6.64	4.47	B
100.00	39.77	43.24	45.57	7.16	5.70	C
92.00	25.22	30.96	37.81	-6.74	5.62	C
84.00	11.36	19.99	24.72	-7.09	-3.80	C
76.00	-3.13	-12.52	-29.32	7.37	7.03	C

TABLE 3.8-7
STRESSES IN MERIDIONAL REINFORCING BAR NO. 5
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	47.15	41.15	33.31	-1.77	4.77	A
288.66	56.19	48.70	39.36	-2.67	3.60	A
285.42	49.27	42.99	34.91	-2.51	3.57	A
280.14	55.62	48.48	39.39	-3.37	3.88	A
272.96	49.83	43.84	35.76	-2.80	4.24	A
264.12	52.08	45.88	37.48	-3.28	4.18	A
253.87	52.32	46.20	37.80	-3.77	3.67	A
242.54	52.36	46.45	38.13	-4.34	3.44	A
230.46	53.19	47.43	39.06	-4.88	3.50	A
227.38	52.88	47.34	39.07	-5.21	3.52	A
224.28	51.51	46.21	38.19	-5.42	3.31	A
221.15	46.82	42.05	34.81	-5.65	2.75	A
218.00	40.54	36.46	30.26	-5.89	1.84	A
215.00	42.17	38.08	31.71	-7.02	1.43	A
210.00	41.96	38.29	32.07	-7.49	1.52	A
200.00	41.49	38.52	32.55	-8.19	1.59	A
190.00	40.63	38.55	32.93	-9.08	1.65	A
180.00	39.96	38.83	33.55	-10.09	1.71	A
170.00	39.33	39.21	34.28	-11.19	1.79	A
160.00	38.74	39.69	35.12	-12.46	1.90	B
150.00	38.52	40.56	36.30	-13.72	2.12	B
140.00	38.54	41.70	37.72	-14.96	2.39	B
130.00	38.12	42.48	38.87	-16.19	2.57	B
120.00	37.69	43.29	40.05	-17.40	2.73	B
110.00	34.39	41.52	39.10	-18.60	-2.47	B
100.00	26.80	35.47	34.80	-20.03	2.65	B
92.00	15.15	22.35	22.93	-15.52	-3.41	C
84.00	13.98	22.53	23.62	-17.02	-4.99	C
76.00	5.90	12.27	13.60	-10.68	-3.71	C

TABLE 3.8-8

STRESSES IN DIAGONAL SEISMIC REINFORCING BAR NO. 3
(KIPS/IN.²)

El. (feet)	Load Combination					Critical Case
	A	B	C	D	E	
289.71	-	-	-	-	-	-
288.06	-	-	-	-	-	-
285.42	-	-	-	-	-	-
280.14	-	-	-	-	-	-
272.96	-	-	-	-	-	-
264.12	-	-	-	-	-	-
253.87	-	-	-	-	-	-
242.54	-	29.70	38.30	-21.94	38.30	C & E
230.46	-	35.58	45.85	-24.89	45.85	C & E
227.38	-	38.83	50.01	-26.03	50.01	C & E
224.28	-	41.03	52.83	-26.95	52.83	C & E
221.15	-	43.43	55.89	-27.90	55.89	C & E
218.00	-	45.97	59.14	-28.85	59.14	C & E
215.00	-	31.16	40.06	-18.94	40.06	C & E
210.00	-	33.87	43.49	-19.44	43.49	C & E
200.00	-	38.08	48.79	-20.24	48.79	C & E
190.00	-	42.00	53.67	-21.20	53.67	C & E
180.00	-	31.71	40.40	-16.04	40.40	C & E
170.00	-	34.01	43.17	-17.29	43.17	C & E
160.00	-	36.16	45.72	-20.43	45.72	C & E
150.00	-	38.19	48.07	-23.69	48.07	C & E
140.00	-	40.10	50.23	-26.98	50.23	C & E
130.00	-	41.84	52.25	-30.16	52.25	C & E
120.00	-	43.36	54.20	-32.78	54.20	C & E
110.00	-	44.50	56.15	-34.11	56.15	C & E
100.00	-	36.82	46.63	-27.02	46.63	C & E
92.00	-	39.96	51.33	-27.02	51.33	C & E
84.00	-	44.26	60.79	-27.02	60.79	C & E
76.00	-	31.59	44.44	-27.02	44.44	C & E

TABLE 3.8-9

MAXIMUM TENSILE STRESSES IN LINEAR PLATE
(KIPS/IN.²)

El. (feet)	Load Combination			Test Pressure	Critical Case
	A	B	C		
289.71	-	-	-	22.8	Test Pressure
288.66	-	-	-	24.6	Test Pressure
285.42	-	-	-	20.5	Test Pressure
280.14	-	-	-	23.2	Test Pressure
272.96	-	-	-	21.0	Test Pressure
264.12	-	-	-	21.6	Test Pressure
253.87	-	-	-	22.3	Test Pressure
242.54	-	-	-	20.3	Test Pressure
230.46	-	-	-	20.1	Test Pressure
227.38	-	-	-	21.6	Test Pressure
224.28	-	-	-	23.3	Test Pressure
221.15	-	-	-	25.2	Test Pressure
218.00	-	-	-	24.2	Test Pressure
215.00	-	-	-	26.4	Test Pressure
210.00	-	-	-	27.6	Test Pressure
200.00	-	-	-	27.6	Test Pressure
190.00	-	-	-	28.8	Test Pressure
180.00	-	-	-	28.3	Test Pressure
170.00	-	-	-	28.3	Test Pressure
160.00	-	-	-	28.2	Test Pressure
150.00	-	-	-	28.4	Test Pressure
140.00	-	-	-	30.8	Test Pressure
130.00	-	-	-	30.9	Test Pressure
120.00	-	-	-	30.1	Test Pressure
110.00	-	-	-	27.3	Test Pressure
100.00	22.6	26.4	25.6	20.7	B
92.00	22.4	27.5	27.3	13.4	B
84.00	17.2	24.8	26.9	10.9	C
76.00	26.0	24.1	22.6	21.6	A

TABLE 3.8-10

INTERACTION COEFFICIENT FOR LINER PLATE IN COMPRESSION

El. (feet)	Load Combination					Case
	A	B	Critical C	D	E	
289.71	.163	.225	.213	.026	.282	E
288.66	.019	.108	.123	.029	.283	E
285.42	.128	.194	.190	.023	.284	E
280.14	.063	.143	.151	.018	.285	E
272.96	.191	.251	.237	.010	.287	E
264.12	.153	.223	.216	.005	.290	E
253.87	.093	.175	.181	.000	.297	E
242.54	.144	.227	.230	.009	.311	E
230.46	.127	.223	.237	.015	.333	E
227.38	.116	.223	.243	.023	.346	E
224.28	.048	.177	.210	.025	.345	E
221.15	.038	.170	.210	.027	.349	E
218.00	.106	.235	.269	.035	.358	E
215.00	.029	.204	.272	.048	.409	E
210.00	.055	.245	.318	.054	.435	E
200.00	.107	.317	.400	.074	.475	E
190.00	.103	.345	.447	.095	.516	E
180.00	.101	.372	.492	.117	.556	E
170.00	.113	.412	.545	.139	.595	E
160.00	.131	.455	.601	.172	.634	E
150.00	.158	.507	.662	.208	.673	E
140.00	.135	.516	.688	.247	.715	E
130.00	.180	.582	.759	.292	.759	E
120.00	.325	.732	.902	.339	.814	C
110.00	.136	.569	.791	.381	.787	C
100.00	*	.059	.419	.415	.683	E
92.00	*	*	.186	.276	.517	A
84.00	*	.051	.473	.293	.723	E
76.00	*	*	.157	.344	.454	E

*Liner is in tension

TABLE 3.8-11

SUMMARY OF FOUNDATIONS

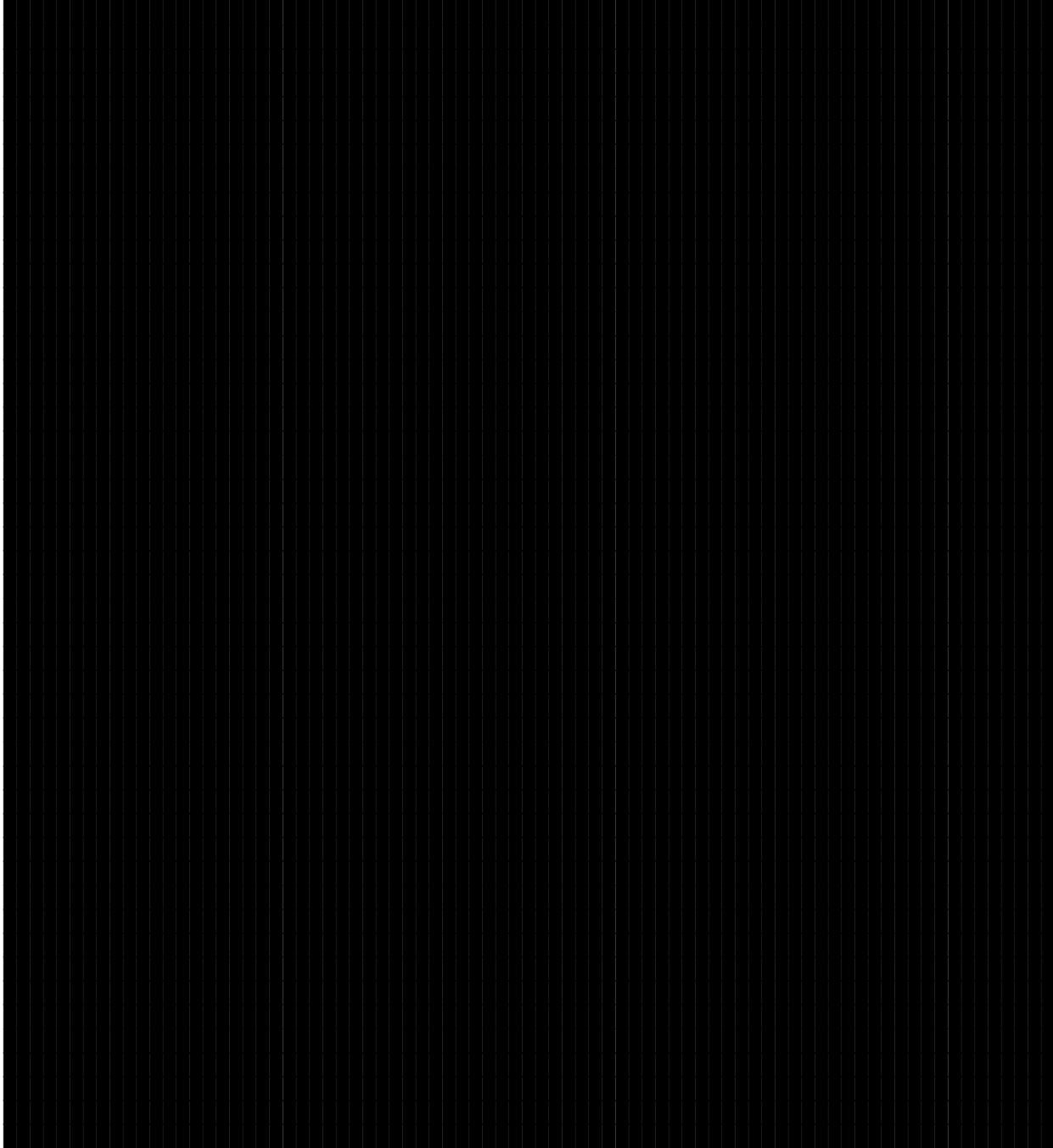


TABLE 3.8-11 (Cont.)

