E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	7	3	18.9617	-9.9802	73.4541		
		1	18.9617	-9.9802	-36.3275	-0.0200	3.68
2	1	2	-52.0388	-27.0619	99.2010		
		3	-52.0388	-27.0619	-198.4797	0.0461	7.33
	2	2	-52.0488	-27.2229	100.0806		
		3	-52.0488	-27.2229	-199.3712	0.0462	7.34
	3	2	-34.3834	-17.8399	65.3916		
		3	-34.3834	-17.8399	-130.8469	0.0304	7.33
	4	2	-34.3893	-17.9346	65.9090		
		3	-34.3893	-17.9346	-131.3713	0.0304	7.34
	5	2	-29.9269	-15.2408	55.8355		
		3	-29.9269	-15.2408	-111.8132	0.0260	7.33
	6	2	-22.1120	-11.8211	43.3655		
		3	-22.1120	-11.8211	-86.6665	0.0201	7.33
	7	2	-22.1220	-11.9821	44.2451		
		3	-22.1220	-11.9821	-87.5579	0.0202	7.35
3	1	3	-3.8410	96.6436	-368.7444		
		4	-3.8410	89.8417	-291.3530	0.0006	0.41
	2	3	-4.1344	96.6621	-368.9125		
		4	-4.1344	89.8603	-291.5057	0.0006	0.41
	3	3	-2.5282	63.8548	-243.1144		
		4	-2.5282	59.3521	-191.9835	0.0004	0.41
	4	3	-2.7008	63.8658	-243.2133		
		4	-2.7008	59.3630	-192.0733	0.0004	0.41
	5	3	-2.1325	55.5785	-207.9004		
		4	-2.1325	51.5986	-163.4219	0.0003	0.41
	6	3	-1.7085	41.0651	-160.8440		
		4	-1.7085	38.2431	-127.9311	0.0003	0.41
	7	3	-2.0019	41.0836	-161.0121		
		4	-2.0019	38.2616	-128.0838	0.0003	0.41

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
4	1	4	-3.8410	89.8417	-291.3530		
		5	-3.8410	57.0617	2.4538	0.0067	1.65
	2	4	-4.1344	89.8603	-291.5057		
		5	-4.1344	57.0803	2.3754	0.0067	1.65
	3	4	-2.5282	59.3521	-191.9835		
		5	-2.5282	37.6521	2.0249	0.0044	1.65
	4	4	-2.7008	59.3630	-192.0733		
		5	-2.7008	37.6630	1.9788	0.0044	1.65
	5	4	-2.1325	51.5986	-163.4219		
		5	-2.1325	32.4186	4.6127	0.0036	1.64
	6	4	-1.7085	38.2431	-127.9311		
		5	-1.7085	24.6431	-2.1589	0.0030	1.67
	7	4	-2.0019	38.2616	-128.0838		
		5	-2.0019	24.6616	-2.2373	0.0030	1.67
5	1	5	-3.8410	57.0617	2.4538	201.1139	6.96
		6	-3.8410	-74.0583	-133.5189	-0.2428	7.54
	2	5	-4.1344	57.0803	2.3754	201.1648	6.97
		6	-4.1344	-74.0397	-133.3001	-0.2429	7.54
	3	5	-2.5282	37.6521	2.0249	132.6866	6.94
		6	-2.5282	-49.1479	-89.9416	-0.1598	7.53
	4	5	-2.7008	37.6630	1.9788	132.7163	6.94
		6	-2.7008	-49.1370	-89.8130	-0.1599	7.53
	5	5	-2.1325	32.4186	4.6127	114.2028	6.76
		6	-2.1325	-44.3014	-90.4490	-0.1351	7.43
	6	5	-1.7085	24.6431	-2.1589	87.1471	7.25
		6	-1.7085	-29.7569	-43.0699	-0.1077	7.68
	7	5	-2.0019	24.6616	-2.2373	87.2033	7.25
		6	-2.0019	-29.7384	-42.8512	-0.1078	7.69
6	1	6	-3.8410	-74.0583	-133.5189		
		7	-3.8410	-101.4296	-426.5837	0.0094	1.82
	2	6	-4.1344	-74.0397	-133.3001		
		7	-4.1344	-101.4110	-426.3029	0.0094	1.82

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	3	6	-2.5282	-49.1479	-89.9416		
		7	-2.5282	-67.2674	-284.3552	0.0063	1.82
	4	6	-2.7008	-49.1370	-89.8130		
		7	-2.7008	-67.2565	-284.1901	0.0063	1.82
	5	6	-2.1325	-44.3014	-90.4490		
		7	-2.1325	-60.3167	-265.1610	0.0060	1.81
	6	6	-1.7085	-29.7569	-43.0699		
		7	-1.7085	-41.1129	-161.4226	0.0034	1.83
	7	6	-2.0019	-29.7384	-42.8512		
		7	-2.0019	-41.0944	-161.1419	0.0034	1.83
7	1	7	-3.8410	-101.4296	-426.5837		
		8	-3.8410	-108.2314	-513.5930	0.0009	0.42
	2	7	-4.1344	-101.4110	-426.3029		
		8	-4.1344	-108.2129	-513.2968	0.0009	0.42
	3	7	-2.5282	-67.2674	-284.3552		
		8	-2.5282	-71.7702	-342.0558	0.0006	0.42
	4	7	-2.7008	-67.2565	-284.1901		
		8	-2.7008	-71.7592	-341.8816	0.0006	0.42
	5	7	-2.1325	-60.3167	-265.1610		
		8	-2.1325	-64.2965	-316.8755	0.0005	0.42
	6	7	-1.7085	-41.1129	-161.4226		
		8	-1.7085	-43.9349	-196.7175	0.0003	0.42
	7	7	-2.0019	-41.0944	-161.1419		
		8	-2.0019	-43.9164	-196.4213	0.0003	0.42
8	1	8	76.4073	11.7034	-85.7868		
		9	76.4073	11.7034	42.9504	0.0143	3.67
	2	8	76.3312	12.0115	-87.6369		
		9	76.3312	12.0115	44.4892	0.0144	3.65
	3	8	52.0541	7.1028	-52.0680		
		9	52.0541	7.1028	26.0628	0.0087	3.67
	4	8	52.0093	7.2840	-53.1563		
		9	52.0093	7.2840	26.9680	0.0088	3.65

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	5	8	56.3949	1.7331	-12.7346		
		9	56.3949	1.7331	6.3298	0.0021	3.67
	6	8	20.0123	9.9703	-73.0522		
		9	20.0123	9.9703	36.6206	0.0121	3.66
	7	8	19.9363	10.2783	-74.9023		
		9	19.9363	10.2783	38.1594	0.0123	3.64
9	1	10	-92.4528	17.0743	-62.5501		
		8	-92.4528	17.0743	125.2673	-0.0142	7.33
	2	10	-92.3607	16.8719	-61.2087		
		8	-92.3607	16.8719	124.3817	-0.0143	7.31
	3	10	-62.9854	10.3686	-37.9900		
		8	-62.9854	10.3686	76.0645	-0.0087	7.33
	4	10	-62.9313	10.2495	-37.2010		
		8	-62.9313	10.2495	75.5436	-0.0087	7.31
	5	10	-68.2379	2.5774	-9.4870		
		8	-68.2379	2.5774	18.8642	-0.0021	7.34
	6	10	-24.2149	14.4969	-53.0632		
		8	-24.2149	14.4969	106.4031	-0.0121	7.33
	7	10	-24.1229	14.2945	-51.7218		
		8	-24.1229	14.2945	105.5175	-0.0121	7.31
0	1	8	1.5300	60.6286	-302.5390		
		11	1.5300	56.6488	-253.8688	0.0005	0.41
	2	8	0.7260	60.4791	-301.2782		
		11	0.7260	56.4992	-252.7322	0.0005	0.41
	3	8	0.7376	43.2693	-213.9233		
		11	0.7376	40.4266	-179.1896	0.0004	0.41
	4	8	0.2647	43.1813	-213.1817		
		11	0.2647	40.3386	-178.5209	0.0004	0.41
	5	8	-1.2882	60.3363	-285.2767		
		11	-1.2882	56.3565	-236.8492	0.0005	0.41
	6	8	2.8182	0.2923	-17.2622		
		11	2.8182	0.2923	-17.0196		

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	7	8	2.0142	0.1428	-16.0015		
		11	2.0142	0.1428	-15.8830		
11	1	11	1.5300	56.6488	-253.8688		
		12	1.5300	40.6335	-91.4075	0.0058	1.54
	2	11	0.7260	56.4992	-252.7322		
		12	0.7260	40.4839	-90.7704	0.0057	1.54
	3	11	0.7376	40.4266	-179.1896		
		12	0.7376	28.9871	-63.2688	0.0041	1.53
	4	11	0.2647	40.3386	-178.5209		
		12	0.2647	28.8991	-62.8940	0.0040	1.53
	5	11	-1.2882	56.3565	-236.8492		
		12	-1.2882	40.3412	-75.3642	0.0052	1.52
	6	11	2.8182	0.2923	-17.0196		
		12	2.8182	0.2923	-16.0433	0.0006	1.66
	7	11	2.0142	0.1428	-15.8830		
		12	2.0142	0.1428	-15.4062	0.0005	1.67
12	1	12	1.5300	40.6335	-91.4075	80.7593	8.47
		13	1.5300	-39.2992	-80.2860	-0.0908	8.43
	2	12	0.7260	40.4839	-90.7704	80.1314	8.44
		13	0.7260	-39.4487	-82.1420	-0.0898	8.41
	3	12	0.7376	28.9871	-63.2688	59.3954	8.46
		13	0.7376	-28.1077	-55.9391	-0.0678	8.42
	4	12	0.2647	28.8991	-62.8940	59.0268	8.44
		13	0.2647	-28.1957	-57.0309	-0.0672	8.40
	5	12	-1.2882	40.3412	-75.3642	94.3344	8.41
		13	-1.2882	-39.5915	-69.1157	-0.1142	8.38
	6	12	2.8182	0.2923	-16.0433		
		13	2.8182	0.2923	-11.1704	0.0234	8.09
	7	12	2.0142	0.1428	-15.4062		
		13	2.0142	0.1428	-13.0263	0.0244	8.22

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
13	1	13	1.5300	-39.2992	-80.2860		
		14	1.5300	-55.2665	-237.7379	0.0053	1.81
	2	13	0.7260	-39.4487	-82.1420		
		14	0.7260	-55.4161	-240.0919	0.0053	1.80
	3	13	0.7376	-28.1077	-55.9391		
		14	0.7376	-39.5129	-168.5275	0.0037	1.81
	4	13	0.2647	-28.1957	-57.0309		
		14	0.2647	-39.6009	-169.9122	0.0038	1.81
	5	13	-1.2882	-39.5915	-69.1157		
		14	-1.2882	-55.5588	-227.5410	0.0049	1.82
	6	13	2.8182	0.2923	-11.1704		
		14	2.8182	0.2923	-10.1970	0.0004	1.65
	7	13	2.0142	0.1428	-13.0263		
		14	2.0142	0.1428	-12.5509	0.0004	1.66
14	1	14	1.5300	-55.2665	-237.7379		
		15	1.5300	-59.2464	-285.2608	0.0005	0.42
	2	14	0.7260	-55.4161	-240.0919		
		15	0.7260	-59.3959	-287.7389	0.0005	0.42
	3	14	0.7376	-39.5129	-168.5275		
		15	0.7376	-42.3557	-202.5029	0.0003	0.42
	4	14	0.2647	-39.6009	-169.9122		
		15	0.2647	-42.4437	-203.9607	0.0003	0.42
	5	14	-1.2882	-55.5588	-227.5410		
		15	-1.2882	-59.5387	-275.3064	0.0005	0.42
	6	14	2.8182	0.2923	-10.1970		
		15	2.8182	0.2923	-9.9543		
	7	14	2.0142	0.1428	-12.5509		
		15	2.0142	0.1428	-12.4325		
15	1	15	72.0502	-8.6423	63.3854		
		16	72.0502	-8.6423	-31.6801	-0.0105	3.67
	2	15	72.9840	-9.1574	67.5872		
		16	72.9840	-9.1574	-33.1439	-0.0114	3.69

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	3	15	49.1742	-5.0837	37.2855		
		16	49.1742	-5.0837	-18.6354	-0.0062	3.67
	4	15	49.7235	-5.3867	39.7572		
		16	49.7235	-5.3867	-19.4964	-0.0067	3.69
	5	15	53.8812	-0.0000	0.0000		
		16	53.8812	-0.0000	-0.0000		
	6	15	18.1690	-8.6423	63.3854		
		16	18.1690	-8.6423	-31.6801	-0.0105	3.67
	7	15	19.1028	-9.1574	67.5872		
		16	19.1028	-9.1574	-33.1439	-0.0114	3.69
16	1	17	-87.1808	-12.6667	46.4568		
		15	-87.1808	-12.6667	-92.8768	0.0106	7.33
	2	17	-88.3106	-14.0992	52.3312		
		15	-88.3106	-14.0992	-102.7600	0.0115	7.36
	3	17	-59.5008	-7.4510	27.3275		
		15	-59.5008	-7.4510	-54.6334	0.0062	7.33
	4	17	-60.1654	-8.2936	30.7831		
		15	-60.1654	-8.2936	-60.4471	0.0068	7.36
	5	17	-65.1962	-0.0000	0.0000		
		15	-65.1962	-0.0000	-0.0000		
	6	17	-21.9845	-12.6667	46.4568		
		15	-21.9845	-12.6667	-92.8768	0.0106	7.33
	7	17	-23.1144	-14.0992	52.3312		
		15	-23.1144	-14.0992	-102.7600	0.0115	7.36
17	1	15	-2.4944	99.9846	-441.5230		
		18	-2.4944	93.1827	-361.3585	0.0007	0.41
	2	15	-4.2158	101.8987	-458.0860		
		18	-4.2158	95.0968	-376.3329	0.0008	0.41
	3	15	-1.6297	66.3193	-294.4219		
		18	-1.6297	61.8166	-241.2455	0.0005	0.41
	4	15	-2.6423	67.4453	-304.1649		
		18	-2.6423	62.9425	-250.0539	0.0005	0.41

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	5	15	-1.2882	59.5387	-275.3064		
		18	-1.2882	55.5588	-227.5410	0.0005	0.41
	6	15	-1.2062	40.4459	-166.2166		
		18	-1.2062	37.6239	-133.8176	0.0003	0.41
	7	15	-2.9276	42.3600	-182.7796		
		18	-2.9276	39.5380	-148.7920	0.0003	0.41
8	1	18	-2.4944	93.1827	-361.3585		
		19	-2.4944	65.8934	-96.4968	0.0076	1.50
	2	18	-4.2158	95.0968	-376.3329		
		19	-4.2158	67.8075	-105.0973	0.0080	1.51
	3	18	-1.6297	61.8166	-241.2455		
		19	-1.6297	43.7513	-65.4749	0.0051	1.50
	4	18	-2.6423	62.9425	-250.0539		
		19	-2.6423	44.8773	-70.5340	0.0053	1.51
	5	18	-1.2882	55.5588	-227.5410		
		19	-1.2882	39.5915	-69.1157	0.0049	1.51
	6	18	-1.2062	37.6239	-133.8176		
		19	-1.2062	26.3019	-27.3811	0.0027	1.48
	7	18	-2.9276	39.5380	-148.7920		
		19	-2.9276	28.2160	-35.9816	0.0031	1.49
9	1	19	-2.4944	65.8934	-96.4968	168.4172	8.04
		20	-2.4944	-70.7173	-136.7035	-0.2070	8.17
	2	19	-4.2158	67.8075	-105.0973	175.4306	8.27
		20	-4.2158	-68.8032	-113.3966	-0.2195	8.30
	3	19	-1.6297	43.7513	-65.4749	110.9473	8.06
		20	-1.6297	-46.6834	-89.9135	-0.1362	8.18
	4	19	-2.6423	44.8773	-70.5340	115.0853	8.27
		20	-2.6423	-45.5575	-76.2036	-0.1435	8.30
	5	19	-1.2882	39.5915	-69.1157	94.3344	8.26
		20	-1.2882	-40.3412	-75.3642	-0.1142	8.29
	6	19	-1.2062	26.3019	-27.3811	74.3528	7.74
		20	-1.2062	-30.3761	-61.3394	-0.0929	8.02

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	7	19	-2.9276	28.2160	-35.9816	81.0980	8.30
		20	-2.9276	-28.4620	-38.0325	-0.1053	8.32
20	1	20	-2.4944	-70.7173	-136.7035		
		21	-2.4944	-98.0886	-418.6092	0.0093	1.81
	2	20	-4.2158	-68.8032	-113.3966		
		21	-4.2158	-96.1745	-388.9093	0.0084	1.83
	3	20	-1.6297	-46.6834	-89.9135		
		21	-1.6297	-64.8029	-276.0957	0.0061	1.81
	4	20	-2.6423	-45.5575	-76.2036		
		21	-2.6423	-63.6770	-258.6251	0.0056	1.82
	5	20	-1.2882	-40.3412	-75.3642		
		21	-1.2882	-56.3565	-236.8492	0.0052	1.82
	6	20	-1.2062	-30.3761	-61.3394		
		21	-1.2062	-41.7321	-181.7600	0.0041	1.81
	7	20	-2.9276	-28.4620	-38.0325		
		21	-2.9276	-39.8180	-152.0601	0.0032	1.84
21	1	21	-2.4944	-98.0886	-418.6092		
		22	-2.4944	-104.8904	-502.8455	0.0008	0.42
	2	21	-4.2158	-96.1745	-388.9093		
		22	-4.2158	-102.9763	-471.5569	0.0008	0.42
	3	21	-1.6297	-64.8029	-276.0957		
		22	-1.6297	-69.3057	-331.7507	0.0006	0.42
	4	21	-2.6423	-63.6770	-258.6251		
		22	-2.6423	-68.1797	-313.3457	0.0005	0.42
	5	21	-1.2882	-56.3565	-236.8492		
		22	-1.2882	-60.3363	-285.2767	0.0005	0.42
	6	21	-1.2062	-41.7321	-181.7600		
		22	-1.2062	-44.5541	-217.5688	0.0004	0.42
	7	21	-2.9276	-39.8180	-152.0601		
		22	-2.9276	-42.6400	-186.2802	0.0003	0.42

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
22	1	22	97.2471	-2.2362	16.4556		
		23	97.2471	-2.2362	-8.1427	-0.0028	3.68
	2	22	76.4468	7.3163	-53.1380		
		23	76.4468	7.3163	27.3413	0.0087	3.63
	3	22	64.3128	-1.5339	11.2850		
		23	64.3128	-1.5339	-5.5877	-0.0019	3.68
	4	22	52.0773	4.0852	-29.6525		
		23	52.0773	4.0852	15.2852	0.0048	3.63
	5	22	56.3949	-1.7331	12.7346		
		23	56.3949	-1.7331	-6.3298	-0.0021	3.67
	6	22	40.8521	-0.5031	3.7210		
		23	40.8521	-0.5031	-1.8129	-0.0006	3.70
	7	22	20.0518	9.0494	-65.8726		
		23	20.0518	9.0494	33.6711	0.0108	3.64
23	1	24	-117.6689	-3.3647	12.4202		
		22	-117.6689	-3.3647	-24.5912	0.0028	7.35
	2	24	-92.5006	9.8896	-35.5079		
		22	-92.5006	9.8896	73.2772	-0.0085	7.30
	3	24	-77.8184	-2.3041	8.5018		
		22	-77.8184	-2.3041	-16.8432	0.0019	7.34
	4	24	-63.0135	5.4925	-19.6912		
		22	-63.0135	5.4925	40.7264	-0.0047	7.29
	5	24	-68.2379	-2.5774	9.4870		
		22	-68.2379	-2.5774	-18.8642	0.0021	7.34
	6	24	-49.4311	-0.7873	2.9332		
		22	-49.4311	-0.7873	-5.7270	0.0006	7.36
	7	24	-24.2627	12.4669	-44.9949		
		22	-24.2627	12.4669	92.1414	-0.0106	7.30
24	1	22	-3.6229	110.0256	-543.8923		
		25	-3.6229	103.2237	-455.3938	0.0009	0.41
	2	22	-1.6426	65.9710	-345.1417		
		25	-1.6426	61.9911	-292.0374	0.0006	0.41

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	3	22	-2.3999	72.8255	-359.8789		
		25	-2.3999	68.3228	-301.3024	0.0006	0.41
	4	22	-1.2350	46.9111	-242.9668		
		25	-1.2350	44.0683	-205.2104	0.0004	0.41
	5	22	-2.1325	64.2965	-316.8755		
		25	-2.1325	60.3167	-265.1610	0.0005	0.41
	6	22	-1.4904	45.7291	-227.0168		
		25	-1.4904	42.9071	-190.2328	0.0004	0.41
	7	22	0.4899	1.6745	-28.2662		
		25	0.4899	1.6745	-26.8764		
25	1	25	-3.6229	103.2237	-455.3938		
		26	-3.6229	75.8524	-156.3366	0.0102	1.53
	2	25	-1.6426	61.9911	-292.0374		
		26	-1.6426	45.9758	-111.7326	0.0068	1.54
	3	25	-2.3999	68.3228	-301.3024		
		26	-2.3999	50.2033	-103.3638	0.0068	1.53
	4	25	-1.2350	44.0683	-205.2104		
		26	-1.2350	32.6288	-77.1262	0.0047	1.54
	5	25	-2.1325	60.3167	-265.1610		
		26	-2.1325	44.3014	-90.4490	0.0060	1.53
	6	25	-1.4904	42.9071	-190.2328		
		26	-1.4904	31.5511	-65.8876	0.0043	1.53
	7	25	0.4899	1.6745	-26.8764		
		26	0.4899	1.6745	-21.2836	0.0008	1.64
26	1	26	-3.6229	75.8524	-156.3366	194.7062	9.26
		27	-3.6229	-55.2676	8.3423	-0.2299	8.58
	2	26	-1.6426	45.9758	-111.7326	108.6821	9.59
		27	-1.6426	-30.7442	10.1207	-0.1233	8.77
	3	26	-2.3999	50.2033	-103.3638	128.9283	9.25
		27	-2.3999	-36.5967	5.4887	-0.1523	8.57
	4	26	-1.2350	32.6288	-77.1262	78.2956	9.53
		27	-1.2350	-22.1712	6.5348	-0.0896	8.73

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	5	26	-2.1325	44.3014	-90.4490	114.2028	9.24
		27	-2.1325	-32.4186	4.6127	-0.1351	8.57
	6	26	-1.4904	31.5511	-65.8876	80.5051	9.28
		27	-1.4904	-22.8489	3.7296	-0.0948	8.59
	7	26	0.4899	1.6745	-21.2836		
		27	0.4899	1.6745	5.5080	0.0133	6.11
27	1	27	-3.6229	-55.2676	8.3423		
		28	-3.6229	-88.0476	-278.2880	0.0062	2.36
	2	27	-1.6426	-30.7442	10.1207		
		28	-1.6426	-49.9242	-151.2159	0.0032	2.39
	3	27	-2.3999	-36.5967	5.4887		
		28	-2.3999	-58.2967	-184.2982	0.0041	2.36
	4	27	-1.2350	-22.1712	6.5348		
		28	-1.2350	-35.8712	-109.5499	0.0023	2.38
	5	27	-2.1325	-32.4186	4.6127		
		28	-2.1325	-51.5986	-163.4219	0.0036	2.36
	6	27	-1.4904	-22.8489	3.7296		
		28	-1.4904	-36.4489	-114.8661	0.0025	2.36
	7	27	0.4899	1.6745	5.5080		
		28	0.4899	1.6745	12.2059	-0.0004	2.12
28	1	28	-3.6229	-88.0476	-278.2880		
		29	-3.6229	-94.8494	-354.1902	0.0006	0.42
	2	28	-1.6426	-49.9242	-151.2159		
		29	-1.6426	-53.9040	-194.3046	0.0003	0.42
	3	28	-2.3999	-58.2967	-184.2982		
		29	-2.3999	-62.7995	-234.5531	0.0004	0.42
	4	28	-1.2350	-35.8712	-109.5499		
		29	-1.2350	-38.7139	-140.5028	0.0002	0.42
	5	28	-2.1325	-51.5986	-163.4219		
		29	-2.1325	-55.5785	-207.9004	0.0003	0.42
	6	28	-1.4904	-36.4489	-114.8661		
		29	-1.4904	-39.2709	-146.2898	0.0002	0.42

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	7	28	0.4899	1.6745	12.2059		
		29	0.4899	1.6745	13.5958		
29	1	29	43.7767	22.3370	-163.7269		
		30	43.7767	22.3370	81.9802	0.0443	3.66
	2	29	24.8788	12.4229	-90.7657		
		30	24.8788	12.4229	45.8866	0.0244	3.65
	3	29	28.9844	14.7917	-108.4218		
		30	28.9844	14.7917	54.2873	0.0293	3.66
	4	29	17.8680	8.9599	-65.5034		
		30	17.8680	8.9599	33.0557	0.0176	3.66
	5	29	25.6516	13.1083	-96.0871		
		30	25.6516	13.1083	48.1045	0.0260	3.67
	6	29	18.1250	9.2287	-67.6398		
		30	18.1250	9.2287	33.8757	0.0183	3.66
	7	29	-0.7728	-0.6854	5.3214		
		30	-0.7728	-0.6854	-2.2180	-0.0016	3.86
30	1	31	-51.0728	25.9599	-95.0954		
		29	-51.0728	25.9599	190.4633	-0.0443	7.33
	2	31	-29.0252	14.0655	-51.1818		
		29	-29.0252	14.0655	103.5389	-0.0242	7.32
	3	31	-33.8151	17.1916	-62.9766		
		29	-33.8151	17.1916	126.1313	-0.0293	7.33
	4	31	-20.8460	10.1949	-37.1450		
		29	-20.8460	10.1949	74.9994	-0.0175	7.32
	5	31	-29.9269	15.2408	-55.8355		
		29	-29.9269	15.2408	111.8132	-0.0260	7.33
	6	31	-21.1459	10.7191	-39.2599		
		29	-21.1459	10.7191	78.6500	-0.0183	7.33
	7	31	0.9016	-1.1753	4.6537		
		29	0.9016	-1.1753	-8.2743	0.0018	7.49

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	Units :	K	K	K -Ft

LOAD COMBINATIONS:

COMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2

COMB 2 : 1.40 X CASE 1
+ 1.70 X CASE 3

COMB 3 : 1.00 X CASE 1
+ 1.00 X CASE 2

COMB 4 : 1.00 X CASE 1
+ 1.00 X CASE 3

COMB 5 : 1.40 X CASE 1

COMB 6 : 1.70 X CASE 2

COMB 7 : 1.70 X CASE 3

1	1	-23.2209	44.6047	-85.1656
	2	-23.0885	44.6133	-84.4321
	3	-15.3117	29.4715	-56.1610
	4	-15.2338	29.4765	-55.7295
	5	-13.1083	25.6516	-48.1045
	6	-10.1126	18.9531	-37.0611
	7	-9.9802	18.9617	-36.3275
2	1	27.0619	52.0388	-99.2010
	2	27.2229	52.0488	-100.0806
	3	17.8399	34.3834	-65.3916
	4	17.9346	34.3893	-65.9090
	5	15.2408	29.9269	-55.8355
	6	11.8211	22.1120	-43.3655
	7	11.9821	22.1220	-44.2451
9	1	11.7034	76.4073	42.9504
	2	12.0115	76.3312	44.4892
	3	7.1028	52.0541	26.0628
	4	7.2840	52.0093	26.9680
	5	1.7331	56.3949	6.3298
	6	9.9703	20.0123	36.6206
	7	10.2783	19.9363	38.1594

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
10	1	-17.0743	92.4528	62.5501
	2	-16.8719	92.3607	61.2087
	3	-10.3686	62.9854	37.9900
	4	-10.2495	62.9313	37.2010
	5	-2.5774	68.2379	9.4870
	6	-14.4969	24.2149	53.0632
	7	-14.2945	24.1229	51.7218
16	1	-8.6423	72.0502	-31.6801
	2	-9.1574	72.9840	-33.1439
	3	-5.0837	49.1742	-18.6354
	4	-5.3867	49.7235	-19.4964
	5	-0.0000	53.8812	-0.0000
	6	-8.6423	18.1690	-31.6801
	7	-9.1574	19.1028	-33.1439
17	1	12.6667	87.1808	-46.4568
	2	14.0992	88.3106	-52.3312
	3	7.4510	59.5008	-27.3275
	4	8.2936	60.1654	-30.7831
	5	0.0000	65.1962	-0.0000
	6	12.6667	21.9845	-46.4568
	7	14.0992	23.1144	-52.3312
23	1	-2.2362	97.2471	-8.1427
	2	7.3163	76.4468	27.3413
	3	-1.5339	64.3128	-5.5877
	4	4.0852	52.0773	15.2852
	5	-1.7331	56.3949	-6.3298
	6	-0.5031	40.8521	-1.8129
	7	9.0494	20.0518	33.6711
24	1	3.3647	117.6689	-12.4202
	2	-9.8896	92.5006	35.5079
	3	2.3041	77.8184	-8.5018
	4	-5.4925	63.0135	19.6912
	5	2.5774	68.2379	-9.4870
	6	0.7873	49.4311	-2.9332
	7	-12.4669	24.2627	44.9949
30	1	22.3370	43.7767	81.9802
	2	12.4229	24.8788	45.8866
	3	14.7917	28.9844	54.2873
	4	8.9599	17.8680	33.0557

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	5	13.1083	25.6516	48.1045
	6	9.2287	18.1250	33.8757
	7	-0.6854	-0.7728	-2.2180
31	1	-25.9599	51.0728	95.0954
	2	-14.0655	29.0252	51.1818
	3	-17.1916	33.8151	62.9766
	4	-10.1949	20.8460	37.1450
	5	-15.2408	29.9269	55.8355
	6	-10.7191	21.1459	39.2599
	7	1.1753	-0.9016	-4.6537

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Project No. _____ Date _____ By _____

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- ☐ Telephone record
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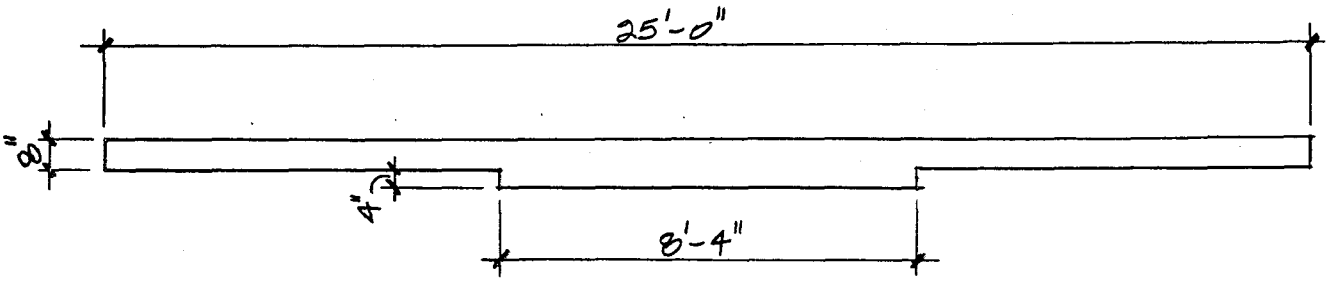
FIND MOMENT CAPACITY OF SLAB - 2nd FLR THRU 5th FLR.

SLAB BEAM "D" - DROPPED PANEL SECTION

$f'_c = 2300$ psi
$f_y = 60$ ksi



$b = 100''$

TOP BARS = 26 #5 ⇒ 8.06
14 #5 ⇒ 4.34
12.40 in^2

$d = 10.31''$

$$a = \frac{12.40(60)}{.85(2.3)(100)} = 3.81''$$

$$\phi M_n = 0.9\left(\frac{1}{12}\right)\left[12.40(60)\left(10.31 - \frac{3.81}{2}\right)\right]$$

$\phi M_n = 469^{1-k}$ $\quad M_u = 455^{1-k}$

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CHECK NEG. MOMENT IN 8" SECTION @ EDGE OF DROPPED PANEL

$d = 6.31''$

$A_s = 12.40 \text{ IN}^2$

$$a = \frac{12.40(60)}{.85(2.3)(300)} = 1.27''$$

$$\phi M_n = 0.9\left(\frac{1}{12}\right)\left[12.40(60)\left(6.31 - \frac{1.27}{2}\right)\right]$$

$\phi M_n = 316.7^{1-k}$ $\quad M_u = 156.4^{1-k}$ ✓ OK

CHECK POSITIVE MOMENT CAPACITY

BOTTOM BARS = 22 #5 ⇒ 6.82
16 #5 ⇒ 4.96
11.78 IN²

$d = 6.06''$

$$a = \frac{11.78(60)}{.85(2.3)(300)} = 1.21''$$

$$\phi M_n = .9\left(\frac{1}{12}\right)\left[11.78(60)\left(6.06 - \frac{1.21}{2}\right)\right]$$

$\phi M_n = 357.2^{1-k}$ $\quad M_u = 201^{1-k}$ ✓ OK

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MAX NEG. MOMENT = 455^{1-k} (EL. #25 - NODE #25)

RESERVE CAPACITY = $469^{1-k} - 455^{1-k} = 14^{1-k}$

FACTORED MOMENT CAUSED BY 80 psf LL

$M_u = 190.23^{1-k}$ (EL. #25 - NODE #25 - LC = 6)

FIND RESERVE CAPACITY IN PSF:

$$\frac{w_R}{14} = \frac{80}{190.23}$$

$$w_R = 5.89 \text{ psf}$$

TOTAL LIVE LOAD CAPACITY = 80 + 5.89 = 85.89 psf

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5th FLOOR

EAST-WEST FRAME "3"

(TYP. FOR 2nd, 3rd, 4th & 5th FLRS.)

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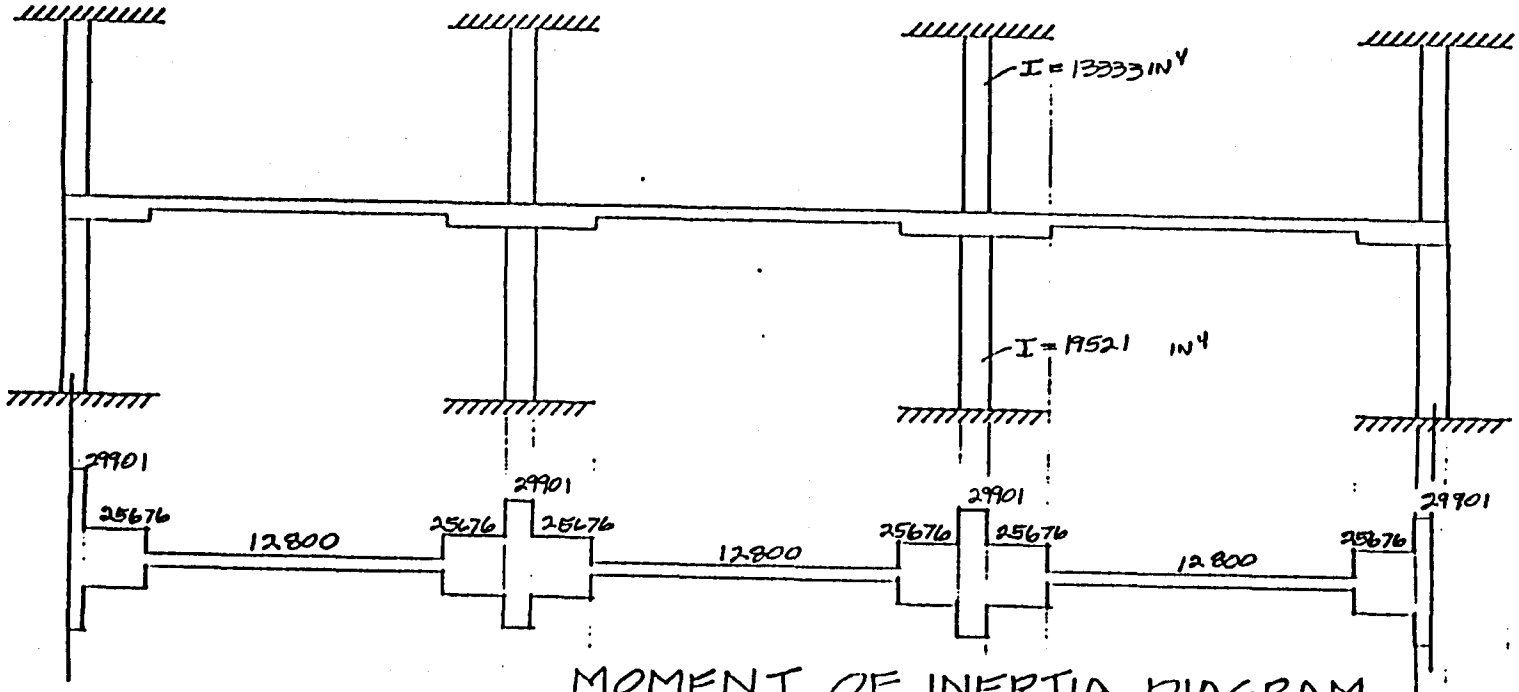
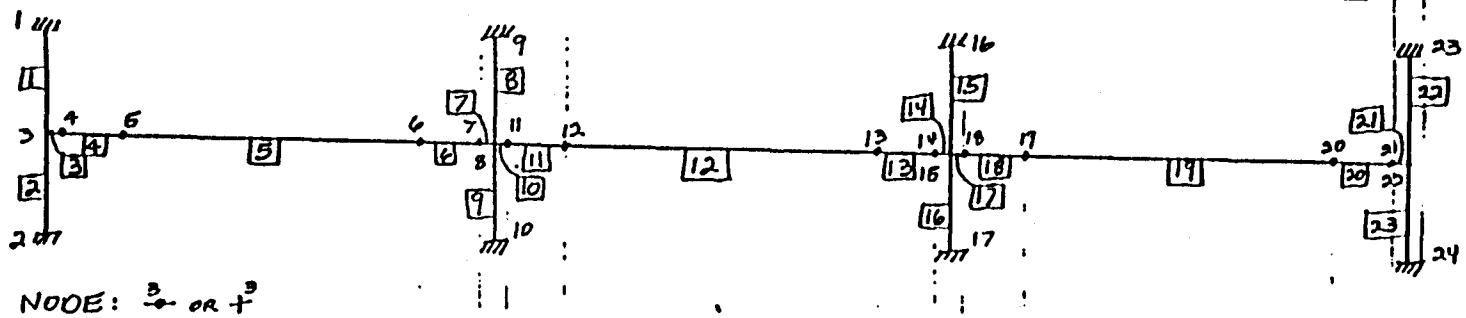
$\ell_2 = 25$

$E_{cs} = 2.734 \times 10^6$ psi

$E_{cc} = 3.491 \times 10^6$ psi



MOMENT OF INERTIA DIAGRAM



NODE: 3 OR 9

ELEMENT: 3

FIXED SUPPORT

COMPUTER MODEL

N O D A L I N F O R M A T I O N

NODE NO	NODAL COORDINATES X	Y	SUPPORT CONDITIONS CODE	PX STIFF	PY STIFF	M STIFF
Units :	Ft	Ft		K /In	K /In	K -In /Deg
1	0.000	22.000	F			
2	0.000	0.000	F			
3	0.000	11.000				
4	0.830	11.000				
5	4.830	11.000				
6	20.830	11.000				
7	24.170	11.000				
8	25.000	11.000				
9	25.000	22.000	F			
10	25.000	0.000	F			
11	25.830	11.000				
12	29.170	11.000				
13	45.840	11.000				
14	49.170	11.000				
15	50.000	11.000				
16	50.000	22.000	F			
17	50.000	0.000	F			
18	50.830	11.000				
19	54.160	11.000				
20	70.830	11.000				
21	74.170	11.000				
22	75.000	11.000				
23	75.000	22.000	F			
24	75.000	0.000	F			

E L E M E N T I N F O R M A T I O N

ELEM NO	NE NODE	FE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	FE HINGE
		Units :	Ft	Deg				
1	3	1	11.000	90.00	5	BEAM		
2	2	3	11.000	90.00	7	BEAM		
3	3	4	0.830	0.00	4	BEAM		
4	4	5	4.000	0.00	2	BEAM		
5	5	6	16.000	0.00	1	BEAM		
6	6	7	3.340	0.00	2	BEAM		
7	7	8	0.830	0.00	3	BEAM		
8	8	9	11.000	90.00	5	BEAM		
9	10	8	11.000	90.00	7	BEAM		
10	8	11	0.830	0.00	3	BEAM		
11	11	12	3.340	0.00	2	BEAM		
12	12	13	16.670	0.00	1	BEAM		
13	13	14	3.330	0.00	2	BEAM		
14	14	15	0.830	0.00	3	BEAM		

E L E M E N T I N F O R M A T I O N

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
15	15	16	11.000	90.00	5	BEAM		
16	17	15	11.000	90.00	7	BEAM		
17	15	18	0.830	0.00	3	BEAM		
18	18	19	3.330	0.00	2	BEAM		
19	19	20	16.670	0.00	1	BEAM		
20	20	21	3.340	0.00	2	BEAM		
21	21	22	0.830	0.00	3	BEAM		
22	22	23	11.000	90.00	5	BEAM		
23	24	22	11.000	90.00	7	BEAM		

P R O P E R T Y I N F O R M A T I O N

PROP NO	SECTION NAME	MODULUS	AREA	I	DIST
	Units :	K /In 2	In2	In4	Ft
1	SLAB BEAM ONLY	2.7e+003	2.4e+003	1.28e+004	
2	SLAB BEAM @ DROP PAN	2.7e+003	2.8e+003	2.57e+004	
3	S.B. @ INT. COLUMNS	2.7e+003	2.8e+003	2.99e+004	
4	S.B. @ EXT. COLUMNS	2.7e+003	2.8e+003	3.12e+004	
5	5TH FLOOR INT. COLUM	3.5e+003	400	1.33e+004	
7	4TH FLOOR INT. COLUM	3.5e+003	484	1.95e+004	

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
					Units :	Ft	K /Ft	K /Ft	Ft-K /Ft
Description : DL									
Element List : 3-7,10-14,17-21									
1	1	UNIF	GLO	FRAC	B	0.00	0.00	-3.43	0.00
					E	1.00	0.00	-3.43	0.00
Description : LL									
Element List : 3-7,10-14									
2	2	UNIF	GLO	FRAC	B	0.00	0.00	-2.00	0.00
					E	1.00	0.00	-2.00	0.00
Description : LL POS.									
Element List : 3-7,17-21									
3	3	UNIF	GLO	FRAC	B	0.00	0.00	-2.00	0.00
					E	1.00	0.00	-2.00	0.00

N O D A L D I S P L A C E M E N T S

NODE NO	LOAD COMB	DX	DY	ROTATION
	Units :	In	In	Deg

LOAD COMBINATIONS:

COMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2

COMB 2 : 1.40 X CASE 1
+ 1.70 X CASE 3

COMB 3 : 1.00 X CASE 1
+ 1.00 X CASE 2

COMB 4 : 1.00 X CASE 1
+ 1.00 X CASE 3

COMB 5 : 1.40 X CASE 1

COMB 6 : 1.70 X CASE 2

COMB 7 : 1.70 X CASE 3

1	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
2	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
3	1	0.0010	-0.0042	-0.0801
	2	0.0006	-0.0043	-0.0833
	3	0.0006	-0.0028	-0.0530
	4	0.0004	-0.0028	-0.0549
	5	0.0004	-0.0025	-0.0470
	6	0.0006	-0.0017	-0.0331
	7	0.0002	-0.0018	-0.0363

N O D A L D I S P L A C E M E N T S

NODE NO	LOAD COMB	DX	DY	ROTATION
4	1	0.0010	-0.0207	-0.1093
	2	0.0006	-0.0215	-0.1138
	3	0.0006	-0.0137	-0.0724
	4	0.0004	-0.0142	-0.0750
	5	0.0004	-0.0122	-0.0641
	6	0.0006	-0.0086	-0.0452
	7	0.0002	-0.0093	-0.0497
5	1	0.0009	-0.1547	-0.1870
	2	0.0005	-0.1617	-0.1968
	3	0.0006	-0.1024	-0.1239
	4	0.0004	-0.1065	-0.1296
	5	0.0004	-0.0908	-0.1099
	6	0.0006	-0.0639	-0.0771
	7	0.0002	-0.0709	-0.0869
6	1	0.0006	-0.0890	0.1535
	2	0.0002	-0.1105	0.1740
	3	0.0004	-0.0591	0.1018
	4	0.0002	-0.0717	0.1138
	5	0.0002	-0.0531	0.0908
	6	0.0005	-0.0359	0.0628
	7	0.0001	-0.0574	0.0833
7	1	0.0006	-0.0133	0.0440
	2	0.0002	-0.0170	0.0749
	3	0.0004	-0.0089	0.0293
	4	0.0001	-0.0110	0.0475
	5	0.0001	-0.0080	0.0271
	6	0.0004	-0.0053	0.0168
	7	0.0000	-0.0090	0.0478
8	1	0.0006	-0.0090	0.0043
	2	0.0002	-0.0071	0.0378
	3	0.0004	-0.0060	0.0030
	4	0.0001	-0.0048	0.0227
	5	0.0001	-0.0052	0.0040
	6	0.0004	-0.0038	0.0003
	7	0.0000	-0.0018	0.0338
9	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000

N O D A L D I S P L A C E M E N T S

NODE NO	LOAD COMB	DX	DY	ROTATION
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
10	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
11	1	0.0006	-0.0117	-0.0336
	2	0.0002	-0.0025	0.0152
	3	0.0003	-0.0077	-0.0220
	4	0.0001	-0.0023	0.0067
	5	0.0001	-0.0065	-0.0174
	6	0.0004	-0.0052	-0.0162
	7	0.0000	0.0040	0.0326
12	1	0.0005	-0.0779	-0.1373
	2	0.0001	-0.0178	-0.0483
	3	0.0003	-0.0512	-0.0903
	4	0.0001	-0.0158	-0.0380
	5	0.0001	-0.0426	-0.0755
	6	0.0004	-0.0352	-0.0617
	7	0.0000	0.0249	0.0272
13	1	0.0002	-0.0924	0.1480
	2	-0.0000	-0.0175	0.0481
	3	0.0001	-0.0597	0.0965
	4	-0.0000	-0.0157	0.0378
	5	-0.0001	-0.0424	0.0754
	6	0.0003	-0.0500	0.0726
	7	0.0000	0.0249	-0.0273
14	1	0.0002	-0.0143	0.0585
	2	-0.0001	-0.0025	-0.0154
	3	0.0001	-0.0092	0.0366
	4	-0.0000	-0.0023	-0.0069
	5	-0.0001	-0.0064	0.0173
	6	0.0003	-0.0079	0.0412
	7	0.0000	0.0040	-0.0327

N O D A L D I S P L A C E M E N T S

NODE NO	LOAD COMB	DX	DY	ROTATION
15	1	0.0002	-0.0071	0.0242
	2	-0.0001	-0.0071	-0.0380
	3	0.0001	-0.0048	0.0137
	4	-0.0001	-0.0048	-0.0229
	5	-0.0001	-0.0052	-0.0042
	6	0.0003	-0.0018	0.0283
	7	0.0000	-0.0018	-0.0339
16	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
17	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
18	1	0.0002	-0.0051	-0.0011
	2	-0.0001	-0.0170	-0.0753
	3	0.0001	-0.0040	-0.0041
	4	-0.0001	-0.0110	-0.0477
	5	-0.0001	-0.0080	-0.0273
	6	0.0003	0.0029	0.0262
	7	0.0000	-0.0090	-0.0479
19	1	0.0001	-0.0351	-0.0736
	2	-0.0001	-0.1106	-0.1746
	3	0.0001	-0.0274	-0.0548
	4	-0.0001	-0.0717	-0.1142
	5	-0.0001	-0.0531	-0.0910
	6	0.0003	0.0180	0.0174
	7	-0.0000	-0.0574	-0.0836
20	1	-0.0000	-0.0709	0.0998
	2	-0.0005	-0.1345	0.1917
	3	-0.0001	-0.0513	0.0722
	4	-0.0003	-0.0887	0.1263

N O D A L D I S P L A C E M E N T S

NODE NO	LOAD COMB	DX	DY	ROTATION
	5	-0.0003	-0.0757	0.1073
	6	0.0003	0.0047	-0.0076
	7	-0.0001	-0.0588	0.0844
21	1	-0.0001	-0.0115	0.0606
	2	-0.0005	-0.0215	0.1142
	3	-0.0001	-0.0083	0.0437
	4	-0.0003	-0.0142	0.0753
	5	-0.0003	-0.0122	0.0644
	6	0.0003	0.0006	-0.0038
	7	-0.0002	-0.0093	0.0498
22	1	-0.0001	-0.0024	0.0439
	2	-0.0005	-0.0043	0.0826
	3	-0.0001	-0.0017	0.0317
	4	-0.0003	-0.0028	0.0545
	5	-0.0003	-0.0025	0.0466
	6	0.0003	0.0001	-0.0027
	7	-0.0002	-0.0018	0.0360
23	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
24	1	0.0000	0.0000	0.0000
	2	0.0000	0.0000	0.0000
	3	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0000
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
		Units :	K	K	K -Ft	K -Ft /In	Ft

OA COMBINATIONS:

OMB 1 : 1.40 X CASE 1

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	+ 1.70 X CASE 2						
COMB 2 :	1.40 X CASE 1						
	+ 1.70 X CASE 3						
COMB 3 :	1.00 X CASE 1						
	+ 1.00 X CASE 2						
COMB 4 :	1.00 X CASE 1						
	+ 1.00 X CASE 3						
COMB 5 :	1.40 X CASE 1						
COMB 6 :	1.70 X CASE 2						
COMB 7 :	1.70 X CASE 3						
1	1	3	44.3072	-22.6396	165.5819		
		1	44.3072	-22.6396	-83.4542	-0.0274	3.66
	2	3	45.1778	-23.4584	171.7511		
		1	45.1778	-23.4584	-86.2910	-0.0285	3.66
	3	3	29.3360	-14.9862	109.6165		
		1	29.3360	-14.9862	-55.2317	-0.0181	3.66
	4	3	29.8481	-15.4678	113.2454		
		1	29.8481	-15.4678	-56.9004	-0.0188	3.66
	5	3	25.9653	-13.2388	96.9088		
		1	25.9653	-13.2388	-48.7185	-0.0161	3.66
	6	3	18.3420	-9.4008	68.6731		
		1	18.3420	-9.4008	-34.7357	-0.0113	3.65
	7	3	19.2125	-10.2195	74.8423		
		1	19.2125	-10.2195	-37.5725	-0.0124	3.66
2	1	2	-53.6118	-32.4408	118.3022		
		3	-53.6118	-32.4408	-238.5464	0.0273	7.32
	2	2	-54.6651	-33.9033	123.9064		
		3	-54.6651	-33.9033	-249.0294	0.0284	7.33
	3	2	-35.4966	-21.4906	78.3857		
		3	-35.4966	-21.4906	-158.0112	0.0180	7.32

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	4	2	-36.1162	-22.3509	81.6822		
		3	-36.1162	-22.3509	-164.1776	0.0187	7.33
	5	2	-31.4180	-19.1019	69.7827		
		3	-31.4180	-19.1019	-140.3387	0.0160	7.33
	6	2	-22.1938	-13.3388	48.5195		
		3	-22.1938	-13.3388	-98.2077	0.0112	7.32
	7	2	-23.2471	-14.8013	54.1237		
		3	-23.2471	-14.8013	-108.6907	0.0124	7.33
3	1	3	-9.8011	97.9190	-404.1284		
		4	-9.8011	91.1172	-325.6783	0.0006	0.41
	2	3	-10.4449	99.8428	-420.7805		
		4	-10.4449	93.0410	-340.7337	0.0007	0.41
	3	3	-6.5044	64.8326	-267.6277		
		4	-6.5044	60.3299	-215.6853	0.0004	0.41
	4	3	-6.8831	65.9643	-277.4231		
		4	-6.8831	61.4615	-224.5414	0.0004	0.41
	5	3	-5.8631	57.3833	-237.2475		
		4	-5.8631	53.4034	-191.2710	0.0004	0.41
	6	3	-3.9380	40.5357	-166.8809		
		4	-3.9380	37.7137	-134.4073	0.0003	0.41
	7	3	-4.5818	42.4596	-183.5330		
		4	-4.5818	39.6376	-149.4627	0.0003	0.41
4	1	4	-9.8011	91.1172	-325.6783		
		5	-9.8011	58.3372	-26.7697	0.0082	1.71
	2	4	-10.4449	93.0410	-340.7337		
		5	-10.4449	60.2610	-34.1298	0.0087	1.72
	3	4	-6.5044	60.3299	-215.6853		
		5	-6.5044	38.6299	-17.7659	0.0054	1.71
	4	4	-6.8831	61.4615	-224.5414		
		5	-6.8831	39.7615	-22.0953	0.0057	1.72
	5	4	-5.8631	53.4034	-191.2710		
		5	-5.8631	34.2234	-16.0173	0.0048	1.71

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	6	4	-3.9380	37.7137	-134.4073		
		5	-3.9380	24.1137	-10.7524	0.0034	1.71
	7	4	-4.5818	39.6376	-149.4627		
		5	-4.5818	26.0376	-18.1124	0.0039	1.73
5	1	5	-9.8011	58.3372	-26.7697	180.8706	7.12
		6	-9.8011	-72.7828	-142.3351	-0.2125	7.57
	2	5	-10.4449	60.2610	-34.1298	187.4313	7.35
		6	-10.4449	-70.8590	-118.9141	-0.2248	7.70
	3	5	-6.5044	38.6299	-17.7659	119.7701	7.12
		6	-6.5044	-48.1701	-94.0882	-0.1408	7.57
	4	5	-6.8831	39.7615	-22.0953	123.6169	7.33
		6	-6.8831	-47.0385	-80.3111	-0.1480	7.68
	5	5	-5.8631	34.2234	-16.0173	106.1143	7.14
		6	-5.8631	-42.4966	-82.2026	-0.1249	7.58
	6	5	-3.9380	24.1137	-10.7524	74.7583	7.09
		6	-3.9380	-30.2863	-60.1325	-0.0876	7.55
	7	5	-4.5818	26.0376	-18.1124	81.5867	7.66
		6	-4.5818	-28.3624	-36.7115	-0.1000	7.85
6	1	6	-9.8011	-72.7828	-142.3351		
		7	-9.8011	-100.1541	-431.1398	0.0096	1.81
	2	6	-10.4449	-70.8590	-118.9141		
		7	-10.4449	-98.2303	-401.2933	0.0087	1.82
	3	6	-6.5044	-48.1701	-94.0882		
		7	-6.5044	-66.2896	-285.2360	0.0063	1.81
	4	6	-6.8831	-47.0385	-80.3111		
		7	-6.8831	-65.1580	-267.6792	0.0058	1.82
	5	6	-5.8631	-42.4966	-82.2026		
		7	-5.8631	-58.5119	-250.8867	0.0056	1.81
	6	6	-3.9380	-30.2863	-60.1325		
		7	-3.9380	-41.6423	-180.2531	0.0040	1.81
	7	6	-4.5818	-28.3624	-36.7115		
		7	-4.5818	-39.7184	-150.4066	0.0031	1.84

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
7	1	7	-9.8011	-100.1541	-431.1398		
		8	-9.8011	-106.9560	-517.0905	0.0009	0.42
	2	7	-10.4449	-98.2303	-401.2933		
		8	-10.4449	-105.0322	-485.6472	0.0008	0.42
	3	7	-6.5044	-66.2896	-285.2360		
		8	-6.5044	-70.7924	-342.1251	0.0006	0.42
	4	7	-6.8831	-65.1580	-267.6792		
		8	-6.8831	-69.6607	-323.6290	0.0005	0.42
	5	7	-5.8631	-58.5119	-250.8867		
		8	-5.8631	-62.4917	-301.1032	0.0005	0.42
	6	7	-3.9380	-41.6423	-180.2531		
		8	-3.9380	-44.4643	-215.9873	0.0004	0.42
	7	7	-4.5818	-39.7184	-150.4066		
		8	-4.5818	-42.5404	-184.5440	0.0003	0.42
8	1	8	95.5559	1.0600	-8.0261		
		9	95.5559	1.0600	3.6337	0.0014	3.78
	2	8	74.6424	10.5355	-77.3354		
		9	74.6424	10.5355	38.5547	0.0129	3.67
	3	8	63.1920	0.7614	-5.7399		
		9	63.1920	0.7614	2.6350	0.0010	3.77
	4	8	50.8900	6.3352	-46.5101		
		9	50.8900	6.3352	23.1767	0.0078	3.67
	5	8	55.3960	1.0935	-8.0816		
		9	55.3960	1.0935	3.9465	0.0014	3.70
	6	8	40.1599	-0.0335	0.0555		
		9	40.1599	-0.0335	-0.3128		
	7	8	19.2464	9.4420	-69.2538		
		9	19.2464	9.4420	34.6082	0.0115	3.67
9	1	10	-115.6226	1.9559	-7.5417		
		8	-115.6226	1.9559	13.9727	-0.0015	7.43

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	2	10	-90.3172	15.5454	-57.1101		
		8	-90.3172	15.5454	113.8893	-0.0129	7.34
	3	10	-76.4624	1.3650	-5.2342		
		8	-76.4624	1.3650	9.7803	-0.0011	7.42
	4	10	-61.5768	9.3588	-34.3921		
		8	-61.5768	9.3588	68.5548	-0.0078	7.34
	5	10	-67.0291	1.7013	-6.3303		
		8	-67.0291	1.7013	12.3845	-0.0014	7.36
	6	10	-48.5935	0.2545	-1.2115		
		8	-48.5935	0.2545	1.5882	-0.0001	8.02
	7	10	-23.2881	13.8441	-50.7798		
		8	-23.2881	13.8441	101.5048	-0.0115	7.33
10	1	8	-8.9053	104.2225	-495.0917		
		11	-8.9053	97.4207	-411.4098	0.0008	0.41
	2	8	-5.4349	59.9274	-294.4225		
		11	-5.4349	55.9476	-246.3344	0.0005	0.41
	3	8	-5.9008	68.8620	-326.6048		
		11	-5.9008	64.3593	-271.3180	0.0005	0.41
	4	8	-3.8595	42.8061	-208.5641		
		11	-3.8595	39.9633	-174.2148	0.0003	0.41
	5	8	-5.2552	59.9334	-280.6371		
		11	-5.2552	55.9535	-232.5440	0.0005	0.41
	6	8	-3.6500	44.2891	-214.4546		
		11	-3.6500	41.4671	-178.8657	0.0004	0.41
	7	8	-0.1797	-0.0060	-13.7854		
		11	-0.1797	-0.0060	-13.7903		
11	1	11	-8.9053	97.4207	-411.4098		
		12	-8.9053	70.0494	-131.7348	0.0091	1.52
	2	11	-5.4349	55.9476	-246.3344		
		12	-5.4349	39.9323	-86.2150	0.0056	1.53
	3	11	-5.9008	64.3593	-271.3180		
		12	-5.9008	46.2398	-86.6177	0.0060	1.52

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	4	11	-3.8595	39.9633	-174.2148		
		12	-3.8595	28.5238	-59.8413	0.0039	1.53
	5	11	-5.2552	55.9535	-232.5440		
		12	-5.2552	39.9382	-72.4048	0.0051	1.52
	6	11	-3.6500	41.4671	-178.8657		
		12	-3.6500	30.1111	-59.3300	0.0040	1.53
	7	11	-0.1797	-0.0060	-13.7903		
		12	-0.1797	-0.0060	-13.8102	0.0005	1.67
2	1	12	-8.9053	70.0494	-131.7348	167.6500	8.55
		13	-8.9053	-66.5613	-102.6613	-0.2059	8.46
	2	12	-5.4349	39.9323	-86.2150	80.0611	8.33
		13	-5.4349	-40.0004	-86.7825	-0.0897	8.33
	3	12	-5.9008	46.2398	-86.6177	110.4436	8.52
		13	-5.9008	-44.1950	-69.5747	-0.1354	8.44
	4	12	-3.8595	28.5238	-59.8413	58.9335	8.33
		13	-3.8595	-28.5709	-60.2342	-0.0671	8.33
	5	12	-5.2552	39.9382	-72.4048	93.9209	8.33
		13	-5.2552	-39.9944	-72.8730	-0.1135	8.33
	6	12	-3.6500	30.1111	-59.3300	74.0055	8.86
		13	-3.6500	-26.5669	-29.7883	-0.0925	8.61
	7	12	-0.1797	-0.0060	-13.8102		
		13	-0.1797	-0.0060	-13.9095	0.0238	8.34
3	1	13	-8.9053	-66.5613	-102.6613		
		14	-8.9053	-93.8506	-369.7471	0.0078	1.83
	2	13	-5.4349	-40.0004	-86.7825		
		14	-5.4349	-55.9677	-246.5693	0.0055	1.80
	3	13	-5.9008	-44.1950	-69.5747		
		14	-5.9008	-62.2602	-246.8227	0.0052	1.82
	4	13	-3.8595	-28.5709	-60.2342		
		14	-3.8595	-39.9762	-174.3652	0.0039	1.80
	5	13	-5.2552	-39.9944	-72.8730		
		14	-5.2552	-55.9618	-232.6400	0.0051	1.81

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	6	13	-3.6500	-26.5669	-29.7883		
		14	-3.6500	-37.8889	-137.1071	0.0027	1.85
	7	13	-0.1797	-0.0060	-13.9095		
		14	-0.1797	-0.0060	-13.9293	0.0005	1.67
14	1	14	-8.9053	-93.8506	-369.7471		
		15	-8.9053	-100.6525	-450.4659	0.0007	0.42
	2	14	-5.4349	-55.9677	-246.5693		
		15	-5.4349	-59.9476	-294.6742	0.0005	0.42
	3	14	-5.9008	-62.2602	-246.8227		
		15	-5.9008	-66.7630	-300.3673	0.0005	0.42
	4	14	-3.8595	-39.9762	-174.3652		
		15	-3.8595	-42.8189	-208.7251	0.0003	0.42
	5	14	-5.2552	-55.9618	-232.6400		
		15	-5.2552	-59.9416	-280.7399	0.0005	0.42
	6	14	-3.6500	-37.8889	-137.1071		
		15	-3.6500	-40.7109	-169.7260	0.0003	0.42
	7	14	-0.1797	-0.0060	-13.9293		
		15	-0.1797	-0.0060	-13.9342		
15	1	15	74.5896	6.7201	-49.3613		
		16	74.5896	6.7201	24.5603	0.0082	3.67
	2	15	74.7393	-10.6241	77.9399		
		16	74.7393	-10.6241	-38.9249	-0.0130	3.67
	3	15	50.8651	3.8092	-27.9765		
		16	50.8651	3.8092	13.9248	0.0047	3.67
	4	15	50.9532	-6.3933	46.9065		
		16	50.9532	-6.3933	-23.4194	-0.0078	3.67
	5	15	55.4453	-1.1409	8.4056		
		16	55.4453	-1.1409	-4.1442	-0.0014	3.68
	6	15	19.1443	7.8610	-57.7668		
		16	19.1443	7.8610	28.7045	0.0097	3.67
	7	15	19.2940	-9.4832	69.5343		
		16	19.2940	-9.4832	-34.7806	-0.0116	3.67

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
16	1	17	-90.2534	9.9672	-36.6638		
		15	-90.2534	9.9672	72.9753	-0.0083	7.34
	2	17	-90.4345	-15.6028	57.2543		
		15	-90.4345	-15.6028	-114.3767	0.0130	7.33
	3	17	-61.5468	5.6446	-20.7589		
		15	-61.5468	5.6446	41.3321	-0.0047	7.34
	4	17	-61.6534	-9.3965	34.4871		
		15	-61.6534	-9.3965	-68.8749	0.0078	7.34
	5	17	-67.0889	-1.7327	6.4105		
		15	-67.0889	-1.7327	-12.6496	0.0014	7.33
	6	17	-23.1646	11.6999	-43.0744		
		15	-23.1646	11.6999	85.6249	-0.0097	7.34
	7	17	-23.3457	-13.8701	50.8438		
		15	-23.3457	-13.8701	-101.7271	0.0116	7.33
17	1	15	-5.6582	64.1906	-328.1294		
		18	-5.6582	60.2107	-276.5029	0.0005	0.41
	2	15	-10.4137	105.2263	-486.9908		
		18	-10.4137	98.4244	-402.4757	0.0008	0.41
	3	15	-4.0654	45.6490	-231.0587		
		18	-4.0654	42.8062	-194.3498	0.0004	0.41
	4	15	-6.8627	69.7876	-324.5065		
		18	-6.8627	65.2849	-268.4515	0.0005	0.41
	5	15	-5.8471	62.5926	-301.7951		
		18	-5.8471	58.6127	-251.4949	0.0005	0.41
	6	15	0.1889	1.5980	-26.3343		
		18	0.1889	1.5980	-25.0080		
	7	15	-4.5666	42.6337	-185.1957		
		18	-4.5666	39.8117	-150.9808	0.0003	0.41
18	1	18	-5.6582	60.2107	-276.5029		
		19	-5.6582	44.2434	-102.5868	0.0063	1.54

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	2	18	-10.4137	98.4244	-402.4757		
		19	-10.4137	71.1351	-120.1591	0.0087	1.51
	3	18	-4.0654	42.8062	-194.3498		
		19	-4.0654	31.4010	-70.7948	0.0044	1.53
	4	18	-6.8627	65.2849	-268.4515		
		19	-6.8627	47.2196	-81.1314	0.0058	1.51
	5	18	-5.8471	58.6127	-251.4949		
		19	-5.8471	42.6454	-82.9001	0.0056	1.52
	6	18	0.1889	1.5980	-25.0080		
		19	0.1889	1.5980	-19.6867	0.0008	1.63
	7	18	-4.5666	39.8117	-150.9808		
		19	-4.5666	28.4897	-37.2590	0.0031	1.49
19	1	19	-5.6582	44.2434	-102.5868	101.5294	9.23
		20	-5.6582	-35.6893	-31.2886	-0.1239	8.83
	2	19	-10.4137	71.1351	-120.1591	188.5778	8.68
		20	-10.4137	-65.4756	-72.9872	-0.2414	8.51
	3	19	-4.0654	31.4010	-70.7948	73.1499	9.17
		20	-4.0654	-25.6938	-23.2253	-0.0898	8.79
	4	19	-6.8627	47.2196	-81.1314	124.3703	8.70
		20	-6.8627	-43.2151	-47.7538	-0.1589	8.52
	5	19	-5.8471	42.6454	-82.9001	106.7379	8.89
		20	-5.8471	-37.2873	-38.2403	-0.1344	8.63
	6	19	0.1889	1.5980	-19.6867		
		20	0.1889	1.5980	6.9516	0.0120	6.07
	7	19	-4.5666	28.4897	-37.2590	82.1032	8.38
		20	-4.5666	-28.1883	-34.7469	-0.1071	8.36
20	1	20	-5.6582	-35.6893	-31.2886		
		21	-5.6582	-51.7046	-177.2364	0.0034	1.87
	2	20	-10.4137	-65.4756	-72.9872		
		21	-10.4137	-92.8469	-337.3857	0.0068	1.85
	3	20	-4.0654	-25.6938	-23.2253		
		21	-4.0654	-37.1333	-128.1465	0.0025	1.87

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	4	20	-6.8627	-43.2151	-47.7538		
		21	-6.8627	-61.3346	-222.3519	0.0045	1.85
	5	20	-5.8471	-37.2873	-38.2403		
		21	-5.8471	-53.3026	-189.5253	0.0038	1.86
	6	20	0.1889	1.5980	6.9516		
		21	0.1889	1.5980	12.2889	-0.0003	1.75
	7	20	-4.5666	-28.1883	-34.7469		
		21	-4.5666	-39.5443	-147.8604	0.0030	1.85
1	1	21	-5.6582	-51.7046	-177.2364		
		22	-5.6582	-55.6844	-221.8029	0.0004	0.42
	2	21	-10.4137	-92.8469	-337.3857		
		22	-10.4137	-99.6487	-417.2714	0.0007	0.42
	3	21	-4.0654	-37.1333	-128.1465		
		22	-4.0654	-39.9760	-160.1468	0.0003	0.42
	4	21	-6.8627	-61.3346	-222.3519		
		22	-6.8627	-65.8374	-275.1283	0.0005	0.42
	5	21	-5.8471	-53.3026	-189.5253		
		22	-5.8471	-57.2824	-235.4181	0.0004	0.42
	6	21	0.1889	1.5980	12.2889		
		22	0.1889	1.5980	13.6152		
	7	21	-4.5666	-39.5443	-147.8604		
		22	-4.5666	-42.3663	-181.8533	0.0003	0.42
22	1	22	25.1966	12.2929	-90.1183		
		23	25.1966	12.2929	45.1033	0.0150	3.67
	2	22	45.0899	23.2361	-170.1663		
		23	45.0899	23.2361	85.4311	0.0282	3.66
	3	22	18.0887	8.8852	-65.1220		
		23	18.0887	8.8852	32.6158	0.0108	3.66
	4	22	29.7907	15.3225	-112.2090		
		23	29.7907	15.3225	56.3380	0.0186	3.66
	5	22	25.9196	13.1229	-96.0820		
		23	25.9196	13.1229	48.2696	0.0159	3.66

E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	6	22	-0.7231	-0.8300	5.9637		
		23	-0.7231	-0.8300	-3.1662	-0.0010	3.59
	7	22	19.1703	10.1133	-74.0843		
		23	19.1703	10.1133	37.1615	0.0123	3.66
23	1	24	-30.4879	17.9511	-65.7776		
		22	-30.4879	17.9511	131.6845	-0.0150	7.33
	2	24	-54.5588	33.6498	-123.0431		
		22	-54.5588	33.6498	247.1050	-0.0282	7.33
	3	24	-21.8873	12.9506	-47.4322		
		22	-21.8873	12.9506	95.0249	-0.0108	7.33
	4	24	-36.0467	22.1852	-81.1178		
		22	-36.0467	22.1852	162.9193	-0.0186	7.33
	5	24	-31.3628	18.9699	-69.3334		
		22	-31.3628	18.9699	139.3361	-0.0159	7.33
	6	24	0.8749	-1.0188	3.5558		
		22	0.8749	-1.0188	-7.6515	0.0009	7.25
	7	24	-23.1960	14.6799	-53.7098		
		22	-23.1960	14.6799	107.7689	-0.0123	7.33

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	Units :	K	K	K -Ft

OAD COMBINATIONS:

OMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2

OM 2 : 1.40 X CASE 1
+ 1.70 X CASE 3

OM 3 : 1.00 X CASE 1
+ 1.00 X CASE 2

OM 4 : 1.00 X CASE 1
+ 1.00 X CASE 3

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
OMB 5 :	1.40 X CASE 1			
OMB 6 :	1.70 X CASE 2			
OMB 7 :	1.70 X CASE 3			
1	1	-22.6396	44.3072	-83.4542
	2	-23.4584	45.1778	-86.2910
	3	-14.9862	29.3360	-55.2317
	4	-15.4678	29.8481	-56.9004
	5	-13.2388	25.9653	-48.7185
	6	-9.4008	18.3420	-34.7357
	7	-10.2195	19.2125	-37.5725
2	1	32.4408	53.6118	-118.3022
	2	33.9033	54.6651	-123.9064
	3	21.4906	35.4966	-78.3857
	4	22.3509	36.1162	-81.6822
	5	19.1019	31.4180	-69.7827
	6	13.3388	22.1938	-48.5195
	7	14.8013	23.2471	-54.1237
9	1	1.0600	95.5559	3.6337
	2	10.5355	74.6424	38.5547
	3	0.7614	63.1920	2.6350
	4	6.3352	50.8900	23.1767
	5	1.0935	55.3960	3.9465
	6	-0.0335	40.1599	-0.3128
	7	9.4420	19.2464	34.6082
10	1	-1.9559	115.6226	7.5417
	2	-15.5454	90.3172	57.1101
	3	-1.3650	76.4624	5.2342
	4	-9.3588	61.5768	34.3921
	5	-1.7013	67.0291	6.3303
	6	-0.2545	48.5935	1.2115
	7	-13.8441	23.2881	50.7798
16	1	6.7201	74.5896	24.5603
	2	-10.6241	74.7393	-38.9249
	3	3.8092	50.8651	13.9248
	4	-6.3933	50.9532	-23.4194
	5	-1.1409	55.4453	-4.1442
	6	7.8610	19.1443	28.7045
	7	-9.4832	19.2940	-34.7806

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
17	1	-9.9672	90.2534	36.6638
	2	15.6028	90.4345	-57.2543
	3	-5.6446	61.5468	20.7589
	4	9.3965	61.6534	-34.4871
	5	1.7327	67.0869	-6.4105
	6	-11.6999	23.1646	43.0744
	7	13.8701	23.3457	-50.8438
23	1	12.2929	25.1966	45.1033
	2	23.2361	45.0899	85.4311
	3	8.8852	18.0887	32.6158
	4	15.3225	29.7907	56.3380
	5	13.1229	25.9196	48.2696
	6	-0.8300	-0.7231	-3.1662
	7	10.1133	19.1703	37.1615
24	1	-17.9511	30.4879	65.7776
	2	-33.6498	54.5588	123.0431
	3	-12.9506	21.8873	47.4322
	4	-22.1852	36.0467	81.1178
	5	-18.9699	31.3628	69.3334
	6	1.0188	-0.8749	-3.5558
	7	-14.6799	23.1960	53.7098

BPLW

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Project _____

Subject _____

Project No. _____ Date _____ By _____

- ☐ Memorandum
- ☐ Telephone record
- ☐ Note to the file
- ☐ Minutes of meeting
- ☐ To be typed
- ☐ _____

FIND MOMENT CAPACITY OF SLAB - 2nd FLR THRU 5th FLR.

SLAB BEAM "3" - DROPPED PANEL SECTION

TOP BARS = 26 #5 ⇒ A_s = 8.06
12 #5 ⇒ A_s = 3.72
11.78 IN^2

$$a = \frac{11.78(60)}{.85(2.3)(100)} = 3.62''$$

$$d = 10.94''$$

$$\phi M_n = 0.9\left(\frac{1}{12}\right)\left[11.78(60)\left(10.94 - \frac{3.62}{2}\right)\right]$$

$\phi M_n = 484^{1-k}$ $M_u = 431.1^{1-k}$ ✓ OK

CHECK 8" SECTION:

$$d = 6.94''$$

$$a = \frac{11.78(60)}{.85(2.3)(300)} = 1.21''$$

$$\phi M_n = 0.9\left(\frac{1}{12}\right)\left[11.78(60)\left(6.94 - \frac{1.21}{2}\right)\right]$$

$\phi M_n = 336^{1-k}$ $M_u = 142^{1-k}$ ✓ OK

Copies to:

Designing to Shape the Future

BPLW

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CHECK POSITIVE MOMENT CAPACITY

BOTTOM BARS: $20\ \#5 \Rightarrow A_s = 6.20$

$16\ \#5 \Rightarrow A_s = 4.96$

$11.16\ IN^2$

$d = 6.69''$

$$a = \frac{11.16(60)}{.85(2.3)(300)} = 1.14''$$

$$\phi M_n = 0.9\left(\frac{1}{12}\right)\left[11.16(60)\left(6.69 - \frac{1.14}{2}\right)\right]$$

$\phi M_n = 307.3^{1-k}$ $\quad M_u = 189^{1-k}$ ✓OK

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MAX. NEG. MOMENT = 431^{1-k} (EL. #7 - NODE 7)

RESERVE CAPACITY = $484^{1-k} - 431^{1-k} = 53^{1-k}$

FACTORED MOMENT CAUSED BY 80psf LL

$M_u = 180.3^{1-k}$ (EL. #7, NODE #7, LC = 6)

FIND RESERVE CAPACITY IN PSF.

$$\frac{w_R}{53} = \frac{80}{180.3}$$

$$w_R = 23.5 \text{ psf}$$

TOTAL LIVE LOAD CAPACITY = 80 + 23.5 = <u>103.5 psf</u>

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Project GSA FLR ANAL.
Subject SHEAR CHECK
Project No. 91062.009 Date 10/5/92 By JMW

☐ Memorandum
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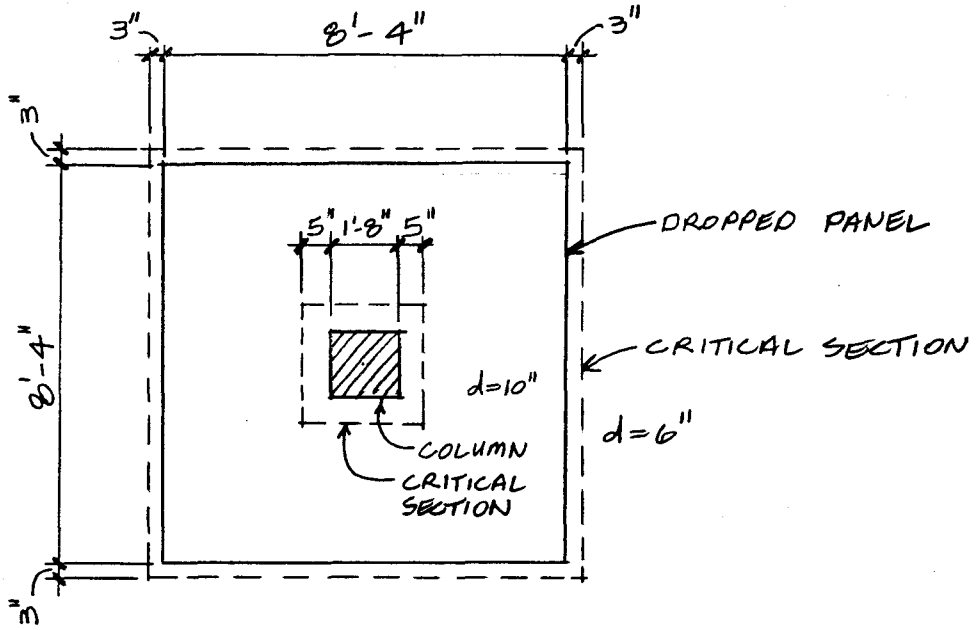
CHECK SHEAR - 6th FLOOR

$f'_c = 2300$ psi



CHECK 8" SECTION:

$b_o = 4(106) = 424"$

$\alpha_s = 40$ (INTERIOR COLUMN)

$\beta_o = \frac{424}{6} = 71$

$$V_c = \left(\frac{40(6)}{424} + 2\right)\sqrt{2300}(424)(6)\left(\frac{1}{1000}\right) = 313^k$$

$$\phi V_n = .85(313) = 266^k$$

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Project No. _____ Date _____ By _____

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CHECK @ DROPPED PANEL

$$b_o = 4(30) = 120''$$
$$\beta_o = \frac{120}{10} = 12.0$$

$$V_c = 4\sqrt{2300}(120)(10.31)\left(\frac{1}{1000}\right) = 237^k$$

$$\phi V_n = .85(237) = 202^k$$

FIND LIVE LOAD SHEAR CAPACITY IN PSF

$$DL = 137(1.4) = 192 \text{ psf}$$

$$\text{TOTAL AREA} = (25')^2 - (2.5)^2 = 619 \text{ SF.}$$

$$V_{LL} = \frac{202 - 619(.192)}{1.7} = 48.94^k$$

$$\text{LIVE LOAD CAPACITY} = \frac{48.94}{619} = .079^{ksf} = \underline{79 \text{ psf}}$$

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CHECK WIDE BEAM SHEAR

CRIT. SECTION: 6" FROM DROPPED PANEL, 25' LONG

TRIB. AREA = 25 (12.5 - 4.67) = 195.75 SQ. FT.

$$\phi V_n = .85(2)\sqrt{2300}(6)(300)$$

$$\phi V_n = 146.8^k$$

$$V_{LL} = \frac{146.8 - 196(.192)}{1.7} = 64.2^k$$

LIVE LOAD CAPACITY = $\frac{64.2(1000)}{196}$ = <u>328 psf</u>

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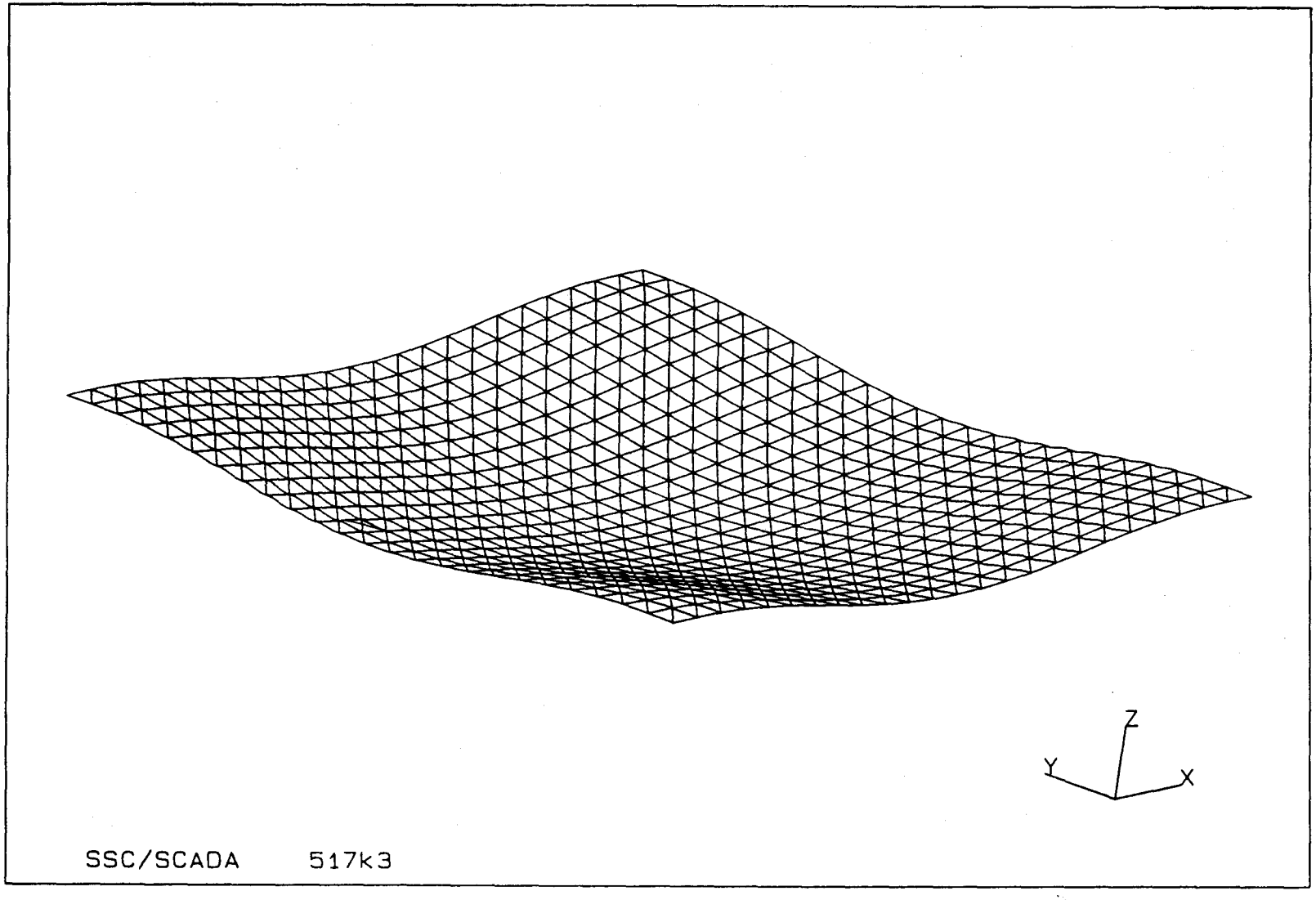
DEFLECTIONS SUMMARY	
SOURCE	DEFLECTION (IN)
ACTUAL MEASURED MAXIMUM	-2.88
FRAME ANALYSIS MAXIMUM [1]	-0.26
FEA ANALYSIS MAXIMUM [2] (EDGES FIXED)	-1.67
FED ANALYSIS MAXIMUM [2] (EDGES FREE)	-2.37

1. INCLUDES GROSS SECTION MODULUS, 80 PSF LIVE LOAD, AND NO LONG-TERM DEFORMATIONS.

2. INCLUDES CRACKED SECTION MODULUS, 105 PSF LIVE LOAD, AND LONG-TERM DEFORMATIONS.



TYPICAL SLAB DEFLECTIONS

(FREE EDGES)

AMPLIFICATION FACTOR=100

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MAX. NEG MOMENT IN 8" SLAB (DEAD LOAD)

DL. $M_{a_{DL}} = -4958$ "-#/IN (EL. 193 NODE 1)
LL. $M_{a_{LL}} = -1824$ "-#/IN

6782 "-#/IN $\Rightarrow$ $81,384$ "-#/FT

$I_g = \frac{12(8)^3}{12} = 512 \text{ IN}^4$

$f'c = 2300$ psi

$f_r = 7.5\sqrt{2300} = 360$ psi

$y_t = 4"$

$M_{cr} = \frac{360(512)}{4} = 46080$ IN-#/FT

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FIND I_{cr}:

$E_c = 57000\sqrt{2300} = 2.734 \times 10^6$ psi

$E_s = 29.0 \times 10^6$ psi

$n = 10.61$

REINF. = 26 #5 IN 12'-6" STRIP

$A_s/FT = 0.645$ IN²/FT

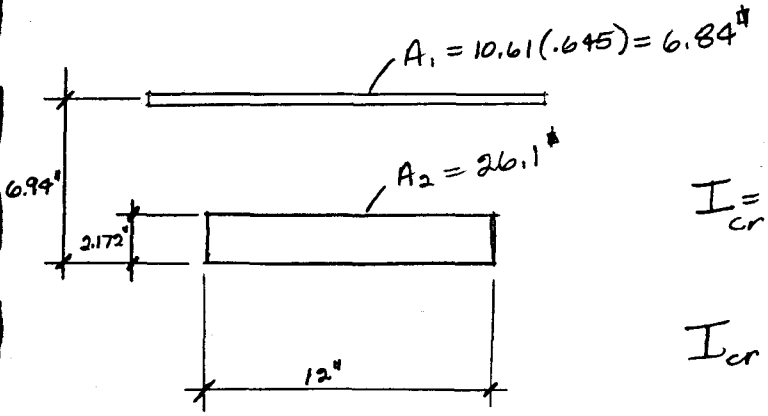
$d = 8 - [.75 - .625(0.5)]$

$d = 6.94''$

$\rho = \frac{.645}{8(12)} = .0067$

$n\rho = .0713$

$k = .313$ $kd = 2.172''$



$$I_{cr} = \frac{12(2.172)^3}{12} + 26.1(1.09)^2 + 6.84(4.768)^2$$

$I_{cr} = 197$ IN⁴!

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$$I_E = \left(\frac{46080}{81384}\right)^3 (512) + \left[1 - \left(\frac{46080}{81384}\right)^3\right](197)$$

$$I_e = 254 \text{ IN}^4$$

FIND EQUIVALENT t:

$$I_e = \frac{\cancel{12}t^3}{\cancel{12}}$$

$$t = \sqrt[3]{254} = 6.33 \text{ IN}$$

12

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Project FLOOR ANALYSIS - 517 GOLD
Subject FEA DEFL. CHECK
Project No. 91062.009 Date 9/29/92 By JMW

- ☐ Memorandum
- ☐ Telephone record
- ☐ Note to the file
- ☐ Minutes of meeting
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- ☐ _____

DEFLECTIONS CHECK: FIXED EDGES

MAX DL. DEFL. = .3660"
MAX LL. DEFL. = .1346"
TOTAL = .5006"

FROM STRUCT. FLR. ANALYSIS - RMS 5031 & 6433

EQUIP. LOAD IN RM 6433 = 55 psf

FIND ADDITIONAL DEFL. FROM EQUIP. LOAD:

$$\Delta_{EQ} = \left(\frac{55}{50}\right)(.1346) = .1481''$$

TOTAL DEFL. = .5006 + .1481 = 0.6487

AMPLIFICATION FACTOR FOR CREEP = 2.0

TOTAL DEFL. = 2(.6487) = 1.297"

ASSUME TOTALLY CRACKED SECTION:

$I_E = 254 \text{ in}^4$
$I_{CR} = 197 \text{ in}^4$

$$\text{DEFL} = \left(\frac{254}{197}\right)(1.297) = 1.67''$$

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iew: C:\ssc\jr\517k3.out Col 0 4,611,328 Bytes 10%

6[illegible]	.0000	.0000	-.1014	.2726E-02	.0000	.0000
6[illegible]	.0000	.0000	-.6847E-01	.2474E-02	.0000	.0000
621	.0000	.0000	-.4111E-01	.1814E-02	.0000	.0000
622	.0000	.0000	-.2020E-01	.1491E-02	.0000	.0000
6[illegible]	.0000	.0000	-.5104E-02	.8421E-03	.0000	.0000
62[illegible]	.0000	.0000	.0000	.0000	.0000	.0000
625	.0000	.0000	.0000	.0000	.0000	.0000

ISPLACEMENT RESULTS SUMMARY LOADCASE 1 DL

AXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD[illegible]	1	1	1	619	151	1
AL[illegible]E	.0000	.0000	.0000	.2726E-02	.2726E-02	.0000

IN[illegible]MUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
ODE	1	1	313	607	451	1
ALUE	.0000	.0000	-.3660	-.2726E-02	-.2726E-02	.0000

2 3 4 5 6 7Search 8 9 10Quit

ie[illegible]: C:\ssc\jr\517k3.out Col 0 4,611,328 Bytes 11%

618	.0000	.0000	-.4980E-01	.9826E-03	.0000	.0000
6[illegible]	.0000	.0000	-.3729E-01	.1003E-02	.0000	.0000
6[illegible]	.0000	.0000	-.2519E-01	.9100E-03	.0000	.0000
621	.0000	.0000	-.1512E-01	.6675E-03	.0000	.0000
622	.0000	.0000	-.7431E-02	.5486E-03	.0000	.0000
6[illegible]	.0000	.0000	-.1878E-02	.3098E-03	.0000	.0000
62[illegible]	.0000	.0000	.0000	.0000	.0000	.0000
625	.0000	.0000	.0000	.0000	.0000	.0000

ISPLACEMENT RESULTS SUMMARY LOADCASE 2 LL

AXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD[illegible]	1	1	1	619	151	1
AL[illegible]E	.0000	.0000	.0000	.1003E-02	.1003E-02	.0000

IN[illegible]MUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
ODE	1	1	313	607	451	1
AL[illegible]E	.0000	.0000	-.1346	-.1003E-02	-.1003E-02	.0000

2 3 4 5 6 7Search 8 9 10Quit

ie[illegible]: C:\ssc\jr\517k3.out Col 0 4,611,328 Bytes 12%

6[illegible]	.0000	.0000	-.9366E-01	.3384E-02	.0000	.0000
621	.0000	.0000	-.5624E-01	.2482E-02	.0000	.0000
622	.0000	.0000	-.2763E-01	.2040E-02	.0000	.0000
6[illegible]	.0000	.0000	-.6982E-02	.1152E-02	.0000	.0000
624	.0000	.0000	.0000	.0000	.0000	.0000
625	.0000	.0000	.0000	.0000	.0000	.0000

DISPLACEMENT RESULTS SUMMARY LOAD CASE 3 DL+LL

MAXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
NODE	1	1	1	619	151	1
VALUE	.0000	.0000	.0000	.3729E-02	.3729E-02	.0000

MINIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
NODE	1	1	313	607	451	1
VALUE	.0000	.0000	-.5006	-.3729E-02	-.3729E-02	.0000

2 3 4 5 6 7Search 8 9 10Quit

View: C:\ssc\jr\517k3.out Col 0 4,611,328 Bytes 13%

618	.0000	.0000	-.2742	.5410E-02	.0000	.0000
619	.0000	.0000	-.2053	.5521E-02	.0000	.0000
620	.0000	.0000	-.1387	.5010E-02	.0000	.0000
621	.0000	.0000	-.8327E-01	.3675E-02	.0000	.0000
622	.0000	.0000	-.4091E-01	.3020E-02	.0000	.0000
623	.0000	.0000	-.1034E-01	.1706E-02	.0000	.0000
624	.0000	.0000	.0000	.0000	.0000	.0000
625	.0000	.0000	.0000	.0000	.0000	.0000

DISPLACEMENT RESULTS SUMMARY 1.4DL+1.7LL

MAXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
NODE	1	1	1	619	151	1
VALUE	.0000	.0000	.0000	.5521E-02	.5521E-02	.0000

MINIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
NODE	1	1	313	607	451	1
VALUE	.0000	.0000	-.7413	-.5522E-02	-.5522E-02	.0000

2 3 4 5 6 7Search 8 9 10Quit

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Project FLOOR ANALYSIS - 517 GOLD
Subject FEA DEFL. CHECK
Project No. 91062.009 Date 9/29/92 By JMW

☐ Memorandum
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DEFLECTIONS CHECK: FREE EDGES

MAX. DL DEFL. = .5184"
MAX. LL DEFL. = .1907"
TOTAL = .7091"

FROM STRUCT. FLR. ANALYSIS - RMS 5031 & 6433

EQUIP. LOAD IN RM 6433 = 55 psf

FIND DEFL. FROM EQUIP. LOAD:

$$\Delta_{EQ.} = \left(\frac{55}{50}\right)(.1907) = .2098''$$

TOTAL DEFL. = .7091 + .2098 = .9189"

AMPLIFICATION FACTOR FOR CREEP = 2.0

TOTAL DEFL. = 2(.9189) = 1.838"

ASSUME TOTALLY CRACKED SECTION:

$I_E = 254 \text{ IN}^4$
$I_{CR} = 197 \text{ IN}^4$

$$\text{DEFL.} = \left(\frac{254}{197}\right)(1.838) = 2.37''$$

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ISPLACEMENT RESULTS SUMMARY LOADCASE 1 DL

AXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	1	544	154	1
ALUE	.0000	.0000	.0000	.3142E-02	.3142E-02	.0000

IN MUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
ODE	1	1	313	82	472	1
AL E	.0000	.0000	-.5184	-.3133E-02	-.3133E-02	.0000

DA CASE 2 LOAD CASE TITLE : LOAD CASE NO. 2

NODE	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
	.0000	.0000	.0000	.0000	.0000	.0000
	.0000	.0000	.0000	.0000	.0000	.0000
3	.0000	.0000	-.8962E-03	-.2133E-03	.2164E-03	.0000
4	.0000	.0000	-.5725E-02	-.5377E-03	.4775E-03	.0000
	.0000	.0000	-.1365E-01	-.6945E-03	.6078E-03	.0000
6	.0000	.0000	-.2389E-01	-.9280E-03	.7128E-03	.0000

- More --

AX MUM DISPLACEMENT LOADCASE 2 LL

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	1	544	154	1
AL E	.0000	.0000	.0000	.1156E-02	.1156E-02	.0000

IN MUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	313	82	472	1
ALUE	.0000	.0000	-.1907	-.1153E-02	-.1153E-02	.0000

DA CASE 3 LOAD CASE TITLE : LOAD CASE NO. 3

NODE	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
1	.0000	.0000	.0000	.0000	.0000	.0000
	.0000	.0000	.0000	.0000	.0000	.0000
	.0000	.0000	-.3332E-02	-.7929E-03	.8044E-03	.0000
4	.0000	.0000	-.2129E-01	-.1999E-02	.1775E-02	.0000
	.0000	.0000	-.5076E-01	-.2582E-02	.2260E-02	.0000
	.0000	.0000	-.8882E-01	-.3450E-02	.2650E-02	.0000
7	.0000	.0000	-.1351	-.3872E-02	.2885E-02	.0000
8	.0000	.0000	-.1838	-.3858E-02	.3000E-02	.0000
	.0000	.0000	-.2301	-.3486E-02	.3038E-02	.0000

- More --

AL E	.0000	.0000	.0000	.4298E-02	.4298E-02	.0000

INIMUM DISPLACEMENT LOADCASE 3 DL+LL

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	313	82	472	1
ALUE	.0000	.0000	-.7092	-.4286E-02	-.4286E-02	.0000

NODE	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
	.0000	.0000	.0000	.0000	.0000	.0000
	.0000	.0000	.0000	.0000	.0000	.0000
3	.0000	.0000	-.4934E-02	-.1174E-02	.1191E-02	.0000
	.0000	.0000	-.3152E-01	-.2960E-02	.2629E-02	.0000
	.0000	.0000	-.7516E-01	-.3823E-02	.3346E-02	.0000
6	.0000	.0000	-.1315	-.5109E-02	.3924E-02	.0000
7	.0000	.0000	-.2000	-.5734E-02	.4272E-02	.0000
	.0000	.0000	-.2722	-.5713E-02	.4442E-02	.0000
	.0000	.0000	-.3407	-.5162E-02	.4499E-02	.0000
10	.0000	.0000	-.3998	-.4204E-02	.4494E-02	.0000
	.0000	.0000	-.4449	-.2954E-02	.4465E-02	.0000
	.0000	.0000	-.4732	-.1516E-02	.4438E-02	.0000

-- More --

61	.0000	.0000	-.4835	.1485E-05	-.4436E-02	.0000
614	.0000	.0000	-.4739	.1537E-02	-.4451E-02	.0000
615	.0000	.0000	-.4457	.2980E-02	-.4481E-02	.0000
61	.0000	.0000	-.4004	.4234E-02	-.4511E-02	.0000
61	.0000	.0000	-.3412	.5194E-02	-.4517E-02	.0000
618	.0000	.0000	-.2724	.5746E-02	-.4460E-02	.0000
61	.0000	.0000	-.1999	.5765E-02	-.4290E-02	.0000
62	.0000	.0000	-.1311	.5132E-02	-.3937E-02	.0000
621	.0000	.0000	-.7457E-01	.3824E-02	-.3365E-02	.0000
62	.0000	.0000	-.3099E-01	.2965E-02	-.2635E-02	.0000
62	.0000	.0000	-.4615E-02	.1167E-02	-.1143E-02	.0000
624	.0000	.0000	.0000	.0000	.0000	.0000
625	.0000	.0000	.0000	.0000	.0000	.0000

ISPLACEMENT RESULTS SUMMARY LOADCASE 4 1.4DL+1.7 LL

AXIMUM DISPLACEMENT

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	1	544	154	1
ALUE	.0000	.0000	.0000	.6364E-02	.6364E-02	.0000

IM MUM DISPLACEMENT
- ore --

	X-DISPL	Y-DISPL	Z-DISPL	X-ROTAT	Y-ROTAT	Z-ROTAT
OD	1	1	313	82	472	1
ALUE	.0000	.0000	-1.050	-.6346E-02	-.6346E-02	.0000

****
EMENT INTERNAL FORCE PHASE *
****

****