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
	2	0.1689	-0.1149	-0.0256
12	1	0.4628	-0.1964	-0.0864
	2	0.6942	-0.2946	-0.1296
13	1	0.0000	0.0000	-0.0246
	2	0.0000	0.0000	-0.0369
14	1	0.1124	0.0714	-0.1290
	2	0.1686	0.1070	-0.1936
15	1	0.4918	0.1093	-0.0860
	2	0.7377	0.1639	-0.1291
16	1	0.0000	0.0000	-0.0608
	2	0.0000	0.0000	-0.0912
17	1	0.1126	-0.0736	-0.2148
	2	0.1689	-0.1104	-0.3221
18	1	0.5046	-0.1172	-0.3399
	2	0.7570	-0.1758	-0.5098

DF3 Filed on \S\SES\JMW Path - Job ID Letter is R

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

LOAD COMBINATIONS:

COMB 1 : 1.00 X CASE 3

COMB 2 : 1.50 X CASE 3

1	1	1	98.1746	-0.1023	-0.1958		
		2	98.1746	-0.1023	-0.6389	0.0176	2.35
	2	1	147.2620	-0.1535	-0.2938		
		2	147.2620	-0.1535	-0.9583	0.0264	2.35

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

SIGN CONVENTION : BEAM DESIGNERS

LEM N	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
2	1	2	37.7281	0.0105	-0.2552		
		3	37.7281	0.0105	-0.1853	0.0219	3.25
	2	2	56.5921	0.0157	-0.3828		
		3	56.5921	0.0157	-0.2779	0.0328	3.25
3	1	1	0.0000	-0.3760	0.8583		
		4	0.0000	-0.3760	-0.6456	-0.0062	1.09
	2	1	0.0000	-0.5640	1.2875		
		4	0.0000	-0.5640	-0.9684	-0.0094	1.09
4	1	1	35.1004	0.1113	-0.6625		
		5	35.1004	0.1113	-0.0062	0.0108	2.50
	2	1	52.6506	0.1670	-0.9937		
		5	52.6506	0.1670	-0.0093	0.0162	2.50
5	1	2	-0.3150	0.0100	0.2316		
		5	-0.3150	0.0100	0.2715	-0.0090	2.03
	2	2	-0.4724	0.0150	0.3475		
		5	-0.4724	0.0150	0.4073	-0.0135	2.03
6	1	5	-44.6896	0.1810	-1.4872		
		3	-44.6896	0.1810	-0.0795	0.0439	3.34
	2	5	-67.0344	0.2715	-2.2308		
		3	-67.0344	0.2715	-0.1192	0.0658	3.34
7	1	3	-18.5201	0.5049	-0.2648		
		6	-18.5201	0.5049	1.7548	-0.0278	2.40
	2	3	-27.7802	0.7574	-0.3972		
		6	-27.7802	0.7574	2.6323	-0.0417	2.40
8	1	4	-95.1814	0.3541	-1.0497		
		5	-95.1814	0.3541	0.4833	0.0137	1.48
	2	4	-142.7721	0.5311	-1.5746		
		5	-142.7721	0.5311	0.7250	0.0205	1.48

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
9	1	5	-32.8516	0.5195	-1.6570		
		6	-32.8516	0.5195	1.8083	-0.0272	5.12
	2	5	-49.2773	0.7793	-2.4855		
		6	-49.2773	0.7793	2.7125	-0.0409	5.12
10	1	4	0.0000	-0.5657	0.9768		
		7	0.0000	-0.5657	-1.5687	0.0177	3.13
	2	4	0.0000	-0.8485	1.4651		
		7	0.0000	-0.8485	-2.3531	0.0265	3.13
11	1	5	0.2797	-1.6004	3.8928		
		8	0.2797	-1.6004	-3.3088	-0.0302	1.12
	2	5	0.4196	-2.4005	5.8393		
		8	0.4196	-2.4005	-4.9632	-0.0453	1.12
12	1	6	-37.2386	-2.8565	6.4262		
		9	-37.2386	-2.8565	-6.4282	0.0373	3.55
	2	6	-55.8578	-4.2848	9.6393		
		9	-55.8578	-4.2848	-9.6422	0.0559	3.55
13	1	7	102.1629	0.3502	-0.4302		
		8	102.1629	0.3502	1.0860	-0.0154	2.79
	2	7	153.2444	0.5253	-0.6454		
		8	153.2444	0.5253	1.6290	-0.0230	2.79
14	1	8	103.7633	0.6299	-2.2228		
		9	103.7633	0.6299	1.9787	0.0352	1.59
	2	8	155.6449	0.9449	-3.3342		
		9	155.6449	0.9449	2.9681	0.0528	1.59
15	1	7	0.0000	-0.3038	1.2154		
		10	0.0000	-0.3038	-1.2154	-0.0223	1.69
	2	7	0.0000	-0.4558	1.8230		
		10	0.0000	-0.4558	-1.8230	-0.0334	1.69

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
16	1	7	132.5321	0.4044	-2.3538		
		12	132.5321	0.4044	3.1460	-0.0299	9.87
	2	7	198.7982	0.6065	-3.5307		
		12	198.7982	0.6065	4.7191	-0.0449	9.87
17	1	10	-132.5321	0.4044	-2.3538		
		9	-132.5321	0.4044	3.1460	-0.0299	9.87
	2	10	-198.7982	0.6065	-3.5307		
		9	-198.7982	0.6065	4.7191	-0.0449	9.87
18	1	9	-0.0000	0.3258	-1.3034		
		12	-0.0000	0.3258	1.3034	0.0239	1.69
	2	9	-0.0000	0.4888	-1.9551		
		12	-0.0000	0.4888	1.9551	0.0358	1.69
19	1	10	-102.1629	0.3502	-0.4302		
		11	-102.1629	0.3502	1.0860	-0.0154	2.79
	2	10	-153.2444	0.5253	-0.6454		
		11	-153.2444	0.5253	1.6290	-0.0230	2.79
20	1	11	-103.7633	0.6299	-2.2228		
		12	-103.7633	0.6299	1.9787	0.0352	1.59
	2	11	-155.6449	0.9449	-3.3342		
		12	-155.6449	0.9449	2.9681	0.0528	1.59
21	1	10	0.0000	-0.5657	1.5687		
		13	0.0000	-0.5657	-0.9768	-0.0177	1.37
	2	10	0.0000	-0.8485	2.3531		
		13	0.0000	-0.8485	-1.4651	-0.0265	1.37
22	1	11	-0.2797	-1.6004	3.3088		
		14	-0.2797	-1.6004	-3.8928	0.0302	3.38
	2	11	-0.4196	-2.4005	4.9632		
		14	-0.4196	-2.4005	-5.8393	0.0453	3.38

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
23	1	12	37.2386	-2.8565	6.4282		
		15	37.2386	-2.8565	-6.4262	-0.0373	0.95
	2	12	55.8578	-4.2848	9.6422		
		15	55.8578	-4.2848	-9.6393	-0.0559	0.95
24	1	13	95.1814	0.3541	-1.0497		
		14	95.1814	0.3541	0.4833	0.0137	1.48
	2	13	142.7721	0.5311	-1.5746		
		14	142.7721	0.5311	0.7250	0.0205	1.48
25	1	14	32.8516	0.5195	-1.6570		
		15	32.8516	0.5195	1.8083	-0.0272	5.12
	2	14	49.2773	0.7793	-2.4855		
		15	49.2773	0.7793	2.7125	-0.0409	5.12
26	1	13	0.0000	-0.3760	0.6456		
		16	0.0000	-0.3760	-0.8583	0.0062	2.91
	2	13	0.0000	-0.5640	0.9684		
		16	0.0000	-0.5640	-1.2875	0.0094	2.91
27	1	16	-35.1004	0.1113	-0.6625		
		14	-35.1004	0.1113	-0.0062	0.0108	2.50
	2	16	-52.6506	0.1670	-0.9937		
		14	-52.6506	0.1670	-0.0093	0.0162	2.50
28	1	14	0.3150	0.0100	-0.2715		
		17	0.3150	0.0100	-0.2316	0.0090	1.97
	2	14	0.4724	0.0150	-0.4073		
		17	0.4724	0.0150	-0.3475	0.0135	1.97
29	1	14	44.6896	0.1810	-1.4872		
		18	44.6896	0.1810	-0.0795	0.0439	3.34
	2	14	67.0344	0.2715	-2.2308		
		18	67.0344	0.2715	-0.1192	0.0658	3.34

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

SIGN CONVENTION : BEAM DESIGNERS

LEM N	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
0	1	15	18.5201	0.5049	-1.7548		
		18	18.5201	0.5049	0.2648	0.0278	1.60
	2	15	27.7802	0.7574	-2.6323		
		18	27.7802	0.7574	0.3972	0.0417	1.60
	1	16	-98.1746	-0.1023	-0.1958		
		17	-98.1746	-0.1023	-0.6389	0.0176	2.35
	2	16	-147.2620	-0.1535	-0.2938		
		17	-147.2620	-0.1535	-0.9583	0.0264	2.35
	1	17	-37.7281	0.0105	-0.2552		
		18	-37.7281	0.0105	-0.1853	0.0219	3.25
	2	17	-56.5921	0.0157	-0.3828		
		18	-56.5921	0.0157	-0.2779	0.0328	3.25
	1	4	-32.8923	-0.1219	-0.5727		
		2	-32.8923	-0.1219	-1.2915	0.0295	3.13
	2	4	-49.3384	-0.1829	-0.8590		
		2	-49.3384	-0.1829	-1.9372	0.0442	3.13
	1	2	42.5934	0.6133	-1.9068		
		6	42.5934	0.6133	2.8630	-0.0367	5.49
	2	2	63.8901	0.9199	-2.8602		
		6	63.8901	0.9199	4.2945	-0.0550	5.49
	1	13	32.8923	-0.1219	-0.5727		
		17	32.8923	-0.1219	-1.2915	0.0295	3.13
	2	13	49.3384	-0.1829	-0.8590		
		17	49.3384	-0.1829	-1.9372	0.0442	3.13
	1	17	-42.5934	0.6133	-1.9068		
		15	-42.5934	0.6133	2.8630	-0.0367	5.49
	2	17	-63.8901	0.9199	-2.8602		
		15	-63.8901	0.9199	4.2945	-0.0550	5.49

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 : 1.00 X CASE 3

COMB 2 : 1.50 X CASE 3

1	1	-23.7972	-124.2578	-0.0000
	2	-35.6958	-186.3867	-0.0000
4	1	-22.5839	119.2353	0.0000
	2	-33.8759	178.8529	0.0000
7	1	-78.6288	-208.8468	-0.0000
	2	-117.9432	-313.2702	-0.0000
10	1	-78.6288	208.8468	0.0000
	2	-117.9432	313.2702	0.0000
13	1	-22.5839	-119.2353	0.0000
	2	-33.8759	-178.8529	0.0000
16	1	-23.7972	124.2578	-0.0000
	2	-35.6958	186.3867	-0.0000

SIGN OPTION: 1
ENTS: 1-3.5.7-15.18-26.28.30-32
DE: DESIGN

A I S C - O U T P U T S U M M A R Y

E ID	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
		K /In ^2	K	K -Ft	K -Ft		
1	TS4x4x.3125						
		46.00	147.26	0.00	-0.96	0.86	H1-1a
			180.50	20.36	20.36		
1	TS5x4x.25	46.00	147.26	0.00	-0.96	0.91	H1-1a
			169.33	23.77	23.77		
2	TS3x4x.1875						
		46.00	56.59	0.00	-0.38	0.61	H1-1a
			98.95	9.04	9.04		
2	TS4x4x.1875						
		46.00	56.59	0.00	-0.38	0.52	H1-1a
			114.68	13.49	13.49		
2	TS5x4x.1875						
		46.00	56.59	0.00	-0.38	0.45	H1-1a
			130.00	18.60	18.60		
3	TS3x4x.1875						
		46.00	0.00	0.00	1.29	0.14	H1-1b
			93.45	9.04	9.04		
3	TS4x4x.1875						
		46.00	0.00	0.00	1.29	0.10	H1-1b
			108.31	13.49	13.49		
3	TS5x4x.1875						
		46.00	0.00	0.00	1.29	0.07	H1-1b
			122.77	18.60	18.60		
5	TS3x4x.1875						
		46.00	-0.47	0.00	0.41	0.05	H1-1b
			80.88	9.04	9.04		
5	TS4x4x.1875						
		46.00	-0.47	0.00	0.41	0.03	H1-1b
			99.50	13.49	13.49		
5	TS5x4x.1875						
		46.00	-0.47	0.00	0.41	0.02	H1-1b
			115.47	18.60	18.60		
7	TS3x4x.1875						
		46.00	-27.78	0.00	2.80	0.61	H1-1a
			83.61	9.04	9.04		
7	TS4x4x.1875						
		46.00	-27.78	0.00	2.76	0.46	H1-1a
			99.03	13.49	13.49		

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 12:32:13 1992
JOB : GSA - 517 GOLD - TS PANELS JOB NO. : 1
RUN : 1 DESIGNED BY: _____ CHECKED BY: _____

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
7	TS5x4x.1875						
		46.00	-27.78	0.00	2.74	0.38	H1-1a
			112.88	18.60	18.60		
8	TS4x4x.5	46.00	-142.77	0.00	-1.77	0.82	H1-1a
			186.15	27.67	27.67		
8	TS5x4x.3125						
		46.00	-142.77	0.00	-1.78	0.92	H1-1a
			164.76	28.43	28.43		
9	TS3x4x.25	46.00	-49.28	0.00	3.27	0.86	H1-1a
			81.87	11.38	11.38		
9	TS4x4x.1875						
		46.00	-49.28	0.00	3.26	0.78	H1-1a
			87.18	13.49	13.49		
9	TS5x4x.1875						
		46.00	-49.28	0.00	3.15	0.63	H1-1a
			103.53	18.60	18.60		
10	TS3x4x.1875						
		46.00	0.00	0.00	-2.35	0.26	H1-1b
			93.45	9.04	9.04		
10	TS4x4x.1875						
		46.00	0.00	0.00	-2.35	0.17	H1-1b
			108.31	13.49	13.49		
10	TS5x4x.1875						
		46.00	0.00	0.00	-2.35	0.13	H1-1b
			122.77	18.60	18.60		
11	TS3x4x.1875						
		46.00	0.42	0.00	5.84	0.65	H1-1b
			98.95	9.04	9.04		
11	TS4x4x.1875						
		46.00	0.42	0.00	5.84	0.43	H1-1b
			114.68	13.49	13.49		
11	TS5x4x.1875						
		46.00	0.42	0.00	5.84	0.32	H1-1b
			130.00	18.60	18.60		
12	TS4x4x.3125						
		46.00	-55.86	0.00	-10.66	0.84	H1-1a
			147.70	20.36	20.36		
12	TS5x4x.25	46.00	-55.86	0.00	-10.61	0.79	H1-1a
			140.55	23.77	23.77		
13	TS4x4x.3125						
		46.00	153.24	0.00	1.63	0.92	H1-1a
			180.50	20.36	20.36		
13	TS5x4x.25	46.00	153.24	0.00	1.63	0.97	H1-1a
			169.33	23.77	23.77		
14	TS4x4x.375	46.00	155.64	0.00	-3.33	0.87	H1-1a
			210.31	23.18	23.18		
14	TS5x4x.3125						
		46.00	155.64	0.00	-3.33	0.86	H1-1a
			206.17	28.43	28.43		

A I S C - O U T P U T S U M M A R Y

EM O	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
15	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	-1.82 / 9.04	0.20	H1-1b
15	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	-1.82 / 13.49	0.14	H1-1b
15	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	-1.82 / 18.60	0.10	H1-1b
18	TS3x4x.1875	46.00	-0.00 / 57.26	0.00 / 9.04	1.96 / 9.04	0.22	H1-1b
8	TS4x4x.1875	46.00	-0.00 / 68.90	0.00 / 13.49	1.96 / 13.49	0.14	H1-1b
8	TS5x4x.1875	46.00	-0.00 / 80.32	0.00 / 18.60	1.96 / 18.60	0.11	H1-1b
9	TS4x4x.5	46.00	-153.24 / 167.46	0.00 / 27.67	1.85 / 27.67	0.97	H1-1a
19	TS5x4x.375	46.00	-153.24 / 179.60	0.00 / 32.57	1.83 / 32.57	0.90	H1-1a
0	TS5x4x.375	46.00	-155.64 / 180.35	0.00 / 32.57	-4.53 / 32.57	0.99	H1-1a
21	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	2.35 / 9.04	0.26	H1-1b
21	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	2.35 / 13.49	0.17	H1-1b
21	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	2.35 / 18.60	0.13	H1-1b
22	TS3x4x.1875	46.00	-0.42 / 75.72	0.00 / 9.04	-5.84 / 9.04	0.65	H1-1b
22	TS4x4x.1875	46.00	-0.42 / 95.72	0.00 / 13.49	-5.84 / 13.49	0.44	H1-1b
1	TS5x4x.1875	46.00	-0.42 / 113.11	0.00 / 18.60	-5.84 / 18.60	0.32	H1-1b
1	TS4x4x.25	46.00	55.86 / 148.63	0.00 / 17.15	9.64 / 17.15	0.88	H1-1a
23	TS5x4x.1875	46.00	55.86 / 130.00	0.00 / 18.60	9.64 / 18.60	0.89	H1-1a
24	TS4x4x.3125	46.00	142.77 / 180.50	0.00 / 20.36	-1.57 / 20.36	0.86	H1-1a

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 12:32:15 1991
JOB : GSA - 517 GOLD - TS PANELS JOB NO. : 1
RUN : 1 DESIGNED BY: _____ CHECKED BY: _____

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
24	TS5x4x.25	46.00	142.77 / 169.33	0.00 / 23.77	-1.57 / 23.77	0.90	H1-1a
25	TS3x4x.1875	46.00	49.28 / 98.95	0.00 / 9.04	2.71 / 9.04	0.76	H1-1a
25	TS4x4x.1875	46.00	49.28 / 114.68	0.00 / 13.49	2.71 / 13.49	0.61	H1-1a
25	TS5x4x.1875	46.00	49.28 / 130.00	0.00 / 18.60	2.71 / 18.60	0.51	H1-1a
26	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	-1.29 / 9.04	0.14	H1-1b
26	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	-1.29 / 13.49	0.10	H1-1b
26	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	-1.29 / 18.60	0.07	H1-1b
28	TS3x4x.1875	46.00	0.47 / 98.95	0.00 / 9.04	-0.41 / 9.04	0.05	H1-1b
28	TS4x4x.1875	46.00	0.47 / 114.68	0.00 / 13.49	-0.41 / 13.49	0.03	H1-1b
28	TS5x4x.1875	46.00	0.47 / 130.00	0.00 / 18.60	-0.41 / 18.60	0.02	H1-1b
30	TS3x4x.1875	46.00	27.78 / 98.95	0.00 / 9.04	-2.63 / 9.04	0.54	H1-1a
30	TS4x4x.1875	46.00	27.78 / 114.68	0.00 / 13.49	-2.63 / 13.49	0.42	H1-1a
30	TS5x4x.1875	46.00	27.78 / 130.00	0.00 / 18.60	-2.63 / 18.60	0.34	H1-1a
31	TS4x4x.5	46.00	-147.26 / 186.57	0.00 / 27.67	-1.46 / 27.67	0.84	H1-1a
31	TS5x4x.375	46.00	-147.26 / 178.11	0.00 / 32.57	-1.41 / 32.57	0.87	H1-1a
32	TS3x4x.1875	46.00	-56.59 / 68.57	0.00 / 9.04	-0.54 / 9.04	0.88	H1-1a
32	TS4x4x.1875	46.00	-56.59 / 87.40	0.00 / 13.49	-0.50 / 13.49	0.68	H1-1a

A I S C - O U T P U T S U M M A R Y

EM O	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
32	TS5x4x.1875						
		46.00	-56.59	0.00	-0.47	0.59	H1-1a
			100.40	18.60	18.60		

DESIGN OPTION: 2
ELEMENTS: 4.6.16.17.27.29.33-36
MODE: DESIGN

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
		K /In ^2	K	K -Ft	K -Ft		
4	TS4x4x.1875						
		46.00	52.65	-0.99	0.00	0.52	H1-1a
			114.68	13.49	13.49		
4	TS5x4x.1875						
		46.00	52.65	-0.99	0.00	0.45	H1-1a
			130.00	18.60	18.60		
4	TS6x4x.1875						
		46.00	52.65	-0.99	0.00	0.40	H1-1a
			145.73	24.36	24.36		
4	TS7x4x.1875						
		46.00	52.65	-0.99	0.00	0.36	H1-1a
			161.05	30.74	30.74		
4	TS8x4x.1875						
		46.00	52.65	-0.99	0.00	0.32	H1-1a
			176.78	37.95	37.95		
6	TS4x4x.25	46.00	-67.03	-3.66	0.00	0.91	H1-1a
			93.62	17.15	17.15		
6	TS5x4x.1875						
		46.00	-67.03	-3.13	0.00	0.86	H1-1a
			94.80	18.60	18.60		
6	TS6x4x.1875						
		46.00	-67.03	-2.74	0.00	0.71	H1-1a
			110.39	24.36	24.36		
6	TS7x4x.1875						
		46.00	-67.03	-2.55	0.00	0.62	H1-1a
			122.96	30.74	30.74		
6	TS8x4x.1875						
		46.00	-67.03	-2.45	0.00	0.55	H1-1a
			135.66	37.95	37.95		
16	TS4x4x.5	46.00	198.80	4.72	0.00	0.91	H1-1a
			263.30	27.67	27.67		
16	TS5x4x.375	46.00	198.80	4.72	0.00	0.95	H1-1a
			241.36	32.57	32.57		
16	TS6x4x.3125						
		46.00	198.80	4.72	0.00	0.97	H1-1a
			232.25	37.60	37.60		
16	TS7x4x.3125						
		46.00	198.80	4.72	0.00	0.86	H1-1a
			257.92	47.61	47.61		

A I S C - O U T P U T S U M M A R Y

EL	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
16	TS8x4x.25	46.00	198.80 / 231.43	4.72 / 48.65	0.00 / 48.65	0.95	H1-1a
[illegible]	TS6x4x.5	46.00	-198.80 / 232.63	8.17 / 53.13	0.00 / 53.13	0.99	H1-1a
[illegible]	TS7x4x.375	46.00	-198.80 / 225.35	7.14 / 55.20	0.00 / 55.20	1.00	H1-1a
17	TS8x4x.3125	46.00	-198.80 / 223.12	6.52 / 59.00	0.00 / 59.00	0.99	H1-1a
27	TS4x4x.1875	46.00	-52.65 / 69.23	-1.78 / 13.49	0.00 / 13.49	0.88	H1-1a
[illegible]	TS5x4x.1875	46.00	-52.65 / 91.21	-1.34 / 18.60	0.00 / 18.60	0.64	H1-1a
[illegible]	TS6x4x.1875	46.00	-52.65 / 111.18	-1.19 / 24.36	0.00 / 24.36	0.52	H1-1a
[illegible]	TS7x4x.1875	46.00	-52.65 / 129.19	-1.12 / 30.74	0.00 / 30.74	0.44	H1-1a
[illegible]	TS8x4x.1875	46.00	-52.65 / 146.90	-1.08 / 37.95	0.00 / 37.95	0.38	H1-1a
[illegible]	TS4x4x.1875	46.00	67.03 / 114.68	-2.23 / 13.49	0.00 / 13.49	0.73	H1-1a
29	TS5x4x.1875	46.00	67.03 / 130.00	-2.23 / 18.60	0.00 / 18.60	0.62	H1-1a
29	TS6x4x.1875	46.00	67.03 / 145.73	-2.23 / 24.36	0.00 / 24.36	0.54	H1-1a
29	TS7x4x.1875	46.00	67.03 / 161.05	-2.23 / 30.74	0.00 / 30.74	0.48	H1-1a
29	TS8x4x.1875	46.00	67.03 / 176.78	-2.23 / 37.95	0.00 / 37.95	0.43	H1-1a
[illegible]	TS4x4x.1875	46.00	-49.34 / 67.94	-3.40 / 13.49	0.00 / 13.49	0.95	H1-1a
[illegible]	TS5x4x.1875	46.00	-49.34 / 90.08	-2.59 / 18.60	0.00 / 18.60	0.67	H1-1a
[illegible]	TS6x4x.1875	46.00	-49.34 / 110.19	-2.31 / 24.36	0.00 / 24.36	0.53	H1-1a

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
33	TS7x4x.1875	46.00	-49.34 / 128.31	-2.18 / 30.74	0.00 / 30.74	0.45	H1-1a
33	TS8x4x.1875	46.00	-49.34 / 146.11	-2.11 / 37.95	0.00 / 37.95	0.39	H1-1a
34	TS4x4x.1875	46.00	63.89 / 114.68	4.29 / 13.49	0.00 / 13.49	0.84	H1-1a
34	TS5x4x.1875	46.00	63.89 / 130.00	4.29 / 18.60	0.00 / 18.60	0.70	H1-1a
34	TS6x4x.1875	46.00	63.89 / 145.73	4.29 / 24.36	0.00 / 24.36	0.60	H1-1a
34	TS7x4x.1875	46.00	63.89 / 161.05	4.29 / 30.74	0.00 / 30.74	0.52	H1-1a
34	TS8x4x.1875	46.00	63.89 / 176.78	4.29 / 37.95	0.00 / 37.95	0.46	H1-1a
35	TS4x4x.1875	46.00	49.34 / 114.68	-1.94 / 13.49	0.00 / 13.49	0.56	H1-1a
35	TS5x4x.1875	46.00	49.34 / 130.00	-1.94 / 18.60	0.00 / 18.60	0.47	H1-1a
35	TS6x4x.1875	46.00	49.34 / 145.73	-1.94 / 24.36	0.00 / 24.36	0.41	H1-1a
35	TS7x4x.1875	46.00	49.34 / 161.05	-1.94 / 30.74	0.00 / 30.74	0.36	H1-1a
35	TS8x4x.1875	46.00	49.34 / 176.78	-1.94 / 37.95	0.00 / 37.95	0.32	H1-1a
36	TS4x4x.3125	46.00	-63.89 / 115.40	6.10 / 20.36	0.00 / 20.36	0.82	H1-1a
36	TS5x4x.1875	46.00	-63.89 / 96.65	5.75 / 18.60	0.00 / 18.60	0.94	H1-1a
36	TS6x4x.1875	46.00	-63.89 / 110.39	5.13 / 24.36	0.00 / 24.36	0.77	H1-1a
36	TS7x4x.1875	46.00	-63.89 / 122.96	4.83 / 30.74	0.00 / 30.74	0.66	H1-1a

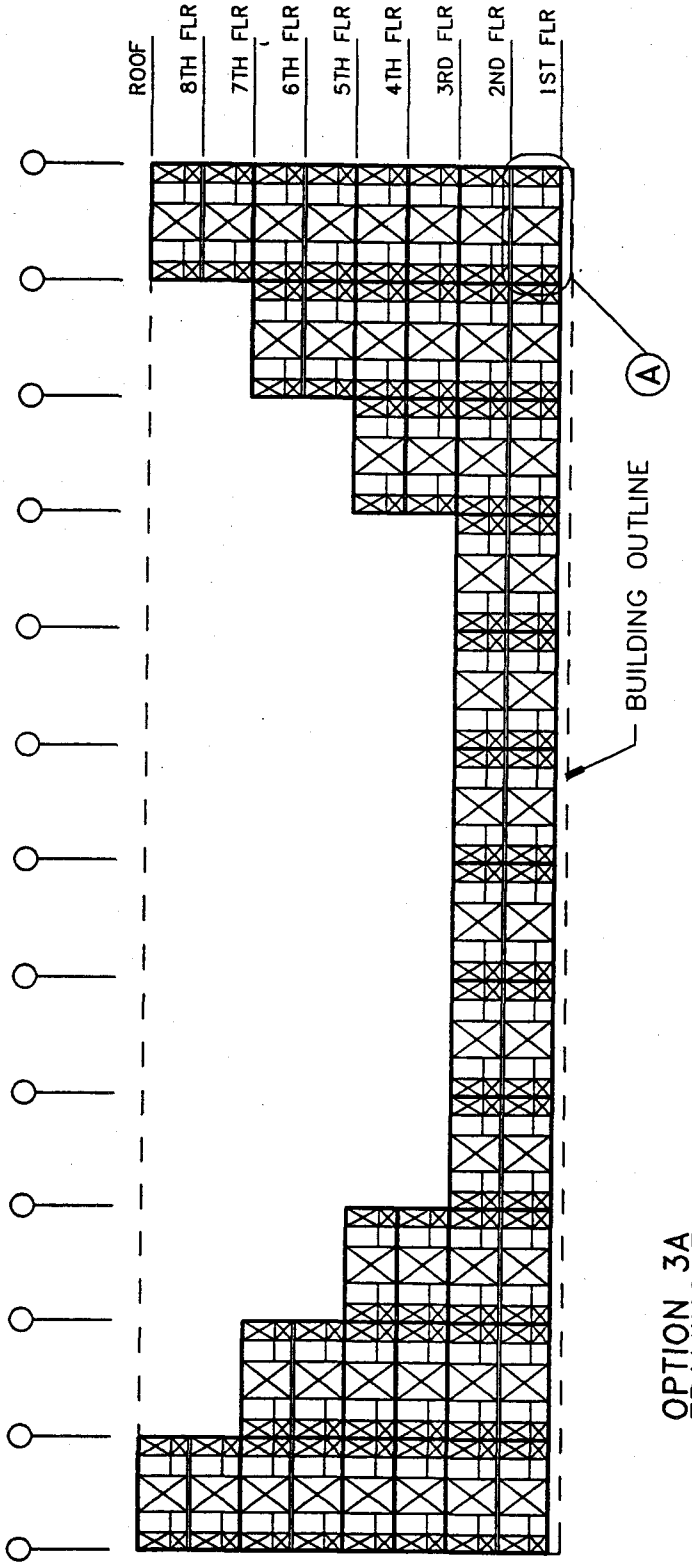
A I S C - O U T P U T S U M M A R Y

EM O	SHAPE	Fy	Pu / Pn	Mux / Mnx	Muy / Mny	STRESS RATIO	GOVN CRIT
36	TS8x4x.1875						
		46.00	-63.89	4.67	0.00	0.58	H1-1a
			135.66	37.95	37.95		

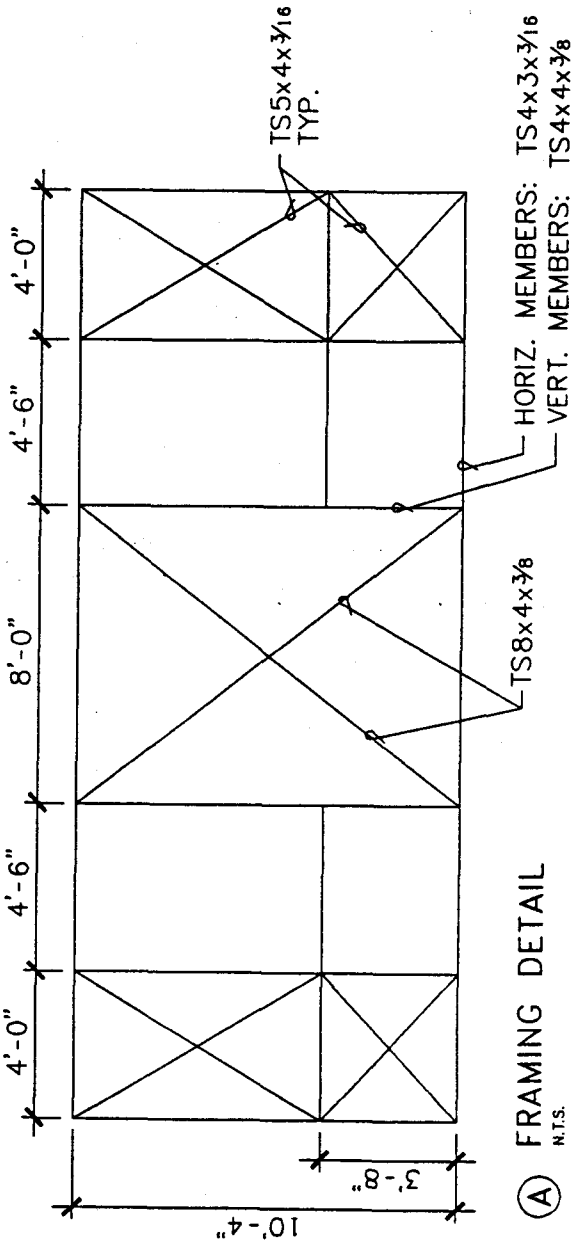
BPLW
Architects & Engineers, Inc.

2400 Louisiana Blvd. NE
AFC #5 Suite 400
Albuquerque, New Mexico 87110
(505) 881-2759

63 East Main Street
Suite 602
Mesa, Arizona 85201
(602) 827-2759



OPTION 3A
FRAMING ELEVATION
N.T.S.



A FRAMING DETAIL
N.T.S.

BPLW
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2400 Louisiana Blvd. NE
AFC #5 Suite 400
Albuquerque, NM 87110
(505) 881-2759
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Project _____
Subject _____
Project No. _____ Date _____ By _____

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

OPTION 3B

SEISMIC ANALYSIS

Copies to:

June 1990

Designing to Shape the Future

PROGRAM : General Frame Analysis v1.58 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 13:00:13 1992
JOB : GSA - 517 GOLD - TS PANELS (OPTION 3B) JOB NO. : 1
RUN : 1

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	0.000	H			
2	0.000	4.330				
3	0.000	11.000				
4	4.000	0.000	H			
5	4.000	4.330				
6	4.000	11.000				
7	8.500	0.000	H			
8	8.500	4.330				
9	8.500	11.000				
10	16.500	0.000	H			
11	16.500	4.330				
12	16.500	11.000				
13	21.000	0.000	H			
14	21.000	4.330				
15	21.000	11.000				
16	25.000	0.000	H			
17	25.000	4.330				
18	25.000	11.000				

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
		Units :	Ft	Deg				
1	1	2	4.330	90.00	1	BEAM		
2	2	3	6.670	90.00	1	BEAM		
3	1	4	4.000	0.00	1	BEAM		
4	1	5	5.895	47.27	2	BEAM		
5	2	5	4.000	0.00	1	BEAM		
6	5	3	7.777	120.95	2	BEAM		
7	3	6	4.000	0.00	1	BEAM		
8	4	5	4.330	90.00	1	BEAM		
9	5	6	6.670	90.00	1	BEAM		
10	4	7	4.500	0.00	1	BEAM		
11	5	8	4.500	0.00	1	BEAM		
12	6	9	4.500	0.00	1	BEAM		
13	7	8	4.330	90.00	1	BEAM		
14	8	9	6.670	90.00	1	BEAM		
15	7	10	8.000	0.00	1	BEAM		
18	9	12	8.000	0.00	1	BEAM		
19	10	11	4.330	90.00	1	BEAM		
20	11	12	6.670	90.00	1	BEAM		
21	10	13	4.500	0.00	1	BEAM		
22	11	14	4.500	0.00	1	BEAM		

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

EM N	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
23	12	15	4.500	0.00	1	BEAM		
24	13	14	4.330	90.00	1	BEAM		
25	14	15	6.670	90.00	1	BEAM		
26	13	16	4.000	0.00	1	BEAM		
27	16	14	5.895	132.73	2	BEAM		
28	14	17	4.000	0.00	1	BEAM		
29	14	18	7.777	59.05	2	BEAM		
30	15	18	4.000	0.00	1	BEAM		
31	16	17	4.330	90.00	1	BEAM		
32	17	18	6.670	90.00	1	BEAM		
33	4	2	5.895	132.73	2	BEAM		
34	2	6	7.777	59.05	2	BEAM		
35	13	17	5.895	47.27	2	BEAM		
36	17	15	7.777	120.95	2	BEAM		

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

PROP	SECTION NAME	MODULUS	AREA	I	DIST
	Units :	K /In 2	In2	In4	Ft
1	TS4X3X.1875	2.9e+004	2.39	3.34	
2	TS4X4X.25	2.9e+004	3.59	8.22	

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

EC N	LOAD CASE	LOAD TYPE	PX DX	PY DY	M BETA
		Units :	K Ft	K Ft	Ft-K Deg

scription : SEISMIC
de List : 3.6.9.12.15.18

1	3	FORCE	18.00	0.00	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 : 1.00 X CASE 3

COMB 2 : 1.50 X CASE 3

1	1	0.0000	0.0000	-0.0686
	2	0.0000	0.0000	-0.1029
2	1	0.1317	0.0859	-0.2388
	2	0.1976	0.1289	-0.3582
3	1	0.5815	0.1344	-0.3735
	2	0.8723	0.2017	-0.5602
4	1	0.0000	0.0000	-0.0412
	2	0.0000	0.0000	-0.0618
5	1	0.1310	-0.0841	-0.1615
	2	0.1965	-0.1261	-0.2423
6	1	0.5868	-0.1329	-0.2112
	2	0.8802	-0.1993	-0.3168
7	1	0.0000	0.0000	-0.0492
	2	0.0000	0.0000	-0.0738
8	1	0.1314	-0.0024	-0.1221
	2	0.1970	-0.0037	-0.1831
9	1	0.6001	-0.0044	0.0064
	2	0.9002	-0.0065	0.0096
10	1	0.0000	0.0000	-0.0492
	2	0.0000	0.0000	-0.0738
11	1	0.1314	0.0024	-0.1221

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
	2	0.1970	0.0037	-0.1831
12	1	0.6001	0.0044	0.0064
	2	0.9002	0.0065	0.0096
13	1	0.0000	0.0000	-0.0412
	2	0.0000	0.0000	-0.0618
14	1	0.1310	0.0841	-0.1615
	2	0.1965	0.1261	-0.2423
15	1	0.5868	0.1329	-0.2112
	2	0.8802	0.1993	-0.3168
16	1	0.0000	0.0000	-0.0686
	2	0.0000	0.0000	-0.1029
17	1	0.1317	-0.0859	-0.2388
	2	0.1976	-0.1289	-0.3582
18	1	0.5815	-0.1344	-0.3735
	2	0.8723	-0.2017	-0.5602

3 Filed on \S\SES\JMW Path - Job ID Letter is R

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
1	1	1	114.6228	-0.0634	-0.3241		
		2	114.6228	-0.0634	-0.5986	0.0193	2.27
2	1	1	171.9342	-0.0951	-0.4862		
		2	171.9342	-0.0951	-0.8979	0.0290	2.27

COMBINATIONS:

1B 1 : 1.00 X CASE 3

1B 2 : 1.50 X CASE 3

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	1	2	42.0113	0.0502	-0.4045		
		3	42.0113	0.0502	-0.0697	0.0238	2.96
	2	2	63.0170	0.0753	-0.6067		
		3	63.0170	0.0753	-0.1045	0.0358	2.96
3	1	1	0.0000	-0.4834	1.0472		
		4	0.0000	-0.4834	-0.8864	-0.0065	1.00
	2	1	0.0000	-0.7251	1.5709		
		4	0.0000	-0.7251	-1.3296	-0.0097	1.00
4	1	1	39.9429	0.0908	-0.7231		
		5	39.9429	0.0908	-0.1876	0.0145	2.67
	2	1	59.9144	0.1363	-1.0847		
		5	59.9144	0.1363	-0.2814	0.0217	2.67
5	1	2	-1.0229	0.0246	0.1775		
		5	-1.0229	0.0246	0.2760	-0.0081	2.07
	2	2	-1.5344	0.0370	0.2662		
		5	-1.5344	0.0370	0.4141	-0.0122	2.07
6	1	5	-49.3943	0.2217	-1.6497		
		3	-49.3943	0.2217	0.0749	0.0445	3.24
	2	5	-74.0915	0.3326	-2.4746		
		3	-74.0915	0.3326	0.1124	0.0668	3.24
7	1	3	7.6442	0.2355	0.0052		
		6	7.6442	0.2355	0.9472	-0.0174	2.31
	2	3	11.4663	0.3533	0.0078		
		6	11.4663	0.3533	1.4209	-0.0261	2.31
8	1	4	-112.1600	0.3240	-1.0276		
		5	-112.1600	0.3240	0.3752	0.0151	1.57
	2	4	-168.2400	0.4859	-1.5414		
		5	-168.2400	0.4859	0.5628	0.0226	1.57

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

SIGN CONVENTION : BEAM DESIGNERS

EM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
9	1	5	-42.2488	0.4430	-1.5650		
		6	-42.2488	0.4430	1.3900	0.0249	1.60
	2	5	-63.3732	0.6646	-2.3475		
		6	-63.3732	0.6646	2.0851	0.0373	1.60
0	1	4	0.0000	-0.3144	0.6865		
		7	0.0000	-0.3144	-0.7281	0.0047	3.48
	2	4	0.0000	-0.4715	1.0297		
		7	0.0000	-0.4715	-1.0921	0.0071	3.48
1	1	5	0.4345	-1.5891	3.6784		
		8	0.4345	-1.5891	-3.4726	-0.0239	1.01
	2	5	0.6518	-2.3837	5.5175		
		8	0.6518	-2.3837	-5.2089	-0.0358	1.01
2	1	6	17.1205	-1.6610	4.3051		
		9	17.1205	-1.6610	-3.1697	-0.0406	1.25
	2	6	25.6808	-2.4916	6.4576		
		9	25.6808	-2.4916	-4.7545	-0.0610	1.25
3	1	7	-3.2528	0.4450	-1.1610		
		8	-3.2528	0.4450	0.7657	0.0115	1.28
	2	7	-4.8792	0.6675	-1.7415		
		8	-4.8792	0.6675	1.1485	0.0172	1.28
14	1	8	-1.6637	0.8795	-2.7069		
		9	-1.6637	0.8795	3.1592	-0.0532	5.02
	2	8	-2.4955	1.3192	-4.0604		
		9	-2.4955	1.3192	4.7387	-0.0798	5.02
15	1	7	0.0000	-0.1082	0.4329		
		10	0.0000	-0.1082	-0.4329	-0.0079	1.69
	2	7	0.0000	-0.1624	0.6494		
		10	0.0000	-0.1624	-0.6494	-0.0119	1.69

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
18	1	9	-0.0000	0.0026	-0.0105		
		12	-0.0000	0.0026	0.0105	0.0002	1.69
	2	9	-0.0000	0.0039	-0.0158		
		12	-0.0000	0.0039	0.0158	0.0003	1.69
19	1	10	3.2528	0.4450	-1.1610		
		11	3.2528	0.4450	0.7657	0.0115	1.28
	2	10	4.8792	0.6675	-1.7415		
		11	4.8792	0.6675	1.1485	0.0172	1.28
20	1	11	1.6637	0.8795	-2.7069		
		12	1.6637	0.8795	3.1592	-0.0532	5.02
	2	11	2.4955	1.3192	-4.0604		
		12	2.4955	1.3192	4.7387	-0.0798	5.02
21	1	10	0.0000	-0.3144	0.7281		
		13	0.0000	-0.3144	-0.6865	-0.0047	1.02
	2	10	0.0000	-0.4715	1.0921		
		13	0.0000	-0.4715	-1.0297	-0.0071	1.02
22	1	11	-0.4345	-1.5891	3.4726		
		14	-0.4345	-1.5891	-3.6784	0.0239	3.49
	2	11	-0.6518	-2.3837	5.2089		
		14	-0.6518	-2.3837	-5.5175	0.0358	3.49
23	1	12	-17.1205	-1.6610	3.1697		
		15	-17.1205	-1.6610	-4.3051	0.0406	3.25
	2	12	-25.6808	-2.4916	4.7545		
		15	-25.6808	-2.4916	-6.4576	0.0610	3.25
24	1	13	112.1600	0.3240	-1.0276		
		14	112.1600	0.3240	0.3752	0.0151	1.57
	2	13	168.2400	0.4859	-1.5414		
		14	168.2400	0.4859	0.5628	0.0226	1.57

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	1	14	42.2488	0.4430	-1.5650		
		15	42.2488	0.4430	1.3900	0.0249	1.60
	2	14	63.3732	0.6646	-2.3475		
		15	63.3732	0.6646	2.0851	0.0373	1.60
6	1	13	0.0000	-0.4834	0.8864		
		16	0.0000	-0.4834	-1.0472	0.0065	3.00
	2	13	0.0000	-0.7251	1.3296		
		16	0.0000	-0.7251	-1.5709	0.0097	3.00
7	1	16	-39.9429	0.0908	-0.7231		
		14	-39.9429	0.0908	-0.1876	0.0145	2.67
	2	16	-59.9144	0.1363	-1.0847		
		14	-59.9144	0.1363	-0.2814	0.0217	2.67
8	1	14	1.0229	0.0246	-0.2760		
		17	1.0229	0.0246	-0.1775	0.0081	1.93
	2	14	1.5344	0.0370	-0.4141		
		17	1.5344	0.0370	-0.2662	0.0122	1.93
29	1	14	49.3943	0.2217	-1.6497		
		18	49.3943	0.2217	0.0749	0.0445	3.24
	2	14	74.0915	0.3326	-2.4746		
		18	74.0915	0.3326	0.1124	0.0668	3.24
30	1	15	-7.6442	0.2355	-0.9472		
		18	-7.6442	0.2355	-0.0052	0.0174	1.69
	2	15	-11.4663	0.3533	-1.4209		
		18	-11.4663	0.3533	-0.0078	0.0261	1.69
31	1	16	-114.6228	-0.0634	-0.3241		
		17	-114.6228	-0.0634	-0.5986	0.0193	2.27
	2	16	-171.9342	-0.0951	-0.4862		
		17	-171.9342	-0.0951	-0.8979	0.0290	2.27

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
32	1	17	-42.0113	0.0502	-0.4045		
		18	-42.0113	0.0502	-0.0697	0.0238	2.96
	2	17	-63.0170	0.0753	-0.6067		
		18	-63.0170	0.0753	-0.1045	0.0358	2.96
33	1	4	-38.6544	-0.1435	-0.5453		
		2	-38.6544	-0.1435	-1.3914	0.0307	3.16
	2	4	-57.9816	-0.2153	-0.8180		
		2	-57.9816	-0.2153	-2.0871	0.0460	3.16
34	1	2	51.7627	0.4797	-1.7630		
		6	51.7627	0.4797	1.9678	-0.0170	5.93
	2	2	77.6441	0.7195	-2.6445		
		6	77.6441	0.7195	2.9517	-0.0255	5.93
35	1	13	38.6544	-0.1435	-0.5453		
		17	38.6544	-0.1435	-1.3914	0.0307	3.16
	2	13	57.9816	-0.2153	-0.8180		
		17	57.9816	-0.2153	-2.0871	0.0460	3.16
36	1	17	-51.7627	0.4797	-1.7630		
		15	-51.7627	0.4797	1.9678	-0.0170	5.93
	2	17	-77.6441	0.7195	-2.6445		
		15	-77.6441	0.7195	2.9517	-0.0255	5.93

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 : 1.00 X CASE 3

COMB 2 : 1.50 X CASE 3

1	1	-27.1071	-144.3843	-0.0000

R E A C T I O N S

NODE N	LOAD COMB	FX	FY	MOMENT
	2	-40.6606	-216.5765	-0.0000
4	1	-26.4480	140.8198	0.0000
	2	-39.6719	211.2297	0.0000
7	1	-0.4450	3.4589	0.0000
	2	-0.6675	5.1883	0.0000
10	1	-0.4450	-3.4589	-0.0000
	2	-0.6675	-5.1883	-0.0000
13	1	-26.4480	-140.8198	0.0000
	2	-39.6719	-211.2297	0.0000
16	1	-27.1071	144.3843	-0.0000
	2	-40.6606	216.5765	-0.0000

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 13:07:40 199
JOB : GSA - 517 GOLD - TS PANELS (OPTION 3B) JOB NO. : 1
RUN : 1 DESIGNED BY: CHECKED BY:

DESIGN OPTION: 1
ELEMENTS: 1-3,5,7-15,18-26,28,30-32
MODE: DESIGN

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
		K /In ^2	K	K -Ft	K -Ft		
1	TS4x4x.3125	46.00	171.93 / 180.50	0.00 / 20.36	-0.90 / 20.36	0.99	H1-1a
1	TS5x4x.3125	46.00	171.93 / 206.17	0.00 / 28.43	-0.90 / 28.43	0.86	H1-1a
2	TS3x4x.1875	46.00	63.02 / 98.95	0.00 / 9.04	-0.61 / 9.04	0.70	H1-1a
2	TS4x4x.1875	46.00	63.02 / 114.68	0.00 / 13.49	-0.61 / 13.49	0.59	H1-1a
2	TS5x4x.1875	46.00	63.02 / 130.00	0.00 / 18.60	-0.61 / 18.60	0.51	H1-1a
3	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	1.57 / 9.04	0.17	H1-1b
3	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	1.57 / 13.49	0.12	H1-1b
3	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	1.57 / 18.60	0.08	H1-1b
5	TS3x4x.1875	46.00	-1.53 / 80.88	0.00 / 9.04	0.42 / 9.04	0.06	H1-1b
5	TS4x4x.1875	46.00	-1.53 / 99.50	0.00 / 13.49	0.41 / 13.49	0.04	H1-1b
5	TS5x4x.1875	46.00	-1.53 / 115.47	0.00 / 18.60	0.41 / 18.60	0.03	H1-1b
7	TS3x4x.1875	46.00	11.47 / 98.95	0.00 / 9.04	1.42 / 9.04	0.22	H1-1b
7	TS4x4x.1875	46.00	11.47 / 114.68	0.00 / 13.49	1.42 / 13.49	0.16	H1-1b

A I S C - O U T P U T S U M M A R Y

EL NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
7	TS5x4x.1875	46.00	11.47 / 130.00	0.00 / 18.60	1.42 / 18.60	0.12	H1-1b
8	TS4x4x.5	46.00	-168.24 / 186.15	0.00 / 27.67	-1.77 / 27.67	0.96	H1-1a
8	TS5x4x.375	46.00	-168.24 / 191.43	0.00 / 32.57	-1.75 / 32.57	0.93	H1-1a
9	TS3x4x.3125	46.00	-63.37 / 96.76	0.00 / 13.39	-2.90 / 13.39	0.85	H1-1a
9	TS4x4x.1875	46.00	-63.37 / 87.18	0.00 / 13.49	-2.99 / 13.49	0.92	H1-1a
9	TS5x4x.1875	46.00	-63.37 / 103.53	0.00 / 18.60	-2.86 / 18.60	0.75	H1-1a
10	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	-1.09 / 9.04	0.12	H1-1b
10	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	-1.09 / 13.49	0.08	H1-1b
10	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	-1.09 / 18.60	0.06	H1-1b
11	TS3x4x.1875	46.00	0.65 / 98.95	0.00 / 9.04	5.52 / 9.04	0.61	H1-1b
11	TS4x4x.1875	46.00	0.65 / 114.68	0.00 / 13.49	5.52 / 13.49	0.41	H1-1b
11	TS5x4x.1875	46.00	0.65 / 130.00	0.00 / 18.60	5.52 / 18.60	0.30	H1-1b
12	TS3x4x.1875	46.00	25.68 / 98.95	0.00 / 9.04	6.46 / 9.04	0.89	H1-1a
12	TS4x4x.1875	46.00	25.68 / 114.68	0.00 / 13.49	6.46 / 13.49	0.65	H1-1a
12	TS5x4x.1875	46.00	25.68 / 130.00	0.00 / 18.60	6.46 / 18.60	0.45	H1-1b
13	TS3x4x.1875	46.00	-4.88 / 53.99	0.00 / 9.04	-1.76 / 9.04	0.24	H1-1b
13	TS4x4x.1875	46.00	-4.88 / 78.48	0.00 / 13.49	-1.75 / 13.49	0.16	H1-1b

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 13:08:59 1992
JOB : GSA - 517 GOLD - TS PANELS (OPTION 3B) JOB NO. : 1
RUN : 1 DESIGNED BY: _____ CHECKED BY: _____

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
13	TS5x4x.1875	46.00	-4.88 / 99.14	0.00 / 18.60	-1.75 / 18.60	0.12	H1-1b
14	TS3x4x.1875	46.00	-2.50 / 54.51	0.00 / 9.04	4.79 / 9.04	0.55	H1-1b
14	TS4x4x.1875	46.00	-2.50 / 78.92	0.00 / 13.49	4.78 / 13.49	0.37	H1-1b
14	TS5x4x.1875	46.00	-2.50 / 99.51	0.00 / 18.60	4.77 / 18.60	0.27	H1-1b
15	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	0.65 / 9.04	0.07	H1-1b
15	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	0.65 / 13.49	0.05	H1-1b
15	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	0.65 / 18.60	0.03	H1-1b
18	TS3x4x.1875	46.00	-0.00 / 57.26	0.00 / 9.04	-0.02 / 9.04	0.00	H1-1b
18	TS4x4x.1875	46.00	-0.00 / 68.90	0.00 / 13.49	-0.02 / 13.49	0.00	H1-1b
18	TS5x4x.1875	46.00	-0.00 / 80.32	0.00 / 18.60	-0.02 / 18.60	0.00	H1-1b
19	TS3x4x.1875	46.00	4.88 / 98.95	0.00 / 9.04	-1.74 / 9.04	0.22	H1-1b
19	TS4x4x.1875	46.00	4.88 / 114.68	0.00 / 13.49	-1.74 / 13.49	0.15	H1-1b
19	TS5x4x.1875	46.00	4.88 / 130.00	0.00 / 18.60	-1.74 / 18.60	0.11	H1-1b
20	TS3x4x.1875	46.00	2.50 / 98.95	0.00 / 9.04	4.74 / 9.04	0.54	H1-1b
20	TS4x4x.1875	46.00	2.50 / 114.68	0.00 / 13.49	4.74 / 13.49	0.36	H1-1b
20	TS5x4x.1875	46.00	2.50 / 130.00	0.00 / 18.60	4.74 / 18.60	0.26	H1-1b

A I S C - O U T P U T S U M M A R Y

EL O	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
21	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	1.09 / 9.04	0.12	H1-1b
21	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	1.09 / 13.49	0.08	H1-1b
21	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	1.09 / 18.60	0.06	H1-1b
22	TS3x4x.1875	46.00	-0.65 / 75.72	0.00 / 9.04	-5.52 / 9.04	0.62	H1-1b
22	TS4x4x.1875	46.00	-0.65 / 95.72	0.00 / 13.49	-5.52 / 13.49	0.41	H1-1b
22	TS5x4x.1875	46.00	-0.65 / 113.11	0.00 / 18.60	-5.52 / 18.60	0.30	H1-1b
23	TS3x4x.25	46.00	-25.68 / 104.05	0.00 / 11.38	-6.91 / 11.38	0.79	H1-1a
23	TS4x4x.1875	46.00	-25.68 / 94.87	0.00 / 13.49	-6.90 / 13.49	0.73	H1-1a
23	TS5x4x.1875	46.00	-25.68 / 108.43	0.00 / 18.60	-6.82 / 18.60	0.56	H1-1a
24	TS4x4x.3125	46.00	168.24 / 180.50	0.00 / 20.36	-1.54 / 20.36	1.00	H1-1a
24	TS5x4x.3125	46.00	168.24 / 206.17	0.00 / 28.43	-1.54 / 28.43	0.86	H1-1a
25	TS3x4x.1875	46.00	63.37 / 98.95	0.00 / 9.04	-2.35 / 9.04	0.87	H1-1a
25	TS4x4x.1875	46.00	63.37 / 114.68	0.00 / 13.49	-2.35 / 13.49	0.71	H1-1a
25	TS5x4x.1875	46.00	63.37 / 130.00	0.00 / 18.60	-2.35 / 18.60	0.60	H1-1a
26	TS3x4x.1875	46.00	0.00 / 93.45	0.00 / 9.04	-1.57 / 9.04	0.17	H1-1b
26	TS4x4x.1875	46.00	0.00 / 108.31	0.00 / 13.49	-1.57 / 13.49	0.12	H1-1b
26	TS5x4x.1875	46.00	0.00 / 122.77	0.00 / 18.60	-1.57 / 18.60	0.08	H1-1b

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 13:09:01 199
JOB : GSA - 517 GOLD - TS PANELS (OPTION 3B) JOB NO. :
RUN : 1 DESIGNED BY: _____ CHECKED BY: _____

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
28	TS3x4x.1875						
		46.00	1.53	0.00	-0.41	0.05	H1-1b
			98.95	9.04	9.04		
28	TS4x4x.1875						
		46.00	1.53	0.00	-0.41	0.04	H1-1b
			114.68	13.49	13.49		
28	TS5x4x.1875						
		46.00	1.53	0.00	-0.41	0.03	H1-1b
			130.00	18.60	18.60		
30	TS3x4x.1875						
		46.00	-11.47	0.00	-1.46	0.23	H1-1b
			83.61	9.04	9.04		
30	TS4x4x.1875						
		46.00	-11.47	0.00	-1.45	0.17	H1-1b
			99.03	13.49	13.49		
30	TS5x4x.1875						
		46.00	-11.47	0.00	-1.44	0.13	H1-1b
			112.88	18.60	18.60		
31	TS4x4x.5	46.00	-171.93	0.00	-1.50	0.97	H1-1a
			186.57	27.67	27.67		
32	TS3x4x.25	46.00	-63.02	0.00	-0.82	0.79	H1-1a
			87.22	11.38	11.38		
32	TS4x4x.1875						
		46.00	-63.02	0.00	-0.81	0.77	H1-1a
			87.40	13.49	13.49		
32	TS5x4x.1875						
		46.00	-63.02	0.00	-0.77	0.66	H1-1a
			100.40	18.60	18.60		

SIGN OPTION: 2
ELEMENTS: 4.6.27.29.33-36
DE: DESIGN

A I S C - O U T P U T S U M M A R Y

EL NO	SHAPE	Fv / Pu / Mux / Muv	Pn / Mnx / Mnv	STRESS RATIO	GOVN CRIT
		K /In ^2	K	K -Ft	K -Ft		
4	TS4x4x.1875	46.00	59.91	-1.08	0.00	0.59	H1-1a
			114.68	13.49	13.49		
4	TS5x4x.1875	46.00	59.91	-1.08	0.00	0.51	H1-1a
			130.00	18.60	18.60		
4	TS6x4x.1875	46.00	59.91	-1.08	0.00	0.45	H1-1a
			145.73	24.36	24.36		
4	TS7x4x.1875	46.00	59.91	-1.08	0.00	0.40	H1-1a
			161.05	30.74	30.74		
4	TS8x4x.1875	46.00	59.91	-1.08	0.00	0.36	H1-1a
			176.78	37.95	37.95		
6	TS4x4x.3125	46.00	-74.09	-3.93	0.00	0.83	H1-1a
			111.83	20.36	20.36		
6	TS5x4x.1875	46.00	-74.09	-3.62	0.00	0.95	H1-1a
			94.80	18.60	18.60		
6	TS6x4x.1875	46.00	-74.09	-3.11	0.00	0.78	H1-1a
			110.39	24.36	24.36		
6	TS7x4x.1875	46.00	-74.09	-2.88	0.00	0.69	H1-1a
			122.96	30.74	30.74		
6	TS8x4x.1875	46.00	-74.09	-2.75	0.00	0.61	H1-1a
			135.66	37.95	37.95		
27	TS4x4x.25	46.00	-59.91	-1.81	0.00	0.77	H1-1a
			88.13	17.15	17.15		
27	TS5x4x.1875	46.00	-59.91	-1.54	0.00	0.73	H1-1a
			91.21	18.60	18.60		
27	TS6x4x.1875	46.00	-59.91	-1.34	0.00	0.59	H1-1a
			111.18	24.36	24.36		

PROGRAM : Steel Beam-Column Design v1.72 PAGE NO.
BPLW. INC. TIME : Thu Feb 27 13:09:46 199
JOB : GSA - 517 GOLD - TS PANELS (OPTION 3B) JOB NO. : 1
RUN : 1 DESIGNED BY: _____ CHECKED BY: _____

A I S C - O U T P U T S U M M A R Y

ELEM NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
27	TS7x4x.1875	46.00	-59.91 / 129.19	-1.25 / 30.74	0.00 / 30.74	0.50	H1-1a
27	TS8x4x.1875	46.00	-59.91 / 146.90	-1.20 / 37.95	0.00 / 37.95	0.44	H1-1a
29	TS4x4x.1875	46.00	74.09 / 114.68	-2.47 / 13.49	0.00 / 13.49	0.81	H1-1a
29	TS5x4x.1875	46.00	74.09 / 130.00	-2.47 / 18.60	0.00 / 18.60	0.69	H1-1a
29	TS6x4x.1875	46.00	74.09 / 145.73	-2.47 / 24.36	0.00 / 24.36	0.60	H1-1a
29	TS7x4x.1875	46.00	74.09 / 161.05	-2.47 / 30.74	0.00 / 30.74	0.53	H1-1a
29	TS8x4x.1875	46.00	74.09 / 176.78	-2.47 / 37.95	0.00 / 37.95	0.48	H1-1a
33	TS4x4x.25	46.00	-57.98 / 86.42	-3.51 / 17.15	0.00 / 17.15	0.85	H1-1a
33	TS5x4x.1875	46.00	-57.98 / 90.08	-2.97 / 18.60	0.00 / 18.60	0.79	H1-1a
33	TS6x4x.1875	46.00	-57.98 / 110.19	-2.58 / 24.36	0.00 / 24.36	0.62	H1-1a
33	TS7x4x.1875	46.00	-57.98 / 128.31	-2.40 / 30.74	0.00 / 30.74	0.52	H1-1a
33	TS8x4x.1875	46.00	-57.98 / 146.11	-2.30 / 37.95	0.00 / 37.95	0.45	H1-1a
34	TS4x4x.1875	46.00	77.64 / 114.68	2.95 / 13.49	0.00 / 13.49	0.87	H1-1a
34	TS5x4x.1875	46.00	77.64 / 130.00	2.95 / 18.60	0.00 / 18.60	0.74	H1-1a
34	TS6x4x.1875	46.00	77.64 / 145.73	2.95 / 24.36	0.00 / 24.36	0.64	H1-1a
34	TS7x4x.1875	46.00	77.64 / 161.05	2.95 / 30.74	0.00 / 30.74	0.57	H1-1a
34	TS8x4x.1875	46.00	77.64 / 176.78	2.95 / 37.95	0.00 / 37.95	0.51	H1-1a

A I S C - O U T P U T S U M M A R Y

EL NO	SHAPE	Fv	Pu / Pn	Mux / Mnx	Muv / Mnv	STRESS RATIO	GOVN CRIT
35	TS4x4x.1875						
		46.00	57.98	-2.09	0.00	0.64	H1-1a
			114.68	13.49	13.49		
35	TS5x4x.1875						
		46.00	57.98	-2.09	0.00	0.55	H1-1a
			130.00	18.60	18.60		
35	TS6x4x.1875						
		46.00	57.98	-2.09	0.00	0.47	H1-1a
			145.73	24.36	24.36		
35	TS7x4x.1875						
		46.00	57.98	-2.09	0.00	0.42	H1-1a
			161.05	30.74	30.74		
35	TS8x4x.1875						
		46.00	57.98	-2.09	0.00	0.38	H1-1a
			176.78	37.95	37.95		
36	TS4x4x.3125						
		46.00	-77.64	4.61	0.00	0.87	H1-1a
			115.40	20.36	20.36		
36	TS5x4x.25	46.00	-77.64	3.91	0.00	0.77	H1-1a
			124.91	23.77	23.77		
36	TS6x4x.1875						
		46.00	-77.64	3.68	0.00	0.84	H1-1a
			110.39	24.36	24.36		
36	TS7x4x.1875						
		46.00	-77.64	3.42	0.00	0.73	H1-1a
			122.96	30.74	30.74		
36	TS8x4x.1875						
		46.00	-77.64	3.27	0.00	0.65	H1-1a
			135.66	37.95	37.95		

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Architects & Engineers, Inc.

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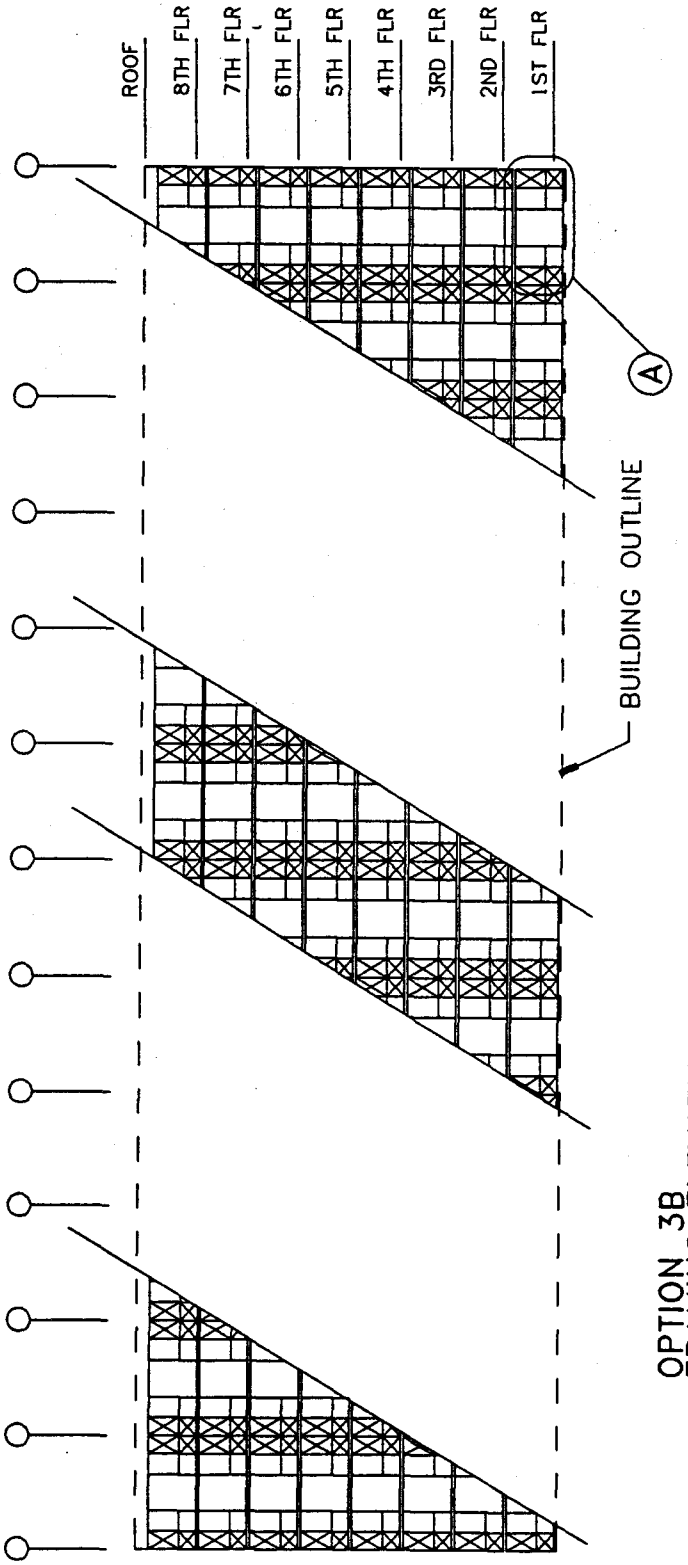
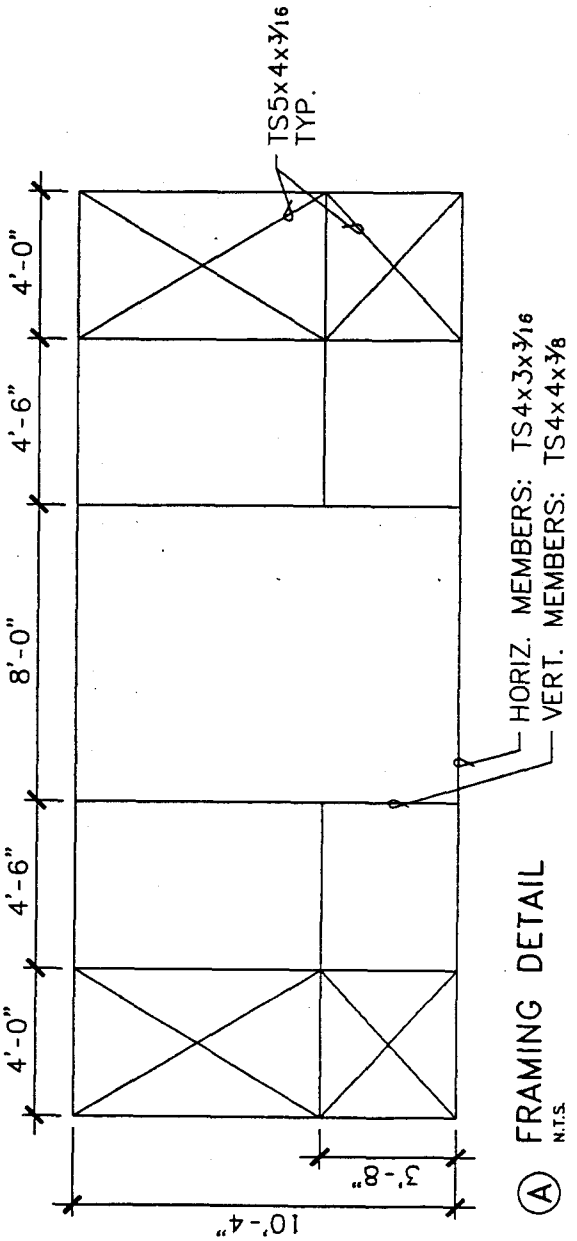


OPTION 3B
FRAMING ELEVATION
N.T.S.



A FRAMING DETAIL
N.T.S.

APPENDIX F

BPLW
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(505) 881-2759
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Mesa, AZ 85201
(602) 827-2759

Project _____
Subject _____
Project No. _____ Date _____ By _____

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

OPTION 1B

COST ESTIMATE

Designing to Shape the Future

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $5,401,373
Date: MARCH 2, 1992 $0

Description	Quantity	/Uni	TOTAL COST: Unit	Total	Summary:
DIVISION 1: General Requirements					
OFFICE TRAILER	16	MO	$165	$2,640	
TEMP. UTILITIES	16	MO	$600	$9,600	
PROJ. MGR.	64	WEEK	$1,620	$103,680	
SUPERINTENDENT	64	WEEK	$1,380	$88,320	
SCAFFOLDING	16	MO	$8,160	$130,560	
TESTING	1	LS	$25,000	$25,000	
BARRIERS	1	LS	$15,000	$15,000	
CRANE	16	MO	$8,000	$128,000	
PERMIT/BOND/INS.	1	LS	$156,000	$156,000	
CLEANUP	1	LS	$10,000	$10,000	
				$0	
				$0	
SUBTOTAL: General Requirements					$668,800
DIVISION 2: Site Work					
DEMO SIDEWALK	70	SY	$6.25	$438	
DEMO CURB & GUTTER	100	LF	$4.28	$428	
DEMO PAVEMENT	115	SY	$5.90	$679	
CLEAN & ROUGHEN WALL	1,107	SF	$5.20	$5,756	
HAUL	215	CY	$13.40	$2,881	
REMOVE BRICK WALL	42,725	SF	$2.50	$106,813	
REMOVE STRUCTURAL CLAY TIL	25,600	SF	$2.90	$74,240	
REMOVE PLASTER FINISH	46,500	SF	$0.70	$32,550	
REMOVE METAL PANELS	7,170	SF	$0.60	$4,302	
REMOVE WINDOW FRAMES	448	EA	$23.00	$10,304	
REMOVE STUCCO	2,100	SF	$0.50	$1,050	
REMOVE GRANITE PANEL	3,500	SF	$4.00	$14,000	
REMOVE RIBBON WINDOW 1ST F	38	EA	$16.00	$608	
EXCAVATION	1,185	CY	$7.38	$8,745	
SHORING	4,640	SF	$7.95	$36,888	
STRUCT. FILL	178	CY	$13.55	$2,412	
COMPACTION	178	CY	$4.83	$860	
BACKFILL	859	CY	$2.15	$1,847	
COMPACTION	859	CY	$3.25	$2,792	
SIDEWALK	630	SF	$3.85	$2,426	
CURB & GUTTER	100	LF	$9.70	$970	
PAVEMENT	1,035	SY	$23.90	$24,737	
REMOVE EXTERIOR DOORS	8	PR	$30.00	$240	
REMOVE S.S. COL. COVERS	900	SF	$2.00	$1,800	
				$0	
SUBTOTAL: Site Work					$337,763
DIVISION 3: Concrete					

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $5,401,373
Date: MARCH 2, 1992 $0

Description	Quantity	/Uni	TOTAL COST: Unit	Total	Summary:
DRILL & DOWEL FDN	200	EA	$51.75	$10,350	
BONDING AGENT - FDN	10	GAL	$50.00	$500	
DRILL & DOWEL WALL	240	EA	$17.25	$4,140	
BONDING AGENT - WALL	24	GAL	$50.00	$1,200	
FDN FORMWORK	990	SFCA	$7.05	$6,980	
FORMWORK (BELOW GRADE)	2,268	SFCA	$15.00	$34,020	
FORMWORK (ABOVE GRADE)	10,150	SFCA	$12.00	$121,800	
FDN. CONC (INCL. REINF.)	148	CY	$325.00	$48,100	
WALL (BELOW GRADE. REINF)	90	CY	$390.00	$35,100	
WALL REINF	52	TON	$1,160.00	$60,320	
WALL CONC.	400	CY	$70.00	$28,000	
PLACING WALL CONC.	400	CY	$31.00	$12,400	
FORM LINER	10,150	SFCA	$4.00	$40,600	
DRILL & DOWEL FLOORS	2,144	EA	$17.25	$36,984	
				$0	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Concrete					$440,494
DIVISION 4: Masonry					
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Masonry					$0
DIVISION 5: Metals					
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Metals					$0
DIVISION 6: Wood & Plastics					
				$0	
				$0	
				$0	
				$0	

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE.. SW
Estimate No: 1 LBL: $5.401.373
Date: MARCH 2. 1992 $0

Description	Quantity	/Uni	TOTAL COST: Unit	Total	Summary:
SUBTOTAL: Wood & Plastics					$0
DIVISION 7: Thermal & Moisture Protection					
BATT INSUL. 3"	38.400	SF	$0.45	$17.280	
SEALANT	1	LS	$10.000.00	$10.000	
METAL FLASHING	1.600	SF	$3.85	$6.160	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Thermal & Moisture Protection					$33.440
DIVISION 8: Doors & Windows					
ALUM. WINDOW FRAME 4'X5'	1.120	SF	$11.00	$12.320	
INSULATED/TINTED GLAZING	1.120	SF	$14.20	$15.904	
ALUM. EXT. DOOR	400	SF	$21.00	$8.400	
ALUM. CURTAIN WALL	63.900	SF	$40.00	$2.556.000	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Doors & Windows					$2.592.624
DIVISION 9: Finishes					
GYP. BD. 5/8" TYPE X	32.000	SF	$0.87	$27.840	
MTL STUDS	32.000	SF	$0.73	$23.360	
PAINTING - INTERIOR WALLS	6.400	SF	$0.20	$1.280	
VCT 12X12	6.400	SF	$3.40	$21.760	
VINYL BASE	6.400	LF	$1.40	$8.960	
EXTEND LAY-IN CEILING	400	SF	$2.50	$1.000	
SEAL EXTERIOR WALL	8.200	SF	$3.00	$24.600	
				$0	
				$0	
				$0	

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE.. SW
Estimate No: 1 LBL: $5,401,373
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:
**********				
			$0	
			$0	
SUBTOTAL: Finishes				$108,800
DIVISION 10: Specialties				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Specialties				$0
DIVISION 11: Equipment				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Equipment				$0
DIVISION 12: Furnishings				
BLINDS 1"	28,000 SF	$2.66	$74,480	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Furnishings				$74,480
DIVISION 13: Special Construction				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Special Construction				$0
DIVISION 14: Conveying Systems				

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $5,401,373
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Conveying Systems				$0
DIVISION 15: Mechanical				
			$0	
			$0	
			$0	
			$0	
		Subtotal:		$0
Subcontractor OH & P:	%		$0	
SUBTOTAL: Mechanical				$0
DIVISION 16: Electrical				
			$0	
			$0	
			$0	
			$0	
		Subtotal:		$0
Subcontractor OH & P:	%		$0	
SUBTOTAL: Electrical				$0

SUBTOTAL: Divisions 1 - 16 $4,256,401

CONTRACTOR OH & P: 20 % $851,280

SUBTOTAL: $5,107,681

N M GROSS RECEIPTS TAX: 5.75 % $293,692

STATEMENT OF PROBABLE COSTOPTION 1B File No: 91062112

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $5,401,373
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:

TOTAL CONSTRUCTION COST: $5,401,373

Square Foot Cost Analysis: 244,800 SF $22.06 /SF

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Project _____
Subject _____
Project No. _____ Date _____ By _____

- ☐ Memorandum
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OPTION 2A

COST ESTIMATE

Copies to:

Designing to Shape the Future

STATEMENT OF PROBABLE COSTOPTION 2A File No: 91062121

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $2,051,836
Date: MARCH 2, 1992 $0

Description	Quantity	/Uni	TOTAL COST: Unit	Total	Summary:
DIVISION 1: General Requirements					
OFFICE TRAILER	12	MO	$165	$1,980	
TEMP. UTILITIES	12	MO	$600	$7,200	
PROJ. MGR.	48	WEEK	$1,620	$77,760	
SUPERINTENDENT	48	WEEK	$1,380	$66,240	
SCAFFOLDING	12	MO	$8,160	$97,920	
TESTING	1	LS	$25,000	$25,000	
BARRIERS	1	LS	$15,000	$15,000	
CRANE	12	MO	$8,000	$96,000	
PERMIT/BOND/INS	1	LS	$59,300	$59,300	
CLEAN UP	1	LS	$10,000	$10,000	
				$0	
				$0	
SUBTOTAL: General Requirements					$456,400
DIVISION 2: Site Work					
DEMO SIDEWALK	200	SY	$6.25	$1,250	
DEMO PAVEMENT	200	SY	$5.90	$1,180	
HAUL	215	CY	$13.40	$2,881	
REMOVE WINDOWS	176	EA	$23.00	$4,048	
REM BRICK FROM AROUND WIND	1,408	SF	$2.50	$3,520	
REMOVE GRANITE PANEL	3,500	SF	$4.00	$14,000	
REMOVE RIBBON WINDOW 1ST F	38	EA	$16.00	$608	
EXCAVATION	354	CY	$7.38	$2,613	
BACKFILL	104	CY	$2.15	$224	
COMPACTION	104	CY	$3.25	$338	
SIDEWALK	200	SF	$3.85	$770	
PAVEMENT	200	SY	$23.90	$4,780	
CONC. PIERS (BRACES)	180	VLF	$87.00	$15,660	
CONC. PIERS (COLUMNS)	770	VLF	$56.00	$43,120	
				$0	
SUBTOTAL: Site Work					$94,991
DIVISION 3: Concrete					
FDN FORMWORK	3,000	SFCA	$3.63	$10,890	
FDN. CONC (INCL. REINF.)	250	CY	$325.00	$81,250	
DRILL & DOWEL FLOORS	6,400	EA	$17.25	$110,400	
				$0	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Concrete					$202,540

STATEMENT OF PROBABLE COSTOPTION 2A File No: 91062121

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $2,051,836
Date: MARCH 2, 1992 $0

Description	Quantity	/Uni	TOTAL COST: Unit	Total	Summary:
DIVISION 4: Masonry					
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Masonry					$0
DIVISION 5: Metals					
BEAMS W27X84	1,200	LF	$51.00	$61,200	
COLUMNS W24X68	1,400	LF	$48.00	$67,200	
BRACES W14X120 GR. 50	540	LF	$90.00	$48,600	
WALL PLATE	62	TON	$2,000.00	$124,000	
WALL ANGLES	6,650	LB	$1.66	$11,039	
MISC.	20	TON	$2,500.00	$50,000	
ARCH. PRECAST PANEL	31,408	SF	$11.00	$345,488	
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Metals					$707,527
DIVISION 6: Wood & Plastics					
				$0	
				$0	
				$0	
				$0	
SUBTOTAL: Wood & Plastics					$0
DIVISION 7: Thermal & Moisture Protection					
SPRAY FIREPROOF STL.	14,590	SF	$1.30	$18,967	
SEALANT	1	LS	$10,000.00	$10,000	
METAL FLASHING	1,600	SF	$3.85	$6,160	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	
				$0	

STATEMENT OF PROBABLE COSTOPTION 2A File No: 91062121

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $2,051,836
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:
SUBTOTAL: Thermal & Moisture Protection				$35,127
DIVISION 8: Doors & Windows				
ALUM. WINDOW FRAME 4'X4'	2,816 SF	$11.00	$30,976	
INSULATED/TINTED GLAZING	2,816 SF	$14.20	$39,987	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Doors & Windows				$70,963
DIVISION 9: Finishes				
GYP. BD. LATH	340 SY	$7.10	$2,414	
MTL STUDS	3,060 SF	$0.73	$2,234	
PAINTING - PLASTER FINISH	3,060 SF	$0.20	$612	
PLASTER FINISH	340 SY	$15.25	$5,185	
ACRYLIC COAT CONC. PANELS	31,408 SF	$1.00	$31,408	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Finishes				$41,853
DIVISION 10: Specialties				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Specialties				$0
DIVISION 11: Equipment				
			$0	
			$0	
			$0	

STATEMENT OF PROBABLE COSTOPTION 2A File No: 91062121

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $2,051,836
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:
			$0	
SUBTOTAL: Equipment				$0
DIVISION 12: Furnishings				
BLINDS 1"	2,816 SF	$2.66	$7,491	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Furnishings				$7,491
DIVISION 13: Special Construction				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Special Construction				$0
DIVISION 14: Conveying Systems				
			$0	
			$0	
			$0	
			$0	
SUBTOTAL: Conveying Systems				$0
DIVISION 15: Mechanical				
			$0	
			$0	
			$0	
			$0	
		Subtotal:		$0
Subcontractor OH & P:	%		$0	
SUBTOTAL: Mechanical				$0

STATEMENT OF PROBABLE COSTOPTION 2A File No: 91062121

Project: GSA SEISMIC ANALYSIS
Location: 517 GOLD AVE., SW
Estimate No: 1 LBL: $2,051,836
Date: MARCH 2, 1992 $0

Description	Quantity /Uni	TOTAL COST: Unit	Total	Summary:
DIVISION 16: Electrical				
			$0	
			$0	
			$0	
			$0	
		Subtotal:		$0
Subcontractor OH & P:	%		$0	
SUBTOTAL: Electrical				$0

SUBTOTAL: Divisions 1 - 16		$1,616,892
CONTRACTOR OH & P:	20 %	$323,378
SUBTOTAL:		$1,940,270
N M GROSS RECEIPTS TAX:	5.75 %	$111,566
TOTAL CONSTRUCTION COST:		$2,051,836
Square Foot Cost Analysis: 244,800 SF		$8.38 /SF