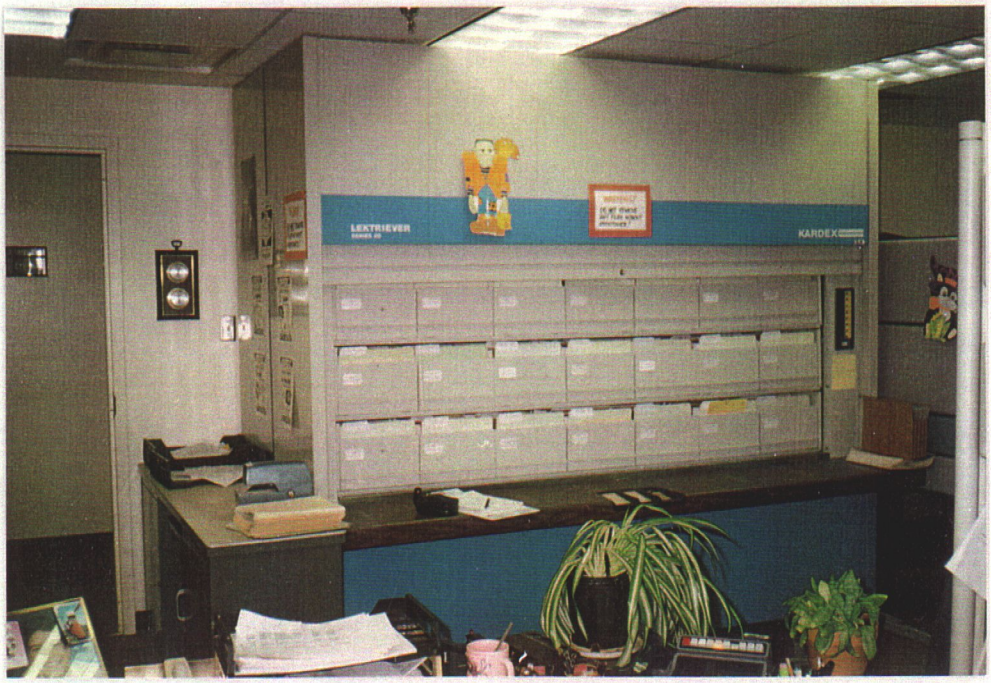
Room 7437 Photo #17



Room 8017 Photo #18

SHEARS @ INTERIOR COLUMNS				
FLOOR	EXISTING[1]		REQUIRED[2]	CAPACITY[3]
	50 PSFLL	80 PSFLL		
4	141^k	161^k	115^k	150^k
7	128^k	147^k	116^k	125^k
8	123^k	142^k	116^k	119^k

1) SERVICE LOAD SHEAR INCLUDING DEAD LOADS, LIVE LOADS & EQUIPMENT LOADS.

2) SERVICE LOAD SHEAR REQUIRED TO RESIST DEAD LOADS & CODE PRESCRIBED LIVE LOADS.

3) SERVICE SHEAR CAPACITY OF SLAB.

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Project _____

Subject _____

Project No. _____ Date _____ By _____

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- ☐ Telephone record
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ROOMS 4015 & 4015A

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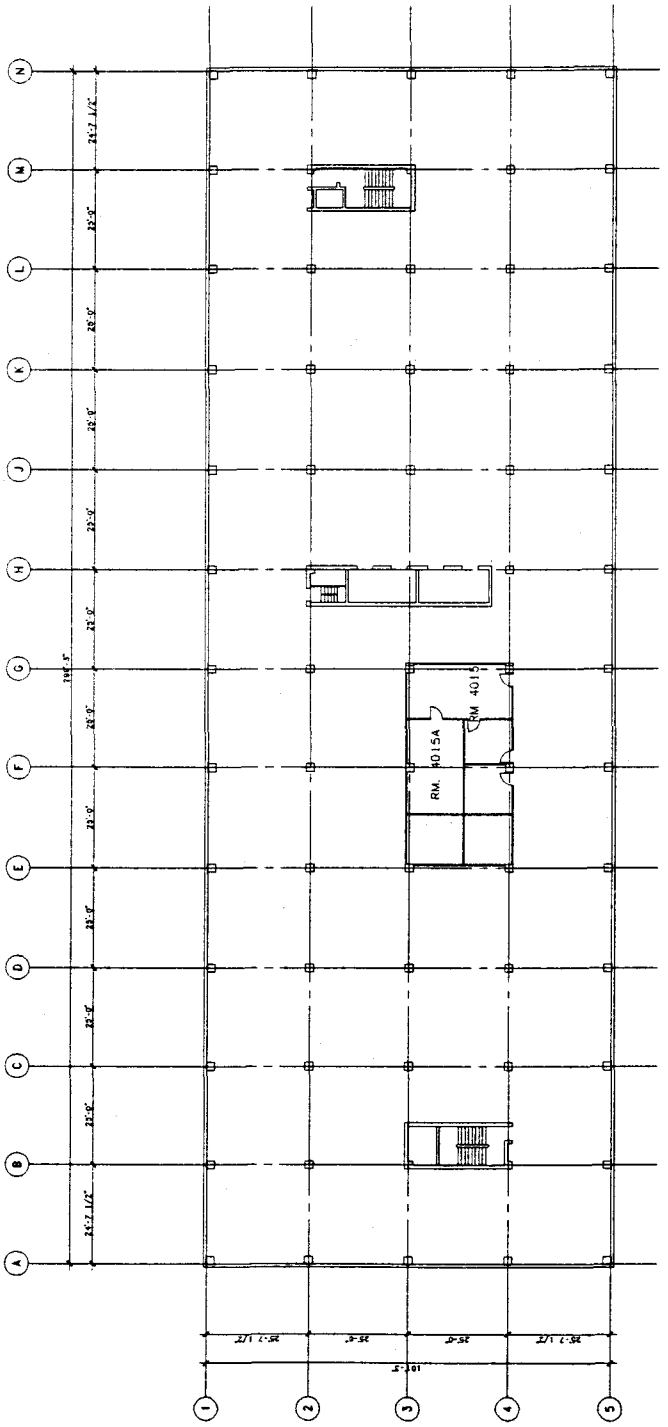

FOURTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

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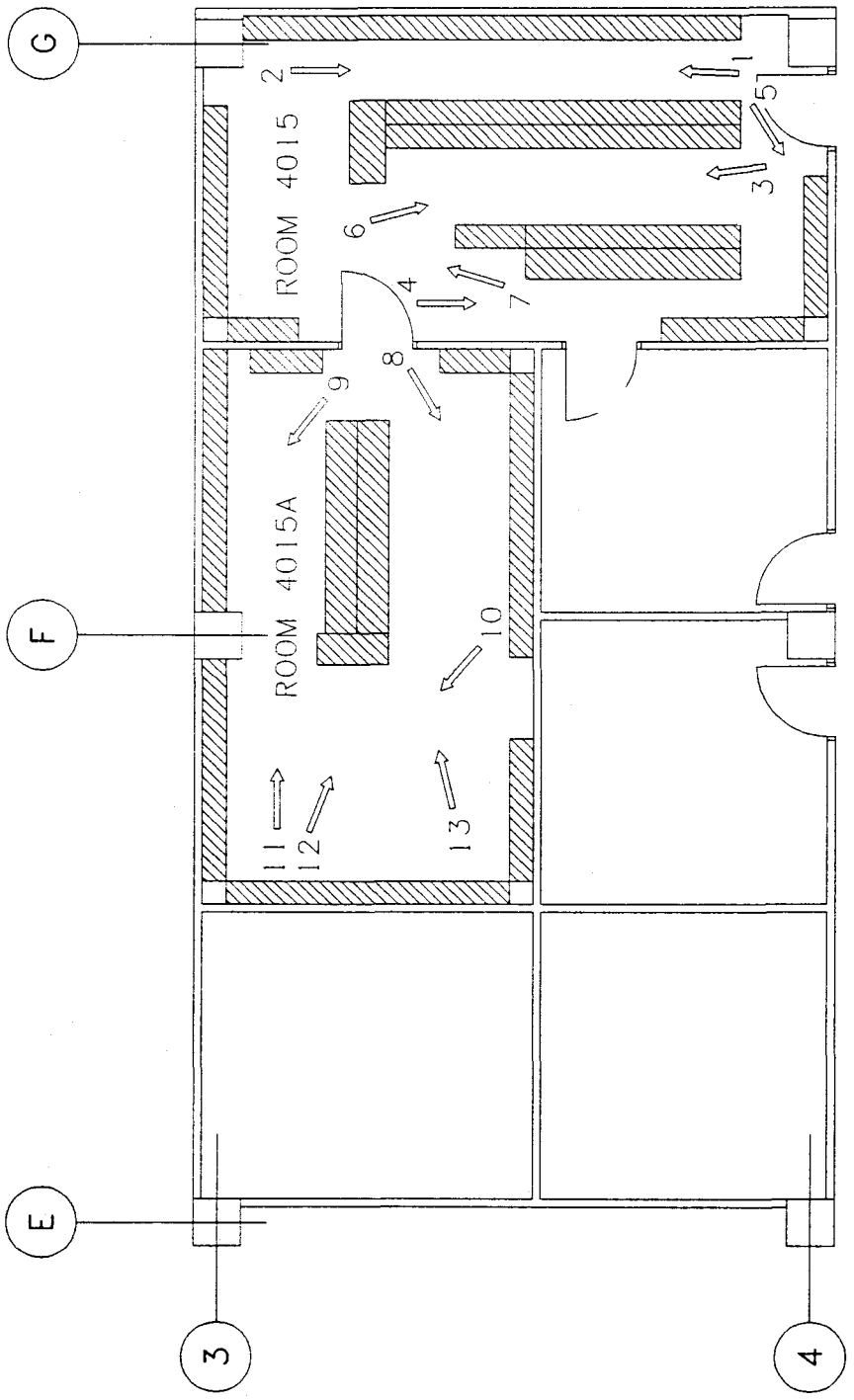

PHOTOGRAPH LOCATIONS
ROOMS 4015 & 4015A

SCALE: 1/8" = 1'-0"

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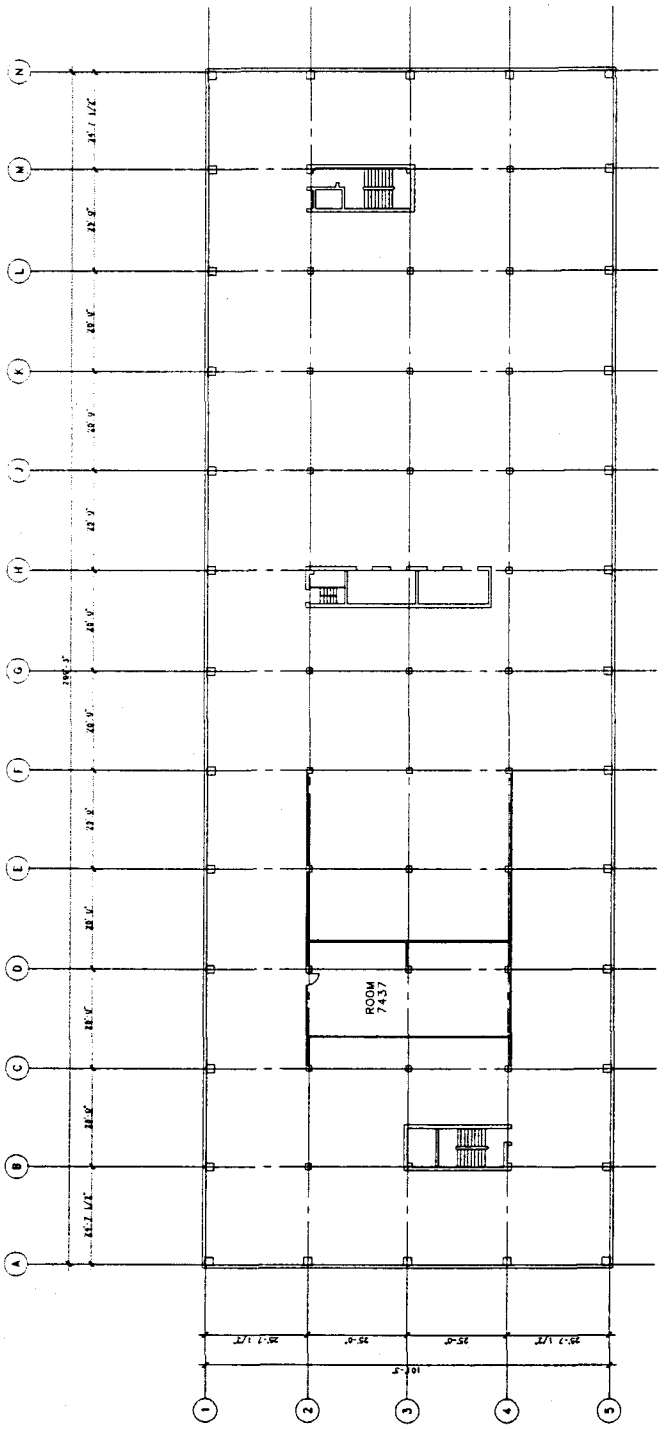

SEVENTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

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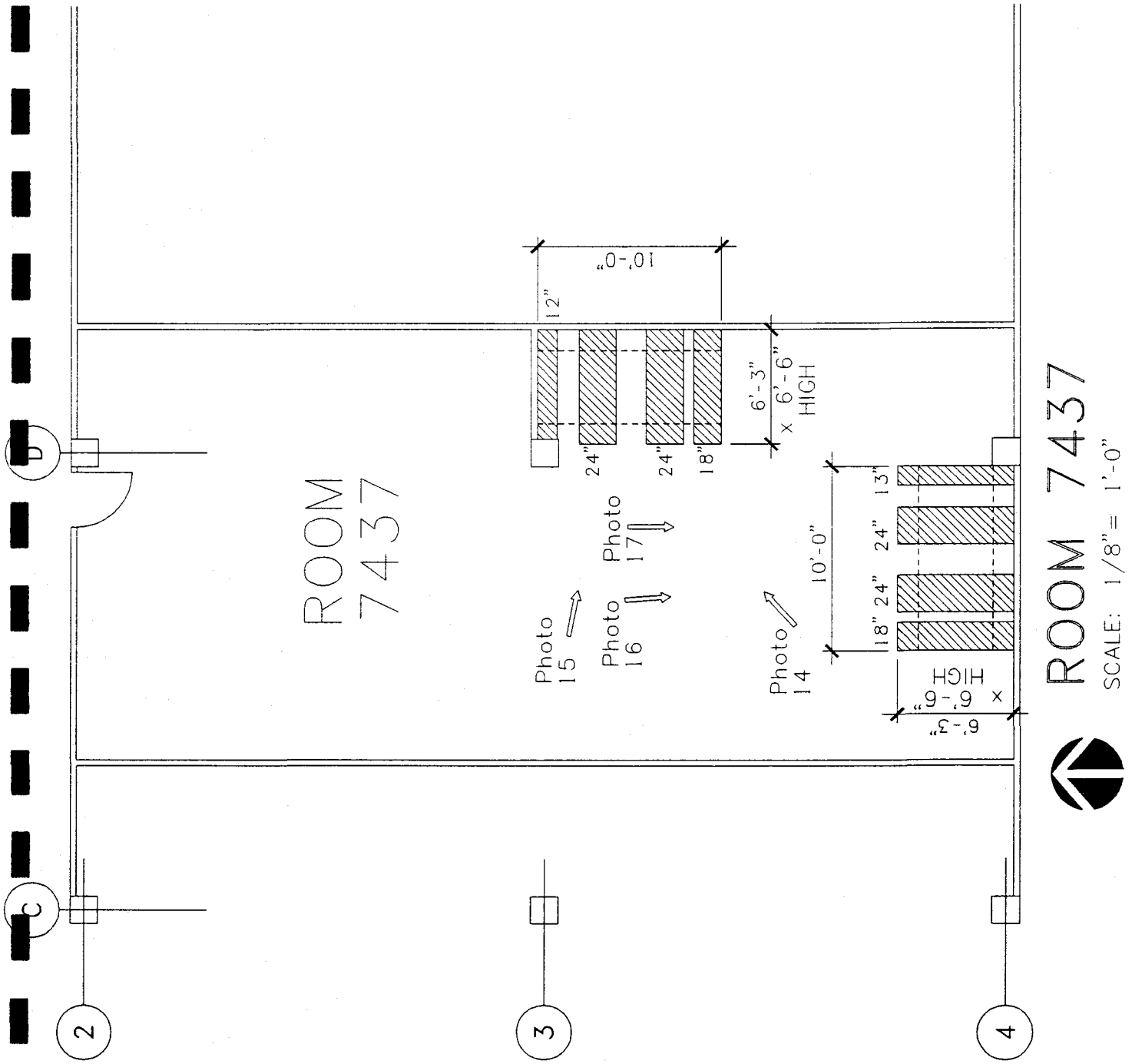

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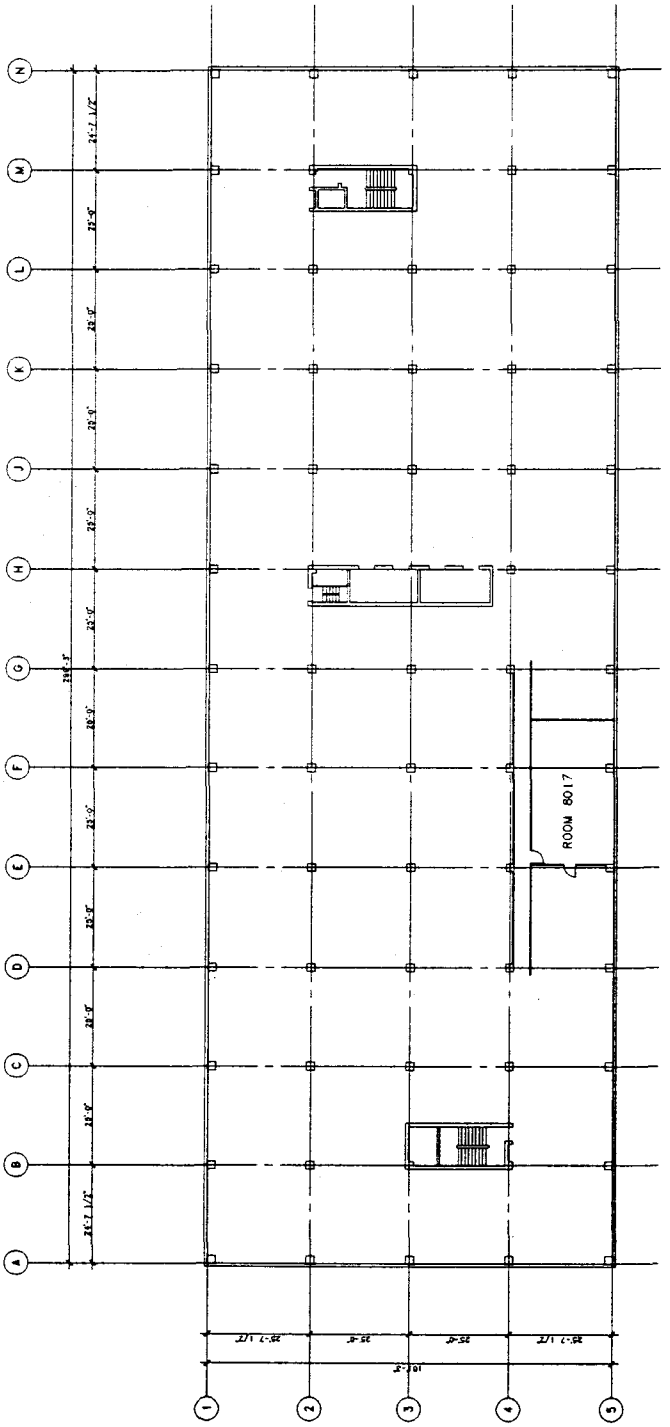

EIGHTH FLOOR PLAN

SCALE: 1/16"= 1'-0"

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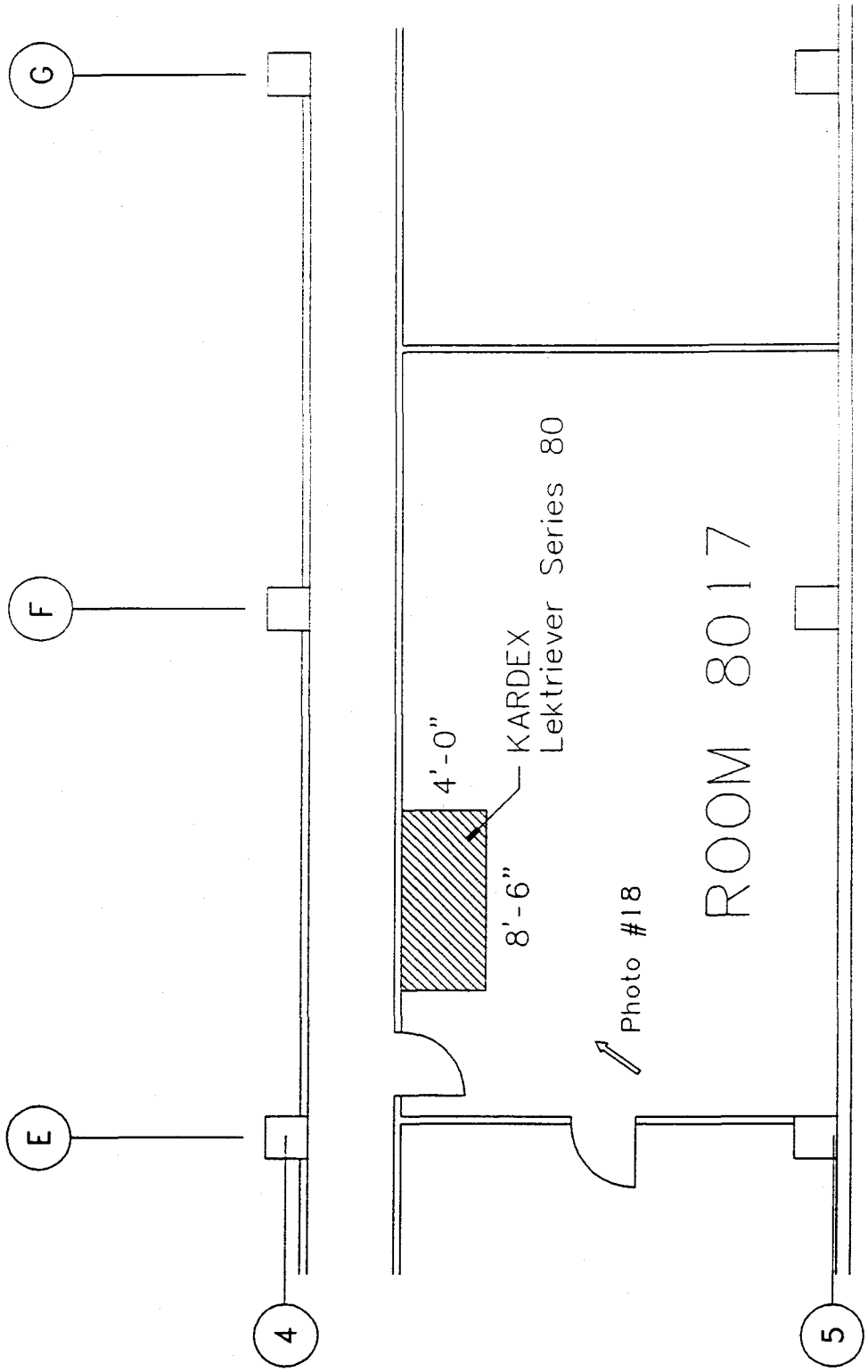

ROOM 8017
SCALE: 1/8" = 1'-0"

LOCATION	MAX. NEG FACTORED MOMENT @ DROPPED PANEL			MAX. NEG. FACTORED MOMENT @ 8" SLAB			MAX. POS. FACTORED MOMENT		
	EXISTING[1]	REQUIRED[2]	CAPACITY[3]	EXISTING[1]	REQUIRED[2]	CAPACITY[3]	EXISTING[1]	REQUIRED[2]	CAPACITY[3]
Room 4015 - 50 psf Service LL	510 1-k	388 1-K	469 1-k	155 1-k	127 1-K	317 1-k	224 1-k	162 1-K	357 1-k
Room 7437 - 80 psf Service LL	488 1-k	-	487 1-k	177 1-k	-	331 1-k	225 1-k	-	316 1-k
Room 7437 - 50 psf Service LL	418 1-k	398 1-K	487 1-k	146 1-k	130 1-K	331 1-k	188 1-k	177 1-K	316 1-k
Room 8017 - 80 psf Service LL	502 1-k	-	487 1-k	174 1-k	-	331 1-k	249 1-k	-	316 1-k
Room 8017 - 50 psf Service LL	430 1-k	402 1-K	487 1-k	150 1-k	137 1-K	331 1-k	210 1-k	197 1-K	316 1-k

1) CALCULATED FACTORED MOMENT INDUCED INTO SLAB BY LOADS GIVEN (INCLUDES WEIGHTS OF EQUIMENT).

2) FACTORED MOMENT CAPACITY REQUIRED TO RESIST CODE-PRESCRIBED LIVE LOADS PLUS DEAD LOADS.

3) CALCULATED ULTIMATE CAPACITY OF SLAB BASED ON EXISTING REINFORCING AND CONCRETE STRENGTH.

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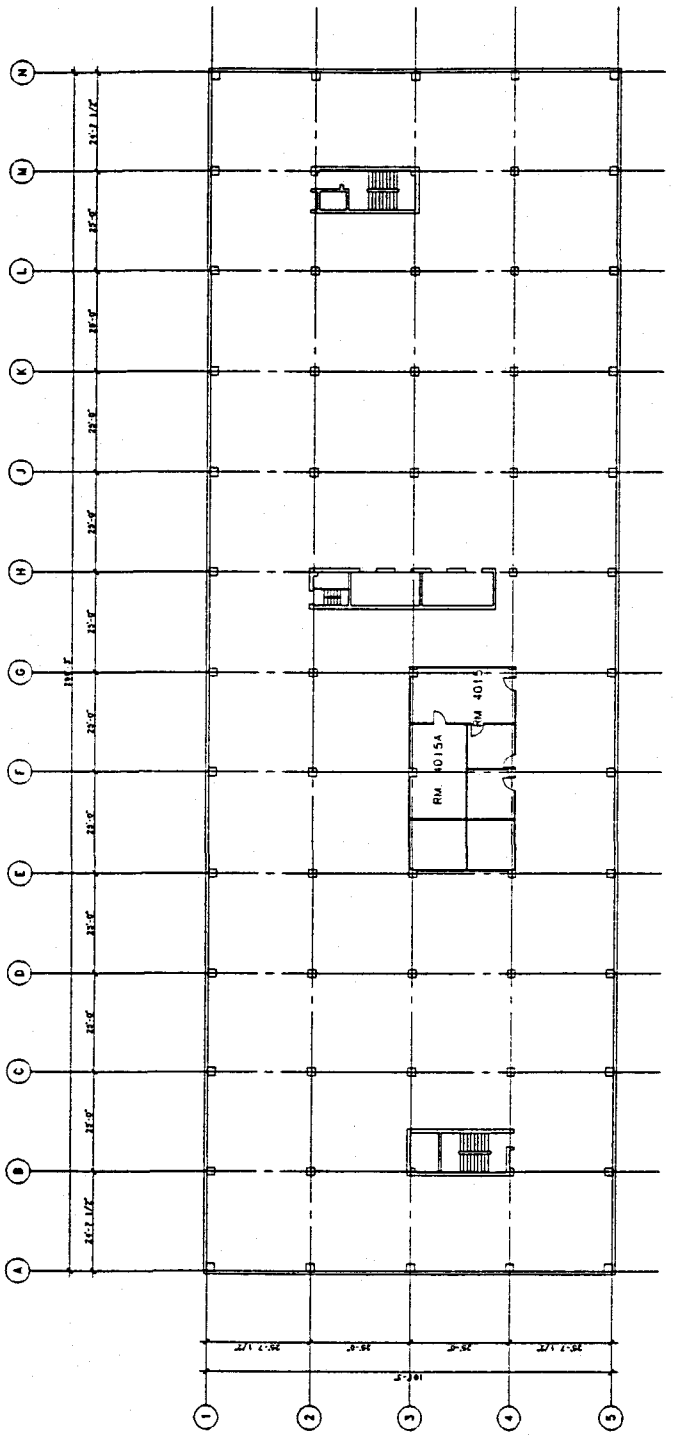

FOURTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

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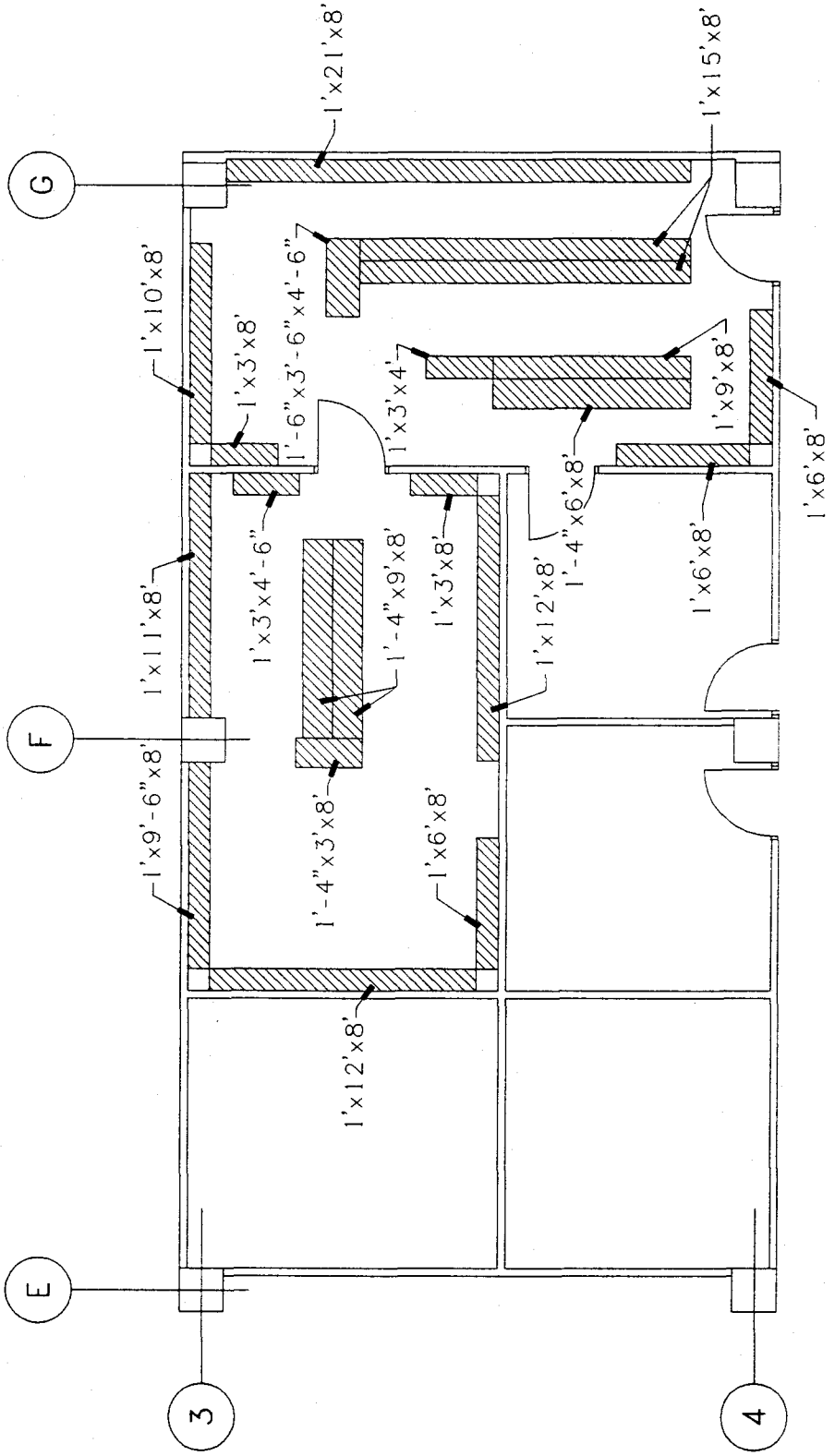

BOOKSHELF LAYOUT
ROOMS 4015 & 4015A

SCALE: 1/8" = 1'-0"

Table 2
Minimum Uniformly Distributed Live Loads, L_o

Occupancy or use	Live load (lb/ft^2)
Apartments (see residential)	
Armories and drill rooms	150
Assembly areas and theaters	
Fixed seats (fastened to floor)	60
Lobbies	100
Movable seats	100
Platforms (assembly)	100
Stage floors	150
Balconies (exterior)	100
On one- and two-family residences only, and not exceeding 100 ft^2	60
Bowling alleys, poolrooms, and similar recreational areas	75
Corridors	
First floor	100
Other floors, same as occupancy served except as indicated	
Dance halls and ballrooms	100
Decks (patio and roof)	
Same as area served, or for the type of occupancy accommodated	
Dining rooms and restaurants	100
Dwellings (see residential)	
Fire escapes	100
On single-family dwellings only	40
Garages (passenger cars only)	50
For trucks and buses use AASHTO* lane loads (see Table 3 for concentrated load requirements)	
Grandstands (see stadium and arena bleachers)	
Gymnasiums, main floors and balconies	100
Hospitals	
Operating rooms, laboratories	60
Private rooms	40
Wards	40
Corridors above first floor	80
Hotels (see residential)	
Libraries	
Reading rooms	60
Stack rooms – not less than §	150
Corridors above first floor	80
Manufacturing	
Light	125
Heavy	250
Marquees and canopies	75
Office buildings	
File and computer rooms shall be designed for heavier loads based on anticipated occupancy	
Lobbies	100
Offices	50
Penal institutions	
Cell blocks	40
Corridors	100
Residential	
Dwellings (one- and two-family)	
Uninhabitable attics without storage	10
Uninhabitable attics with storage	20
Habitable attics and sleeping areas	30
All other areas	40
Hotels and multifamily houses	
Private rooms and corridors serving them	40
Public rooms and corridors serving them	100
Schools	
Classrooms	40
Corridors above first floor	80
Sidewalks, vehicular driveways, and yards, subject to trucking†	250
Stadium and arena bleachers‡	100
Stairs and exitways	100
Storage warehouses	
Light	125
Heavy	250
Stores	
Retail	
First floor	100
Upper floors	75
Wholesale, all floors	125
Walkways and elevated platforms (other than exitways)	60
Yards and terraces (pedestrians)	100

*American Association of State Highway and Transportation Officials.

†AASHTO lane loads shall also be considered where appropriate.

‡For detailed recommendations, see American National Standard for Assembly Seating, Tents, and Air-Supported Structures, ANSI/NFPA 102.

§The weight of books and shelving shall be computed using an assumed density of 65 lb/ft^3 (pounds per cubic foot, sometimes abbreviated pcf) and converted to a uniformly distributed load; this load shall be used if it exceeds 150 lb/ft^2.

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Project GSA FLR. ANAL.
Subject Rooms 4015 & 4015A
Project No. 91062.009 Date 10/16/92 By JMN

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

CHECK SLAB BEAM "G" - TRIB. AREA INCLUDES ROOM 4015 ONLY

BOOKSHELVES:

(2)	12" x 6' x 8'	=	96 FT³
(1)	16" x 9' x 8'	=	96
(1)	12" x 9' x 8'	=	72
(2)	12" x 15' x 8'	=	240
(1)	12" x 21' x 8'	=	168
(1)	12" x 10' x 8'	=	80
(1)	12" x 3' x 8'	=	24
(1)	12" x 3' x 4'	=	12
(1)	18" x 3'-6" x 4'-6"	=	24
			812 FT³

TOTAL WEIGHT = 65(812) = 52,780#

UNIFORM LOAD ON ELEMENTS 17-21

$$w_{EQUIP} = \frac{52.78}{25} = 2.111 \text{ klf}$$

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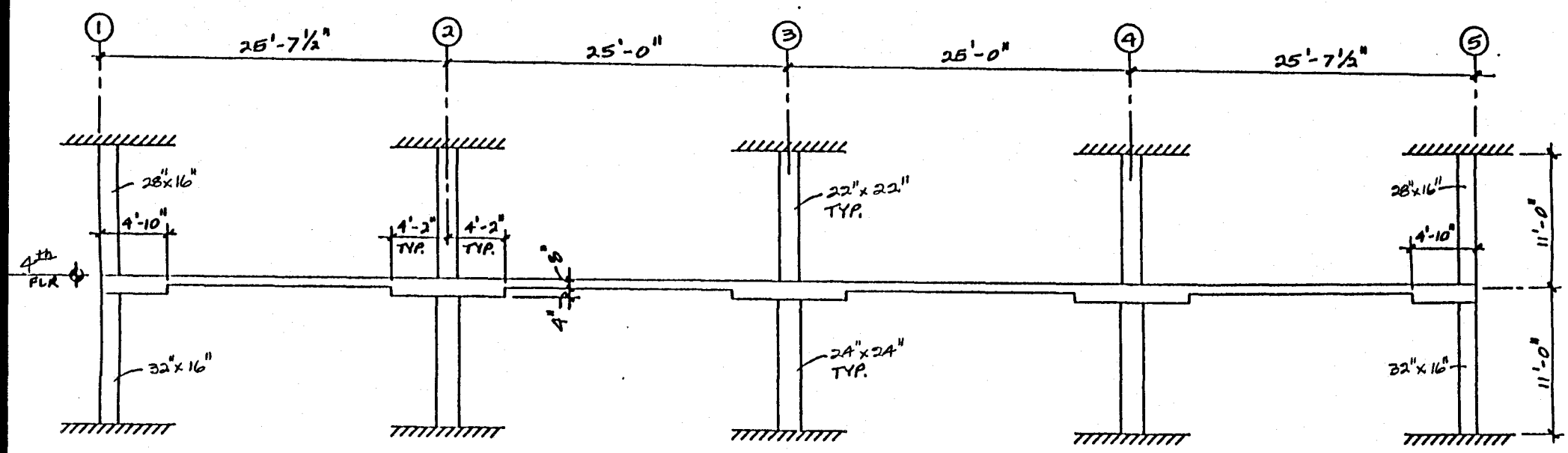

TYPICAL SLAB-BEAM CONFIGURATION

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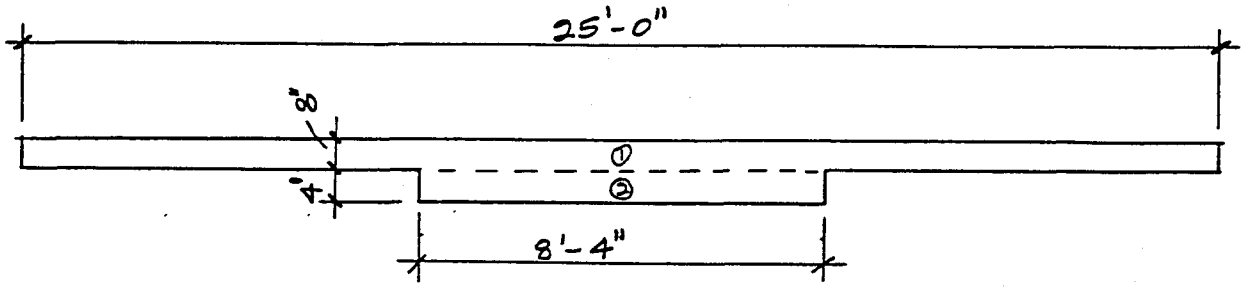

SECTION	AREA	y	Ay
1	2400	8	19,200
2	400	2	800
	2800		20,000

$\bar{y} = 7.14"$

$I_1 = 12,800 \qquad A_1 = 2400 \qquad d_1 = .86"$

$I_2 = 533 \qquad A_2 = 400 \qquad d_2 = 5.14"$

$$I_g = 12800 + 2400(.86)^2 + 533 + 400(5.14)^2$$
$$= 25,676$$

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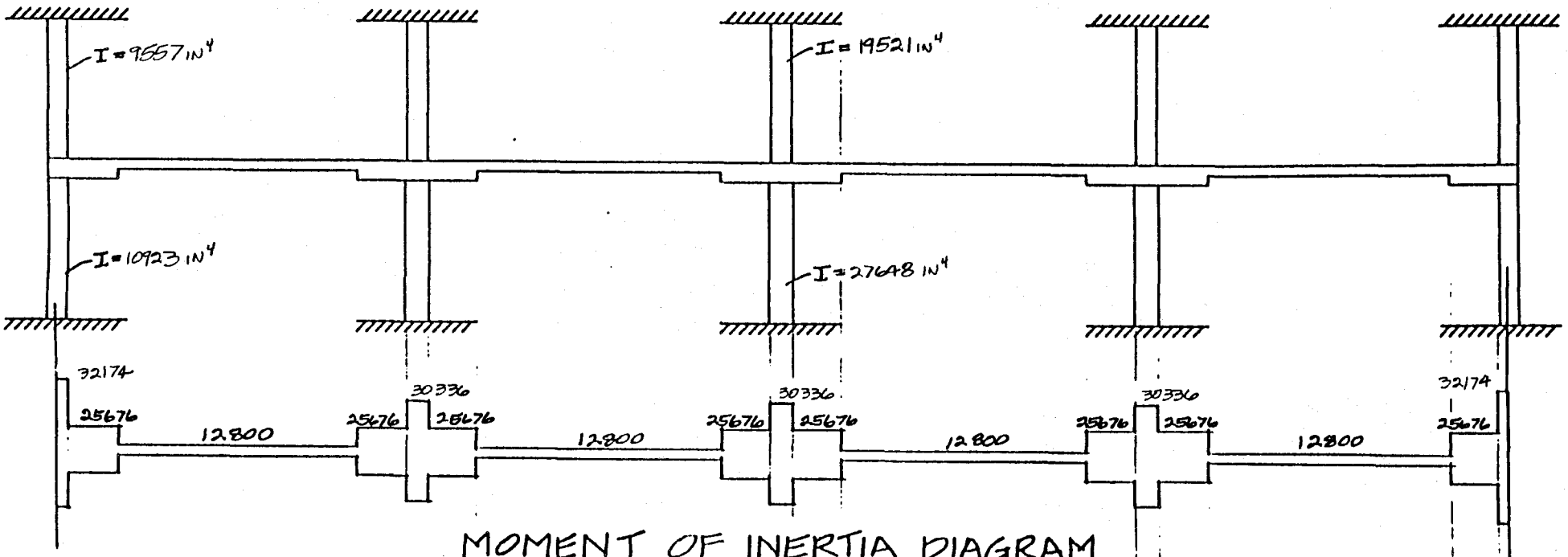
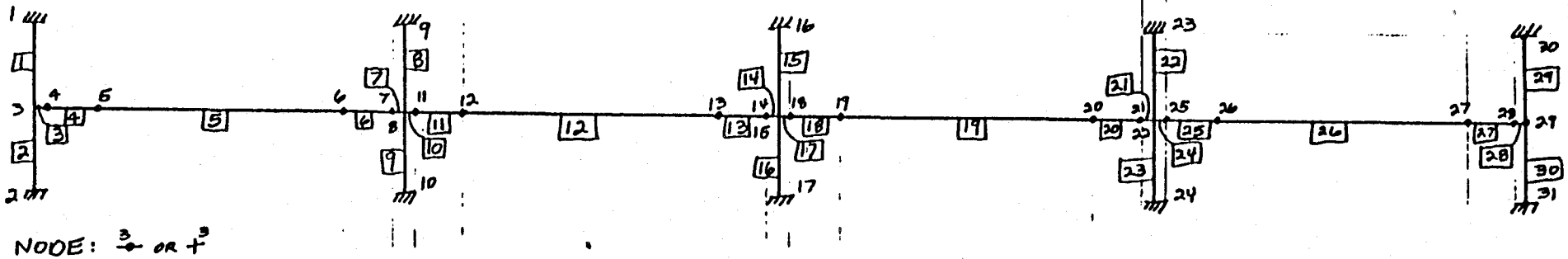
$l_2 = 25'$

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

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



MOMENT OF INERTIA DIAGRAM

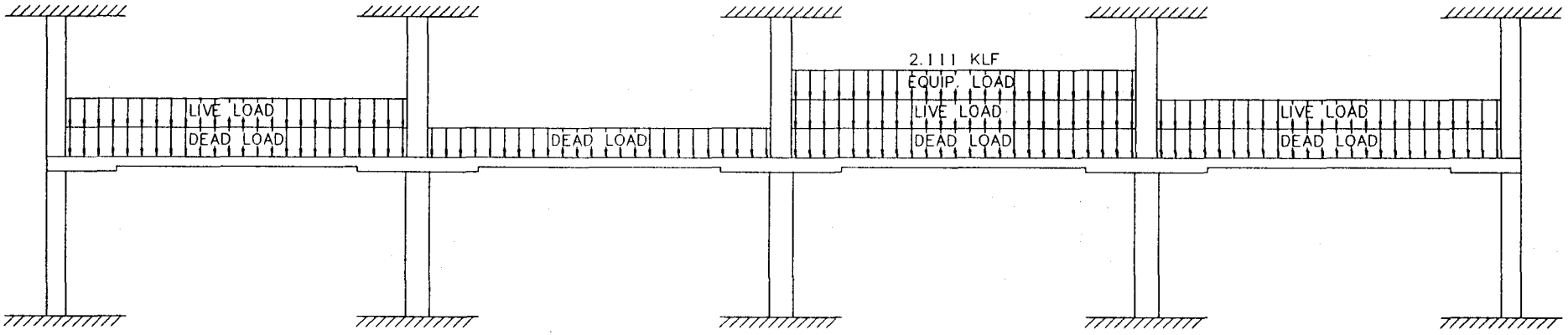


NODE: ⊕ OR +

ELEMENT: □

FIXED SUPPORT

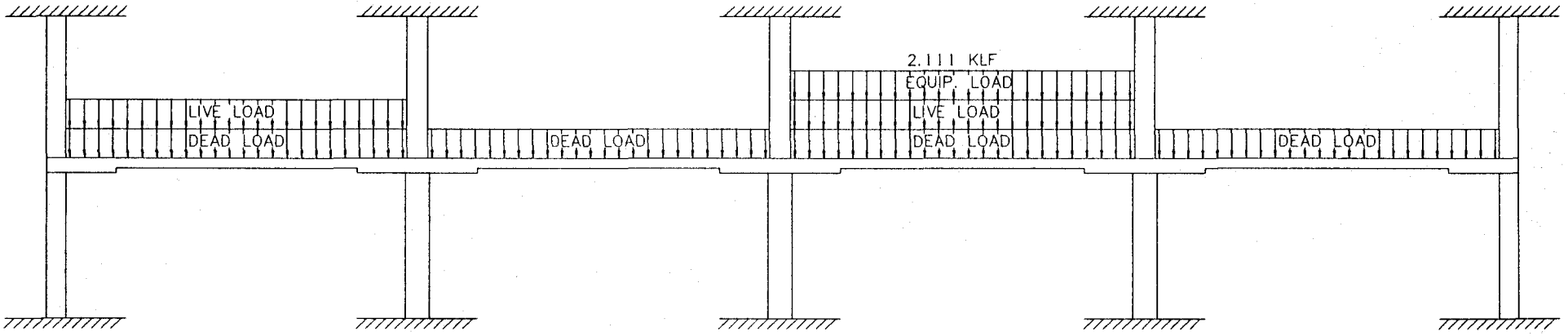
COMPUTER MODEL



ROOM 4015
SLAB-BEAM "G"
LOAD COMBINATION #1

SCALE: 3/32"= 1'-0"

02-20-92



ROOM 4015
SLAB-BEAM "G"
LOAD COMBINATION #2

SCALE: 3/32"= 1'-0"

NODAL INFORMATION

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			
25	75.830	11.000				
26	79.170	11.000				
27	95.170	11.000				
28	99.170	11.000				
29	100.000	11.000				
30	100.000	22.000	F			
31	100.000	0.000	F			

ELEMENT INFORMATION

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
		Units :	Ft	Deg				
1	3	1	11.000	90.00	6	BEAM		
2	2	3	11.000	90.00	8	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		

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
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		
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		
24	22	25	0.830	0.00	3	BEAM		
25	25	26	3.340	0.00	2	BEAM		
26	26	27	16.000	0.00	1	BEAM		
27	27	28	4.000	0.00	2	BEAM		
28	28	29	0.830	0.00	4	BEAM		
29	29	30	11.000	90.00	6	BEAM		
30	31	29	11.000	90.00	8	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	3.03e+004	
4	S.B. @ EXT. COLUMNS	2.7e+003	2.8e+003	3.22e+004	
5	4TH FLOOR INT. COLUM	3.5e+003	484	1.95e+004	
6	4TH FLOOR EXT. COLUM	3.5e+003	448	9.56e+003	
7	3RD FLOOR INT. COLUM	3.5e+003	576	2.76e+004	
8	3RD FLOOR INT. COLUM	3.5e+003	512	1.09e+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

ELEMENT LOAD INFORMATION

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
Description : DL									
Element List : 3-7,10-14,17-21,24-28									
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 : 3-5,7,17-21,24,26-28									
2	2	UNIF	GLO	FRAC	B	0.00	0.00	-1.25	0.00
					E	1.00	0.00	-1.25	0.00
Description : LL POS									
Element List : 3-5,7,17-21									
3	3	UNIF	GLO	FRAC	B	0.00	0.00	-1.25	0.00
					E	1.00	0.00	-1.25	0.00
Description : EQUIP LOAD									
Element List : 17-21									
4	4	UNIF	GLO	FRAC	B	0.00	0.00	-2.11	0.00
					E	1.00	0.00	-2.11	0.00
Description : LL CORRIDR									
Element List : 6,25									
8	2	UNIF	GLO	FRAC	B	0.00	0.00	-2.50	0.00
					E	1.00	0.00	-2.50	0.00
Description : LL CORRIDR									
Element List : 6									
9	3	UNIF	GLO	FRAC	B	0.00	0.00	-2.50	0.00
					E	1.00	0.00	-2.50	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

OA COMBINATIONS:

OMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2
+ 1.70 X CASE 4

OMB 2 : 1.40 X CASE 1
+ 1.70 X CASE 3
+ 1.70 X CASE 4

OMB 3 : 1.00 X CASE 1
+ 1.00 X CASE 2
+ 1.00 X CASE 4

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

OMB 5 : 1.40 X CASE 1

OMB 6 : 1.70 X CASE 2

OMB 7 : 1.70 X CASE 3

OMB 8 : 1.70 X CASE 4

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
	8	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
	8	0.0000	0.0000	0.0000
3	1	0.0001	-0.0032	-0.1014

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	-0.0004	-0.0032	-0.1014
	3	0.0001	-0.0022	-0.0682
	4	-0.0002	-0.0022	-0.0682
	5	0.0001	-0.0022	-0.0683
	6	-0.0000	-0.0010	-0.0329
	7	-0.0006	-0.0010	-0.0329
	8	0.0000	-0.0000	-0.0002
4	1	0.0001	-0.0229	-0.1237
	2	-0.0004	-0.0229	-0.1237
	3	0.0001	-0.0154	-0.0832
	4	-0.0002	-0.0154	-0.0832
	5	0.0001	-0.0154	-0.0832
	6	-0.0000	-0.0074	-0.0402
	7	-0.0006	-0.0074	-0.0402
	8	0.0000	-0.0000	-0.0003
5	1	0.0001	-0.1583	-0.1801
	2	-0.0004	-0.1583	-0.1802
	3	0.0001	-0.1065	-0.1211
	4	-0.0002	-0.1065	-0.1212
	5	0.0001	-0.1063	-0.1204
	6	-0.0000	-0.0516	-0.0593
	7	-0.0006	-0.0517	-0.0593
	8	0.0000	-0.0004	-0.0005
6	1	-0.0000	-0.0916	0.1505
	2	-0.0005	-0.0917	0.1506
	3	0.0000	-0.0607	0.1006
	4	-0.0003	-0.0608	0.1006
	5	0.0001	-0.0545	0.0955
	6	-0.0001	-0.0361	0.0541
	7	-0.0006	-0.0362	0.0541
	8	0.0000	-0.0010	0.0009
7	1	-0.0000	-0.0128	0.0578
	2	-0.0005	-0.0128	0.0579
	3	-0.0000	-0.0084	0.0376
	4	-0.0003	-0.0085	0.0376
	5	0.0001	-0.0073	0.0281
	6	-0.0001	-0.0053	0.0284
	7	-0.0006	-0.0053	0.0285
	8	0.0000	-0.0002	0.0014
8	1	-0.0000	-0.0056	0.0238

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

NODE N	LOAD COMB	DX	DY	ROTATION
	2	-0.0006	-0.0056	0.0239
	3	-0.0000	-0.0039	0.0145
	4	-0.0003	-0.0039	0.0146
	5	0.0000	-0.0044	0.0042
	6	-0.0001	-0.0012	0.0180
	7	-0.0006	-0.0012	0.0181
	8	0.0000	0.0001	0.0015
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
	5	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000
	7	0.0000	0.0000	0.0000
	8	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
	8	0.0000	0.0000	0.0000
11	1	-0.0000	-0.0034	0.0026
	2	-0.0005	-0.0034	0.0027
	3	-0.0000	-0.0027	-0.0006
	4	-0.0003	-0.0027	-0.0006
	5	0.0000	-0.0056	-0.0171
	6	-0.0001	0.0018	0.0172
	7	-0.0006	0.0018	0.0174
	8	0.0000	0.0004	0.0025
12	1	-0.0000	-0.0258	-0.0563
	2	-0.0005	-0.0256	-0.0560
	3	-0.0000	-0.0204	-0.0427
	4	-0.0003	-0.0203	-0.0426
	5	0.0000	-0.0419	-0.0761
	6	-0.0001	0.0126	0.0137
	7	-0.0006	0.0128	0.0140
	8	0.0000	0.0035	0.0060
13	1	0.0000	-0.0180	0.0504

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	-0.0005	-0.0173	0.0498
	3	0.0000	-0.0161	0.0394
	4	-0.0003	-0.0157	0.0391
	5	0.0000	-0.0440	0.0775
	6	-0.0000	0.0108	-0.0123
	7	-0.0005	0.0115	-0.0130
	8	0.0000	0.0153	-0.0148
14	1	0.0000	-0.0022	-0.0156
	2	-0.0005	-0.0020	-0.0165
	3	0.0000	-0.0020	-0.0065
	4	-0.0003	-0.0020	-0.0071
	5	0.0000	-0.0061	0.0208
	6	0.0000	0.0016	-0.0140
	7	-0.0005	0.0017	-0.0150
	8	0.0000	0.0024	-0.0224
15	1	0.0000	-0.0068	-0.0386
	2	-0.0005	-0.0068	-0.0396
	3	0.0000	-0.0045	-0.0227
	4	-0.0003	-0.0046	-0.0233
	5	-0.0000	-0.0043	-0.0000
	6	0.0000	-0.0009	-0.0144
	7	-0.0005	-0.0009	-0.0154
	8	0.0000	-0.0017	-0.0243
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
	8	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
	8	0.0000	0.0000	0.0000
18	1	0.0000	-0.0175	-0.0824

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

NODE N	LOAD COMB	DX	DY	ROTATION
	2	-0.0005	-0.0177	-0.0842
	3	0.0000	-0.0110	-0.0511
	4	-0.0003	-0.0112	-0.0521
	5	-0.0000	-0.0061	-0.0208
	6	0.0000	-0.0041	-0.0224
	7	-0.0005	-0.0044	-0.0242
	8	0.0000	-0.0072	-0.0392
19	1	-0.0000	-0.1233	-0.1986
	2	-0.0006	-0.1257	-0.2028
	3	-0.0000	-0.0781	-0.1266
	4	-0.0003	-0.0795	-0.1291
	5	-0.0000	-0.0440	-0.0775
	6	0.0000	-0.0284	-0.0428
	7	-0.0006	-0.0308	-0.0470
	8	-0.0000	-0.0509	-0.0783
20	1	-0.0002	-0.1127	0.1907
	2	-0.0008	-0.1235	0.2012
	3	-0.0001	-0.0716	0.1218
	4	-0.0005	-0.0779	0.1279
	5	-0.0000	-0.0419	0.0761
	6	-0.0000	-0.0197	0.0363
	7	-0.0006	-0.0305	0.0467
	8	-0.0001	-0.0511	0.0784
21	1	-0.0002	-0.0155	0.0640
	2	-0.0008	-0.0171	0.0798
	3	-0.0001	-0.0098	0.0398
	4	-0.0005	-0.0108	0.0491
	5	-0.0000	-0.0056	0.0171
	6	-0.0000	-0.0027	0.0075
	7	-0.0006	-0.0043	0.0234
	8	-0.0002	-0.0072	0.0393
22	1	-0.0002	-0.0083	0.0175
	2	-0.0008	-0.0071	0.0347
	3	-0.0001	-0.0055	0.0097
	4	-0.0005	-0.0047	0.0199
	5	-0.0000	-0.0044	-0.0042
	6	-0.0000	-0.0022	-0.0027
	7	-0.0006	-0.0010	0.0145
	8	-0.0002	-0.0016	0.0244
23	1	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
	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
	8	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
	8	0.0000	0.0000	0.0000
25	1	-0.0002	-0.0086	-0.0196
	2	-0.0008	-0.0034	0.0080
	3	-0.0001	-0.0060	-0.0151
	4	-0.0005	-0.0029	0.0012
	5	-0.0001	-0.0073	-0.0281
	6	-0.0000	-0.0037	-0.0142
	7	-0.0006	0.0015	0.0135
	8	-0.0002	0.0024	0.0226
26	1	-0.0002	-0.0652	-0.1248
	2	-0.0008	-0.0296	-0.0712
	3	-0.0001	-0.0452	-0.0855
	4	-0.0005	-0.0243	-0.0539
	5	-0.0001	-0.0545	-0.0955
	6	-0.0000	-0.0263	-0.0445
	7	-0.0006	0.0093	0.0091
	8	-0.0002	0.0155	0.0152
27	1	-0.0003	-0.1483	0.1672
	2	-0.0009	-0.0969	0.1082
	3	-0.0002	-0.1007	0.1135
	4	-0.0005	-0.0704	0.0788
	5	-0.0001	-0.1063	0.1204
	6	-0.0000	-0.0479	0.0544
	7	-0.0006	0.0035	-0.0046
	8	-0.0001	0.0059	-0.0076
28	1	-0.0003	-0.0216	0.1165

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	-0.0009	-0.0143	0.0764
	3	-0.0002	-0.0147	0.0790
	4	-0.0005	-0.0103	0.0554
	5	-0.0001	-0.0154	0.0832
	6	-0.0000	-0.0069	0.0375
	7	-0.0006	0.0004	-0.0025
	8	-0.0001	0.0007	-0.0043
29	1	-0.0003	-0.0031	0.0955
	2	-0.0009	-0.0021	0.0627
	3	-0.0002	-0.0021	0.0648
	4	-0.0005	-0.0015	0.0455
	5	-0.0001	-0.0022	0.0683
	6	-0.0000	-0.0010	0.0307
	7	-0.0006	0.0000	-0.0020
	8	-0.0001	0.0001	-0.0035
30	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
	8	0.0000	0.0000	0.0000
31	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
	8	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

LOAD COMBINATIONS:

COMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2
+ 1.70 X CASE 4

E L E M E N T R E P O R T S
SIGN CONVENTION : BEAM DESIGNERS

COMB 2 : 1.40 X CASE 1
+ 1.70 X CASE 3
+ 1.70 X CASE 4

COMB 3 : 1.00 X CASE 1
+ 1.00 X CASE 2
+ 1.00 X CASE 4

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

COMB 5 : 1.40 X CASE 1

COMB 6 : 1.70 X CASE 2

COMB 7 : 1.70 X CASE 3

COMB 8 : 1.70 X CASE 4

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
1	1	3	38.2096	-20.3474	149.1835		
		1	38.2096	-20.3474	-74.6374	-0.0346	3.[redacted]7
	2	3	38.2130	-20.2580	148.6916		
		1	38.2130	-20.2580	-74.1458	-0.0346	3.[redacted]7
	3	3	25.7685	-13.6970	100.4215		
		1	25.7685	-13.6970	-50.2455	-0.0233	3.[redacted]7
	4	3	25.7705	-13.6444	100.1321		
		1	25.7705	-13.6444	-49.9564	-0.0233	3.67
	5	3	26.1184	-13.7086	100.4872		
		1	26.1184	-13.7086	-50.3069	-0.0233	3.67
	6	3	12.0522	-6.5942	48.3697		
		1	12.0522	-6.5942	-24.1660	-0.0112	3.67
	7	3	12.0555	-6.5048	47.8778		
		1	12.0555	-6.5048	-23.6745	-0.0112	3.68
	8	3	0.0391	-0.0446	0.3266		
		1	0.0391	-0.0446	-0.1644		
2	1	2	-43.6681	-23.2177	85.0970		
		3	-43.6681	-23.2177	-170.2982	0.0346	7.33

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	2	-43.6720	-23.3197	85.6578		
		3	-43.6720	-23.3197	-170.8586	0.0346	7.34
	3	2	-29.4497	-15.6258	57.2681		
		3	-29.4497	-15.6258	-114.6158	0.0233	7.33
	4	2	-29.4520	-15.6858	57.5980		
		3	-29.4520	-15.6858	-114.9454	0.0233	7.34
	5	2	-29.8496	-15.6153	57.2078		
		3	-29.8496	-15.6153	-114.5604	0.0233	7.33
	6	2	-13.7739	-7.5523	27.7063		
		3	-13.7739	-7.5523	-55.3695	0.0112	7.33
	7	2	-13.7778	-7.6543	28.2672		
		3	-13.7778	-7.6543	-55.9299	0.0113	7.35
	8	2	-0.0447	-0.0501	0.1829		
		3	-0.0447	-0.0501	-0.3683		
3	1	3	-2.8704	81.8778	-319.4817		
		4	-2.8704	76.1342	-253.9068	0.0005	0.41
	2	3	-3.0617	81.8850	-319.5502		
		4	-3.0617	76.1414	-253.9693	0.0005	0.41
	3	3	-1.9288	55.2182	-215.0373		
		4	-1.9288	51.3379	-170.8165	0.0003	0.41
	4	3	-2.0414	55.2224	-215.0775		
		4	-2.0414	51.3422	-170.8532	0.0003	0.41
	5	3	-1.9067	55.9679	-215.0475		
		4	-1.9067	51.9881	-170.2458	0.0003	0.41
	6	3	-0.9582	25.8261	-103.7393		
		4	-0.9582	24.0623	-83.0356	0.0002	0.41
	7	3	-1.1495	25.8333	-103.8077		
		4	-1.1495	24.0696	-83.0980	0.0002	0.41
	8	3	-0.0055	0.0838	-0.6949		
		4	-0.0055	0.0838	-0.6254		
4	1	4	-2.8704	76.1342	-253.9068		
		5	-2.8704	48.4542	-4.7302	0.0060	1.67

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
	2	4	-3.0617	76.1414	-253.9693		
		5	-3.0617	48.4614	-4.7637	0.0060	1.67
	3	4	-1.9288	51.3379	-170.8165		
		5	-1.9288	32.6379	-2.8648	0.0040	1.67
	4	4	-2.0414	51.3422	-170.8532		
		5	-2.0414	32.6422	-2.8846	0.0040	1.67
	5	4	-1.9067	51.9881	-170.2458		
		5	-1.9067	32.8081	-0.6535	0.0039	1.66
	6	4	-0.9582	24.0623	-83.0356		
		5	-0.9582	15.5623	-3.7863	0.0020	1.69
	7	4	-1.1495	24.0696	-83.0980		
		5	-1.1495	15.5696	-3.8198	0.0020	1.69
	8	4	-0.0055	0.0838	-0.6254		
		5	-0.0055	0.0838	-0.2904		
5	1	5	-2.8704	48.4542	-4.7302	164.9089	7.[illegible]0
		6	-2.8704	-62.2658	-115.2237	-0.1976	7.55
	2	5	-3.0617	48.4614	-4.7637	164.9260	7.[illegible]0
		6	-3.0617	-62.2586	-115.1415	-0.1977	7.55
	3	5	-1.9288	32.6379	-2.8648	111.0639	6.[illegible]8
		6	-1.9288	-42.1621	-79.0582	-0.1328	7.[illegible]4
	4	5	-2.0414	32.6422	-2.8846	111.0739	6.[illegible]8
		6	-2.0414	-42.1578	-79.0099	-0.1329	7.[illegible]4
	5	5	-1.9067	32.8081	-0.6535	111.5852	6.84
		6	-1.9067	-43.9119	-89.4845	-0.1316	7.[illegible]6
	6	5	-0.9582	15.5623	-3.7863	53.1986	7.32
		6	-0.9582	-18.4377	-26.7892	-0.0655	7.[illegible]1
	7	5	-1.1495	15.5696	-3.8198	53.2181	7.33
		6	-1.1495	-18.4304	-26.7070	-0.0655	7.71
	8	5	-0.0055	0.0838	-0.2904		
		6	-0.0055	0.0838	1.0499	-0.0006	9.94
6	1	6	-2.8704	-62.2658	-115.2237		
		7	-2.8704	-92.4761	-373.6429	0.0081	1.[illegible]2

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	6	-3.0617	-62.2586	-115.1415		
		7	-3.0617	-92.4689	-373.5365	0.0081	1.82
	3	6	-1.9288	-42.1621	-79.0582		
		7	-1.9288	-61.9516	-252.9280	0.0055	1.82
	4	6	-2.0414	-42.1578	-79.0099		
		7	-2.0414	-61.9473	-252.8655	0.0055	1.82
	5	6	-1.9067	-43.9119	-89.4845		
		7	-1.9067	-59.9272	-262.8959	0.0059	1.81
	6	6	-0.9582	-18.4377	-26.7892		
		7	-0.9582	-32.6327	-112.0767	0.0022	1.85
	7	6	-1.1495	-18.4304	-26.7070		
		7	-1.1495	-32.6254	-111.9703	0.0022	1.85
	8	6	-0.0055	0.0838	1.0499		
		7	-0.0055	0.0838	1.3297		
7	1	7	-2.8704	-92.4761	-373.6429		
		8	-2.8704	-98.2197	-452.7817	0.0007	0.42
	2	7	-3.0617	-92.4689	-373.5365		
		8	-3.0617	-98.2125	-452.6693	0.0007	0.42
	3	7	-1.9288	-61.9516	-252.9280		
		8	-1.9288	-65.8318	-305.9582	0.0005	0.42
	4	7	-2.0414	-61.9473	-252.8655		
		8	-2.0414	-65.8276	-305.8921	0.0005	0.42
	5	7	-1.9067	-59.9272	-262.8959		
		8	-1.9067	-63.9071	-314.2871	0.0005	0.42
	6	7	-0.9582	-32.6327	-112.0767		
		8	-0.9582	-34.3964	-139.8937	0.0002	0.42
	7	7	-1.1495	-32.6254	-111.9703		
		8	-1.1495	-34.3892	-139.7814	0.0002	0.42
	8	7	-0.0055	0.0838	1.3297		
		8	-0.0055	0.0838	1.3992		
8	1	8	71.7943	9.7403	-71.4101		
		9	71.7943	9.7403	35.7336	0.0081	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
	2	8	71.7645	9.9710	-72.7621		
		9	71.7645	9.9710	36.9193	0.0082	3.[illegible]5
	3	8	49.3755	5.9467	-43.6019		
		9	49.3755	5.9467	21.8117	0.0050	3.[illegible]7
	4	8	49.3580	6.0824	-44.3972		
		9	49.3580	6.0824	22.5091	0.0050	3.65
	5	8	56.6724	1.7222	-12.6617		
		9	56.6724	1.7222	6.2823	0.0014	3.68
	6	8	15.8084	7.3943	-54.1721		
		9	15.8084	7.3943	27.1652	0.0061	3.66
	7	8	15.7786	7.6250	-55.5241		
		9	15.7786	7.6250	28.3509	0.0062	3.64
	8	8	-0.6866	0.6239	-4.5763		
		9	-0.6866	0.6239	2.2861	0.0005	3.[illegible]7
9	1	10	-85.4411	13.7660	-50.4483		
		8	-85.4411	13.7660	100.9775	-0.0081	7.33
	2	10	-85.4057	13.5677	-49.2401		
		8	-85.4057	13.5677	100.0049	-0.0081	7.31
	3	10	-58.7609	8.4114	-30.8317		
		8	-58.7609	8.4114	61.6937	-0.0050	7.[illegible]3
	4	10	-58.7401	8.2948	-30.1210		
		8	-58.7401	8.2948	61.1215	-0.0050	7.[illegible]2
	5	10	-67.4449	2.4892	-9.1727		
		8	-67.4449	2.4892	18.2080	-0.0015	7.[illegible]4
	6	10	-18.8133	10.3912	-38.0262		
		8	-18.8133	10.3912	76.2767	-0.0061	7.[illegible]3
	7	10	-18.7779	10.1929	-36.8180		
		8	-18.7779	10.1929	75.3040	-0.0061	7.[illegible]1
	8	10	0.8171	0.8857	-3.2493		
		8	0.8171	0.8857	6.4929	-0.0005	7.33
10	1	8	1.1553	59.0157	-280.3941		
		11	1.1553	55.0358	-233.0627	0.0005	0.[illegible]1

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

SIGN CONVENTION : BEAM DESIGNERS

ELEM N	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	2	8	0.5350	58.9577	-279.9023		
		11	0.5350	54.9778	-232.6191	0.0005	0.41
	3	8	0.5359	42.3046	-200.6626		
		11	0.5359	39.4619	-166.7295	0.0003	0.41
	4	8	0.1710	42.2705	-200.3733		
		11	0.1710	39.4278	-166.4685	0.0003	0.41
	5	8	-1.1398	60.2102	-283.4174		
		11	-1.1398	56.2304	-235.0946	0.0005	0.41
	6	8	2.0387	0.2253	-9.4450		
		11	2.0387	0.2253	-9.2581		
	7	8	1.4184	0.1673	-8.9533		
		11	1.4184	0.1673	-8.8145		
	8	8	0.2563	-1.4199	12.4684		
		11	0.2563	-1.4199	11.2899		
11	1	11	1.1553	55.0358	-233.0627		
		12	1.1553	39.0205	-75.9887	0.0052	1.53
	2	11	0.5350	54.9778	-232.6191		
		12	0.5350	38.9625	-75.7388	0.0051	1.53
	3	11	0.5359	39.4619	-166.7295		
		12	0.5359	28.0224	-54.0308	0.0037	1.52
	4	11	0.1710	39.4278	-166.4685		
		12	0.1710	27.9883	-53.8838	0.0037	1.52
	5	11	-1.1398	56.2304	-235.0946		
		12	-1.1398	40.2151	-74.0306	0.0052	1.52
	6	11	2.0387	0.2253	-9.2581		
		12	2.0387	0.2253	-8.5056	0.0003	1.66
	7	11	1.4184	0.1673	-8.8145		
		12	1.4184	0.1673	-8.2558	0.0003	1.66
	8	11	0.2563	-1.4199	11.2899		
		12	0.2563	-1.4199	6.5476	-0.0003	1.60
12	1	12	1.1553	39.0205	-75.9887	82.7809	8.14
		13	1.1553	-40.9121	-91.7555	-0.0942	8.20

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	12	0.5350	38.9625	-75.7388	82.5591	8.13
		13	0.5350	-40.9701	-92.4724	-0.0939	8.19
	3	12	0.5359	28.0224	-54.0308	60.6047	8.18
		13	0.5359	-29.0724	-62.7827	-0.0699	8.23
	4	12	0.1710	27.9883	-53.8838	60.4727	8.17
		13	0.1710	-29.1065	-63.2044	-0.0697	8.23
	5	12	-1.1398	40.2151	-74.0306	94.6089	8.39
		13	-1.1398	-39.7176	-69.8838	-0.1147	8.37
	6	12	2.0387	0.2253	-8.5056		
		13	2.0387	0.2253	-4.7503	0.0114	7.94
	7	12	1.4184	0.1673	-8.2558		
		13	1.4184	0.1673	-5.4673	0.0118	8.05
	8	12	0.2563	-1.4199	6.5476		
		13	0.2563	-1.4199	-17.1214	0.0101	10.70
13	1	13	1.1553	-40.9121	-91.7555		
		14	1.1553	-56.8795	-254.5785	0.0058	1.80
	2	13	0.5350	-40.9701	-92.4724		
		14	0.5350	-56.9375	-255.4886	0.0058	1.80
	3	13	0.5359	-29.0724	-62.7827		
		14	0.5359	-40.4776	-178.5835	0.0040	1.80
	4	13	0.1710	-29.1065	-63.2044		
		14	0.1710	-40.5117	-179.1188	0.0040	1.80
	5	13	-1.1398	-39.7176	-69.8838		
		14	-1.1398	-55.6849	-228.7289	0.0049	1.82
	6	13	2.0387	0.2253	-4.7503		
		14	2.0387	0.2253	-4.0002	0.0001	1.84
	7	13	1.4184	0.1673	-5.4673		
		14	1.4184	0.1673	-4.9102	0.0002	1.85
	8	13	0.2563	-1.4199	-17.1214		
		14	0.2563	-1.4199	-21.8495	0.0007	1.70
14	1	14	1.1553	-56.8795	-254.5785		
		15	1.1553	-60.8593	-303.4402	0.0005	0.82

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
	2	14	0.5350	-56.9375	-255.4886		
		15	0.5350	-60.9173	-304.3984	0.0005	0.42
	3	14	0.5359	-40.4776	-178.5835		
		15	0.5359	-43.3204	-213.3596	0.0004	0.42
	4	14	0.1710	-40.5117	-179.1188		
		15	0.1710	-43.3545	-213.9233	0.0004	0.42
	5	14	-1.1398	-55.6849	-228.7289		
		15	-1.1398	-59.6648	-276.5990	0.0005	0.42
	6	14	2.0387	0.2253	-4.0002		
		15	2.0387	0.2253	-3.8132		
	7	14	1.4184	0.1673	-4.9102		
		15	1.4184	0.1673	-4.7714		
	8	14	0.2563	-1.4199	-21.8495		
		15	0.2563	-1.4199	-23.0279		
5	1	15	87.1601	-15.8211	116.0080		
		16	87.1601	-15.8211	-58.0246	-0.0132	3.67
	2	15	87.6468	-16.0472	118.0230		
		16	87.6468	-16.0472	-58.4960	-0.0135	3.68
	3	15	58.1387	-9.3066	68.2400		
		16	58.1387	-9.3066	-34.1321	-0.0078	3.67
	4	15	58.4250	-9.4395	69.4253		
		16	58.4250	-9.4395	-34.4094	-0.0079	3.68
	5	15	54.4863	-0.0000	0.0000		
		16	54.4863	-0.0000	-0.0000		
	6	15	11.5404	-5.8841	43.1449		
		16	11.5404	-5.8841	-21.5801	-0.0049	3.67
	7	15	12.0271	-6.1101	45.1599		
		16	12.0271	-6.1101	-22.0515	-0.0052	3.70
	8	15	21.1334	-9.9371	72.8631		
		16	21.1334	-9.9371	-36.4445	-0.0083	3.67
16	1	17	-103.7277	-22.3866	82.0648		
		15	-103.7277	-22.3866	-164.1879	0.0132	7.33

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	17	-104.3070	-23.2590	85.7696		
		15	-104.3070	-23.2590	-170.0790	0.0136	7.[illegible]4
	3	17	-69.1898	-13.1686	48.2734		
		15	-69.1898	-13.1686	-96.5811	0.0078	7.[illegible]3
	4	17	-69.5306	-13.6817	50.4527		
		15	-69.5306	-13.6817	-100.0465	0.0080	7.[illegible]4
	5	17	-64.8432	-0.0000	0.0000		
		15	-64.8432	-0.0000	-0.0000		
	6	17	-13.7340	-8.3259	30.5210		
		15	-13.7340	-8.3259	-61.0636	0.0049	7.33
	7	17	-14.3133	-9.1982	34.2258		
		15	-14.3133	-9.1982	-66.9547	0.0053	7.36
	8	17	-25.1505	-14.0607	51.5438		
		15	-25.1505	-14.0607	-103.1243	0.0083	7.33
17	1	15	-5.4102	130.0285	-583.6361		
		18	-5.4102	121.3062	-479.3322	0.0010	0.41
	2	15	-6.6768	131.0365	-592.5003		
		18	-6.6768	122.3143	-487.3598	0.0010	0.41
	3	15	-3.3261	84.0081	-378.1808		
		18	-3.3261	78.3757	-310.7915	0.0006	0.41
	4	15	-4.0712	84.6011	-383.3950		
		18	-4.0712	78.9687	-315.5136	0.0006	0.41
	5	15	-1.1398	59.6648	-276.5990		
		18	-1.1398	55.6849	-228.7289	0.0005	0.[illegible]1
	6	15	-0.4031	25.4996	-108.0217		
		18	-0.4031	23.7359	-87.5890	0.0002	0.[illegible]1
	7	15	-1.6697	26.5077	-116.8860		
		18	-1.6697	24.7439	-95.6166	0.0002	0.[illegible]1
	8	15	-3.8673	44.8641	-199.0153		
		18	-3.8673	41.8854	-163.0143	0.0003	0.[illegible]1
18	1	18	-5.4102	121.3062	-479.3322		
		19	-5.4102	86.3123	-133.6473	0.0101	1.[illegible]1

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

SIGN CONVENTION : BEAM DESIGNERS

ELEM N	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	2	18	-6.6768	122.3143	-487.3598		
		19	-6.6768	87.3203	-138.3182	0.0104	1.51
	3	18	-3.3261	78.3757	-310.7915		
		19	-3.3261	55.7783	-87.4250	0.0066	1.51
	4	18	-4.0712	78.9687	-315.5136		
		19	-4.0712	56.3713	-90.1726	0.0067	1.51
	5	18	-1.1398	55.6849	-228.7289		
		19	-1.1398	39.7176	-69.8838	0.0049	1.51
	6	18	-0.4031	23.7359	-87.5890		
		19	-0.4031	16.6596	-20.3305	0.0018	1.49
	7	18	-1.6697	24.7439	-95.6166		
		19	-1.6697	17.6677	-25.0014	0.0020	1.50
	8	18	-3.8673	41.8854	-163.0143		
		19	-3.8673	29.9351	-43.4331	0.0034	1.50
19	1	19	-5.4102	86.3123	-133.6473	220.8117	8.21
		20	-5.4102	-88.8678	-154.9473	-0.2743	8.27
	2	19	-6.6768	87.3203	-138.3182	224.4685	8.31
		20	-6.6768	-87.8597	-142.8145	-0.2807	8.32
	3	19	-3.3261	55.7783	-87.4250	141.8134	8.22
		20	-3.3261	-57.3443	-100.4771	-0.1758	8.27
	4	19	-4.0712	56.3713	-90.1726	143.9656	8.31
		20	-4.0712	-56.7513	-93.3401	-0.1795	8.32
	5	19	-1.1398	39.7176	-69.8838	94.6089	8.28
		20	-1.1398	-40.2151	-74.0306	-0.1147	8.30
	6	19	-0.4031	16.6596	-20.3305	44.9738	7.84
		20	-0.4031	-18.7641	-37.8714	-0.0557	8.06
	7	19	-1.6697	17.6677	-25.0014	48.4447	8.31
		20	-1.6697	-17.7561	-25.7386	-0.0620	8.32
	8	19	-3.8673	29.9351	-43.4331	81.4184	8.34
		20	-3.8673	-29.8886	-43.0453	-0.1040	8.34
20	1	20	-5.4102	-88.8678	-154.9473		
		21	-5.4102	-123.9668	-510.3811	0.0111	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
	2	20	-6.6768	-87.8597	-142.8145		
		21	-6.6768	-122.9588	-494.8815	0.0106	1.[illegible]3
	3	20	-3.3261	-57.3443	-100.4771		
		21	-3.3261	-80.0095	-329.8579	0.0072	1.[illegible]2
	4	20	-4.0712	-56.7513	-93.3401		
		21	-4.0712	-79.4166	-320.7405	0.0069	1.[illegible]3
	5	20	-1.1398	-40.2151	-74.0306		
		21	-1.1398	-56.2304	-235.0946	0.0052	1.[illegible]2
	6	20	-0.4031	-18.7641	-37.8714		
		21	-0.4031	-25.8616	-112.3964	0.0025	1.81
	7	20	-1.6697	-17.7561	-25.7386		
		21	-1.6697	-24.8536	-96.8968	0.0020	1.83
	8	20	-3.8673	-29.8886	-43.0453		
		21	-3.8673	-41.8748	-162.8901	0.0034	1.84
21	1	21	-5.4102	-123.9668	-510.3811		
		22	-5.4102	-132.6890	-616.8932	0.0010	0.42
	2	21	-6.6768	-122.9588	-494.8815		
		22	-6.6768	-131.6810	-600.5570	0.0010	0.42
	3	21	-3.3261	-80.0095	-329.8579		
		22	-3.3261	-85.6419	-398.6033	0.0007	0.42
	4	21	-4.0712	-79.4166	-320.7405		
		22	-4.0712	-85.0489	-388.9937	0.0006	0.42
	5	21	-1.1398	-56.2304	-235.0946		
		22	-1.1398	-60.2102	-283.4174	0.0005	0.[illegible]2
	6	21	-0.4031	-25.8616	-112.3964		
		22	-0.4031	-27.6254	-134.5935	0.0002	0.[illegible]2
	7	21	-1.6697	-24.8536	-96.8968		
		22	-1.6697	-26.6173	-118.2572	0.0002	0.[illegible]2
	8	21	-3.8673	-41.8748	-162.8901		
		22	-3.8673	-44.8534	-198.8823	0.0003	0.[illegible]2
22	1	22	106.4565	7.2315	-52.8913		
		23	106.4565	7.2315	26.6554	0.0060	3.[illegible]6

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

SIGN CONVENTION : BEAM DESIGNERS

ELEM N	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
	2	22	90.2713	14.4871	-105.7056		
		23	90.2713	14.4871	53.6526	0.0119	3.65
	3	22	69.7650	4.0368	-29.5165		
		23	69.7650	4.0368	14.8878	0.0033	3.66
	4	22	60.2444	8.3047	-60.5838		
		23	60.2444	8.3047	30.7685	0.0068	3.65
	5	22	56.6724	-1.7222	12.6617		
		23	56.6724	-1.7222	-6.2823	-0.0014	3.68
	6	22	28.6997	-1.0822	7.9427		
		23	28.6997	-1.0822	-3.9619	-0.0009	3.67
	7	22	12.5146	6.1733	-44.8715		
		23	12.5146	6.1733	23.0353	0.0050	3.63
	8	22	21.0843	10.0359	-73.4958		
		23	21.0843	10.0359	36.8996	0.0083	3.66
23	1	24	-126.6920	10.0261	-36.5643		
		22	-126.6920	10.0261	73.7227	-0.0059	7.32
	2	24	-107.4304	19.6946	-71.4583		
		22	-107.4304	19.6946	145.1821	-0.0118	7.31
	3	24	-83.0262	5.5839	-20.3522		
		22	-83.0262	5.5839	41.0712	-0.0033	7.32
	4	24	-71.6958	11.2713	-40.8781		
		22	-71.6958	11.2713	83.1061	-0.0067	7.31
	5	24	-67.4449	-2.4892	9.1727		
		22	-67.4449	-2.4892	-18.2080	0.0015	7.34
	6	24	-34.1551	-1.5426	5.6651		
		22	-34.1551	-1.5426	-11.3033	0.0009	7.34
	7	24	-14.8934	8.1259	-29.2289		
		22	-14.8934	8.1259	60.1560	-0.0049	7.30
	8	24	-25.0921	14.0578	-51.4021		
		22	-25.0921	14.0578	103.2340	-0.0083	7.33
24	1	22	-2.6156	100.4595	-490.2792		
		25	-2.6156	94.7159	-409.2814	0.0008	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
	2	22	-1.4694	66.0207	-349.6693		
		25	-1.4694	62.0408	-296.5238	0.0006	0.41
	3	22	-1.7790	67.1493	-328.0155		
		25	-1.7790	63.2691	-273.8919	0.0005	0.41
	4	22	-1.1047	46.8912	-245.3038		
		25	-1.1047	44.0485	-207.5639	0.0004	0.41
	5	22	-1.9067	63.9071	-314.2871		
		25	-1.9067	59.9272	-262.8959	0.0005	0.41
	6	22	-0.8634	35.2294	-153.8396		
		25	-0.8634	33.4657	-125.3311	0.0003	0.41
	7	22	0.2828	0.7906	-13.2297		
		25	0.2828	0.7906	-12.5735		
	8	22	0.1545	1.3230	-22.1525		
		25	0.1545	1.3230	-21.0544		
25	1	25	-2.6156	94.7159	-409.2814		
		26	-2.6156	64.5056	-143.3816	0.0092	1.53
	2	25	-1.4694	62.0408	-296.5238		
		26	-1.4694	46.0255	-116.0529	0.0069	1.55
	3	25	-1.7790	63.2691	-273.8919		
		26	-1.7790	43.4796	-95.6217	0.0061	1.53
	4	25	-1.1047	44.0485	-207.5639		
		26	-1.1047	32.6090	-79.5460	0.0048	1.54
	5	25	-1.9067	59.9272	-262.8959		
		26	-1.9067	43.9119	-89.4845	0.0059	1.53
	6	25	-0.8634	33.4657	-125.3311		
		26	-0.8634	19.2707	-37.2614	0.0026	1.51
	7	25	0.2828	0.7906	-12.5735		
		26	0.2828	0.7906	-9.9328	0.0004	1.54
	8	25	0.1545	1.3230	-21.0544		
		26	0.1545	1.3230	-16.6357	0.0006	1.54
26	1	26	-2.6156	64.5056	-143.3816	157.2665	9.32
		27	-2.6156	-46.2144	2.9477	-0.1822	8.53

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	26	-1.4694	46.0255	-116.0529	104.8386	9.60
		27	-1.4694	-30.6945	6.5956	-0.1172	8.81
	3	26	-1.7790	43.4796	-95.6217	106.5680	9.30
		27	-1.7790	-31.3204	1.6515	-0.1237	8.62
	4	26	-1.1047	32.6090	-79.5460	75.6867	9.52
		27	-1.1047	-22.1910	3.7974	-0.0855	8.76
	5	26	-1.9067	43.9119	-89.4845	111.5852	9.16
		27	-1.9067	-32.8081	-0.6535	-0.1316	8.54
	6	26	-0.8634	19.2707	-37.2614	50.1170	9.07
		27	-0.8634	-14.7293	-0.9308	-0.0597	8.49
	7	26	0.2828	0.7906	-9.9328		
		27	0.2828	0.7906	2.7171	0.0061	6.07
	8	26	0.1545	1.3230	-16.6357		
		27	0.1545	1.3230	4.5320	0.0103	6.07
7	1	27	-2.6156	-46.2144	2.9477		
		28	-2.6156	-73.8944	-237.2700	0.0054	2.35
	2	27	-1.4694	-30.6945	6.5956		
		28	-1.4694	-49.8745	-154.5423	0.0034	2.37
	3	27	-1.7790	-31.3204	1.6515		
		28	-1.7790	-50.0204	-161.0302	0.0037	2.35
	4	27	-1.1047	-22.1910	3.7974		
		28	-1.1047	-35.8910	-112.3668	0.0025	2.37
	5	27	-1.9067	-32.8081	-0.6535		
		28	-1.9067	-51.9881	-170.2458	0.0039	2.34
	6	27	-0.8634	-14.7293	-0.9308		
		28	-0.8634	-23.2293	-76.8481	0.0018	2.33
	7	27	0.2828	0.7906	2.7171		
		28	0.2828	0.7906	5.8796	-0.0002	2.12
	8	27	0.1545	1.3230	4.5320		
		28	0.1545	1.3230	9.8239	-0.0004	2.12
28	1	28	-2.6156	-73.8944	-237.2700		
		29	-2.6156	-79.6380	-300.9860	0.0005	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
	2	28	-1.4694	-49.8745	-154.5423		
		29	-1.4694	-53.8543	-197.5898	0.0003	0.42
	3	28	-1.7790	-50.0204	-161.0302		
		29	-1.7790	-53.9007	-204.1574	0.0003	0.42
	4	28	-1.1047	-35.8910	-112.3668		
		29	-1.1047	-38.7338	-143.3361	0.0002	0.42
	5	28	-1.9067	-51.9881	-170.2458		
		29	-1.9067	-55.9679	-215.0475	0.0003	0.42
	6	28	-0.8634	-23.2293	-76.8481		
		29	-0.8634	-24.9931	-96.8605	0.0001	0.42
	7	28	0.2828	0.7906	5.8796		
		29	0.2828	0.7906	6.5358		
	8	28	0.1545	1.3230	9.8239		
		29	0.1545	1.3230	10.9220		
29	1	29	37.1644	19.2129	-140.7902		
		30	37.1644	19.2129	70.5521	0.0326	3.66
	2	29	25.1320	12.7346	-93.1058		
		30	25.1320	12.7346	46.9749	0.0215	3.66
	3	29	25.1536	13.0297	-95.4842		
		30	25.1536	13.0297	47.8424	0.0221	3.66
	4	29	18.0758	9.2189	-67.4345		
		30	18.0758	9.2189	33.9735	0.0156	3.66
	5	29	26.1184	13.7086	-100.4872		
		30	26.1184	13.7086	50.3069	0.0233	3.67
	6	29	11.6634	6.1723	-45.2481		
		30	11.6634	6.1723	22.6466	0.0105	3.67
	7	29	-0.3690	-0.3061	2.4363		
		30	-0.3690	-0.3061	-0.9305	-0.0007	3.64
	8	29	-0.6174	-0.6679	4.9451		
		30	-0.6174	-0.6679	-2.4015	-0.0012	3.60
30	1	31	-42.4736	21.8286	-79.9185		
		29	-42.4736	21.8286	160.1958	-0.0326	7.63

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	31	-28.7223	14.2040	-51.7596		
		29	-28.7223	14.2040	104.4840	-0.0213	7.32
	3	31	-28.7470	14.8087	-54.2219		
		29	-28.7470	14.8087	108.6732	-0.0221	7.33
	4	31	-20.6580	10.3236	-37.6579		
		29	-20.6580	10.3236	75.9016	-0.0155	7.32
	5	31	-29.8496	15.6153	-57.2078		
		29	-29.8496	15.6153	114.5604	-0.0233	7.33
	6	31	-13.3296	7.0357	-25.7803		
		29	-13.3296	7.0357	51.6123	-0.0105	7.33
	7	31	0.4217	-0.5889	2.3785		
		29	0.4217	-0.5889	-4.0995	0.0007	7.53
	8	31	0.7056	-0.8224	3.0697		
		29	0.7056	-0.8224	-5.9769	0.0012	7.37

R E A C T I O N S

NODE N	LOAD COMB	PX	PY	MOMENT
	Units :	K	K	K -Ft

OA COMBINATIONS:

OMB 1 : 1.40 X CASE 1
+ 1.70 X CASE 2
+ 1.70 X CASE 4

OM 2 : 1.40 X CASE 1
+ 1.70 X CASE 3
+ 1.70 X CASE 4

ON 3 : 1.00 X CASE 1
+ 1.00 X CASE 2
+ 1.00 X CASE 4

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

OMB 5 : 1.40 X CASE 1

ON 6 : 1.70 X CASE 2

R E A C T I O N S

COMB 7 : 1.70 X CASE 3

COMB 8 : 1.70 X CASE 4

NODE NO	LOAD COMB	PX	PY	MOMENT
1	1	-20.3474	38.2096	-74.6374
	2	-20.2580	38.2130	-74.1458
	3	-13.6970	25.7685	-50.2455
	4	-13.6444	25.7705	-49.9564
	5	-13.7086	26.1184	-50.3069
	6	-6.5942	12.0522	-24.1660
	7	-6.5048	12.0555	-23.6745
	8	-0.0446	0.0391	-0.1644
2	1	23.2177	43.6681	-85.0970
	2	23.3197	43.6720	-85.6578
	3	15.6258	29.4497	-57.2681
	4	15.6858	29.4520	-57.5980
	5	15.6153	29.8496	-57.2078
	6	7.5523	13.7739	-27.7063
	7	7.6543	13.7778	-28.2672
	8	0.0501	0.0447	-0.1829
9	1	9.7403	71.7943	35.7336
	2	9.9710	71.7645	36.9193
	3	5.9467	49.3755	21.8117
	4	6.0824	49.3580	22.5091
	5	1.7222	56.6724	6.2823
	6	7.3943	15.8084	27.1652
	7	7.6250	15.7786	28.3509
	8	0.6239	-0.6866	2.2861
10	1	-13.7660	85.4411	50.4483
	2	-13.5677	85.4057	49.2401
	3	-8.4114	58.7609	30.8317
	4	-8.2948	58.7401	30.1210
	5	-2.4892	67.4449	9.1727
	6	-10.3912	18.8133	38.0262
	7	-10.1929	18.7779	36.8180
	8	-0.8857	-0.8171	3.2493
16	1	-15.8211	87.1601	-58.0246
	2	-16.0472	87.6468	-58.4960
	3	-9.3066	58.1387	-34.1321
	4	-9.4395	58.4250	-34.4094

R E A C T I O N S

NODE N	LOAD COMB	PX	PY	MOMENT
	5	-0.0000	54.4863	-0.0000
	6	-5.8841	11.5404	-21.5801
	7	-6.1101	12.0271	-22.0515
	8	-9.9371	21.1334	-36.4445
17	1	22.3866	103.7277	-82.0648
	2	23.2590	104.3070	-85.7696
	3	13.1686	69.1898	-48.2734
	4	13.6817	69.5306	-50.4527
	5	0.0000	64.8432	-0.0000
	6	8.3259	13.7340	-30.5210
	7	9.1982	14.3133	-34.2258
	8	14.0607	25.1505	-51.5438
23	1	7.2315	106.4565	26.6554
	2	14.4871	90.2713	53.6526
	3	4.0368	69.7650	14.8878
	4	8.3047	60.2444	30.7685
	5	-1.7222	56.6724	-6.2823
	6	-1.0822	28.6997	-3.9619
	7	6.1733	12.5146	23.0353
	8	10.0359	21.0843	36.8996
24	1	-10.0261	126.6920	36.5643
	2	-19.6946	107.4304	71.4583
	3	-5.5839	83.0262	20.3522
	4	-11.2713	71.6958	40.8781
	5	2.4892	67.4449	-9.1727
	6	1.5426	34.1551	-5.6651
	7	-8.1259	14.8934	29.2289
	8	-14.0578	25.0921	51.4021
30	1	19.2129	37.1644	70.5521
	2	12.7346	25.1320	46.9749
	3	13.0297	25.1536	47.8424
	4	9.2189	18.0758	33.9735
	5	13.7086	26.1184	50.3069
	6	6.1723	11.6634	22.6466
	7	-0.3061	-0.3690	-0.9305
	8	-0.6679	-0.6174	-2.4015
31	1	-21.8286	42.4736	79.9185
	2	-14.2040	28.7223	51.7596
	3	-14.8087	28.7470	54.2219
	4	-10.3236	20.6580	37.6579

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
5		-15.6153	29.8496	57.2078
6		-7.0357	13.3296	25.7803
7		0.5889	-0.4217	-2.3785
8		0.8224	-0.7056	-3.0697

PROGRAM : General Frame Analysis v2.02
PLW Architects & Engineers
JOB : GSA FLOOR ANAL. - 4TH FLR. - SLAB BEAM G
RUN : 50 PSF LL & 100 PSF CORRIDOR LL

TIME : Fri Oct 23 12:08:39 199
JOB NO. : 1

NODAL INFORMATION

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			
25	75.830	11.000				
26	79.170	11.000				
27	95.170	11.000				
28	99.170	11.000				
29	100.000	11.000				
30	100.000	22.000	F			
31	100.000	0.000	F			

ELEMENT INFORMATION

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
		Units : Ft		Deg				
1	3	1	11.000	90.00	6	BEAM		
2	2	3	11.000	90.00	8	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		

PROGRAM : General Frame Analysis v2.02 PAGE NO.
BPLW Architects & Engineers TIME : Fri Oct 23 12:08:42 19
JOB : GSA FLOOR ANAL. - 4TH FLR. - SLAB BEAM G JOB NO.
RUN : 50 PSF LL & 100 PSF CORRIDOR LL

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
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		
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		
24	22	25	0.830	0.00	3	BEAM		
25	25	26	3.340	0.00	2	BEAM		
26	26	27	16.000	0.00	1	BEAM		
27	27	28	4.000	0.00	2	BEAM		
28	28	29	0.830	0.00	4	BEAM		
29	29	30	11.000	90.00	6	BEAM		
30	31	29	11.000	90.00	8	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	3.03e+004	
4	S.B. @ EXT. COLUMNS	2.7e+003	2.8e+003	3.22e+004	
5	4TH FLOOR INT. COLUM	3.5e+003	484	1.95e+004	
6	4TH FLOOR EXT. COLUM	3.5e+003	448	9.56e+003	
7	3RD FLOOR INT. COLUM	3.5e+003	576	2.76e+004	
8	3RD FLOOR INT. COLUM	3.5e+003	512	1.09e+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