

# LOAD DATA

#NUMBER OF LOAD CASE 6

\* JOINT FORCE (INPUT NUMBER 6)

FORCE NO.	H- FORCE (T)	V- FORCE (T)	MOMENT (T.M)	NOODAL POINT NO.
3	2.65	0.00	0.00	9 0 0 0 0
3	1.33	0.00	0.00	15 0 0 0 0
4	-1.33	0.00	0.00	9 0 0 0 0
4	-2.65	0.00	0.00	16 0 0 0 0
5	3.45	0.00	0.00	9 16 0 0 0
6	-5.45	0.00	0.00	9 16 0 0 0

\* MEMBER FORCE (INPUT NUMBER 13)

NOTE CASE G GLOBAL CO-ORDINATE  
 L LOCAL CO-ORDINATE  
 W-TYPE 1 UNIFORM LOAD  
 DIRECTION X X-DIRECTION LOAD  
 Z Z-DIRECTION LOAD

FORCE NO.	CASE	DIRECTION	W-TYPE	W (T/M)	CONCENTRATED LOAD (T. M)				MEMBER NO.							
					P1	L1	P2	L2	P3	L3						
1	G	Z	1	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0
1	G	Z	1	-0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0	0	0	0
1	G	Z	1	-0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	12	13	14	15
2	G	Z	1	-0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0
2	G	Z	1	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	10	11	12	13
2	G	Z	1	-0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	12	13	14	15
3	G	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0
3	L	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	10	11	12	13
3	L	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0
4	L	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	10	11	12	13
4	L	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	12	13	14	15
4	L	Z	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0

\*\* STAN FRAME \*\* <BCJ-DFN 20> - - - - -  
 \*\* TYPE NO. 0-0\*\*

-G819- \* ISEZAKI DROSHI ICHIBA SOKO 3

DATE=80-09-17 TIME=17-39-42  
 \* MAIN FRAME DESIGN \* PAGE 1

\*\* 1 - FRAME

\*\* MAIN FRAME LOAD CONDITION

NOTE

CASE

G GLOBAL CO-ORDINATE  
 L LOCAL CO-ORDINATE

W-TYPE

1 UNIFORM LOAD  
 2 KAMENOKO -1  
 3 KAMENOKO -2  
 4 KAMENOKO -3

DIRECTION  
 X X-DIRECTION LOAD  
 Z Z-DIRECTION LOAD

\* DEAD+LIV LOAD

MEMBER FORCE	MEMBER I - J	CASE	DIREC -TION	W TYPE	W	CONCENTRATED FORCE (T, M)														
						P1 P6	L1 L6	P2 P7	L2 L7	P3 P8	L3 L8	P4 P9	L4 L9	P5 P10	L5 L10					
	9 10	G	Z	1	-0.46															
	10 11	G	Z	1	-0.21															
	11 12	G	Z	1	-0.23															
	12 13	G	Z	1	-0.23															
	13 14	G	Z	1	-0.23															
	14 15	G	Z	1	-0.23															
	15 16	G	Z	1	-0.23															
	16 17	G	Z	1	-0.23															

\* SNOW LOAD

MEMBER FORCE	MEMBER I - J	CASE	DIREC -TION	W TYPE	W	CONCENTRATED FORCE (T, M)														
						P1 P6	L1 L6	P2 P7	L2 L7	P3 P8	L3 L8	P4 P9	L4 L9	P5 P10	L5 L10					
	9 10	G	Z	1	-0.21															
	10 11	G	Z	1	-0.21															
	11 12	G	Z	1	-0.18															
	12 13	G	Z	1	-0.18															
	13 14	G	Z	1	-0.18															
	14 15	G	Z	1	-0.18															
	15 16	G	Z	1	-0.18															
	16 17	G	Z	1	-0.18															

\* WIND (R) LOAD

JOINT FORCE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)	JOINT FORCE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)
1	0.00	0.00	0.00	2	0.00	0.00	0.00
3	0.00	0.00	0.00	4	0.00	0.00	0.00
5	0.00	0.00	0.00	6	0.00	0.00	0.00
7	0.00	0.00	0.00	8	0.00	0.00	0.00
9	2.65	0.00	0.00	10	0.00	0.00	0.00
11	0.00	0.00	0.00	12	0.00	0.00	0.00
13	0.00	0.00	0.00	14	0.00	0.00	0.00
15	0.00	0.00	0.00	16	1.35	0.00	0.00
17	0.00	0.00	0.00				

MEMBER FORCE	MEMBER I - J	CASE	DIREC -TION	W TYPE	W	CONCENTRATED FORCE (T, M)														
						P1 P6	L1 L6	P2 P7	L2 L7	P3 P8	L3 L8	P4 P9	L4 L9	P5 P10	L5 L10					
	9 10	L	Z	1	0.51															
	10 11	L	Z	1	0.51															
	11 12	L	Z	1	0.55															
	12 13	L	Z	1	0.55															
	13 14	L	Z	1	0.55															
	14 15	L	Z	1	0.55															
	15 16	L	Z	1	0.55															
	16 17	L	Z	1	2.20															

KK 1 - FRAME

KK MAIN FRAME LOAD CONDITION

NOTE

CASE

G GLOBAL CO-ORDINATE  
 L LOCAL CO-ORDINATE

W-TYPE

1 UNIFORM LOAD  
 2 KAMENOKO  
 3 KAMENOKO -1  
 4 KAMENOKO -2  
 5 KAMENOKO -3

DIRECTION X X-DIRECTION LOAD  
 Z Z-DIRECTION LOAD

\* WIND (L) LOAD

JOINT FORCE	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)
	1	0.00	0.00	0.00	2	0.00	0.00	0.00
	3	0.00	0.00	0.00	4	0.00	0.00	0.00
	5	0.00	0.00	0.00	6	0.00	0.00	0.00
	7	0.00	0.00	0.00	8	0.00	0.00	0.00
	9	-1.35	0.00	0.00	10	0.00	0.00	0.00
	11	0.00	0.00	0.00	12	0.00	0.00	0.00
	13	0.00	0.00	0.00	14	0.00	0.00	0.00
	15	0.00	0.00	0.00	16	-2.65	0.00	0.00
	17	0.00	0.00	0.00				

MEMBER FORCE	MEMBER I - J	CASE	DIREC TION	W TYPE	M	CONCENTRATED FORCE (T, M)									
						P1	L1	P2	L2	P3	L3	P4	L4	P5	L5
						P6	L6	P7	L7	P8	L8	P9	L9	P10	L10
	9	10	L	Z	1	0.51	T/M								
	10	11	L	Z	1	0.51	T/M								
	11	12	L	Z	1	0.55	T/M								
	12	13	L	Z	1	0.55	T/M								
	13	14	L	Z	1	0.55	T/M								
	14	15	L	Z	1	0.55	T/M								
	15	16	L	Z	1	0.55	T/M								
	16	17	L	Z	1	0.55	T/M								

\* SEIS (R) LOAD <FROM BRACE>

JOINT FORCE	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)
	1	0.00	0.00	0.00	2	0.00	0.00	0.00
	3	0.00	0.00	0.00	4	0.00	0.00	0.00
	5	0.00	0.00	0.00	6	0.00	0.00	0.00
	7	0.00	0.00	0.00	8	0.00	0.00	0.00
	9	5.45	0.00	0.00	10	0.00	0.00	0.00
	11	0.00	0.00	0.00	12	0.00	0.00	0.00
	13	0.00	0.00	0.00	14	0.00	0.00	0.00
	15	0.00	0.00	0.00	16	5.45	0.00	0.00
	17	0.00	0.00	0.00				

\* SEIS (L) LOAD <FROM BRACE>

JOINT FORCE	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)	NODE NO.	H-FORCE (T)	V-FORCE (T)	MOMENT (T.M)
	1	0.00	0.00	0.00	2	0.00	0.00	0.00
	3	0.00	0.00	0.00	4	0.00	0.00	0.00
	5	0.00	0.00	0.00	6	0.00	0.00	0.00
	7	0.00	0.00	0.00	8	0.00	0.00	0.00
	9	-5.45	0.00	0.00	10	0.00	0.00	0.00
	11	0.00	0.00	0.00	12	0.00	0.00	0.00
	13	0.00	0.00	0.00	14	0.00	0.00	0.00
	15	0.00	0.00	0.00	16	-5.45	0.00	0.00
	17	0.00	0.00	0.00				

\*\* MAIN FRAME COMBINED LOAD CONDITION

NOTE

LOADING  
TERM

L  
S

LONG TERM  
SHORT TERM

LOAD NO.	LOADING TERM	
1	(L)	DEAD+LIV
2	(S)	DEAD+LIV + 1.00*SNOW
3	(S)	DEAD+LIV + 1.00*WIND (P)
4	(S)	DEAD+LIV + 1.00*WIND (L)
5	(S)	DEAD+LIV + 1.00*SEIS (R)
6	(S)	DEAD+LIV + 1.00*SEIS (L)

\*\* MAIN FRAME NODAL POINT DISPLACEMENT TABLE (FOR COMBINED LOAD)

## 1 - FRAME

NODE NO.	LOAD NO.	X- DISP. (CM)	Z- DISP. (CM)	Y- ROTAT. (RADIAN)	LOAD NO.	X- DISP. (CM)	Z- DISP. (CM)	Y- ROTAT. (RADIAN)	
1	1	0.00	0.00	-0.00	2	0.00	0.00	-0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
2	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.05	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
3	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
4	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
5	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
6	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
7	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
8	1	0.00	0.00	0.00	2	0.00	0.00	0.00	
	5	0.00	0.00	0.01		4	0.00	0.00	-0.01
	5	0.00	0.00	0.03		6	0.00	0.00	-0.03
9	1	0.09	-0.01	0.00	2	0.15	-0.01	0.00	
	5	4.20	0.00	0.00		4	-4.57	-0.00	-0.00
	5	12.49	0.00	0.01		6	-12.51	-0.01	-0.01
10	1	0.09	-0.01	-0.00	2	0.14	-0.02	-0.00	
	5	4.18	0.01	0.00		4	-4.56	0.01	-0.00
	5	12.45	-0.01	0.00		6	-12.28	-0.01	-0.01
11	1	0.09	-0.00	0.00	2	0.14	-0.01	-0.00	
	5	4.17	0.01	0.00		4	-4.56	0.01	-0.00
	5	12.43	0.00	0.00		6	-12.25	-0.01	-0.00
12	1	0.09	-0.01	0.00	2	0.14	-0.01	0.00	
	5	4.16	0.01	0.00		4	-4.56	0.01	-0.00
	5	12.42	-0.01	0.00		6	-12.24	-0.00	-0.00
13	1	0.09	-0.01	0.00	2	0.14	-0.01	0.00	
	5	4.15	0.01	0.00		4	-4.56	0.01	-0.00
	5	12.42	-0.00	0.00		6	-12.24	-0.01	-0.00
14	1	0.09	-0.01	0.00	2	0.14	-0.01	0.00	
	5	4.15	-0.01	0.00		4	-4.57	0.01	-0.00
	5	12.42	-0.01	0.00		6	-12.25	-0.00	-0.00
15	1	0.09	-0.00	-0.00	2	0.14	-0.01	-0.00	
	5	4.15	0.00	0.00		4	-4.58	0.01	-0.00
	5	12.44	-0.00	0.00		6	-12.26	-0.01	-0.00
16	1	0.09	-0.01	0.00	2	0.14	-0.01	0.00	
	5	4.16	0.03	-0.00		4	-4.59	0.01	-0.00
	5	12.46	-0.02	0.01		6	-12.29	0.01	-0.01
17	1	0.09	-0.22	-0.00	2	0.14	-0.38	0.00	
	5	4.16	-1.66	-0.01		4	-4.59	0.85	-0.00
	5	12.46	-1.73	0.01		6	-12.29	1.29	-0.00

## MAIN FRAME MEMBER END STRESS TABLE  
## 1 - FRAME

MEMBER	LOAD	AXIAL	SHEAR	MOMENT	AXIAL	SHEAR	MOMENT	
I	J	NAME	(I)	(I)	(J)	(J)	(J)	
			(TON)	(TON)	(TON)	(TON)	(T.M)	
1	9	DEAD+LIV	1.38	-0.15	0.00	-1.38	0.15	0.89
		SNOW	0.70	-0.07	0.00	-0.70	0.07	0.44
		WIND (R)	-2.25	0.55	-0.00	2.25	-0.55	-3.29
		WIND (L)	-1.14	-0.22	0.00	1.14	0.22	-1.32
		SEIS (R)	-1.58	1.09	-0.00	1.58	-1.09	-6.53
		SEIS (L)	1.58	-1.09	0.00	-1.58	1.09	6.53
2	10	DEAD+LIV	2.37	0.10	-0.00	-2.37	-0.10	-0.62
		SNOW	1.26	0.04	0.00	-1.26	-0.04	-0.23
		WIND (R)	-3.55	0.37	-0.00	3.55	-0.37	-2.24
		WIND (L)	-4.00	-0.59	0.00	4.00	0.59	3.74
		SEIS (R)	0.64	1.36	-0.00	-0.64	-1.36	-4.16
		SEIS (L)	-0.64	-1.36	0.00	0.64	1.36	4.16
3	11	DEAD+LIV	1.00	0.01	-0.00	-1.00	-0.01	-0.05
		SNOW	1.00	0.02	-0.00	-1.00	-0.02	-0.10
		WIND (R)	-3.11	0.44	-0.00	3.11	-0.44	-2.64
		WIND (L)	-2.20	-0.54	0.00	2.20	0.54	-3.21
		SEIS (R)	-1.29	1.38	-0.00	1.29	-1.38	-6.48
		SEIS (L)	1.29	-1.38	0.00	-1.29	1.38	6.48
4	12	DEAD+LIV	1.12	0.01	-0.00	-1.12	-0.01	-0.05
		SNOW	0.83	0.00	0.00	-0.83	-0.00	-0.02
		WIND (R)	-2.41	0.50	-0.00	2.41	-0.50	-2.38
		WIND (L)	-2.80	-0.55	0.00	2.80	0.55	3.28
		SEIS (R)	0.57	1.48	-0.00	-0.57	-1.48	-8.88
		SEIS (L)	-0.57	-1.48	0.00	0.57	1.48	8.88
5	13	DEAD+LIV	1.15	0.01	-0.00	-1.15	-0.01	-0.07
		SNOW	0.91	0.01	0.00	-0.91	-0.01	-0.04
		WIND (R)	-2.78	0.47	-0.00	2.78	-0.47	-2.84
		WIND (L)	-2.73	-0.55	0.00	2.73	0.55	3.29
		SEIS (R)	-0.12	1.45	-0.00	0.12	-1.45	-6.69
		SEIS (L)	0.12	-1.45	0.00	-0.12	1.45	6.69
6	14	DEAD+LIV	1.15	0.01	-0.00	-1.16	-0.01	-0.06
		SNOW	0.91	0.01	0.00	-0.91	-0.01	-0.03
		WIND (R)	-2.91	0.49	-0.00	2.91	-0.49	-2.93
		WIND (L)	-2.84	-0.54	0.00	2.84	0.54	3.26
		SEIS (R)	0.19	1.44	-0.00	-0.19	-1.44	-6.66
		SEIS (L)	-0.19	-1.44	0.00	0.19	1.44	6.66
7	15	DEAD+LIV	1.10	0.01	-0.00	-1.10	-0.01	-0.08
		SNOW	0.86	0.01	0.00	-0.86	-0.01	-0.05
		WIND (R)	-1.89	0.43	-0.00	1.89	-0.43	-2.58
		WIND (L)	-2.30	-0.58	0.00	2.30	0.58	3.45
		SEIS (R)	-0.89	1.50	-0.00	0.89	-1.50	-7.03
		SEIS (L)	0.89	-1.50	0.00	-0.89	1.50	7.03
8	16	DEAD+LIV	1.21	-0.01	-0.00	-1.21	0.01	0.05
		SNOW	0.94	-0.01	0.00	-0.94	0.01	0.03
		WIND (R)	-7.02	0.73	-0.00	7.02	-0.73	-9.59
		WIND (L)	-3.79	-0.42	0.00	3.79	0.42	2.53
		SEIS (R)	-2.49	1.20	-0.00	2.49	-1.20	-7.21
		SEIS (L)	2.49	-1.20	0.00	-2.49	1.20	7.21
9	10	DEAD+LIV	0.15	1.38	-0.89	-0.15	1.62	1.77
		SNOW	0.70	0.07	0.00	-0.70	0.07	0.44
		WIND (R)	2.10	-2.25	3.29	-2.10	1.57	-0.74
		WIND (L)	-1.11	1.14	-1.32	1.11	-2.69	-4.50
		SEIS (R)	4.36	-1.58	-6.53	-4.36	1.58	3.32
		SEIS (L)	-4.36	1.58	6.53	4.36	-1.58	-3.32

\*\* MAIN FRAME MEMBER END STRESS TABLE

\*\* 1 - FRAME

MEMBER I J	LOAD NAME	AXIAL (I) (TON)	SHEAR (I) (TON)	MOMENT (I) (T.M)	AXIAL (J) (TON)	SHEAR (J) (TON)	MOMENT (J) (T.M)
10 11	DEAD+LIV	0.05	0.76	-1.15	-0.05	0.50	0.39
	SNOW	0.03	0.69	-0.83	-0.03	0.57	0.49
	WIND (R)	1.73	-1.98	2.99	-1.73	-1.08	-0.29
	WIND (L)	-0.52	-1.31	0.96	0.52	-1.75	-2.27
	SEIS (R)	3.00	-0.94	-2.86	-3.00	0.94	2.79
SEIS (L)	-3.00	0.94	-2.86	3.00	-0.94	-2.79	
11 12	DEAD+LIV	0.04	0.50	-0.34	-0.04	0.56	0.46
	SNOW	0.02	0.43	-0.40	-0.02	0.40	0.33
	WIND (R)	1.26	-2.03	2.93	-1.26	-0.50	0.59
	WIND (L)	0.02	-0.45	-0.94	-0.02	-2.03	-2.80
	SEIS (R)	1.62	-2.23	-5.48	-1.62	2.23	4.79
SEIS (L)	-1.62	2.23	-5.48	1.62	-2.23	-4.79	
12 13	DEAD+LIV	0.03	0.56	-0.43	-0.03	0.59	0.52
	SNOW	0.02	0.43	-0.21	-0.02	0.47	0.41
	WIND (R)	0.79	-1.90	2.40	-0.79	-0.85	0.20
	WIND (L)	0.36	-0.72	-0.42	-0.36	-2.03	-2.75
	SEIS (R)	0.14	-1.66	4.07	-0.14	1.66	4.25
SEIS (L)	-0.14	1.66	-4.07	0.14	-1.66	-4.25	
13 14	DEAD+LIV	0.02	0.56	-0.45	-0.02	0.59	0.52
	SNOW	0.01	0.44	-0.26	-0.01	0.46	0.40
	WIND (R)	0.32	-1.23	2.37	-0.32	-0.82	0.20
	WIND (L)	1.11	-0.70	-0.51	-1.11	-2.05	-2.85
	SEIS (R)	-1.30	-1.78	4.44	1.30	1.78	4.48
SEIS (L)	1.30	1.78	-4.44	-1.30	-1.78	-4.48	
14 15	DEAD+LIV	0.01	0.57	-0.46	-0.01	0.58	0.48
	SNOW	0.00	0.45	-0.26	-0.00	0.45	0.37
	WIND (R)	-0.17	-2.09	2.74	0.17	-0.65	0.63
	WIND (L)	1.65	-0.79	-0.41	-1.65	-1.96	-2.51
	SEIS (R)	-2.75	-1.60	4.18	2.75	1.60	3.80
SEIS (L)	2.75	1.60	-4.18	-2.75	-1.60	-3.80	
15 16	DEAD+LIV	-0.21	0.52	-0.39	0.01	0.63	0.69
	SNOW	-0.01	0.41	-0.31	0.01	0.49	0.53
	WIND (R)	-0.60	-1.23	1.75	0.60	-1.52	-2.49
	WIND (L)	2.23	-0.34	-0.94	-2.23	-2.41	-4.24
	SEIS (R)	-4.25	-2.49	5.23	4.25	2.49	7.21
SEIS (L)	4.25	2.49	-5.23	-4.25	-2.49	-7.21	
16 17	DEAD+LIV	-0.00	0.57	-0.72	0.00	-0.00	0.00
	SNOW	-0.00	0.45	-0.26	0.00	-0.00	-0.00
	WIND (R)	0.00	-5.50	0.88	0.00	0.00	0.00
	WIND (L)	0.00	-1.37	1.72	-0.00	-0.00	0.00
	SEIS (R)	-0.00	-0.00	0.00	0.00	0.00	0.00
SEIS (L)	0.00	0.00	-0.00	-0.00	-0.00	0.00	