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 INPUT DATA  
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E= 4080 ksi      No. of Jts.= 6      No. of Elements= 5

Element Data

Joint Data

Element #	I (in <sup>4</sup> )	Joint #	X (ft)	Joint Restraint
1	6192	1	0.00	PINNED
2	6192	2	12.00	FREE
3	6192	3	14.00	PINNED
4	6192	4	24.00	FREE
5	6192	5	26.00	PINNED
		6	31.00	FREE

Load Case Description

Load Case	Description
1	DEAD LOADS (D)
2	LIVE LOADS (L)
3	EARTH PRESSURE (H)
4	WIND-POSITIVE PRESSURE (W)

Joint Loads

Load Case	Joint #	Px (k)	Py (k)	Mz (k-in)
1	2	-9.60	0.00	-87
1	4	-8.00	0.00	-72
2	2	-7.20	0.00	-65
2	4	-4.80	0.00	-43

Distributed Loads

Load Case	W1 (k/ft)	W2 (k/ft)	X1 (ft)	X2 (ft)
3	-1.440	0.000	0.00	6.00
4	-0.120	-0.120	6.00	31.00

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 LOAD COMBINATION 1 1.4D + 1.7L + 1.7H  
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Combined Loads = 1.400 \* LC 1 + 1.700 \* LC 2 + 1.700 \* LC 3

Joint Reactions and Displacements  
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Joint #	X (ft)	Rx (k)	Ry (k)	Mz (k-in)	Y-disp. (in)	Rotat. (rad)
1	0.00	45.04	5.31	0	0.0000	-0.000109
2	12.00	0.00	0.00	0	0.0004	-0.000063
3	14.00	0.00	0.36	0	0.0000	0.000024
4	24.00	0.00	0.00	0	0.0029	-0.000134
5	26.00	0.00	1.67	0	0.0000	-0.000115
6	31.00	0.00	0.00	0	-0.0069	-0.000115

Element Forces and Displacements  
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Ele. #	X (ft)	Axial Force (k)	Shear Force (k)	Moment (k-in)	Y-displ. (in)
1	0.00	45.04	5.31	0	0.0000
1	2.84	45.04	0.00	81	-0.0027
1	12.00	45.04	-2.03	-116	0.0004
2	12.00	19.36	-2.03	116	0.0004
2	14.00	19.36	-2.03	67	0.0000
3	14.00	19.36	-1.67	67	0.0000
3	24.00	19.36	-1.67	-134	0.0029
4	24.00	0.00	-1.67	40	0.0029
4	26.00	0.00	-1.67	0	0.0000
5	26.00	0.00	0.00	-0	0.0000
5	31.00	0.00	0.00	-0	-0.0069

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 LOAD COMBINATION 2 3/4(1.4D + 1.7L + 1.7H + 1.7W)  
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Combined Loads = 1.050 \* LC 1 + 1.280 \* LC 2 + 1.280 \* LC 3  
 + 1.280 \* LC 4

Joint Reactions and Displacements  
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Joint #	X (ft)	Rx (k)	Ry (k)	Mz (k-in)	Y-disp. (in)	Rotat. (rad)
1	0.00	33.84	4.20	0	0.0000	-0.000108
2	12.00	0.00	0.00	0	-0.0001	-0.000025
3	14.00	0.00	2.25	0	0.0000	0.000027
4	24.00	0.00	0.00	0	0.0021	-0.000094
5	26.00	0.00	2.93	0	0.0000	-0.000092
6	31.00	0.00	0.00	0	-0.0063	-0.000110

Element Forces and Displacements  
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Ele. #	X (ft)	Axial Force (k)	Shear Force (k)	Moment (k-in)	Y-displ. (in)
1	0.00	33.84	4.20	-0	0.0000
1	3.05	33.84	0.00	68	-0.0030
1	12.00	33.84	-2.26	-92	-0.0001
2	12.00	14.54	-2.26	82	-0.0001
2	14.00	14.54	-2.56	24	0.0000
3	14.00	14.54	-0.31	24	0.0000
3	24.00	14.54	-1.85	-106	0.0021
4	24.00	0.00	-1.85	25	0.0021
4	26.00	0.00	-2.16	-23	0.0000
5	26.00	0.00	0.77	-23	0.0000
5	31.00	0.00	0.00	0	-0.0063