

Column1					

GEOMETRY					

Nodal Coordinates:					
(Node No X - Y - Z)					
NODES =					
1.00000 0.00000 0.00000					
2.00000 0.00000 25.56000					
3.00000 0.00000 27.00000					
4.00000 0.00000 41.04000					
5.00000 0.00000 54.00000					
6.00000 104.50000 25.56000					
7.00000 104.50000 41.04000					

Boundary Conditions: 1 = Restrained, 0 = Free						
		estrained, 0 =	Free			
(Node No	- Tx - Ty - Rz)					
BOUNDS =						
1010)					
6 1 1 1	L					
7 1 1 1	L					
Element Inf	formation:					
(Ele No iN	Node - jNode - M	ember Type -	E - A - I)			
			,			
ELES =						
1.0000	0 1.00000	2.00000	0.00000	29000.00000	9999.00000	999999.00000
2.0000		3.00000	0.00000	29000.00000		999999.00000
3.0000		4.00000	0.00000	29000.00000		999999.00000
4.0000		5.00000	0.00000	29000.00000		999999.00000
5.0000		7.00000	0.00000	29000.00000	2.00000	2.85000
6.0000		6.00000	0.00000	29000.00000	2.00000	2.85000
7.0000		7.00000	0.00000	29000.00000	2.00000	2.85000
7.0000	2.00000	7.00000	0.00000	25000.00000	2.00000	2.03000
Load Inform	nation					
(Node No	- Fx - Fy - Mz)					
LOADC						
LOADS =						
2.00000 46.50000 0.00000 0.00000						
3.00000 16.50000 0.00000 0.00000						
plotFile =//1. OUTPUT/Design3Horizontal.png						
ans =						
-10.450	114.950 -35.700	89.700				

******	******	*******	*****			

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ANALYSIS
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kff =
Columns 1 through 9:
   2.0840e+07 -2.6633e+08 -2.0840e+07 0.0000e+00 -2.6633e+08 0.0000e+00 0.0000e+00 0.0000e+00 0.
  -2.6633e+08 4.5383e+09 2.6633e+08 0.0000e+00 2.2692e+09 0.0000e+00 0.0000e+00 0.0000e+00 0.0
  -2.0840e+07 2.6633e+08 1.1657e+11 7.9462e+01 -8.3646e+10 -1.1654e+11 0.0000e+00 -8.3912e+10 0.0000e+00
   0.0000e+00 0.0000e+00 7.9462e+01 2.1271e+08 4.3956e+01 0.0000e+00 -2.0137e+08 0.0000e+00 0.0
  -2.6633e+08 2.2692e+09 -8.3646e+10 4.3956e+01 8.5094e+10 8.3912e+10 0.0000e+00 4.0278e+10 0.0
   0.0000e+00 0.0000e+00 -1.1654e+11 0.0000e+00 8.3912e+10 1.1667e+11 0.0000e+00 8.3029e+10 -1...
   0.0000e+00 0.0000e+00 0.0000e+00 -2.0137e+08 0.0000e+00 0.0000e+00 2.2202e+08 0.0000e+00 0.0
   0.0000e+00 0.0000e+00 -8.3912e+10 0.0000e+00 4.0278e+10 8.3029e+10 0.0000e+00 8.8818e+10 8.8
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -1.2574e+08 0.0000e+00 8.8270e+08 2.8
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -2.0653e+07 0.0000e+00 -7.5
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -8.8270e+08 0.0000e+00 4.1311e+09 -1.
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -1.5
   0.0000e+00 0.0000e+000
   0.0000e+00 \quad 0.0
Columns 10 through 14:
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00
   0.0000e+00 -8.8270e+08 0.0000e+00 0.0000e+00 0.0000e+00
  -2.0653e+07  0.0000e+00  0.0000e+00  0.0000e+00  0.0000e+00
   0.0000e+00 4.1311e+09 0.0000e+00 0.0000e+00 0.0000e+00
  -7.9462e+01 -1.5325e+08 -1.5987e+08 0.0000e+00 -1.0360e+09
   4.3028e+07 8.9367e+01 0.0000e+00 -2.2374e+07 0.0000e+00
   8.9367e+01 1.7213e+10 1.0360e+09 0.0000e+00 4.4753e+09
   0.0000e+00 1.0360e+09 1.5987e+08 0.0000e+00 1.0360e+09
  -2.2374e+07 0.0000e+00 0.0000e+00 2.2374e+07 0.0000e+00
   0.0000e+00 4.4753e+09 1.0360e+09 0.0000e+00 8.9506e+09
Number of dof: 14
Number of loads: 1
LOADS =
     3.00000 16.50000 0.00000 0.00000
deg = 6
deg = 7
```

deg = 8
P =
0.00000
0.00000
0.00000
0.00000
0.00000
16.50000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
uf =
0.06559896394
0.00154366200
0.02614296315
-0.0000018552
0.00154366200 0.02392008946
-0.00000018531
0.00154366274
0.00134366274
-0.0000018335
0.00154366640
-0.01775889724
-0.0000018335
0.00154366640
0.0010 1.0000 1.0

Post Process

Nodal Displacements:
(Node No Tx - Ty - Rz)
NodalDisp =
1.00000 0.06560 0.00000 0.00154

```
2.00000 0.02614 -0.00000 0.00154
 3.00000 0.02392 -0.00000 0.00154
 4.00000 0.00225 -0.00000 0.00154
 5.00000 -0.01776 -0.00000 0.00154
 6.00000 0.00000 0.00000 0.00000
 7.00000 0.00000 0.00000 0.00000
Global Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
-----
GlobalForces =
 1.00000 -0.00000 2.10462 0.00000 0.00000 -2.10462 0.00000
 2.00000 -14.03555 -0.04060 -4.66063 14.03555 0.04060 24.87182
 3.00000 2.46445 -0.04060 -24.87182 -2.46445 0.04060 -9.72910
 4.00000 \quad 0.00000 \quad 0.00000 \quad -0.00000 \quad 0.00000 \quad -0.00000 \quad 0.00000
 5.00000 1.24715 0.07010 4.88359 -1.24715 -0.07010 2.44179
 6.00000 1.21730 -0.11070 4.84551 -1.21730 0.11070 2.43006
 7.00000 14.03555 2.14523 4.66063 -14.03555 -2.14523 2.24520
Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
LocalForces =
 1.00000 2.10462 0.00000 0.00000 -2.10462 -0.00000 0.00000
 2.00000 -0.04060 14.03555 -4.66063 0.04060 -14.03555 24.87182
 3.00000 -0.04060 -2.46445 -24.87182 0.04060 2.46445 -9.72910
 4.00000 0.00000 0.00000 -0.00000 -0.00000 0.00000 0.00000
 5.00000 1.24715 0.07010 4.88359 -1.24715 -0.07010 2.44179
 6.00000 1.22038 0.06887 4.84551 -1.22038 -0.06887 2.43006
 7.00000 14.19839 0.06537 4.66063 -14.19839 -0.06537 2.24520
Nodal Support Reactions:
(Node No. - Fx - Fy - Mz)
Support =
 1.00000 0.00000 2.10462 0.00000
```

2.00000	0.00000	0.00000	0.00000			
3.00000	0.00000	0.00000	0.00000			
4.00000	0.00000	0.00000	0.00000			
5.00000	0.00000	0.00000	0.00000			
6.00000	-1.21730	0.11070	2.43006			
7.00000	-15.28270	-2.21533	4.68699			
sumFx = -1	.6.500					
sumFy =	1.3323e-15					
sumMz =	7.1171					

0000e+00

000e+00

0000e+00

0000e+00

0000e+00

2574e+08

000e+00

3270e+08

3561e+08

....

9462e+01

5325e+08

5987e+08

)000e+00

0360e+09