STAAD.Pro Report

(THE HIGHLITED YELLOW TEXT SHOULD BE REMOVED)

Job Information

	Engineer	Checked	Approved
Name:			
Date:	19-Jun-14		

Structure Type	SPACE FRAME		

Number of Nodes	32	Highest Node	32
Number of Elements	43	Highest Beam	43

Number of Basic Load Cases	11
Number of Combination Load Cases	39

Included in this printout are data for:
All   The Whole Structure

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	SESMIC (+X)
Primary	2	SEISMIC (+Z)
Primary	3	SEISMIC (-X)
Primary	4	SEISMIC (-Z)
Primary	5	WIND LOAD (+X)
Primary	6	WIND LOAD (+Z)
Primary	7	WIND LOAD (-X)
Primary	8	WIND LOAD (-Z)
Primary	9	DEAD LOAD
Primary	10	LIVE LOAD
Primary	11	INSTRUMENT LOADS
Combination	12	GENERATED AISC GENERAL 1
Combination	13	GENERATED AISC GENERAL 2
Combination	14	GENERATED AISC GENERAL 3
Combination	15	GENERATED AISC GENERAL 4
Combination	16	GENERATED AISC GENERAL 5
Combination	17	GENERATED AISC GENERAL 6
Combination	18	GENERATED AISC GENERAL 7
Combination	19	GENERATED AISC GENERAL 8
Combination	20	GENERATED AISC GENERAL 9
Combination	21	GENERATED AISC GENERAL 10
Combination	22	GENERATED AISC GENERAL 11
Combination	23	GENERATED AISC GENERAL 12

Combination	24	GENERATED AISC GENERAL 13
Combination	25	GENERATED AISC GENERAL 14
Combination	26	GENERATED AISC GENERAL 15
Combination	27	GENERATED AISC GENERAL 16
Combination	28	GENERATED AISC GENERAL 17
Combination	29	GENERATED AISC GENERAL 18
Combination	30	GENERATED AISC GENERAL 19
Combination	31	GENERATED AISC GENERAL 20
Combination	32	GENERATED AISC GENERAL 21
Combination	33	GENERATED AISC GENERAL 22
Combination	34	GENERATED AISC GENERAL 23
Combination	35	GENERATED AISC GENERAL 24
Combination	36	GENERATED AISC GENERAL 25
Combination	37	GENERATED AISC GENERAL 26
Combination	38	GENERATED AISC GENERAL 27
Combination	39	GENERATED AISC GENERAL 28
Combination	40	GENERATED AISC GENERAL 29
Combination	41	GENERATED AISC GENERAL 30
Combination	42	GENERATED AISC GENERAL 31
Combination	43	GENERATED AISC GENERAL 32
Combination	44	GENERATED AISC GENERAL 33
Combination	45	GENERATED AISC GENERAL 34
Combination	46	GENERATED AISC GENERAL 35
Combination	47	GENERATED AISC GENERAL 36
Combination	48	GENERATED AISC GENERAL 37
Combination	49	GENERATED AISC GENERAL 38
Combination	50	GENERATED AISC GENERAL 39

Nodes

Node	X (mm)	Y (mm)	Z (mm)
1	0.000	0.000	0.000
2	0.000	0.000	2E 3
3	10E 3	0.000	0.000
4	10E 3	0.000	2E 3
5	5E 3	0.000	0.000
6	5E 3	0.000	2E 3
7	0.000	0.000	999.998
8	2.5E 3	0.000	0.000
9	2.5E 3	0.000	2E 3
10	10E 3	0.000	999.998
11	7.5E 3	0.000	0.000
12	7.5E 3	0.000	2E 3
13	2.5E 3	0.000	999.998
14	5E 3	0.000	999.998
15	7.5E 3	0.000	999.998
16	0.000	999.998	999.998
17	10E 3	999.998	999.998
18	2.5E 3	999.998	999.998
19	5E 3	999.998	999.998
20	7.5E 3	999.998	999.998
21	0.000	999.998	1.2E 3
22	10E 3	999.998	1.2E 3
23	2.5E 3	999.998	1.2E 3
24	5E 3	999.998	1.2E 3
25	7.5E 3	999.998	1.2E 3
26	0.000	999.998	799.998
27	10E 3	999.998	799.998
28	2.5E 3	999.998	799.998
29	5E 3	999.998	799.998
30	7.5E 3	999.998	799.998
31	-200.000	999.998	999.998
32	10.2E 3	999.998	999.998

Beams

Beam	Node A	Node B	Length (mm)	Property	β (degrees)
1	1	7	999.998	1	0
2	1	8	2.5E 3	1	0
3	2	9	2.5E 3	1	0
4	3	10	999.998	1	0
5	5	11	2.5E 3	1	0
6	6	12	2.5E 3	1	0
7	7	2	999.998	1	0
8	8	5	2.5E 3	1	0
9	9	6	2.5E 3	1	0
10	10	4	999.998	1	0
11	11	3	2.5E 3	1	0
12	12	4	2.5E 3	1	0
13	8	13	999.998	1	0
14	5	14	999.998	1	0
15	11	15	999.998	1	0
16	13	9	999.998	1	0
17	14	6	999.998	1	0
18	15	12	999.998	1	0
19	7	13	2.5E 3	1	0
20	13	14	2.5E 3	1	0
21	14	15	2.5E 3	1	0
22	15	10	2.5E 3	1	0
23	7	16	999.998	1	0
24	10	17	999.998	1	0
25	13	18	999.998	1	0
26	14	19	999.998	1	0
27	15	20	999.998	1	0
28	16	21	200.000	1	0
29	17	22	200.000	1	0
30	18	23	200.000	1	0
31	19	24	200.000	1	0
32	20	25	200.000	1	0
33	16	26	200.000	1	0
34	17	27	200.000	1	0
35	18	28	200.000	1	0
36	19	29	200.000	1	0
37	20	30	200.000	1	0
38	16	18	2.5E 3	2	0
39	18	19	2.5E 3	2	0
40	19	20	2.5E 3	2	0
41	20	17	2.5E 3	2	0
42	16	31	200.000	2	0
43	17	32	199.999	2	0

Section Properties

Prop	Section	Area (m^2)	I$_{yy}$ (m^4)	I$_{zz}$ (m^4)	J (m^4)	Material
1	UPN100	0.001	0.000	0.000	0.000	STEEL
2	PIPS20	0.001	0.000	0.000	0.000	STEEL

Materials

Mat	Name	E (kN/m^2)	ν	Density (kN/m^3)	α (/°F)
3	STEEL	200E 6	0.300	76.822	6E -6
4	STAINLESSSTEEL	193E 6	0.300	76.822	10E -6

| 5 | ALUMINUM | 68.9E 6 | 0.330 | 26.603 | 13E -6 |
| 6 | CONCRETE | 21.7E 6 | 0.170 | 23.617 | 5E -6 |

Supports

Node	X (kip/in)	Y (kip/in)	Z (kip/in)	rX (kip-ft/deg)	rY (kip-ft/deg)	rZ (kip-ft/deg)
1	Fixed	Fixed	Fixed	-	-	-
2	Fixed	Fixed	Fixed	-	-	-
3	Fixed	Fixed	Fixed	-	-	-
4	Fixed	Fixed	Fixed	-	-	-

Basic Load Cases

Number	Name
1	SESMIC (+X)
2	SEISMIC (+Z)
3	SEISMIC (-X)
4	SEISMIC (-Z)
5	WIND LOAD (+X)
6	WIND LOAD (+Z)
7	WIND LOAD (-X)
8	WIND LOAD (-Z)
9	DEAD LOAD
10	LIVE LOAD
11	INSTRUMENT LOADS

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name
12	GENERATED AISC GENERAL 1	9	DEAD LOAD
		11	INSTRUMENT LOADS
13	GENERATED AISC GENERAL 2	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
14	GENERATED AISC GENERAL 3	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
15	GENERATED AISC GENERAL 4	9	DEAD LOAD
		11	INSTRUMENT LOADS
		5	WIND LOAD (+X)
16	GENERATED AISC GENERAL 5	9	DEAD LOAD
		11	INSTRUMENT LOADS
		6	WIND LOAD (+Z)
17	GENERATED AISC GENERAL 6	9	DEAD LOAD
		11	INSTRUMENT LOADS
		7	WIND LOAD (-X)
18	GENERATED AISC GENERAL 7	9	DEAD LOAD
		11	INSTRUMENT LOADS
		8	WIND LOAD (-Z)
19	GENERATED AISC GENERAL 8	9	DEAD LOAD
		11	INSTRUMENT LOADS
		1	SESMIC (+X)
20	GENERATED AISC GENERAL 9	9	DEAD LOAD
		11	INSTRUMENT LOADS
		2	SEISMIC (+Z)
21	GENERATED AISC GENERAL 10	9	DEAD LOAD

		11	INSTRUMENT LOADS
		3	SEISMIC (-X)
22	GENERATED AISC GENERAL 11	9	DEAD LOAD
		11	INSTRUMENT LOADS
		4	SEISMIC (-Z)
23	GENERATED AISC GENERAL 12	9	DEAD LOAD
		11	INSTRUMENT LOADS
		1	SESMIC (+X)
24	GENERATED AISC GENERAL 13	9	DEAD LOAD
		11	INSTRUMENT LOADS
		2	SEISMIC (+Z)
25	GENERATED AISC GENERAL 14	9	DEAD LOAD
		11	INSTRUMENT LOADS
		3	SEISMIC (-X)
26	GENERATED AISC GENERAL 15	9	DEAD LOAD
		11	INSTRUMENT LOADS
		4	SEISMIC (-Z)
27	GENERATED AISC GENERAL 16	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		5	WIND LOAD (+X)
28	GENERATED AISC GENERAL 17	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		6	WIND LOAD (+Z)
29	GENERATED AISC GENERAL 18	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		7	WIND LOAD (-X)
30	GENERATED AISC GENERAL 19	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		8	WIND LOAD (-Z)
31	GENERATED AISC GENERAL 20	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		1	SESMIC (+X)
32	GENERATED AISC GENERAL 21	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		2	SEISMIC (+Z)
33	GENERATED AISC GENERAL 22	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		3	SEISMIC (-X)
34	GENERATED AISC GENERAL 23	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		4	SEISMIC (-Z)
35	GENERATED AISC GENERAL 24	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		1	SESMIC (+X)
36	GENERATED AISC GENERAL 25	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		2	SEISMIC (+Z)
37	GENERATED AISC GENERAL 26	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		3	SEISMIC (-X)
38	GENERATED AISC GENERAL 27	9	DEAD LOAD
		11	INSTRUMENT LOADS
		10	LIVE LOAD
		4	SEISMIC (-Z)
39	GENERATED AISC GENERAL 28	9	DEAD LOAD
		11	INSTRUMENT LOADS
		5	WIND LOAD (+X)
40	GENERATED AISC GENERAL 29	9	DEAD LOAD

41	GENERATED AISC GENERAL 30	11	INSTRUMENT LOADS
		6	WIND LOAD (+Z)
		9	DEAD LOAD
42	GENERATED AISC GENERAL 31	11	INSTRUMENT LOADS
		7	WIND LOAD (-X)
		9	DEAD LOAD
43	GENERATED AISC GENERAL 32	11	INSTRUMENT LOADS
		8	WIND LOAD (-Z)
		9	DEAD LOAD
44	GENERATED AISC GENERAL 33	11	INSTRUMENT LOADS
		1	SESMIC (+X)
		9	DEAD LOAD
45	GENERATED AISC GENERAL 34	11	INSTRUMENT LOADS
		2	SEISMIC (+Z)
		9	DEAD LOAD
46	GENERATED AISC GENERAL 35	11	INSTRUMENT LOADS
		3	SEISMIC (-X)
		9	DEAD LOAD
47	GENERATED AISC GENERAL 36	11	INSTRUMENT LOADS
		4	SEISMIC (-Z)
		9	DEAD LOAD
48	GENERATED AISC GENERAL 37	11	INSTRUMENT LOADS
		1	SESMIC (+X)
		9	DEAD LOAD
49	GENERATED AISC GENERAL 38	11	INSTRUMENT LOADS
		2	SEISMIC (+Z)
		9	DEAD LOAD
50	GENERATED AISC GENERAL 39	11	INSTRUMENT LOADS
		3	SEISMIC (-X)
		9	DEAD LOAD
		11	INSTRUMENT LOADS
		4	SEISMIC (-Z)

Seismic Loading : 1 SESMIC (+X)

Code	Direction	Factor
UBC	X	1.000

Seismic Loading : 2 SEISMIC (+Z)

Code	Direction	Factor
UBC	Z	1.000

Seismic Loading : 3 SEISMIC (-X)

Code	Direction	Factor
UBC	X	-1.000

Seismic Loading : 4 SEISMIC (-Z)

Code	Direction	Factor
UBC	Z	-1.000

Wind Loading : 5 WIND LOAD (+X)

Direction	Type	Factor
X	1	1.000

Wind Loading : 6 WIND LOAD (+Z)

Direction	Type	Factor
Z	1	1.000

Wind Loading : 7 WIND LOAD (-X)

Direction	Type	Factor
[	1	1.000

Wind Loading : 8 WIND LOAD (-Z)

Direction	Type	Factor
]	1	1.000

Selfweight : 9 DEAD LOAD

Direction	Factor
Y	-1.000

Area Loads : 10 LIVE LOAD

Load (psi)	Beams
7.11E 3	1 - 43

Beam Loads : 11 INSTRUMENT LOADS

Beam	Type	Direction	Fa	Da (mm)	Fb	Db	Ecc. (mm)
38	CON kg	GY	-50.000	-	-	-	-
	CON kg	GY	-25.000	0.000	-	-	-
39	CON kg	GY	-100.000	-	-	-	-
40	CON kg	GY	-100.000	-	-	-	-
41	CON kg	GY	-125.000	-	-	-	-

| | | | 43 | CON kg | | GY | -150.000 | 0.000 | - | - | - |

Utilization Ratio

Beam	Analysis Property	Design Property	Actual Ratio	Allowable Ratio	Ratio (Act./Allow.)	Clause	L/C	Ax (m2)	Iz (m4)	Iy (m4)	Ix (m4)
1	UPN100	N/A							0.000	0.000	0.000
2	UPN100	N/A							0.000	0.000	0.000
3	UPN100	N/A							0.000	0.000	0.000
4	UPN100	N/A							0.000	0.000	0.000
5	UPN100	N/A							0.000	0.000	0.000
6	UPN100	N/A							0.000	0.000	0.000
7	UPN100	N/A							0.000	0.000	0.000
8	UPN100	N/A							0.000	0.000	0.000
9	UPN100	N/A							0.000	0.000	0.000
10	UPN100	N/A							0.000	0.000	0.000
11	UPN100	N/A							0.000	0.000	0.000
12	UPN100	N/A							0.000	0.000	0.000
13	UPN100	N/A							0.000	0.000	0.000
14	UPN100	N/A							0.000	0.000	0.000
15	UPN100	N/A							0.000	0.000	0.000
16	UPN100	N/A							0.000	0.000	0.000
17	UPN100	N/A							0.000	0.000	0.000
18	UPN100	N/A							0.000	0.000	0.000
19	UPN100	N/A							0.000	0.000	0.000
20	UPN100	N/A							0.000	0.000	0.000
21	UPN100	N/A							0.000	0.000	0.000
22	UPN100	N/A							0.000	0.000	0.000
23	UPN100	N/A							0.000	0.000	0.000
24	UPN100	N/A							0.000	0.000	0.000
25	UPN100	N/A							0.000	0.000	0.000
26	UPN100	N/A							0.000	0.000	0.000
27	UPN100	N/A							0.000	0.000	0.000
28	UPN100	N/A							0.000	0.000	0.000
29	UPN100	N/A							0.000	0.000	0.000
30	UPN100	N/A							0.000	0.000	0.000
31	UPN100	N/A							0.000	0.000	0.000
32	UPN100	N/A							0.000	0.000	0.000
33	UPN100	N/A							0.000	0.000	0.000
34	UPN100	N/A							0.000	0.000	0.000
35	UPN100	N/A							0.000	0.000	0.000
36	UPN100	N/A							0.000	0.000	0.000
37	UPN100	N/A							0.000	0.000	0.000
38	PIPS20	N/A							0.000	0.000	0.000
39	PIPS20	N/A							0.000	0.000	0.000
40	PIPS20	N/A							0.000	0.000	0.000
41	PIPS20	N/A							0.000	0.000	0.000
42	PIPS20	N/A							0.000	0.000	0.000
43	PIPS20	N/A							0.000	0.000	0.000

Statics Check Results

L/C		FX (kg)	FY (kg)	FZ (kg)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
1:SESMIC (+X)	Loads	27.479	0.000	0.000	0.000	0.269	-0.269
1:SESMIC (+X)	Reactions	-27.479	0.000	-0.000	-0.000	-0.269	0.269
	Difference	0.000	0.000	-0.000	-0.000	-0.000	0.000
2:SEISMIC (+Z)	Loads	0.000	0.000	27.479	0.269	-1.347	0.000
2:SEISMIC (+Z)	Reactions	0.000	0.000	-27.479	-0.269	1.347	0.000
	Difference	0.000	0.000	0.000	0.000	0.000	0.000
3:SEISMIC (-X)	Loads	-27.479	0.000	0.000	0.000	-0.269	0.269
3:SEISMIC (-X)	Reactions	27.479	-0.000	0.000	0.000	0.269	-0.269
	Difference	-0.000	-0.000	0.000	0.000	0.000	-0.000

4:SEISMIC (-Z)	Loads	0.000	0.000	-27.479	-0.269	1.347	0.000
4:SEISMIC (-Z)	Reactions	-0.000	-0.000	27.479	0.269	-1.347	-0.000
	Difference	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
5:WIND LOAD	Loads	375.605	0.000	0.000	0.000	3.683	-0.826
5:WIND LOAD	Reactions	-375.605	0.000	-0.000	-0.000	-3.683	0.826
	Difference	0.000	0.000	-0.000	-0.000	-0.000	0.000
6:WIND LOAD	Loads	0.000	0.000	1.07E 3	2.229	-52.424	0.000
6:WIND LOAD	Reactions	0.000	0.000	-1.07E 3	-2.229	52.424	0.000
	Difference	0.000	0.000	0.000	0.000	0.000	0.000
7:WIND LOAD (-	Loads	375.605	0.000	0.000	0.000	3.683	-0.826
7:WIND LOAD (-	Reactions	-375.605	0.000	-0.000	-0.000	-3.683	0.826
	Difference	0.000	0.000	-0.000	-0.000	-0.000	0.000
8:WIND LOAD (-	Loads	0.000	0.000	1.07E 3	2.229	-52.424	0.000
8:WIND LOAD (-	Reactions	0.000	0.000	-1.07E 3	-2.229	52.424	0.000
	Difference	0.000	0.000	0.000	0.000	0.000	0.000
9:DEAD LOAD	Loads	0.000	-549.587	0.000	5.390	0.000	-26.948
9:DEAD LOAD	Reactions	0.000	549.587	-0.000	-5.390	0.000	26.948
	Difference	0.000	0.000	-0.000	-0.000	0.000	0.000
10:LIVE LOAD	Loads	0.000	100E 6	0.000	-981E 3	0.000	4.9E 6
10:LIVE LOAD	Reactions	-0.000	-100E 6	0.000	981E 3	-0.000	-4.9E 6
	Difference	-0.000	-0.000	0.000	0.000	-0.000	-0.205
11:INSTRUMENT	Loads	0.000	-550.000	0.000	5.394	0.000	-35.856
11:INSTRUMENT	Reactions	0.000	550.000	-0.000	-5.394	0.000	35.856
	Difference	0.000	0.000	-0.000	-0.000	0.000	0.000

Reactions

Node	L/C	Horizontal FX (kg)	Vertical FY (kg)	Horizontal FZ (kg)	MX (kN-m)	Moment MY (kN-m)	MZ (kN-m)
1	1:SESMIC (+X)	-6.870	-1.374	-0.591	0.000	0.000	0.000
	2:SEISMIC (+Z)	-8.801	-6.870	-6.870	0.000	0.000	0.000
	3:SEISMIC (-X)	6.870	1.374	0.591	0.000	0.000	0.000
	4:SEISMIC (-Z)	8.801	6.870	6.870	0.000	0.000	0.000
	5:WIND LOAD (+X)	-93.901	-4.209	-6.233	0.000	0.000	0.000
	6:WIND LOAD (+Z)	-409.272	-56.819	-267.287	0.000	0.000	0.000
	7:WIND LOAD (-X)	-93.901	-4.209	-6.233	0.000	0.000	0.000
	8:WIND LOAD (-Z)	-409.272	-56.819	-267.287	0.000	0.000	0.000
	9:DEAD LOAD	3.117	137.397	0.504	0.000	0.000	0.000
	10:LIVE LOAD	-620E 3	-25E 6	-100E 3	0.000	0.000	0.000
	11:INSTRUMENT	2.491	92.187	0.398	0.000	0.000	0.000
	12:GENERATED	5.608	229.584	0.901	0.000	0.000	0.000
	13:GENERATED	-620E 3	-25E 6	-100E 3	0.000	0.000	0.000
	14:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	15:GENERATED	-88.294	225.375	-5.332	0.000	0.000	0.000
	16:GENERATED	-403.665	172.765	-266.386	0.000	0.000	0.000
	17:GENERATED	-88.294	225.375	-5.332	0.000	0.000	0.000
	18:GENERATED	-403.665	172.765	-266.386	0.000	0.000	0.000
	19:GENERATED	0.799	228.622	0.487	0.000	0.000	0.000
	20:GENERATED	-0.553	224.775	-3.908	0.000	0.000	0.000
	21:GENERATED	10.417	230.546	1.315	0.000	0.000	0.000
	22:GENERATED	11.769	234.393	5.710	0.000	0.000	0.000
	23:GENERATED	10.417	230.546	1.315	0.000	0.000	0.000
	24:GENERATED	11.769	234.393	5.710	0.000	0.000	0.000
	25:GENERATED	0.799	228.622	0.487	0.000	0.000	0.000
	26:GENERATED	-0.553	224.775	-3.908	0.000	0.000	0.000
	27:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	28:GENERATED	-465E 3	-18.7E 6	-75.3E 3	0.000	0.000	0.000
	29:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	30:GENERATED	-465E 3	-18.7E 6	-75.3E 3	0.000	0.000	0.000
	31:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	32:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	33:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	34:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	35:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	36:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000

	37:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	38:GENERATED	-465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	39:GENERATED	-90.537	133.541	-5.692	0.000	0.000	0.000
	40:GENERATED	-405.908	80.932	-266.747	0.000	0.000	0.000
	41:GENERATED	-90.537	133.541	-5.692	0.000	0.000	0.000
	42:GENERATED	-405.908	80.932	-266.747	0.000	0.000	0.000
	43:GENERATED	-1.444	136.789	0.127	0.000	0.000	0.000
	44:GENERATED	-2.796	132.942	-4.268	0.000	0.000	0.000
	45:GENERATED	8.174	138.712	0.955	0.000	0.000	0.000
	46:GENERATED	9.526	142.559	5.350	0.000	0.000	0.000
	47:GENERATED	8.174	138.712	0.955	0.000	0.000	0.000
	48:GENERATED	9.526	142.559	5.350	0.000	0.000	0.000
	49:GENERATED	-1.444	136.789	0.127	0.000	0.000	0.000
	50:GENERATED	-2.796	132.942	-4.268	0.000	0.000	0.000
2	1:SESMIC (+X)	-6.870	-1.374	0.591	0.000	0.000	0.000
	2:SEISMIC (+Z)	8.801	6.870	-6.870	0.000	0.000	0.000
	3:SEISMIC (-X)	6.870	1.374	-0.591	0.000	0.000	0.000
	4:SEISMIC (-Z)	-8.801	-6.870	6.870	0.000	0.000	0.000
	5:WIND LOAD (+X)	-93.901	-4.209	6.233	0.000	0.000	0.000
	6:WIND LOAD (+Z)	409.272	56.819	-267.287	0.000	0.000	0.000
	7:WIND LOAD (-X)	-93.901	-4.209	6.233	0.000	0.000	0.000
	8:WIND LOAD (-Z)	409.272	56.819	-267.287	0.000	0.000	0.000
	9:DEAD LOAD	3.117	137.397	-0.504	0.000	0.000	0.000
	10:LIVE LOAD	-620E 3	-25E 6	100E 3	0.000	0.000	0.000
	11:INSTRUMENT	2.491	92.187	-0.398	0.000	0.000	0.000
	12:GENERATED	5.608	229.584	-0.901	0.000	0.000	0.000
	13:GENERATED	-620E 3	-25E 6	100E 3	0.000	0.000	0.000
	14:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	15:GENERATED	-88.294	225.375	5.332	0.000	0.000	0.000
	16:GENERATED	414.880	286.403	-268.188	0.000	0.000	0.000
	17:GENERATED	-88.294	225.375	5.332	0.000	0.000	0.000
	18:GENERATED	414.880	286.403	-268.188	0.000	0.000	0.000
	19:GENERATED	0.799	228.622	-0.487	0.000	0.000	0.000
	20:GENERATED	11.769	234.393	-5.710	0.000	0.000	0.000
	21:GENERATED	10.417	230.546	-1.315	0.000	0.000	0.000
	22:GENERATED	-0.553	224.775	3.908	0.000	0.000	0.000
	23:GENERATED	10.417	230.546	-1.315	0.000	0.000	0.000
	24:GENERATED	-0.553	224.775	3.908	0.000	0.000	0.000
	25:GENERATED	0.799	228.622	-0.487	0.000	0.000	0.000
	26:GENERATED	11.769	234.393	-5.710	0.000	0.000	0.000
	27:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	28:GENERATED	-465E 3	-18.7E 6	74.9E 3	0.000	0.000	0.000
	29:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	30:GENERATED	-465E 3	-18.7E 6	74.9E 3	0.000	0.000	0.000
	31:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	32:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	33:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	34:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	35:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	36:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	37:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	38:GENERATED	-465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	39:GENERATED	-90.537	133.541	5.692	0.000	0.000	0.000
	40:GENERATED	412.637	194.569	-267.828	0.000	0.000	0.000
	41:GENERATED	-90.537	133.541	5.692	0.000	0.000	0.000
	42:GENERATED	412.637	194.569	-267.828	0.000	0.000	0.000
	43:GENERATED	-1.444	136.789	-0.127	0.000	0.000	0.000
	44:GENERATED	9.526	142.559	-5.350	0.000	0.000	0.000
	45:GENERATED	8.174	138.712	-0.955	0.000	0.000	0.000
	46:GENERATED	-2.796	132.942	4.268	0.000	0.000	0.000
	47:GENERATED	8.174	138.712	-0.955	0.000	0.000	0.000
	48:GENERATED	-2.796	132.942	4.268	0.000	0.000	0.000
	49:GENERATED	-1.444	136.789	-0.127	0.000	0.000	0.000
	50:GENERATED	9.526	142.559	-5.350	0.000	0.000	0.000
3	1:SESMIC (+X)	-6.870	1.374	0.591	0.000	0.000	0.000
	2:SEISMIC (+Z)	8.801	-6.870	-6.870	0.000	0.000	0.000
	3:SEISMIC (-X)	6.870	-1.374	-0.591	0.000	0.000	0.000
	4:SEISMIC (-Z)	-8.801	6.870	6.870	0.000	0.000	0.000
	5:WIND LOAD (+X)	-93.901	4.209	6.233	0.000	0.000	0.000

	6:WIND LOAD (+Z)	409.273	-56.819	-267.287	0.000	0.000	0.000
	7:WIND LOAD (-X)	-93.901	4.209	6.233	0.000	0.000	0.000
	8:WIND LOAD (-Z)	409.273	-56.819	-267.287	0.000	0.000	0.000
	9:DEAD LOAD	-3.117	137.397	0.504	0.000	0.000	0.000
	10:LIVE LOAD	620E 3	-25E 6	-100E 3	0.000	0.000	0.000
	11:INSTRUMENT	-2.491	182.813	0.407	0.000	0.000	0.000
	12:GENERATED	-5.608	320.209	0.911	0.000	0.000	0.000
	13:GENERATED	620E 3	-25E 6	-100E 3	0.000	0.000	0.000
	14:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	15:GENERATED	-99.509	324.419	7.143	0.000	0.000	0.000
	16:GENERATED	403.665	263.390	-266.377	0.000	0.000	0.000
	17:GENERATED	-99.509	324.419	7.143	0.000	0.000	0.000
	18:GENERATED	403.665	263.390	-266.377	0.000	0.000	0.000
	19:GENERATED	-10.417	321.171	1.325	0.000	0.000	0.000
	20:GENERATED	0.553	315.400	-3.898	0.000	0.000	0.000
	21:GENERATED	-0.799	319.247	0.497	0.000	0.000	0.000
	22:GENERATED	-11.769	325.018	5.719	0.000	0.000	0.000
	23:GENERATED	-0.799	319.247	0.497	0.000	0.000	0.000
	24:GENERATED	-11.769	325.018	5.719	0.000	0.000	0.000
	25:GENERATED	-10.417	321.171	1.325	0.000	0.000	0.000
	26:GENERATED	0.553	315.400	-3.898	0.000	0.000	0.000
	27:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	28:GENERATED	465E 3	-18.7E 6	-75.3E 3	0.000	0.000	0.000
	29:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	30:GENERATED	465E 3	-18.7E 6	-75.3E 3	0.000	0.000	0.000
	31:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	32:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	33:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	34:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	35:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	36:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	37:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	38:GENERATED	465E 3	-18.7E 6	-75.1E 3	0.000	0.000	0.000
	39:GENERATED	-97.266	196.335	6.779	0.000	0.000	0.000
	40:GENERATED	405.908	135.307	-266.741	0.000	0.000	0.000
	41:GENERATED	-97.266	196.335	6.779	0.000	0.000	0.000
	42:GENERATED	405.908	135.307	-266.741	0.000	0.000	0.000
	43:GENERATED	-8.174	193.087	0.960	0.000	0.000	0.000
	44:GENERATED	2.796	187.317	-4.263	0.000	0.000	0.000
	45:GENERATED	1.444	191.164	0.132	0.000	0.000	0.000
	46:GENERATED	-9.526	196.934	5.355	0.000	0.000	0.000
	47:GENERATED	1.444	191.164	0.132	0.000	0.000	0.000
	48:GENERATED	-9.526	196.934	5.355	0.000	0.000	0.000
	49:GENERATED	-8.174	193.087	0.960	0.000	0.000	0.000
	50:GENERATED	2.796	187.317	-4.263	0.000	0.000	0.000
4	1:SESMIC (+X)	-6.870	1.374	-0.591	0.000	0.000	0.000
	2:SEISMIC (+Z)	-8.801	6.870	-6.870	0.000	0.000	0.000
	3:SEISMIC (-X)	6.870	-1.374	0.591	0.000	0.000	0.000
	4:SEISMIC (-Z)	8.801	-6.870	6.870	0.000	0.000	0.000
	5:WIND LOAD (+X)	-93.901	4.209	-6.233	0.000	0.000	0.000
	6:WIND LOAD (+Z)	-409.273	56.819	-267.287	0.000	0.000	0.000
	7:WIND LOAD (-X)	-93.901	4.209	-6.233	0.000	0.000	0.000
	8:WIND LOAD (-Z)	-409.273	56.819	-267.287	0.000	0.000	0.000
	9:DEAD LOAD	-3.117	137.397	-0.504	0.000	0.000	0.000
	10:LIVE LOAD	620E 3	-25E 6	100E 3	0.000	0.000	0.000
	11:INSTRUMENT	-2.491	182.813	-0.407	0.000	0.000	0.000
	12:GENERATED	-5.608	320.209	-0.911	0.000	0.000	0.000
	13:GENERATED	620E 3	-25E 6	100E 3	0.000	0.000	0.000
	14:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
	15:GENERATED	-99.509	324.419	-7.143	0.000	0.000	0.000
	16:GENERATED	-414.880	377.028	-268.198	0.000	0.000	0.000
	17:GENERATED	-99.509	324.419	-7.143	0.000	0.000	0.000
	18:GENERATED	-414.880	377.028	-268.198	0.000	0.000	0.000
	19:GENERATED	-10.417	321.171	-1.325	0.000	0.000	0.000
	20:GENERATED	-11.769	325.018	-5.719	0.000	0.000	0.000
	21:GENERATED	-0.799	319.247	-0.497	0.000	0.000	0.000
	22:GENERATED	0.553	315.400	3.898	0.000	0.000	0.000
	23:GENERATED	-0.799	319.247	-0.497	0.000	0.000	0.000
	24:GENERATED	0.553	315.400	3.898	0.000	0.000	0.000

25:GENERATED	-10.417	321.171	-1.325	0.000	0.000	0.000
26:GENERATED	-11.769	325.018	-5.719	0.000	0.000	0.000
27:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
28:GENERATED	465E 3	-18.7E 6	74.9E 3	0.000	0.000	0.000
29:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
30:GENERATED	465E 3	-18.7E 6	74.9E 3	0.000	0.000	0.000
31:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
32:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
33:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
34:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
35:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
36:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
37:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
38:GENERATED	465E 3	-18.7E 6	75.1E 3	0.000	0.000	0.000
39:GENERATED	-97.266	196.335	-6.779	0.000	0.000	0.000
40:GENERATED	-412.637	248.944	-267.834	0.000	0.000	0.000
41:GENERATED	-97.266	196.335	-6.779	0.000	0.000	0.000
42:GENERATED	-412.637	248.944	-267.834	0.000	0.000	0.000
43:GENERATED	-8.174	193.087	-0.960	0.000	0.000	0.000
44:GENERATED	-9.526	196.934	-5.355	0.000	0.000	0.000
45:GENERATED	1.444	191.164	-0.132	0.000	0.000	0.000
46:GENERATED	2.796	187.317	4.263	0.000	0.000	0.000
47:GENERATED	1.444	191.164	-0.132	0.000	0.000	0.000
48:GENERATED	2.796	187.317	4.263	0.000	0.000	0.000
49:GENERATED	-8.174	193.087	-0.960	0.000	0.000	0.000
50:GENERATED	-9.526	196.934	-5.355	0.000	0.000	0.000

Node Displacement Summary

	Node	L/C	X (m)	Y (m)	Z (m)	Resultant (m)	rX (rad)	rY (rad)	rZ (rad)
Max X	17	10:LIVE LOAD	**25.708**	155.626	-0.000	157.735	-0.000	-0.000	26.461
Min X	16	10:LIVE LOAD	**-25.708**	155.626	-0.000	157.735	-0.000	0.000	-26.461
Max Y	5	10:LIVE LOAD	0.000	**2.38E 3**	-0.002	2.38E 3	63.592	0.000	-0.000
Min Y	6	16:GENERATED	-0.000	**-0.039**	0.054	0.067	0.019	0.000	-0.000
Max Z	19	6:WIND LOAD	0.000	-0.000	**0.074**	0.074	0.019	0.000	-0.000
Min Z	24	4:SEISMIC (-Z)	-0.000	0.000	**-0.004**	0.004	-0.002	-0.000	0.000
Max rX	4	10:LIVE LOAD	0.000	0.000	0.000	0.000	**226.852**	12.050	-791.066
Min rX	3	10:LIVE LOAD	0.000	0.000	0.000	0.000	**-226.852**	-12.050	-791.066
Max rY	1	10:LIVE LOAD	0.000	0.000	0.000	0.000	-226.852	**12.050**	791.066
Min rY	2	10:LIVE LOAD	0.000	0.000	0.000	0.000	226.852	**-12.050**	791.066
Max rZ	1	10:LIVE LOAD	0.000	0.000	0.000	0.000	-226.852	12.050	**791.066**
Min rZ	3	10:LIVE LOAD	0.000	0.000	0.000	0.000	-226.852	-12.050	**-791.066**
Max Rst	5	10:LIVE LOAD	0.000	2.38E 3	-0.002	**2.38E 3**	63.592	0.000	-0.000