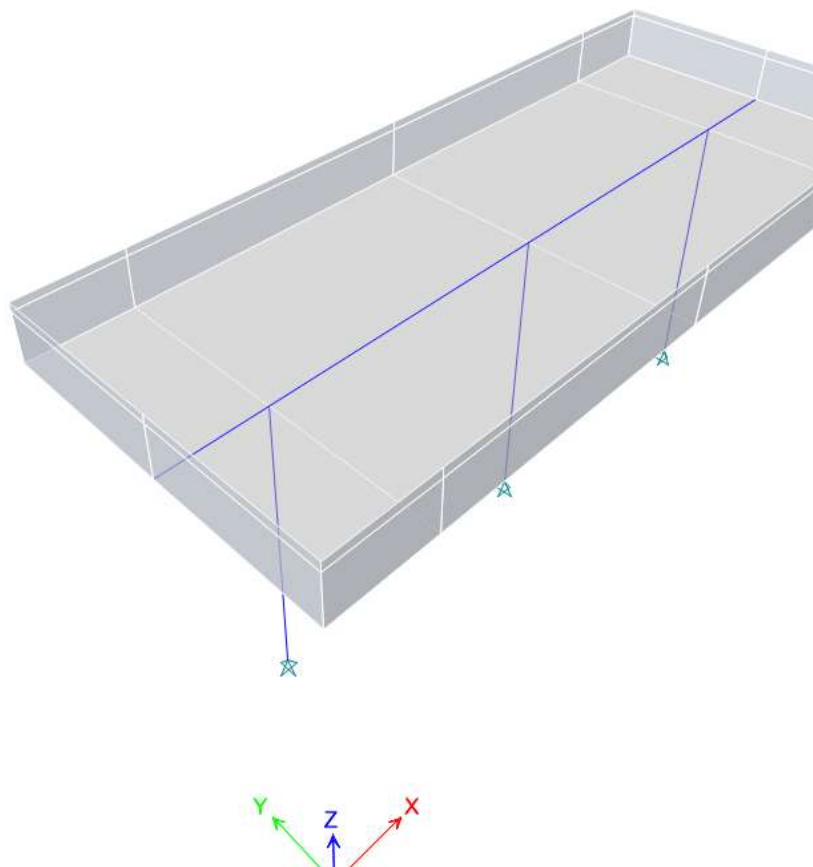




Project Report

Model File: cep, Revision 0
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1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Data

Name	Height in	Elevation in	Master Story	Similar To	Splice Story
Story3	3	129	No	None	No
Story2	18	126	No	None	No
Story1	108	108	No	None	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.2 - Grid Systems

Name	Type	Story Range	X Origin ft	Y Origin ft	Rotation deg	Bubble Size in	Color
G1	Cartesian	Default	0	0	0	30	ffa0a0a0

Table 1.3 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate ft
G1	X	A	Yes	End	0
G1	X	B	Yes	End	3
G1	X	C	Yes	End	12
G1	X	D	Yes	End	21
G1	X	E	Yes	End	24
G1	Y	1	Yes	Start	0
G1	Y	2	Yes	Start	5
G1	Y	3	Yes	Start	10

1.3 Point Coordinates

Table 1.4 - Joint Coordinates Data

Label	X in	Y in	ΔZ Below in
1	36	60	0
2	144	60	0
3	252	60	0
4	0	60	0
5	288	60	0
6	36	120	0
7	0	120	0
8	144	120	0
9	252	120	0
10	288	120	0

Table 1.4 - Joint Coordinates Data (continued)

Label	X in	Y in	ΔZ Below in
11	252	0	0
12	288	0	0
13	144	0	0
14	0	0	0
15	36	0	0

1.4 Line Connectivity

Table 1.5 - Column Connectivity Data

Column	I-End Point	J-End Point	I-End Story
C1	1	1	Below
C2	2	2	Below
C3	3	3	Below

Table 1.6 - Beam Connectivity Data

Beam	I-End Point	J-End Point	Curve Type
B1	4	1	None
B2	1	2	None
B3	2	3	None
B4	3	5	None

1.5 Area Connectivity

Table 1.7 - Floor Connectivity Data

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
F1	4	1	4	1	None
		2	1	6	None
		3	6	7	None
		4	7	4	None
F2	4	1	1	2	None
		2	2	8	None
		3	8	6	None
		4	6	1	None
F3	4	1	2	3	None
		2	3	9	None
		3	9	8	None
		4	8	2	None
F4	4	1	3	5	None
		2	5	10	None
		3	10	9	None
		4	9	3	None
F5	4	1	11	12	None

Table 1.7 - Floor Connectivity Data (continued)

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
		2	12	5	None
		3	5	3	None
		4	3	11	None
F6	4	1	13	11	None
		2	11	3	None
		3	3	2	None
		4	2	13	None
F7	4	1	14	15	None
		2	15	1	None
		3	1	4	None
		4	4	14	None
F8	4	1	15	13	None
		2	13	2	None
		3	2	1	None
		4	1	15	None

Table 1.8 - Wall Connectivity Data

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
W1	4	1	7	6	None	Below	Below
		2	6	6	None	Below	Same
		3	6	7	None	Same	Same
		4	7	7	None	Same	Below
W2	4	1	6	8	None	Below	Below
		2	8	8	None	Below	Same
		3	8	6	None	Same	Same
		4	6	6	None	Same	Below
W3	4	1	8	9	None	Below	Below
		2	9	9	None	Below	Same
		3	9	8	None	Same	Same
		4	8	8	None	Same	Below
W4	4	1	9	10	None	Below	Below
		2	10	10	None	Below	Same
		3	10	9	None	Same	Same
		4	9	9	None	Same	Below
W5	4	1	5	10	None	Below	Below
		2	10	10	None	Below	Same
		3	10	5	None	Same	Same
		4	5	5	None	Same	Below
W6	4	1	12	5	None	Below	Below
		2	5	5	None	Below	Same
		3	5	12	None	Same	Same
		4	12	12	None	Same	Below
W7	4	1	11	12	None	Below	Below

Table 1.8 - Wall Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
		2	12	12	None	Below	Same
		3	12	11	None	Same	Same
		4	11	11	None	Same	Below
W8	4	1	13	11	None	Below	Below
		2	11	11	None	Below	Same
		3	11	13	None	Same	Same
		4	13	13	None	Same	Below
W9	4	1	15	13	None	Below	Below
		2	13	13	None	Below	Same
		3	13	15	None	Same	Same
		4	15	15	None	Same	Below
W10	4	1	14	4	None	Below	Below
		2	4	4	None	Below	Same
		3	4	14	None	Same	Same
		4	14	14	None	Same	Below
W11	4	1	14	15	None	Below	Below
		2	15	15	None	Below	Same
		3	15	14	None	Same	Same
		4	14	14	None	Same	Below
W12	4	1	4	7	None	Below	Below
		2	7	7	None	Below	Same
		3	7	4	None	Same	Same
		4	4	4	None	Same	Below

1.6 Mass

Table 1.9 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault
MsSrc1	Yes	Yes	No	Yes	No	Yes	Yes

Table 1.10 - Mass Summary by Story

Story	UX lb-s ² /ft	UY lb-s ² /ft	UZ lb-s ² /ft
Story3	9.91	9.91	0
Story2	152.57	152.57	0
Story1	1018.17	1018.17	0
Base	62.94	62.94	0

1.7 Groups

Table 1.11 - Group Definitions

Name	Color
All	Yellow

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - Summary

Name	Type	E lb/in ²	v	Unit Weight lb/ft ³	Design Strengths
4000Psi	Concrete	3604996.5	0.2	150	Fc=4000 lb/in ²
A416Gr270	Tendon	28500000	0	490	Fy=245100 lb/in ² , Fu=270000 lb/in ²
A615Gr60	Rebar	29000000	0.3	490	Fy=60000 lb/in ² , Fu=90000 lb/in ²
A992Fy50	Steel	29000000	0.3	490	Fy=50000 lb/in ² , Fu=65000 lb/in ²
Concrete	Concrete	3000000	0.2	150	Fc=4000 lb/in ²
Masonry	Masonry	3600000	0.2	120	

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
A-LatBm	A992Fy50	Auto Select
column 12x12	Concrete	Concrete Rectangular
W18X50	A992Fy50	Steel I/Wide Flange
W18X55	A992Fy50	Steel I/Wide Flange
W18X60	A992Fy50	Steel I/Wide Flange
W21X55	A992Fy50	Steel I/Wide Flange
W21X57	A992Fy50	Steel I/Wide Flange
W21X62	A992Fy50	Steel I/Wide Flange
W21X68	A992Fy50	Steel I/Wide Flange
W24X62	A992Fy50	Steel I/Wide Flange
W24X76	A992Fy50	Steel I/Wide Flange
W24X84	A992Fy50	Steel I/Wide Flange
W24X94	A992Fy50	Steel I/Wide Flange
W27X102	A992Fy50	Steel I/Wide Flange
W27X114	A992Fy50	Steel I/Wide Flange
W27X129	A992Fy50	Steel I/Wide Flange
W27X94	A992Fy50	Steel I/Wide Flange
W30X108	A992Fy50	Steel I/Wide Flange
W30X116	A992Fy50	Steel I/Wide Flange
W30X124	A992Fy50	Steel I/Wide Flange
W30X132	A992Fy50	Steel I/Wide Flange
W33X130	A992Fy50	Steel I/Wide Flange
W33X141	A992Fy50	Steel I/Wide Flange
W33X152	A992Fy50	Steel I/Wide Flange
W36X150	A992Fy50	Steel I/Wide Flange
W36X160	A992Fy50	Steel I/Wide Flange
W36X170	A992Fy50	Steel I/Wide Flange
W36X182	A992Fy50	Steel I/Wide Flange

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness in
Slab1	Slab	Shell-Thin	4000Psi	8
Wall1	Wall	Shell-Thin	Masonry	9
Wallconcrete	Wall	Shell-Thin	Concrete	3

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

Name	Diameter in	Area in ²
#4	0.5	0.2
#6	0.75	0.44
#9	1.128	1

2.5 Tendon Sections

Table 2.5 - Tendon Section Properties

Name	Material	StrandArea in ²	Color
Tendon1	A416Gr270	0.153	Aqua

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

Story	Label	Unique Name	Diaphragm	Restraints
Story3	4	41	From Area	
Story3	5	36	From Area	
Story3	6	31	From Area	
Story3	7	32	From Area	
Story3	8	33	From Area	
Story3	9	34	From Area	
Story3	10	35	From Area	
Story3	11	38	From Area	
Story3	12	37	From Area	
Story3	13	39	From Area	
Story3	14	42	From Area	
Story3	15	40	From Area	
Story2	4	29	From Area	
Story2	5	24	From Area	
Story2	6	19	From Area	
Story2	7	20	From Area	
Story2	8	21	From Area	
Story2	9	22	From Area	
Story2	10	23	From Area	
Story2	11	26	From Area	
Story2	12	25	From Area	
Story2	13	27	From Area	
Story2	14	30	From Area	
Story2	15	28	From Area	
Story1	1	2	From Area	
Story1	2	4	From Area	
Story1	3	6	From Area	
Story1	4	7	From Area	
Story1	5	8	From Area	
Story1	6	9	From Area	
Story1	7	10	From Area	
Story1	8	11	From Area	
Story1	9	12	From Area	
Story1	10	13	From Area	
Story1	11	14	From Area	
Story1	12	15	From Area	
Story1	13	16	From Area	
Story1	14	17	From Area	
Story1	15	18	From Area	
Base	1	1	From Area	UX; UY; UZ
Base	2	3	From Area	UX; UY; UZ

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Base	3	5	From Area	UX; UY; UZ

3.2 Frame Assignments**Table 3.2 - Frame Assignments - Summary**

Story	Label	Unique Name	Design Type	Length in	Auto Select	Analysis Section	Design Section	Max Station Spacing in	Min Number Stations
Story1	C1	1	Column	108		column 12x12	N/A		3
Story1	C2	2	Column	108		column 12x12	N/A		3
Story1	C3	3	Column	108		column 12x12	N/A		3
Story1	B1	4	Beam	36	A-LatBm	W27X102	N/A	24	
Story1	B2	5	Beam	108	A-LatBm	W27X102	N/A	24	
Story1	B3	6	Beam	108	A-LatBm	W27X102	N/A	24	
Story1	B4	7	Beam	36	A-LatBm	W27X102	N/A	24	

3.3 Shell Assignments**Table 3.3 - Shell Assignments - Summary**

Story	Label	Unique Name	Section
Story3	W1	21	Wallconcrete
Story3	W2	22	Wallconcrete
Story3	W3	23	Wallconcrete
Story3	W4	24	Wallconcrete
Story3	W5	25	Wallconcrete
Story3	W6	26	Wallconcrete
Story3	W7	27	Wallconcrete
Story3	W8	28	Wallconcrete
Story3	W9	29	Wallconcrete
Story3	W10	30	Wallconcrete
Story3	W11	31	Wallconcrete
Story3	W12	32	Wallconcrete
Story2	W1	9	Wall1
Story2	W2	10	Wall1
Story2	W3	11	Wall1
Story2	W4	12	Wall1
Story2	W5	13	Wall1
Story2	W6	14	Wall1
Story2	W7	15	Wall1
Story2	W8	16	Wall1
Story2	W9	17	Wall1
Story2	W10	18	Wall1
Story2	W11	19	Wall1
Story2	W12	20	Wall1
Story1	F1	1	Slab1

Table 3.3 - Shell Assignments - Summary (continued)

Story	Label	Unique Name	Section
Story1	F2	2	Slab1
Story1	F3	3	Slab1
Story1	F4	4	Slab1
Story1	F5	5	Slab1
Story1	F6	6	Slab1
Story1	F7	7	Slab1
Story1	F8	8	Slab1

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Patterns

Name	Type	Self Weight Multiplier
Dead	Dead	1
Live	Live	0

4.2 Applied Loads

4.2.1 Area Loads

Table 4.2 - Shell Loads - Uniform

Story	Label	Unique Name	Load Pattern	Direction	Load lb/ft²
Story1	F1	1	Dead	Gravity	30
Story1	F2	2	Dead	Gravity	30
Story1	F3	3	Dead	Gravity	30
Story1	F4	4	Dead	Gravity	30
Story1	F5	5	Dead	Gravity	30
Story1	F6	6	Dead	Gravity	30
Story1	F7	7	Dead	Gravity	30
Story1	F8	8	Dead	Gravity	30
Story1	F1	1	Live	Gravity	60
Story1	F2	2	Live	Gravity	60
Story1	F3	3	Live	Gravity	60
Story1	F4	4	Live	Gravity	60
Story1	F5	5	Live	Gravity	60
Story1	F6	6	Live	Gravity	60
Story1	F7	7	Live	Gravity	60
Story1	F8	8	Live	Gravity	60

4.3 Load Cases

Table 4.3 - Load Cases - Summary

Name	Type
Dead	Linear Static
Live	Linear Static

4.4 Load Combinations

Table 4.4 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
dl+ll	Dead	1	Linear Add	No
dl+ll	Dead	0		No
ll+dl	Dead	1	Linear Add	No

Table 4.4 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
ll+dl	Dead	1		No

5 Analysis Results

This chapter provides analysis results.

5.1 Structure Results

Table 5.1 - Base Reactions

Load Case/Combo	FX kip	FY kip	FZ kip	MX kip-ft	MY kip-ft	MZ kip-ft	X ft	Y ft	Z ft
Dead	0	0	47.211	236.0563	-566.535	0	0	0	0
Live	0	0	14.4	72	-172.8	0	0	0	0
dl+ll	0	0	47.211	236.0563	-566.535	0	0	0	0
ll+dl	0	0	94.423	472.1125	-1133.07	0	0	0	0

5.2 Story Results

Table 5.2 - Story Drifts

Story	Load Case/Combo	Direction	Drift	Label	X ft	Y ft	Z ft
Story3	Dead	Y	0.000274	8	12	10	10.75
Story3	Live	Y	7.8E-05	8	12	10	10.75
Story3	dl+ll	Y	0.000274	8	12	10	10.75
Story3	ll+dl	Y	0.000548	8	12	10	10.75
Story2	Dead	Y	0.000275	8	12	10	10.5
Story2	Live	Y	7.9E-05	8	12	10	10.5
Story2	dl+ll	Y	0.000275	8	12	10	10.5
Story2	ll+dl	Y	0.00055	8	12	10	10.5
Story1	Dead	Y	1.4E-05	3	21	5	9
Story1	Live	Y	4E-06	3	21	5	9
Story1	dl+ll	Y	1.4E-05	3	21	5	9
Story1	ll+dl	Y	2.7E-05	3	21	5	9

Table 5.3 - Story Forces

Story	Load Case/Combo	Location	P kip	VX kip	VY kip	T kip-ft	MX kip-ft	MY kip-ft
Story3	Dead	Top	0	0	0	0	0	0
Story3	Dead	Bottom	0.637	0	0	0	3.1875	-7.65
Story3	Live	Top	0	0	0	0	0	0
Story3	Live	Bottom	0	0	0	0	0	0
Story3	dl+ll	Top	0	0	0	0	0	0
Story3	dl+ll	Bottom	0.637	0	0	0	3.1875	-7.65
Story3	ll+dl	Top	0	0	0	0	0	0
Story3	ll+dl	Bottom	1.275	0	0	0	6.375	-15.3
Story2	Dead	Top	0.637	0	0	0	3.1875	-7.65
Story2	Dead	Bottom	9.817	0	0	0	49.0875	-117.81
Story2	Live	Top	0	0	0	0	0	0
Story2	Live	Bottom	0	0	0	0	0	0
Story2	dl+ll	Top	0.637	0	0	0	3.1875	-7.65
Story2	dl+ll	Bottom	9.817	0	0	0	49.0875	-117.81
Story2	ll+dl	Top	1.275	0	0	0	6.375	-15.3

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kip	VX kip	VY kip	T kip-ft	MX kip-ft	MY kip-ft
Story2	II+dl	Bottom	19.635	0	0	0	98.175	-235.62
Story1	Dead	Top	43.161	0	0	0	215.8063	-517.935
Story1	Dead	Bottom	47.211	0	0	0	236.0563	-566.535
Story1	Live	Top	14.4	0	0	0	72	-172.8
Story1	Live	Bottom	14.4	0	0	0	72	-172.8
Story1	dl+II	Top	43.161	0	0	0	215.8063	-517.935
Story1	dl+II	Bottom	47.211	0	0	0	236.0563	-566.535
Story1	II+dl	Top	86.323	0	0	0	431.6125	-1035.87
Story1	II+dl	Bottom	94.423	0	0	0	472.1125	-1133.07

5.3 Point Results

Table 5.4 - Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX kip	FY kip	FZ kip	MX kip-ft	MY kip-ft	MZ kip-ft
Base	1	1	Dead	-0.031	0	16.39	0	0	0
Base	1	1	Live	-0.0001361	0	4.694	0	0	0
Base	1	1	dl+II	-0.031	0	16.39	0	0	0
Base	1	1	II+dl	-0.061	0	32.78	0	0	0
Base	2	3	Dead	0	0	14.431	0	0	0
Base	2	3	Live	0	0	5.011	0	0	0
Base	2	3	dl+II	0	0	14.431	0	0	0
Base	2	3	II+dl	0	0	28.862	0	0	0
Base	3	5	Dead	0.031	0	16.39	0	0	0
Base	3	5	Live	0.0001361	0	4.694	0	0	0
Base	3	5	dl+II	0.031	0	16.39	0	0	0
Base	3	5	II+dl	0.061	0	32.78	0	0	0

5.4 Modal Results

Table 5.5 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	69407.151	1.441E-05	0.0001	0
Modal	2	0.453	2.206	13.8579	192.0427
Modal	3	0.331	3.023	18.9939	360.7678
Modal	4	0.021	46.801	294.0597	86471.1357
Modal	5	0.012	80.04	502.906	252914.4059
Modal	6	0.01	101.667	638.795	408059.1013
Modal	7	0.008	122.27	768.2463	590202.3316
Modal	8	0.006	161.891	1017.1927	1034680.9596
Modal	9	0.006	164.446	1033.2442	1067593.4753
Modal	10	0.006	169.556	1065.3488	1134968.1041
Modal	11	0.005	196.623	1235.4173	1526255.8979
Modal	12	0.005	204.315	1283.7501	1648014.2199

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	69407.151	0	0.9968	0	0	0.9968	0
Modal	2	0.453	0	0	0	0	0.9968	0
Modal	3	0.331	1	0	0	1	0.9968	0
Modal	4	0.021	0	0.0032	0	1	1	0
Modal	5	0.012	0	0	0	1	1	0
Modal	6	0.01	0	2.151E-06	0	1	1	0
Modal	7	0.008	0	0	0	1	1	0
Modal	8	0.006	0	5.257E-07	0	1	1	0
Modal	9	0.006	0	0	0	1	1	0
Modal	10	0.006	0	0	0	1	1	0
Modal	11	0.005	0	0	0	1	1	0
Modal	12	0.005	0	0	0	1	1	0

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0.4997	0	0	0.4997	0	0
Modal	2	0	0	0.9999	0.4997	0	0.9999
Modal	3	0	0.4441	0	0.4997	0.4441	0.9999
Modal	4	0.4994	0	0	0.9991	0.4441	0.9999
Modal	5	0	0	0.0001	0.9991	0.4441	1
Modal	6	0.0003	0	0	0.9994	0.4441	1
Modal	7	0	0	0	0.9994	0.4441	1
Modal	8	0.0001	0	0	0.9995	0.4441	1
Modal	9	0	0.0144	0	0.9995	0.4585	1
Modal	10	0	0	0	0.9995	0.4585	1
Modal	11	0	0	0	0.9995	0.4585	1
Modal	12	0	0	6.385E-07	0.9995	0.4585	1

Table 5.7 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	100	100
Modal	Acceleration	UY	100	100
Modal	Acceleration	UZ	0	0

Table 5.8 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	69407.151	0	1	0	0
Modal	2	0.453	0	0	0	1
Modal	3	0.331	1	0	0	0
Modal	4	0.021	0	1	0	0
Modal	5	0.012	0	0	0	1
Modal	6	0.01	0	1	0	0

Table 5.8 - Modal Direction Factors (continued)

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	7	0.008	0.902	0	0	0.098
Modal	8	0.006	0	1	0	0
Modal	9	0.006	1	0	0	0
Modal	10	0.006	0.005	0	0	0.994
Modal	11	0.005	0.001	0	0	0.999
Modal	12	0.005	0	0	0	1