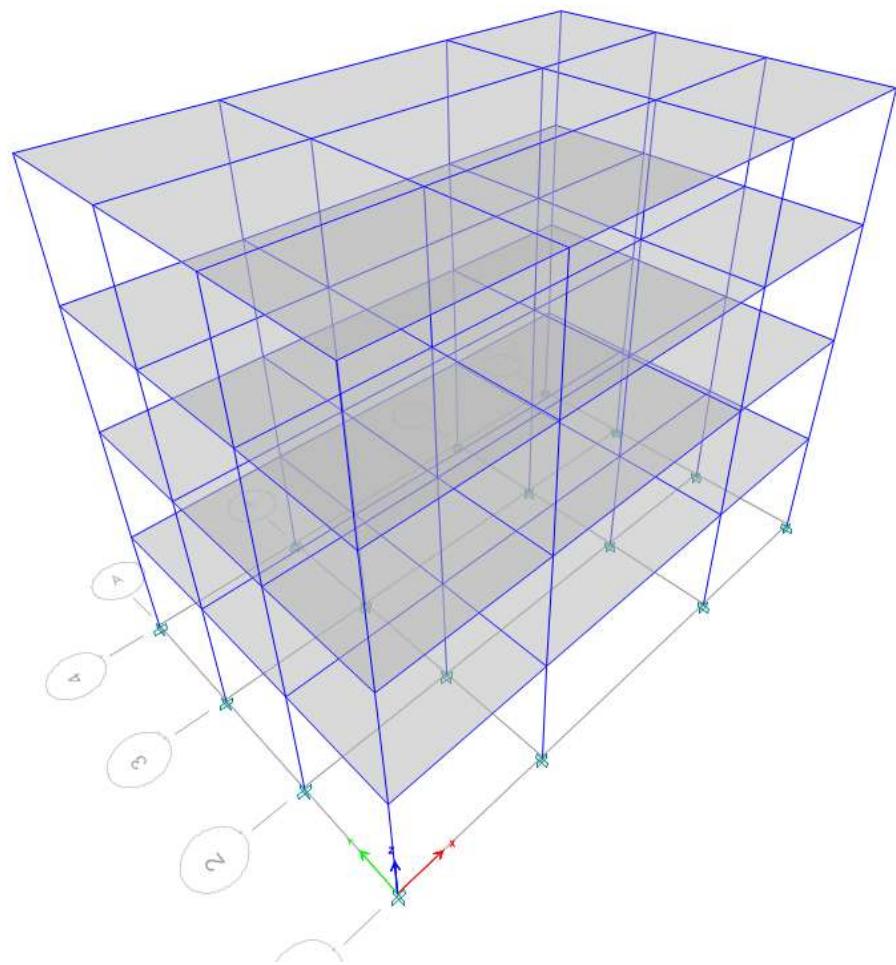


ETABS®



Project Report

Model File: G+3 structure, Revision 0
28-02-2026

Table of Contents

1. Structure Data	5
1.1 Story Data	5
1.2 Grid Data	5
1.3 Point Coordinates	5
1.4 Line Connectivity	6
1.5 Area Connectivity	7
1.6 Mass	8
2. Properties	9
2.1 Materials	9
2.2 Frame Sections	9
2.3 Shell Sections	9
2.4 Reinforcement Sizes	9
3. Loads	10
3.1 Load Patterns	10
3.2 Auto Wind Loading	10
3.3 Auto Seismic Loading	15
3.4 Load Cases	20
3.5 Load Combinations	20
4. Analysis Results	22
4.1 Structure Results	22
4.2 Story Results	22
4.3 Modal Results	40
5. Design Data	43
5.1 Concrete Frame Design	43

List of Figures

Figure 3-1 Pat 5	11
Figure 3-2 Pat 6	13
Figure 3-3 Set 1	16
Figure 3-4 Set 1	18

List of Tables

Table 1.1 Story Definitions	5
Table 1.2 Grid Definitions - General	5
Table 1.3 Grid Definitions - Grid Lines	5
Table 1.4 Point Bays	5
Table 1.5 Column Bays	6
Table 1.6 Beam Bays	6
Table 1.7 Floor Bays	7
Table 1.8 Mass Source Definition	8
Table 1.9 Mass Summary by Story	8
Table 1.10 Mass Summary by Group	8
Table 2.1 Material Properties - General	9
Table 2.2 Frame Section Property Definitions - Summary	9
Table 2.3 Area Section Property Definitions - Summary	9
Table 2.4 Reinforcing Bar Sizes	9
Table 3.1 Load Pattern Definitions	10
Table 3.2 Load Case Definitions - Summary	20
Table 3.3 Load Combination Definitions	20
Table 4.1 Base Reactions	22
Table 4.2 Story Drifts	23
Table 4.3 Story Max Over Avg Drifts	28
Table 4.4 Story Forces	33
Table 4.5 Modal Periods And Frequencies	40
Table 4.6 Modal Participating Mass Ratios	41
Table 4.7 Modal Load Participation Ratios	41
Table 4.8 Modal Direction Factors	41
Table 5.1 Concrete Frame Design Preferences - IS 456-2000	43

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 Definitions

Tower	Name	Height m	Master Story	Similar To	Splice Story	Color
T1	Story4	3	Yes	None	No	Blue
T1	Story3	3	No	Story4	No	Green
T1	Story2	3	No	Story4	No	Cyan
T1	Story1	3	No	Story4	No	Red

1.2 Grid Data

Table 1.2 - Grid Definitions - General

Tower	Name	Type	Ux m	Uy m	Rz deg	Story Range	Bubble Size mm	Color
T1	G1	Cartesian	0	0	0	Default	1250	Gray6

Table 1.3 - Grid Definitions - Grid Lines

Name	Grid Line Type	ID	Ordinate m	Bubble Location	Visible
G1	X (Cartesian)	A	0	End	Yes
G1	X (Cartesian)	B	4	End	Yes
G1	X (Cartesian)	C	10	End	Yes
G1	X (Cartesian)	D	14	End	Yes
G1	Y (Cartesian)	1	0	Start	Yes
G1	Y (Cartesian)	2	3	Start	Yes
G1	Y (Cartesian)	3	6	Start	Yes
G1	Y (Cartesian)	4	9	Start	Yes

1.3 Point Coordinates

Table 1.4 - Point Bays

Label	Is Auto Point	X m	Y m	DZBelow m
1	No	0	0	0
2	No	0	3	0
3	No	0	6	0
4	No	0	9	0
5	No	4	0	0
6	No	4	3	0
7	No	4	6	0
8	No	4	9	0
9	No	10	0	0
10	No	10	3	0
11	No	10	6	0

Table 1.4 - Point Bays (continued)

Label	Is Auto Point	X m	Y m	DZBelow m
12	No	10	9	0
13	No	14	0	0
14	No	14	3	0
15	No	14	6	0
16	No	14	9	0

1.4 Line Connectivity**Table 1.5 - Column Bays**

Label	PointBayI	PointBayJ	IEndStory
C1	1	1	Below
C2	2	2	Below
C3	3	3	Below
C4	4	4	Below
C5	5	5	Below
C6	6	6	Below
C7	7	7	Below
C8	8	8	Below
C9	9	9	Below
C10	10	10	Below
C11	11	11	Below
C12	12	12	Below
C13	13	13	Below
C14	14	14	Below
C15	15	15	Below
C16	16	16	Below

Table 1.6 - Beam Bays

Label	PointBayI	PointBayJ
B1	1	2
B2	2	3
B3	3	4
B4	5	6
B5	6	7
B6	7	8
B7	9	10
B8	10	11
B9	11	12
B10	13	14
B11	14	15
B12	15	16
B13	1	5
B14	5	9
B15	9	13
B16	2	6

Table 1.6 - Beam Bays (continued)

Label	PointBayI	PointBayJ
B17	6	10
B18	10	14
B19	3	7
B20	7	11
B21	11	15
B22	4	8
B23	8	12
B24	12	16

1.5 Area Connectivity**Table 1.7 - Floor Bays**

Label	NumPoints	PointNumber	PointBay
F1	4	1	1
F1		2	5
F1		3	6
F1		4	2
F2	4	1	2
F2		2	6
F2		3	7
F2		4	3
F3	4	1	3
F3		2	7
F3		3	8
F3		4	4
F4	4	1	5
F4		2	9
F4		3	10
F4		4	6
F5	4	1	6
F5		2	10
F5		3	11
F5		4	7
F6	4	1	7
F6		2	11
F6		3	12
F6		4	8
F7	4	1	9
F7		2	13
F7		3	14
F7		4	10
F8	4	1	10
F8		2	14
F8		3	15
F8		4	11
F9	4	1	11

Table 1.7 - Floor Bays (continued)

Label	NumPoints	PointNumber	PointBay
F9		2	15
F9		3	16
F9		4	12

1.6 Mass**Table 1.8 - Mass Source Definition**

Name	Is Default	Include Lateral Mass?	Include Vertical Mass?	Lump Mass?	Source Self Mass?	Source Added Mass?	Source Load Patterns?	Move Mass Centroid?
MsSrc1	Yes	Yes	No	Yes	Yes	Yes	No	No

Table 1.9 - Mass Summary by Story

Story	UX kg	UY kg	UZ kg
Story4	69732.92	69732.92	0
Story3	79519.31	79519.31	0
Story2	79519.31	79519.31	0
Story1	79519.31	79519.31	0
Base	9786.38	9786.38	0

Table 1.10 - Mass Summary by Group

Group	Self Mass kg	Mass X kg	Mass Y kg	Mass Z kg
All	318077.24	318077.24	318077.24	0

2 Properties

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

2.1 Materials

Table 2.1 - Material Properties - General

Material	Type	SymType	Grade	Color	Notes
DefaultTendon _{fpk1860}	Tendon	Uniaxial	Grade fpk1860	Gray8Dark	
Fe345	Steel	Isotropic	Fe345	Red	
HYSD415	Rebar	Uniaxial	HYSD Grade 415	Yellow	
M25	Concrete	Isotropic	M25	Gray8Dark	

2.2 Frame Sections

Table 2.2 - Frame Section Property Definitions - Summary (Part 1 of 3)

Name	Material	Shape		Color	Area cm ²	J cm ⁴	I33 cm ⁴	I22 cm ⁴	I23 cm ⁴	As2 cm ²	As3 cm ²
Column0.40*0.40	M25	Concrete	Rectangular	Green	1600	360666.6	213333.3	213333.3	0	1333.3	1333.3
SteelCol	Fe345	Steel	I/Wide Flange	Yellow	306.3	541.4	150638	52090.7	0	63.4	222.5

Table 2.2 - Frame Section Property Definitions - Summary (Part 2 of 3)

Name	S33Pos cm ³	S33Neg cm ³	S22Pos cm ³	S22Neg cm ³	Z33 cm ³	Z22 cm ³	R33 mm	R22 mm	Cw cm ⁶	CG Offset 3 mm	CG Offset 2 mm
Column0.40*0.40	10666.7	10666.7	10666.7	10666.7	16000	16000	115.5	115.5		0	0
SteelCol	6025.5	6025.5	2083.6	2083.6	6570.3	3142.6	221.8	130.4	29378255.2	0	0

Table 2.2 - Frame Section Property Definitions - Summary (Part 3 of 3)

Name	PNA Offset 3 mm	PNA Offset 2 mm	Area Modifier	As2 Modifier	As3 Modifier	J Modifier	I33 Modifier	I22 Modifier	Mass Modifier	Weight Modifier
Column0.40*0.40	0	0	1	1	1	1	1	1	1	1
SteelCol	0	0	1	1	1	1	1	1	1	1

2.3 Shell Sections

Table 2.3 - Area Section Property Definitions - Summary

Name	Type	Element Type	Material	Total Thickness mm	Deck Material	Deck Depth mm
Slab125	Slab	Shell-Thin	M25	125		

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

Name	Diameter mm	Area cm ²
18	18	2.5

3 Loads

This chapter provides loading information as applied to the model.

3.1 Load Patterns

Table 3.1 - Load Pattern Definitions

Name	Is Auto Load	Type	Self Weight Multiplier	Auto Load
~LLRF	Yes	Other	0	
Dead	No	Dead	1	
EX	No	Seismic	0	IS1893 2002
EY	No	Seismic	0	IS1893 2002
Live	No	Live	0	
WX	No	Wind	0	Indian IS875:1987
WY	No	Wind	0	Indian IS875:1987

3.2 Auto Wind Loading

Indian IS875:1987 Auto Wind Load Calculation

This calculation presents the automatically generated lateral wind loads for load pattern WX according to Indian IS875:1987, as calculated by ETABS.

Exposure Parameters

Exposure From = Diaphragms

Structure Class = Class B

Terrain Category = Category 2

Wind Direction = 0 degrees

Basic Wind Speed, V_b [IS Fig. 1]

$$V_b = 44 \frac{\text{meter}}{\text{sec}}$$

Windward Coefficient, $C_{p,wind}$

$$C_{p,wind} = 0.8$$

Leeward Coefficient, $C_{p,lee}$

$$C_{p,lee} = 0.5$$

Top Story = Story4

Bottom Story = Base

Include Parapet = No

Factors and Coefficients

Risk Coefficient, k_1 [IS 5.3.1]

$$k_1 = 1$$

Topography Factor, k_3 [IS 5.3.3]

$$k_3 = 1$$

Lateral Loading

Design Wind Speed, V_z [IS 5.3]

$$V_z = V_b k_1 k_2 k_3$$

$$V_z = 43.7976$$

Design Wind Pressure, p_z [IS 5.4]

$$p_z = 0.6 V_z^2$$

Applied Story Forces

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story4	12	0	0
Story3	9	0	0
Story2	6	0	0
Story1	3	0	0
Base	0	0	0

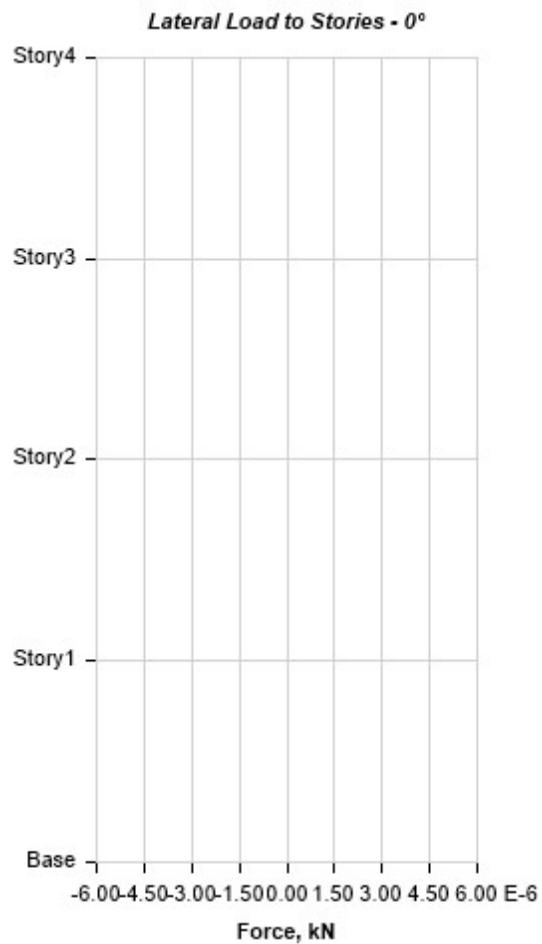


Figure 3-1-Pat 5

Indian IS875:1987 Auto Wind Load Calculation

This calculation presents the automatically generated lateral wind loads for load pattern WY according to Indian IS875:1987, as calculated by ETABS.

Exposure Parameters

Exposure From = Diaphragms

Structure Class = Class B

Terrain Category = Category 2

Wind Direction = 90 degrees

Basic Wind Speed, V_b [IS Fig. 1]

$$V_b = 44 \frac{\text{meter}}{\text{sec}}$$

Windward Coefficient, $C_{p,\text{wind}}$

$$C_{p,\text{wind}} = 0.8$$

Leeward Coefficient, $C_{p,\text{lee}}$

$$C_{p,\text{lee}} = 0.5$$

Top Story = Story4

Bottom Story = Base

Include Parapet = No

Factors and Coefficients

Risk Coefficient, k_1 [IS 5.3.1]

$$k_1 = 1$$

Topography Factor, k_3 [IS 5.3.3]

$$k_3 = 1$$

Lateral Loading

Design Wind Speed, V_z [IS 5.3]

$$V_z = V_b k_1 k_2 k_3$$

$$V_z = 43.7976$$

Design Wind Pressure, p_z [IS 5.4]

$$p_z = 0.6 V_z^2$$

Applied Story Forces

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story4	12	0	0
Story3	9	0	0
Story2	6	0	0
Story1	3	0	0
Base	0	0	0

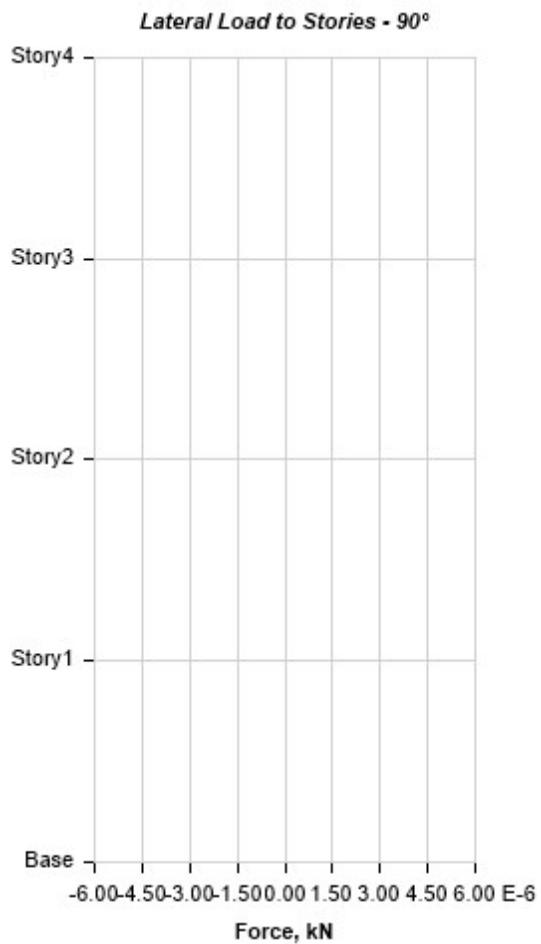


Figure 3-2-Pat 6

3.3 Auto Seismic Loading

IS1893 2002 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EX according to IS1893 2002, as calculated by ETABS.

Direction and Eccentricity

Direction = X

Structural Period

Period Calculation Method = Program Calculated

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 2] $Z = 0.36$

Response Reduction Factor, R [IS Table 7] $R = 5$

Importance Factor, I [IS Table 6] $I = 1$

Site Type [IS Table 1] = II

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.5] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

Equivalent Lateral Forces

$$\text{Seismic Coefficient, } A_h \text{ [IS 6.4.2]} \quad A_h = \frac{Z I \frac{S_a}{g}}{2 R}$$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V _b (kN)
X	0.308	3023.3006	272.097

Applied Story Forces

Story	Elevation m	X-Dir	Y-Dir
		kN	kN
Story4	12	136.1985	0
Story3	9	87.3634	0
Story2	6	38.8282	0
Story1	3	9.707	0
Base	0	0	0

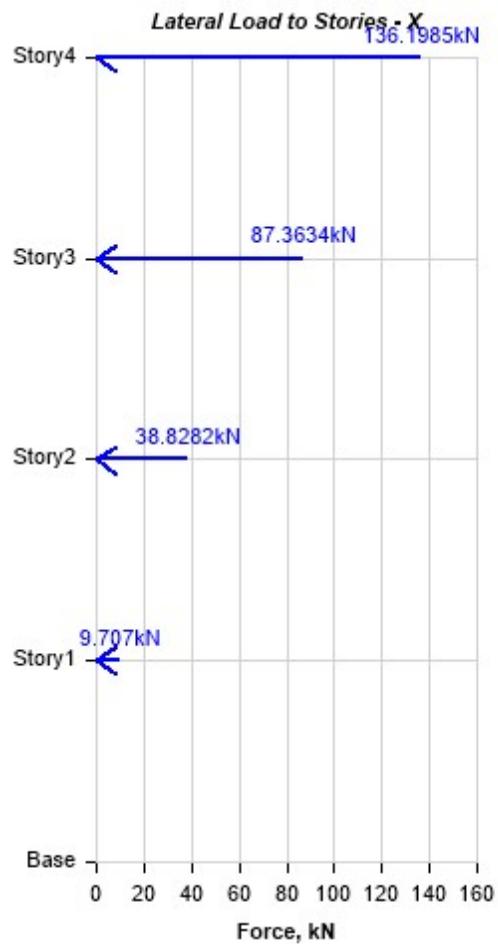


Figure 3-3-Set 1

IS1893 2002 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EY according to IS1893 2002, as calculated by ETABS.

Direction and Eccentricity

Direction = Y

Structural Period

Period Calculation Method = Program Calculated

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 2] $Z = 0.36$

Response Reduction Factor, R [IS Table 7] $R = 5$

Importance Factor, I [IS Table 6] $I = 1$

Site Type [IS Table 1] = II

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.5] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

Equivalent Lateral Forces

$$\text{Seismic Coefficient, } A_h \text{ [IS 6.4.2]} \quad A_h = \frac{Z I \frac{S_a}{g}}{2 R}$$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V _b (kN)
Y	0.306	3023.3006	272.097

Applied Story Forces

Story	Elevation m	X-Dir	Y-Dir
		kN	kN
Story4	12	0	136.1985
Story3	9	0	87.3634
Story2	6	0	38.8282
Story1	3	0	9.707
Base	0	0	0

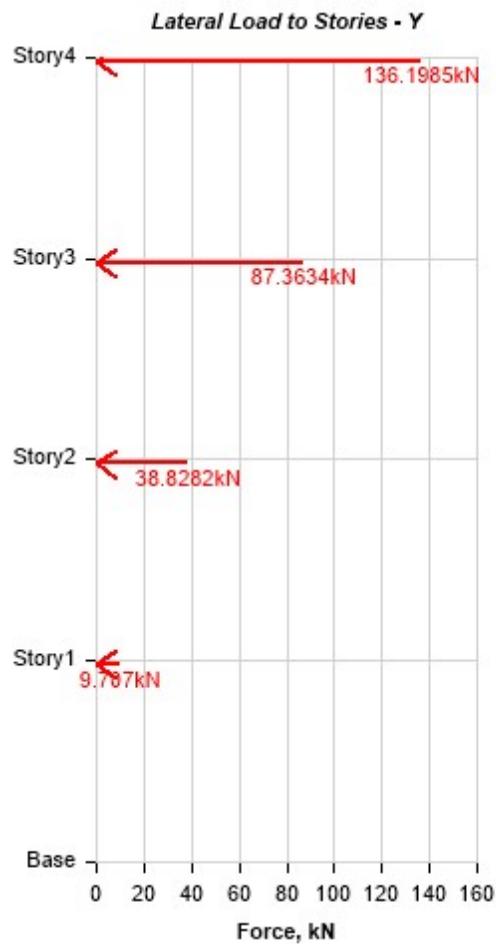


Figure 3-4-Set 1

3.4 Load Cases

Table 3.2 - Load Case Definitions - Summary

Name	Type
Dead	Linear Static
Live	Linear Static
Modal	Modal - Eigen
EX	Linear Static
EY	Linear Static
WX	Linear Static
WY	Linear Static

3.5 Load Combinations

Table 3.3 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
0.9DL+1.5EX	Linear Add	No	Dead	0.9	
0.9DL+1.5EX			EX	1.5	
0.9DL+1.5EY	Linear Add	No	Dead	0.9	
0.9DL+1.5EY			EY	1.5	
1.2DL	Linear Add	No	Dead	1	
1.2DL+LL	Linear Add	No	Dead	1.2	
1.2DL+LL			Live	1.2	
1.2DL+LL+EX	Linear Add	No	Dead	1.2	
1.2DL+LL+EX			Live	1.2	
1.2DL+LL+EX			EX	1.2	
1.2DL+LL+EY	Linear Add	No	Dead	1.2	
1.2DL+LL+EY			Live	1.2	
1.2DL+LL+EY			EY	1.2	
1.5DL	Linear Add	No	Dead	1.5	
1.5LL	Linear Add	No	Live	1.5	
DConS1	Linear Add	Yes	Dead	1.5	Dead [Strength]
DConS2	Linear Add	Yes	Dead	1.5	Dead + Live [Strength]
DConS2			Live	1.5	
DConS3	Linear Add	Yes	Dead	1.2	Dead + Live + Wind + Snow [Strength]
DConS3			Live	1.2	
DConS3			WX	1.2	
DConS4	Linear Add	Yes	Dead	1.2	Dead + Live - Wind + Snow [Strength]
DConS4			Live	1.2	
DConS4			WX	-1.2	
DConS5	Linear Add	Yes	Dead	1.2	Dead + Live + Wind + Snow [Strength]
DConS5			Live	1.2	
DConS5			WY	1.2	
DConS6	Linear Add	Yes	Dead	1.2	Dead + Live - Wind + Snow [Strength]
DConS6			Live	1.2	
DConS6			WY	-1.2	
DConS7	Linear Add	Yes	Dead	1.5	Dead + Wind [Strength]
DConS7			WX	1.5	

Table 3.3 - Load Combination Definitions (continued)

Name	Type	Is Auto	Load Name	SF	Notes
DConS8	Linear Add	Yes	Dead	1.5	Dead - Wind [Strength]
DConS8			WX	-1.5	
DConS9	Linear Add	Yes	Dead	1.5	Dead + Wind [Strength]
DConS9			WY	1.5	
DConS10	Linear Add	Yes	Dead	1.5	Dead - Wind [Strength]
DConS10			WY	-1.5	
DConS11	Linear Add	Yes	Dead	0.9	Dead (min) + Wind [Strength]
DConS11			WX	1.5	
DConS12	Linear Add	Yes	Dead	0.9	Dead (min) - Wind [Strength]
DConS12			WX	-1.5	
DConS13	Linear Add	Yes	Dead	0.9	Dead (min) + Wind [Strength]
DConS13			WY	1.5	
DConS14	Linear Add	Yes	Dead	0.9	Dead (min) - Wind [Strength]
DConS14			WY	-1.5	
DConS15	Linear Add	Yes	Dead	1.2	Dead + Live + Static Earthquake [Strength]
DConS15			Live	1.2	
DConS15			EX	1.2	
DConS16	Linear Add	Yes	Dead	1.2	Dead + Live - Static Earthquake [Strength]
DConS16			Live	1.2	
DConS16			EX	-1.2	
DConS17	Linear Add	Yes	Dead	1.2	Dead + Live + Static Earthquake [Strength]
DConS17			Live	1.2	
DConS17			EY	1.2	
DConS18	Linear Add	Yes	Dead	1.2	Dead + Live - Static Earthquake [Strength]
DConS18			Live	1.2	
DConS18			EY	-1.2	
DConS19	Linear Add	Yes	Dead	1.5	Dead + Static Earthquake [Strength]
DConS19			EX	1.5	
DConS20	Linear Add	Yes	Dead	1.5	Dead - Static Earthquake [Strength]
DConS20			EX	-1.5	
DConS21	Linear Add	Yes	Dead	1.5	Dead + Static Earthquake [Strength]
DConS21			EY	1.5	
DConS22	Linear Add	Yes	Dead	1.5	Dead - Static Earthquake [Strength]
DConS22			EY	-1.5	
DConS23	Linear Add	Yes	Dead	0.9	Dead (min) + Static Earthquake [Strength]
DConS23			EX	1.5	
DConS24	Linear Add	Yes	Dead	0.9	Dead (min) - Static Earthquake [Strength]
DConS24			EX	-1.5	
DConS25	Linear Add	Yes	Dead	0.9	Dead (min) + Static Earthquake [Strength]
DConS25			EY	1.5	
DConS26	Linear Add	Yes	Dead	0.9	Dead (min) - Static Earthquake [Strength]
DConS26			EY	-1.5	

4 Analysis Results

This chapter provides analysis results.

4.1 Structure Results

Table 4.1 - Base Reactions

Output Case	Case Type	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
Dead	LinStatic	-111	-111	6271.2722	28582.225	-44470.9055	-400	0	0	0
Live	LinStatic	0	0	2016	9072	-14112	0	0	0	0
EX	LinStatic	-1280.097	0	0	0	-10242.7421	5760.4367	0	0	0
EY	LinStatic	0	-1280.097	0	10242.7421	0	-8960.6793	0	0	0
WX	LinStatic	0	0	0	0	0	0	0	0	0
WY	LinStatic	0	0	0	0	0	0	0	0	0
1.5DL	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
1.5LL	Combination	0	0	3024	13608	-21168	0	0	0	0
1.2DL+LL	Combination	-133.2	-133.2	9944.7267	45185.07	-70299.4866	-480	0	0	0
1.2DL	Combination	-111	-111	6271.2722	28582.225	-44470.9055	-400	0	0	0
1.2DL+LL+EX	Combination	-1669.3165	-133.2	9944.7267	45185.07	-82590.7771	6432.5241	0	0	0
1.2DL+LL+EY	Combination	-133.2	-1669.3165	9944.7267	57476.3604	-70299.4866	-11232.8152	0	0	0
0.9DL+1.5EX	Combination	-2020.0456	-99.9	5644.145	25724.0025	-55387.928	8280.6551	0	0	0
0.9DL+1.5EY	Combination	-99.9	-2020.0456	5644.145	41088.1156	-40023.815	-13801.019	0	0	0
DConS1	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
DConS2	Combination	-166.5	-166.5	12430.9083	56481.3375	-87874.3583	-600	0	0	0
DConS3	Combination	-133.2	-133.2	9944.7267	45185.07	-70299.4866	-480	0	0	0
DConS4	Combination	-133.2	-133.2	9944.7267	45185.07	-70299.4866	-480	0	0	0
DConS5	Combination	-133.2	-133.2	9944.7267	45185.07	-70299.4866	-480	0	0	0
DConS6	Combination	-133.2	-133.2	9944.7267	45185.07	-70299.4866	-480	0	0	0
DConS7	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
DConS8	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
DConS9	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
DConS10	Combination	-166.5	-166.5	9406.9083	42873.3375	-66706.3583	-600	0	0	0
DConS11	Combination	-99.9	-99.9	5644.145	25724.0025	-40023.815	-360	0	0	0
DConS12	Combination	-99.9	-99.9	5644.145	25724.0025	-40023.815	-360	0	0	0
DConS13	Combination	-99.9	-99.9	5644.145	25724.0025	-40023.815	-360	0	0	0
DConS14	Combination	-99.9	-99.9	5644.145	25724.0025	-40023.815	-360	0	0	0
DConS15	Combination	-1669.3165	-133.2	9944.7267	45185.07	-82590.7771	6432.5241	0	0	0
DConS16	Combination	1402.9165	-133.2	9944.7267	45185.07	-58008.1961	-7392.5241	0	0	0
DConS17	Combination	-133.2	-1669.3165	9944.7267	57476.3604	-70299.4866	-11232.8152	0	0	0
DConS18	Combination	-133.2	1402.9165	9944.7267	32893.7795	-70299.4866	10272.8152	0	0	0
DConS19	Combination	-2086.6456	-166.5	9406.9083	42873.3375	-82070.4713	8040.6551	0	0	0
DConS20	Combination	1753.6456	-166.5	9406.9083	42873.3375	-51342.2452	-9240.6551	0	0	0
DConS21	Combination	-166.5	-2086.6456	9406.9083	58237.4505	-66706.3583	-14041.019	0	0	0
DConS22	Combination	-166.5	1753.6456	9406.9083	27509.2244	-66706.3583	12841.019	0	0	0
DConS23	Combination	-2020.0456	-99.9	5644.145	25724.0025	-55387.928	8280.6551	0	0	0
DConS24	Combination	1820.2456	-99.9	5644.145	25724.0025	-24659.7019	-9000.6551	0	0	0
DConS25	Combination	-99.9	-2020.0456	5644.145	41088.1156	-40023.815	-13801.019	0	0	0
DConS26	Combination	-99.9	1820.2456	5644.145	10359.8894	-40023.815	13081.019	0	0	0

4.2 Story Results

Table 4.2 - Story Drifts

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story4	Dead	LinStatic	X	3.2E-05	1/30944	1	0	0	12
Story4	Dead	LinStatic	Y	2.7E-05	1/36402	13	14	0	12
Story4	Live	LinStatic	Y	4.988E-07	1/0	12	10	9	12
Story4	EX	LinStatic	X	0.000588	1/1701	3	0	6	12
Story4	EY	LinStatic	Y	0.000587	1/1703	12	10	9	12
Story4	1.5DL	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	1.5DL	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	1.5LL	Combination	Y	1E-06	1/0	12	10	9	12
Story4	1.2DL+LL	Combination	X	4E-05	1/25039	1	0	0	12
Story4	1.2DL+LL	Combination	Y	3.3E-05	1/29985	13	14	0	12
Story4	1.2DL	Combination	X	3.2E-05	1/30944	1	0	0	12
Story4	1.2DL	Combination	Y	2.7E-05	1/36402	13	14	0	12
Story4	1.2DL+LL+EX	Combination	X	0.000745	1/1342	1	0	0	12
Story4	1.2DL+LL+EY	Combination	Y	0.000737	1/1357	13	14	0	12
Story4	0.9DL+1.5EX	Combination	X	0.000911	1/1098	1	0	0	12
Story4	0.9DL+1.5EY	Combination	Y	0.000904	1/1106	13	14	0	12
Story4	DConS1	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	DConS1	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	DConS2	Combination	X	5E-05	1/20031	1	0	0	12
Story4	DConS2	Combination	Y	4.2E-05	1/23988	13	14	0	12
Story4	DConS3	Combination	X	4E-05	1/25039	1	0	0	12
Story4	DConS3	Combination	Y	3.3E-05	1/29985	13	14	0	12
Story4	DConS4	Combination	X	4E-05	1/25039	1	0	0	12
Story4	DConS4	Combination	Y	3.3E-05	1/29985	13	14	0	12
Story4	DConS5	Combination	X	4E-05	1/25039	1	0	0	12
Story4	DConS5	Combination	Y	3.3E-05	1/29985	13	14	0	12
Story4	DConS6	Combination	X	4E-05	1/25039	1	0	0	12
Story4	DConS6	Combination	Y	3.3E-05	1/29985	13	14	0	12
Story4	DConS7	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	DConS7	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	DConS8	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	DConS8	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	DConS9	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	DConS9	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	DConS10	Combination	X	4.8E-05	1/20629	1	0	0	12
Story4	DConS10	Combination	Y	4.1E-05	1/24268	13	14	0	12
Story4	DConS11	Combination	X	2.9E-05	1/34382	1	0	0	12
Story4	DConS11	Combination	Y	2.5E-05	1/40447	13	14	0	12
Story4	DConS12	Combination	X	2.9E-05	1/34382	1	0	0	12
Story4	DConS12	Combination	Y	2.5E-05	1/40447	13	14	0	12
Story4	DConS13	Combination	X	2.9E-05	1/34382	1	0	0	12
Story4	DConS13	Combination	Y	2.5E-05	1/40447	13	14	0	12
Story4	DConS14	Combination	X	2.9E-05	1/34382	1	0	0	12
Story4	DConS14	Combination	Y	2.5E-05	1/40447	13	14	0	12

Table 4.2 - Story Drifts (continued)

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story4	DConS15	Combination	X	0.000745	1/1342	1	0	0	12
Story4	DConS16	Combination	X	0.000682	1/1465	16	14	9	12
Story4	DConS17	Combination	Y	0.000737	1/1357	13	14	0	12
Story4	DConS18	Combination	Y	0.000688	1/1454	4	0	9	12
Story4	DConS19	Combination	X	0.00093	1/1075	1	0	0	12
Story4	DConS20	Combination	X	0.000852	1/1174	16	14	9	12
Story4	DConS21	Combination	Y	0.000921	1/1086	13	14	0	12
Story4	DConS22	Combination	Y	0.000859	1/1164	4	0	9	12
Story4	DConS23	Combination	X	0.000911	1/1098	1	0	0	12
Story4	DConS24	Combination	X	0.000864	1/1158	16	14	9	12
Story4	DConS25	Combination	Y	0.000904	1/1106	13	14	0	12
Story4	DConS26	Combination	Y	0.000867	1/1153	4	0	9	12
Story3	Dead	LinStatic	X	5.4E-05	1/18586	13	14	0	9
Story3	Dead	LinStatic	Y	5.1E-05	1/19552	16	14	9	9
Story3	Live	LinStatic	X	6.382E-08	1/0	14	14	3	9
Story3	Live	LinStatic	Y	2.394E-08	1/0	5	4	0	9
Story3	EX	LinStatic	X	0.001039	1/963	7	4	6	9
Story3	EY	LinStatic	Y	0.001022	1/979	10	10	3	9
Story3	1.5DL	Combination	X	8.1E-05	1/12391	13	14	0	9
Story3	1.5DL	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	1.5LL	Combination	X	9.574E-08	1/0	14	14	3	9
Story3	1.5LL	Combination	Y	3.591E-08	1/0	5	4	0	9
Story3	1.2DL+LL	Combination	X	6.5E-05	1/15477	13	14	0	9
Story3	1.2DL+LL	Combination	Y	6.1E-05	1/16289	16	14	9	9
Story3	1.2DL	Combination	X	5.4E-05	1/18586	13	14	0	9
Story3	1.2DL	Combination	Y	5.1E-05	1/19552	16	14	9	9
Story3	1.2DL+LL+EX	Combination	X	0.001311	1/763	9	10	0	9
Story3	1.2DL+LL+EY	Combination	Y	0.001287	1/777	15	14	6	9
Story3	0.9DL+1.5EX	Combination	X	0.001606	1/623	9	10	0	9
Story3	0.9DL+1.5EY	Combination	Y	0.001578	1/634	15	14	6	9
Story3	DConS1	Combination	X	8.1E-05	1/12391	13	14	0	9
Story3	DConS1	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	DConS2	Combination	X	8.1E-05	1/12381	13	14	0	9
Story3	DConS2	Combination	Y	7.7E-05	1/13031	16	14	9	9
Story3	DConS3	Combination	X	6.5E-05	1/15477	13	14	0	9
Story3	DConS3	Combination	Y	6.1E-05	1/16289	16	14	9	9
Story3	DConS4	Combination	X	6.5E-05	1/15477	13	14	0	9
Story3	DConS4	Combination	Y	6.1E-05	1/16289	16	14	9	9
Story3	DConS5	Combination	X	6.5E-05	1/15477	13	14	0	9
Story3	DConS5	Combination	Y	6.1E-05	1/16289	16	14	9	9
Story3	DConS6	Combination	X	6.5E-05	1/15477	13	14	0	9
Story3	DConS6	Combination	Y	6.1E-05	1/16289	16	14	9	9
Story3	DConS7	Combination	X	8.1E-05	1/12391	13	14	0	9
Story3	DConS7	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	DConS8	Combination	X	8.1E-05	1/12391	13	14	0	9

Table 4.2 - Story Drifts (continued)

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story3	DConS8	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	DConS9	Combination	X	8.1E-05	1/12391	13	14	0	9
Story3	DConS9	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	DConS10	Combination	X	8.1E-05	1/12391	13	14	0	9
Story3	DConS10	Combination	Y	7.7E-05	1/13035	16	14	9	9
Story3	DConS11	Combination	X	4.8E-05	1/20651	13	14	0	9
Story3	DConS11	Combination	Y	4.6E-05	1/21725	16	14	9	9
Story3	DConS12	Combination	X	4.8E-05	1/20651	13	14	0	9
Story3	DConS12	Combination	Y	4.6E-05	1/21725	16	14	9	9
Story3	DConS13	Combination	X	4.8E-05	1/20651	13	14	0	9
Story3	DConS13	Combination	Y	4.6E-05	1/21725	16	14	9	9
Story3	DConS14	Combination	X	4.8E-05	1/20651	13	14	0	9
Story3	DConS14	Combination	Y	4.6E-05	1/21725	16	14	9	9
Story3	DConS15	Combination	X	0.001311	1/763	9	10	0	9
Story3	DConS16	Combination	X	0.001197	1/835	8	4	9	9
Story3	DConS17	Combination	Y	0.001287	1/777	15	14	6	9
Story3	DConS18	Combination	Y	0.001188	1/842	2	0	3	9
Story3	DConS19	Combination	X	0.001638	1/610	9	10	0	9
Story3	DConS20	Combination	X	0.001496	1/668	8	4	9	9
Story3	DConS21	Combination	Y	0.001608	1/622	15	14	6	9
Story3	DConS22	Combination	Y	0.001485	1/674	2	0	3	9
Story3	DConS23	Combination	X	0.001606	1/623	9	10	0	9
Story3	DConS24	Combination	X	0.001521	1/658	8	4	9	9
Story3	DConS25	Combination	Y	0.001578	1/634	15	14	6	9
Story3	DConS26	Combination	Y	0.001503	1/665	2	0	3	9
Story2	Dead	LinStatic	X	7.7E-05	1/13005	1	0	0	6
Story2	Dead	LinStatic	Y	7.5E-05	1/13368	13	14	0	6
Story2	Live	LinStatic	X	2.529E-07	1/0	3	0	6	6
Story2	Live	LinStatic	Y	7.228E-08	1/0	12	10	9	6
Story2	EX	LinStatic	X	0.001413	1/708	4	0	9	6
Story2	EY	LinStatic	Y	0.00138	1/725	12	10	9	6
Story2	1.5DL	Combination	X	0.000115	1/8670	1	0	0	6
Story2	1.5DL	Combination	Y	0.000112	1/8912	13	14	0	6
Story2	1.5LL	Combination	X	3.793E-07	1/0	3	0	6	6
Story2	1.5LL	Combination	Y	1.084E-07	1/0	12	10	9	6
Story2	1.2DL+LL	Combination	X	9.2E-05	1/10812	1	0	0	6
Story2	1.2DL+LL	Combination	Y	9E-05	1/11132	13	14	0	6
Story2	1.2DL	Combination	X	7.7E-05	1/13005	1	0	0	6
Story2	1.2DL	Combination	Y	7.5E-05	1/13368	13	14	0	6
Story2	1.2DL+LL+EX	Combination	X	0.001788	1/559	1	0	0	6
Story2	1.2DL+LL+EY	Combination	Y	0.001746	1/573	13	14	0	6
Story2	0.9DL+1.5EX	Combination	X	0.002188	1/457	1	0	0	6
Story2	0.9DL+1.5EY	Combination	Y	0.002137	1/468	13	14	0	6
Story2	DConS1	Combination	X	0.000115	1/8670	1	0	0	6
Story2	DConS1	Combination	Y	0.000112	1/8912	13	14	0	6

Table 4.2 - Story Drifts (continued)

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story2	DConS2	Combination	X	0.000116	1/8650	1	0	0	6
Story2	DConS2	Combination	Y	0.000112	1/8906	13	14	0	6
Story2	DConS3	Combination	X	9.2E-05	1/10812	1	0	0	6
Story2	DConS3	Combination	Y	9E-05	1/11132	13	14	0	6
Story2	DConS4	Combination	X	9.2E-05	1/10812	1	0	0	6
Story2	DConS4	Combination	Y	9E-05	1/11132	13	14	0	6
Story2	DConS5	Combination	X	9.2E-05	1/10812	1	0	0	6
Story2	DConS5	Combination	Y	9E-05	1/11132	13	14	0	6
Story2	DConS6	Combination	X	9.2E-05	1/10812	1	0	0	6
Story2	DConS6	Combination	Y	9E-05	1/11132	13	14	0	6
Story2	DConS7	Combination	X	0.000115	1/8670	1	0	0	6
Story2	DConS7	Combination	Y	0.000112	1/8912	13	14	0	6
Story2	DConS8	Combination	X	0.000115	1/8670	1	0	0	6
Story2	DConS8	Combination	Y	0.000112	1/8912	13	14	0	6
Story2	DConS9	Combination	X	0.000115	1/8670	1	0	0	6
Story2	DConS9	Combination	Y	0.000112	1/8912	13	14	0	6
Story2	DConS10	Combination	X	0.000115	1/8670	1	0	0	6
Story2	DConS10	Combination	Y	0.000112	1/8912	13	14	0	6
Story2	DConS11	Combination	X	6.9E-05	1/14450	1	0	0	6
Story2	DConS11	Combination	Y	6.7E-05	1/14853	13	14	0	6
Story2	DConS12	Combination	X	6.9E-05	1/14450	1	0	0	6
Story2	DConS12	Combination	Y	6.7E-05	1/14853	13	14	0	6
Story2	DConS13	Combination	X	6.9E-05	1/14450	1	0	0	6
Story2	DConS13	Combination	Y	6.7E-05	1/14853	13	14	0	6
Story2	DConS14	Combination	X	6.9E-05	1/14450	1	0	0	6
Story2	DConS14	Combination	Y	6.7E-05	1/14853	13	14	0	6
Story2	DConS15	Combination	X	0.001788	1/559	1	0	0	6
Story2	DConS16	Combination	X	0.001625	1/615	16	14	9	6
Story2	DConS17	Combination	Y	0.001746	1/573	13	14	0	6
Story2	DConS18	Combination	Y	0.001599	1/626	4	0	9	6
Story2	DConS19	Combination	X	0.002234	1/448	1	0	0	6
Story2	DConS20	Combination	X	0.002031	1/492	16	14	9	6
Story2	DConS21	Combination	Y	0.002182	1/458	13	14	0	6
Story2	DConS22	Combination	Y	0.001998	1/500	4	0	9	6
Story2	DConS23	Combination	X	0.002188	1/457	1	0	0	6
Story2	DConS24	Combination	X	0.002066	1/484	16	14	9	6
Story2	DConS25	Combination	Y	0.002137	1/468	13	14	0	6
Story2	DConS26	Combination	Y	0.002027	1/493	4	0	9	6
Story1	Dead	LinStatic	X	8.1E-05	1/12289	13	14	0	3
Story1	Dead	LinStatic	Y	8.3E-05	1/12117	16	14	9	3
Story1	Live	LinStatic	X	3.858E-07	1/0	15	14	6	3
Story1	Live	LinStatic	Y	1.418E-07	1/0	9	10	0	3
Story1	EX	LinStatic	X	0.00144	1/694	7	4	6	3
Story1	EY	LinStatic	Y	0.001422	1/703	10	10	3	3
Story1	1.5DL	Combination	X	0.000122	1/8193	13	14	0	3

Table 4.2 - Story Drifts (continued)

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story1	1.5DL	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	1.5LL	Combination	X	1E-06	1/0	15	14	6	3
Story1	1.5LL	Combination	Y	2.127E-07	1/0	9	10	0	3
Story1	1.2DL+LL	Combination	X	9.8E-05	1/10204	13	14	0	3
Story1	1.2DL+LL	Combination	Y	9.9E-05	1/10086	16	14	9	3
Story1	1.2DL	Combination	X	8.1E-05	1/12289	13	14	0	3
Story1	1.2DL	Combination	Y	8.3E-05	1/12117	16	14	9	3
Story1	1.2DL+LL+EX	Combination	X	0.001824	1/548	9	10	0	3
Story1	1.2DL+LL+EY	Combination	Y	0.001799	1/556	15	14	6	3
Story1	0.9DL+1.5EX	Combination	X	0.002231	1/448	9	10	0	3
Story1	0.9DL+1.5EY	Combination	Y	0.0022	1/455	11	10	6	3
Story1	DConS1	Combination	X	0.000122	1/8193	13	14	0	3
Story1	DConS1	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	DConS2	Combination	X	0.000123	1/8163	13	14	0	3
Story1	DConS2	Combination	Y	0.000124	1/8069	16	14	9	3
Story1	DConS3	Combination	X	9.8E-05	1/10204	13	14	0	3
Story1	DConS3	Combination	Y	9.9E-05	1/10086	16	14	9	3
Story1	DConS4	Combination	X	9.8E-05	1/10204	13	14	0	3
Story1	DConS4	Combination	Y	9.9E-05	1/10086	16	14	9	3
Story1	DConS5	Combination	X	9.8E-05	1/10204	13	14	0	3
Story1	DConS5	Combination	Y	9.9E-05	1/10086	16	14	9	3
Story1	DConS6	Combination	X	9.8E-05	1/10204	13	14	0	3
Story1	DConS6	Combination	Y	9.9E-05	1/10086	16	14	9	3
Story1	DConS7	Combination	X	0.000122	1/8193	13	14	0	3
Story1	DConS7	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	DConS8	Combination	X	0.000122	1/8193	13	14	0	3
Story1	DConS8	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	DConS9	Combination	X	0.000122	1/8193	13	14	0	3
Story1	DConS9	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	DConS10	Combination	X	0.000122	1/8193	13	14	0	3
Story1	DConS10	Combination	Y	0.000124	1/8078	16	14	9	3
Story1	DConS11	Combination	X	7.3E-05	1/13654	13	14	0	3
Story1	DConS11	Combination	Y	7.4E-05	1/13463	16	14	9	3
Story1	DConS12	Combination	X	7.3E-05	1/13654	13	14	0	3
Story1	DConS12	Combination	Y	7.4E-05	1/13463	16	14	9	3
Story1	DConS13	Combination	X	7.3E-05	1/13654	13	14	0	3
Story1	DConS13	Combination	Y	7.4E-05	1/13463	16	14	9	3
Story1	DConS14	Combination	X	7.3E-05	1/13654	13	14	0	3
Story1	DConS14	Combination	Y	7.4E-05	1/13463	16	14	9	3
Story1	DConS15	Combination	X	0.001824	1/548	9	10	0	3
Story1	DConS16	Combination	X	0.001652	1/605	8	4	9	3
Story1	DConS17	Combination	Y	0.001799	1/556	15	14	6	3
Story1	DConS18	Combination	Y	0.001636	1/611	2	0	3	3
Story1	DConS19	Combination	X	0.00228	1/439	9	10	0	3
Story1	DConS20	Combination	X	0.002065	1/484	8	4	9	3

Table 4.2 - Story Drifts (continued)

Story	Output Case	Case Type	Direction	Drift	Drift/	Label	X m	Y m	Z m
Story1	DConS21	Combination	Y	0.002249	1/445	15	14	6	3
Story1	DConS22	Combination	Y	0.002044	1/489	2	0	3	3
Story1	DConS23	Combination	X	0.002231	1/448	9	10	0	3
Story1	DConS24	Combination	X	0.002102	1/476	8	4	9	3
Story1	DConS25	Combination	Y	0.0022	1/455	11	10	6	3
Story1	DConS26	Combination	Y	0.002077	1/481	6	4	3	3

Table 4.3 - Story Max Over Avg Drifts

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story4	Dead	LinStatic	X	0.097	0.079	1.234
Story4	Dead	LinStatic	Y	0.082	0.062	1.332
Story4	Live	LinStatic	Y	0.001	0	106100000000000
Story4	EX	LinStatic	X	1.764	1.763	1
Story4	EY	LinStatic	Y	1.762	1.76	1.001
Story4	1.5DL	Combination	X	0.145	0.118	1.234
Story4	1.5DL	Combination	Y	0.124	0.093	1.332
Story4	1.5LL	Combination	Y	0.002	0	106200000000000
Story4	1.2DL+LL	Combination	X	0.12	0.094	1.271
Story4	1.2DL+LL	Combination	Y	0.1	0.074	1.347
Story4	1.2DL	Combination	X	0.097	0.079	1.234
Story4	1.2DL	Combination	Y	0.082	0.062	1.332
Story4	1.2DL+LL+EX	Combination	X	2.236	2.21	1.012
Story4	1.2DL+LL+EY	Combination	Y	2.211	2.185	1.012
Story4	0.9DL+1.5EX	Combination	X	2.732	2.716	1.006
Story4	0.9DL+1.5EY	Combination	Y	2.713	2.695	1.007
Story4	DConS1	Combination	X	0.145	0.118	1.234
Story4	DConS1	Combination	Y	0.124	0.093	1.332
Story4	DConS2	Combination	X	0.15	0.118	1.271
Story4	DConS2	Combination	Y	0.125	0.093	1.347
Story4	DConS3	Combination	X	0.12	0.094	1.271
Story4	DConS3	Combination	Y	0.1	0.074	1.347
Story4	DConS4	Combination	X	0.12	0.094	1.271
Story4	DConS4	Combination	Y	0.1	0.074	1.347
Story4	DConS5	Combination	X	0.12	0.094	1.271
Story4	DConS5	Combination	Y	0.1	0.074	1.347
Story4	DConS6	Combination	X	0.12	0.094	1.271
Story4	DConS6	Combination	Y	0.1	0.074	1.347
Story4	DConS7	Combination	X	0.145	0.118	1.234
Story4	DConS7	Combination	Y	0.124	0.093	1.332
Story4	DConS8	Combination	X	0.145	0.118	1.234
Story4	DConS8	Combination	Y	0.124	0.093	1.332
Story4	DConS9	Combination	X	0.145	0.118	1.234
Story4	DConS9	Combination	Y	0.124	0.093	1.332

Table 4.3 - Story Max Over Avg Drifts (continued)

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story4	DConS10	Combination	X	0.145	0.118	1.234
Story4	DConS10	Combination	Y	0.124	0.093	1.332
Story4	DConS11	Combination	X	0.087	0.071	1.234
Story4	DConS11	Combination	Y	0.074	0.056	1.332
Story4	DConS12	Combination	X	0.087	0.071	1.234
Story4	DConS12	Combination	Y	0.074	0.056	1.332
Story4	DConS13	Combination	X	0.087	0.071	1.234
Story4	DConS13	Combination	Y	0.074	0.056	1.332
Story4	DConS14	Combination	X	0.087	0.071	1.234
Story4	DConS14	Combination	Y	0.074	0.056	1.332
Story4	DConS15	Combination	X	2.236	2.21	1.012
Story4	DConS16	Combination	X	2.047	2.022	1.013
Story4	DConS17	Combination	Y	2.211	2.185	1.012
Story4	DConS18	Combination	Y	2.063	2.037	1.013
Story4	DConS19	Combination	X	2.791	2.763	1.01
Story4	DConS20	Combination	X	2.555	2.527	1.011
Story4	DConS21	Combination	Y	2.762	2.732	1.011
Story4	DConS22	Combination	Y	2.577	2.546	1.012
Story4	DConS23	Combination	X	2.732	2.716	1.006
Story4	DConS24	Combination	X	2.591	2.574	1.006
Story4	DConS25	Combination	Y	2.713	2.695	1.007
Story4	DConS26	Combination	Y	2.602	2.583	1.007
Story3	Dead	LinStatic	X	0.161	0.142	1.137
Story3	Dead	LinStatic	Y	0.153	0.124	1.242
Story3	Live	LinStatic	X	0.0001915	0	3642000000000
Story3	Live	LinStatic	Y	7.181E-05	0	6218000000000
Story3	EX	LinStatic	X	3.116	3.115	1
Story3	EY	LinStatic	Y	3.065	3.064	1
Story3	1.5DL	Combination	X	0.242	0.213	1.137
Story3	1.5DL	Combination	Y	0.23	0.185	1.242
Story3	1.5LL	Combination	X	0.0002872	0	3642000000000
Story3	1.5LL	Combination	Y	0.0001077	0	6218000000000
Story3	1.2DL+LL	Combination	X	0.194	0.17	1.138
Story3	1.2DL+LL	Combination	Y	0.184	0.148	1.242
Story3	1.2DL	Combination	X	0.161	0.142	1.137
Story3	1.2DL	Combination	Y	0.153	0.124	1.242
Story3	1.2DL+LL+EX	Combination	X	3.932	3.908	1.006
Story3	1.2DL+LL+EY	Combination	Y	3.86	3.824	1.009
Story3	0.9DL+1.5EX	Combination	X	4.818	4.8	1.004
Story3	0.9DL+1.5EY	Combination	Y	4.733	4.706	1.006
Story3	DConS1	Combination	X	0.242	0.213	1.137
Story3	DConS1	Combination	Y	0.23	0.185	1.242
Story3	DConS2	Combination	X	0.242	0.213	1.138
Story3	DConS2	Combination	Y	0.23	0.185	1.242

Table 4.3 - Story Max Over Avg Drifts (continued)

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story3	DConS3	Combination	X	0.194	0.17	1.138
Story3	DConS3	Combination	Y	0.184	0.148	1.242
Story3	DConS4	Combination	X	0.194	0.17	1.138
Story3	DConS4	Combination	Y	0.184	0.148	1.242
Story3	DConS5	Combination	X	0.194	0.17	1.138
Story3	DConS5	Combination	Y	0.184	0.148	1.242
Story3	DConS6	Combination	X	0.194	0.17	1.138
Story3	DConS6	Combination	Y	0.184	0.148	1.242
Story3	DConS7	Combination	X	0.242	0.213	1.137
Story3	DConS7	Combination	Y	0.23	0.185	1.242
Story3	DConS8	Combination	X	0.242	0.213	1.137
Story3	DConS8	Combination	Y	0.23	0.185	1.242
Story3	DConS9	Combination	X	0.242	0.213	1.137
Story3	DConS9	Combination	Y	0.23	0.185	1.242
Story3	DConS10	Combination	X	0.242	0.213	1.137
Story3	DConS10	Combination	Y	0.23	0.185	1.242
Story3	DConS11	Combination	X	0.145	0.128	1.137
Story3	DConS11	Combination	Y	0.138	0.111	1.242
Story3	DConS12	Combination	X	0.145	0.128	1.137
Story3	DConS12	Combination	Y	0.138	0.111	1.242
Story3	DConS13	Combination	X	0.145	0.128	1.137
Story3	DConS13	Combination	Y	0.138	0.111	1.242
Story3	DConS14	Combination	X	0.145	0.128	1.137
Story3	DConS14	Combination	Y	0.138	0.111	1.242
Story3	DConS15	Combination	X	3.932	3.908	1.006
Story3	DConS16	Combination	X	3.591	3.568	1.007
Story3	DConS17	Combination	Y	3.86	3.824	1.009
Story3	DConS18	Combination	Y	3.563	3.527	1.01
Story3	DConS19	Combination	X	4.915	4.885	1.006
Story3	DConS20	Combination	X	4.489	4.459	1.007
Story3	DConS21	Combination	Y	4.825	4.78	1.009
Story3	DConS22	Combination	Y	4.454	4.409	1.01
Story3	DConS23	Combination	X	4.818	4.8	1.004
Story3	DConS24	Combination	X	4.562	4.545	1.004
Story3	DConS25	Combination	Y	4.733	4.706	1.006
Story3	DConS26	Combination	Y	4.51	4.483	1.006
Story2	Dead	LinStatic	X	0.231	0.204	1.133
Story2	Dead	LinStatic	Y	0.224	0.184	1.221
Story2	Live	LinStatic	X	0.001	0	7354000000000
Story2	Live	LinStatic	Y	0.0002169	0	2821000000000
Story2	EX	LinStatic	X	4.238	4.237	1
Story2	EY	LinStatic	Y	4.14	4.139	1
Story2	1.5DL	Combination	X	0.346	0.305	1.133
Story2	1.5DL	Combination	Y	0.337	0.276	1.221

Table 4.3 - Story Max Over Avg Drifts (continued)

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story2	1.5LL	Combination	X	0.001	0	73480000000000
Story2	1.5LL	Combination	Y	0.0003253	0	28210000000000
Story2	1.2DL+LL	Combination	X	0.277	0.244	1.136
Story2	1.2DL+LL	Combination	Y	0.269	0.221	1.222
Story2	1.2DL	Combination	X	0.231	0.204	1.133
Story2	1.2DL	Combination	Y	0.224	0.184	1.221
Story2	1.2DL+LL+EX	Combination	X	5.363	5.328	1.006
Story2	1.2DL+LL+EY	Combination	Y	5.237	5.187	1.01
Story2	0.9DL+1.5EX	Combination	X	6.564	6.538	1.004
Story2	0.9DL+1.5EY	Combination	Y	6.411	6.373	1.006
Story2	DConS1	Combination	X	0.346	0.305	1.133
Story2	DConS1	Combination	Y	0.337	0.276	1.221
Story2	DConS2	Combination	X	0.347	0.305	1.136
Story2	DConS2	Combination	Y	0.337	0.276	1.222
Story2	DConS3	Combination	X	0.277	0.244	1.136
Story2	DConS3	Combination	Y	0.269	0.221	1.222
Story2	DConS4	Combination	X	0.277	0.244	1.136
Story2	DConS4	Combination	Y	0.269	0.221	1.222
Story2	DConS5	Combination	X	0.277	0.244	1.136
Story2	DConS5	Combination	Y	0.269	0.221	1.222
Story2	DConS6	Combination	X	0.277	0.244	1.136
Story2	DConS6	Combination	Y	0.269	0.221	1.222
Story2	DConS7	Combination	X	0.346	0.305	1.133
Story2	DConS7	Combination	Y	0.337	0.276	1.221
Story2	DConS8	Combination	X	0.346	0.305	1.133
Story2	DConS8	Combination	Y	0.337	0.276	1.221
Story2	DConS9	Combination	X	0.346	0.305	1.133
Story2	DConS9	Combination	Y	0.337	0.276	1.221
Story2	DConS10	Combination	X	0.346	0.305	1.133
Story2	DConS10	Combination	Y	0.337	0.276	1.221
Story2	DConS11	Combination	X	0.208	0.183	1.133
Story2	DConS11	Combination	Y	0.202	0.165	1.221
Story2	DConS12	Combination	X	0.208	0.183	1.133
Story2	DConS12	Combination	Y	0.202	0.165	1.221
Story2	DConS13	Combination	X	0.208	0.183	1.133
Story2	DConS13	Combination	Y	0.202	0.165	1.221
Story2	DConS14	Combination	X	0.208	0.183	1.133
Story2	DConS14	Combination	Y	0.202	0.165	1.221
Story2	DConS15	Combination	X	5.363	5.328	1.006
Story2	DConS16	Combination	X	4.874	4.84	1.007
Story2	DConS17	Combination	Y	5.237	5.187	1.01
Story2	DConS18	Combination	Y	4.796	4.746	1.01
Story2	DConS19	Combination	X	6.703	6.66	1.006
Story2	DConS20	Combination	X	6.092	6.05	1.007

Table 4.3 - Story Max Over Avg Drifts (continued)

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story2	DConS21	Combination	Y	6.546	6.484	1.01
Story2	DConS22	Combination	Y	5.994	5.932	1.01
Story2	DConS23	Combination	X	6.564	6.538	1.004
Story2	DConS24	Combination	X	6.198	6.172	1.004
Story2	DConS25	Combination	Y	6.411	6.373	1.006
Story2	DConS26	Combination	Y	6.08	6.043	1.006
Story1	Dead	LinStatic	X	0.244	0.215	1.136
Story1	Dead	LinStatic	Y	0.248	0.205	1.209
Story1	Live	LinStatic	X	0.001	0	177900000000000
Story1	Live	LinStatic	Y	0.0004254	0	80730000000000
Story1	EX	LinStatic	X	4.321	4.316	1.001
Story1	EY	LinStatic	Y	4.266	4.257	1.002
Story1	1.5DL	Combination	X	0.366	0.322	1.136
Story1	1.5DL	Combination	Y	0.371	0.307	1.209
Story1	1.5LL	Combination	X	0.002	0	178000000000000
Story1	1.5LL	Combination	Y	0.001	0	80750000000000
Story1	1.2DL+LL	Combination	X	0.294	0.258	1.14
Story1	1.2DL+LL	Combination	Y	0.297	0.246	1.21
Story1	1.2DL	Combination	X	0.244	0.215	1.136
Story1	1.2DL	Combination	Y	0.248	0.205	1.209
Story1	1.2DL+LL+EX	Combination	X	5.473	5.434	1.007
Story1	1.2DL+LL+EY	Combination	Y	5.398	5.345	1.01
Story1	0.9DL+1.5EX	Combination	X	6.694	6.664	1.004
Story1	0.9DL+1.5EY	Combination	Y	6.6	6.559	1.006
Story1	DConS1	Combination	X	0.366	0.322	1.136
Story1	DConS1	Combination	Y	0.371	0.307	1.209
Story1	DConS2	Combination	X	0.368	0.322	1.14
Story1	DConS2	Combination	Y	0.372	0.307	1.21
Story1	DConS3	Combination	X	0.294	0.258	1.14
Story1	DConS3	Combination	Y	0.297	0.246	1.21
Story1	DConS4	Combination	X	0.294	0.258	1.14
Story1	DConS4	Combination	Y	0.297	0.246	1.21
Story1	DConS5	Combination	X	0.294	0.258	1.14
Story1	DConS5	Combination	Y	0.297	0.246	1.21
Story1	DConS6	Combination	X	0.294	0.258	1.14
Story1	DConS6	Combination	Y	0.297	0.246	1.21
Story1	DConS7	Combination	X	0.366	0.322	1.136
Story1	DConS7	Combination	Y	0.371	0.307	1.209
Story1	DConS8	Combination	X	0.366	0.322	1.136
Story1	DConS8	Combination	Y	0.371	0.307	1.209
Story1	DConS9	Combination	X	0.366	0.322	1.136
Story1	DConS9	Combination	Y	0.371	0.307	1.209
Story1	DConS10	Combination	X	0.366	0.322	1.136
Story1	DConS10	Combination	Y	0.371	0.307	1.209

Table 4.3 - Story Max Over Avg Drifts (continued)

Story	Output Case	Case Type	Direction	Max Drift mm	Avg Drift mm	Ratio
Story1	DConS11	Combination	X	0.22	0.193	1.136
Story1	DConS11	Combination	Y	0.223	0.184	1.209
Story1	DConS12	Combination	X	0.22	0.193	1.136
Story1	DConS12	Combination	Y	0.223	0.184	1.209
Story1	DConS13	Combination	X	0.22	0.193	1.136
Story1	DConS13	Combination	Y	0.223	0.184	1.209
Story1	DConS14	Combination	X	0.22	0.193	1.136
Story1	DConS14	Combination	Y	0.223	0.184	1.209
Story1	DConS15	Combination	X	5.473	5.434	1.007
Story1	DConS16	Combination	X	4.957	4.918	1.008
Story1	DConS17	Combination	Y	5.398	5.345	1.01
Story1	DConS18	Combination	Y	4.907	4.853	1.011
Story1	DConS19	Combination	X	6.84	6.793	1.007
Story1	DConS20	Combination	X	6.195	6.148	1.008
Story1	DConS21	Combination	Y	6.748	6.681	1.01
Story1	DConS22	Combination	Y	6.133	6.067	1.011
Story1	DConS23	Combination	X	6.694	6.664	1.004
Story1	DConS24	Combination	X	6.307	6.277	1.005
Story1	DConS25	Combination	Y	6.6	6.559	1.006
Story1	DConS26	Combination	Y	6.232	6.19	1.007

Table 4.4 - Story Forces

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story4	Dead	LinStatic	Top	1196.6248	-15	-15	-64	5374.3114	-8384.3733
Story4	Dead	LinStatic	Bottom	1580.5681	-15	-15	-64	7147.0562	-11116.9764
Story4	Live	LinStatic	Top	504	0	0	0	2268	-3528
Story4	Live	LinStatic	Bottom	504	0	0	0	2268	-3528
Story4	EX	LinStatic	Top	0	-388.1985	0	1746.8931	0	0
Story4	EX	LinStatic	Bottom	0	-388.1985	0	1746.8931	0	-1164.5954
Story4	EY	LinStatic	Top	0	0	-388.1985	-2717.3892	0	0
Story4	EY	LinStatic	Bottom	0	0	-388.1985	-2717.3892	1164.5954	0
Story4	WX	LinStatic	Top	0	0	0	0	0	0
Story4	WX	LinStatic	Bottom	0	0	0	0	0	0
Story4	WY	LinStatic	Top	0	0	0	0	0	0
Story4	WY	LinStatic	Bottom	0	0	0	0	0	0
Story4	1.5DL	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	1.5DL	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	1.5LL	Combination	Top	756	0	0	0	3402	-5292
Story4	1.5LL	Combination	Bottom	756	0	0	0	3402	-5292
Story4	1.2DL+LL	Combination	Top	2040.7497	-18	-18	-76.8	9170.7737	-14294.8479
Story4	1.2DL+LL	Combination	Bottom	2501.4817	-18	-18	-76.8	11298.0675	-17573.9717
Story4	1.2DL	Combination	Top	1196.6248	-15	-15	-64	5374.3114	-8384.3733
Story4	1.2DL	Combination	Bottom	1580.5681	-15	-15	-64	7147.0562	-11116.9764

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story4	1.2DL+LL+EX	Combination	Top	2040.7497	-483.8381	-18	2019.4717	9170.7737	-14294.8479
Story4	1.2DL+LL+EX	Combination	Bottom	2501.4817	-483.8381	-18	2019.4717	11298.0675	-18971.4861
Story4	1.2DL+LL+EY	Combination	Top	2040.7497	-18	-483.8381	-3337.667	9170.7737	-14294.8479
Story4	1.2DL+LL+EY	Combination	Bottom	2501.4817	-18	-483.8381	-3337.667	12695.5819	-17573.9717
Story4	0.9DL+1.5EX	Combination	Top	1076.9623	-595.7977	-13.5	2562.7396	4836.8802	-7545.9359
Story4	0.9DL+1.5EX	Combination	Bottom	1422.5112	-595.7977	-13.5	2562.7396	6432.3506	-11752.1718
Story4	0.9DL+1.5EY	Combination	Top	1076.9623	-13.5	-595.7977	-4133.6838	4836.8802	-7545.9359
Story4	0.9DL+1.5EY	Combination	Bottom	1422.5112	-13.5	-595.7977	-4133.6838	8179.2437	-10005.2787
Story4	DConS1	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	DConS1	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	DConS2	Combination	Top	2550.9371	-22.5	-22.5	-96	11463.4671	-17868.5599
Story4	DConS2	Combination	Bottom	3126.8521	-22.5	-22.5	-96	14122.5844	-21967.4646
Story4	DConS3	Combination	Top	2040.7497	-18	-18	-76.8	9170.7737	-14294.8479
Story4	DConS3	Combination	Bottom	2501.4817	-18	-18	-76.8	11298.0675	-17573.9717
Story4	DConS4	Combination	Top	2040.7497	-18	-18	-76.8	9170.7737	-14294.8479
Story4	DConS4	Combination	Bottom	2501.4817	-18	-18	-76.8	11298.0675	-17573.9717
Story4	DConS5	Combination	Top	2040.7497	-18	-18	-76.8	9170.7737	-14294.8479
Story4	DConS5	Combination	Bottom	2501.4817	-18	-18	-76.8	11298.0675	-17573.9717
Story4	DConS6	Combination	Top	2040.7497	-18	-18	-76.8	9170.7737	-14294.8479
Story4	DConS6	Combination	Bottom	2501.4817	-18	-18	-76.8	11298.0675	-17573.9717
Story4	DConS7	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	DConS7	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	DConS8	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	DConS8	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	DConS9	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	DConS9	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	DConS10	Combination	Top	1794.9371	-22.5	-22.5	-96	8061.4671	-12576.5599
Story4	DConS10	Combination	Bottom	2370.8521	-22.5	-22.5	-96	10720.5844	-16675.4646
Story4	DConS11	Combination	Top	1076.9623	-13.5	-13.5	-57.6	4836.8802	-7545.9359
Story4	DConS11	Combination	Bottom	1422.5112	-13.5	-13.5	-57.6	6432.3506	-10005.2787
Story4	DConS12	Combination	Top	1076.9623	-13.5	-13.5	-57.6	4836.8802	-7545.9359
Story4	DConS12	Combination	Bottom	1422.5112	-13.5	-13.5	-57.6	6432.3506	-10005.2787
Story4	DConS13	Combination	Top	1076.9623	-13.5	-13.5	-57.6	4836.8802	-7545.9359
Story4	DConS13	Combination	Bottom	1422.5112	-13.5	-13.5	-57.6	6432.3506	-10005.2787
Story4	DConS14	Combination	Top	1076.9623	-13.5	-13.5	-57.6	4836.8802	-7545.9359
Story4	DConS14	Combination	Bottom	1422.5112	-13.5	-13.5	-57.6	6432.3506	-10005.2787
Story4	DConS15	Combination	Top	2040.7497	-483.8381	-18	2019.4717	9170.7737	-14294.8479
Story4	DConS15	Combination	Bottom	2501.4817	-483.8381	-18	2019.4717	11298.0675	-18971.4861
Story4	DConS16	Combination	Top	2040.7497	447.8381	-18	-2173.0717	9170.7737	-14294.8479
Story4	DConS16	Combination	Bottom	2501.4817	447.8381	-18	-2173.0717	11298.0675	-16176.4572
Story4	DConS17	Combination	Top	2040.7497	-18	-483.8381	-3337.667	9170.7737	-14294.8479
Story4	DConS17	Combination	Bottom	2501.4817	-18	-483.8381	-3337.667	12695.5819	-17573.9717
Story4	DConS18	Combination	Top	2040.7497	-18	447.8381	3184.067	9170.7737	-14294.8479
Story4	DConS18	Combination	Bottom	2501.4817	-18	447.8381	3184.067	9900.553	-17573.9717
Story4	DConS19	Combination	Top	1794.9371	-604.7977	-22.5	2524.3396	8061.4671	-12576.5599

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story4	DConS19	Combination	Bottom	2370.8521	-604.7977	-22.5	2524.3396	10720.5844	-18422.3576
Story4	DConS20	Combination	Top	1794.9371	559.7977	-22.5	-2716.3396	8061.4671	-12576.5599
Story4	DConS20	Combination	Bottom	2370.8521	559.7977	-22.5	-2716.3396	10720.5844	-14928.5715
Story4	DConS21	Combination	Top	1794.9371	-22.5	-604.7977	-4172.0838	8061.4671	-12576.5599
Story4	DConS21	Combination	Bottom	2370.8521	-22.5	-604.7977	-4172.0838	12467.4774	-16675.4646
Story4	DConS22	Combination	Top	1794.9371	-22.5	559.7977	3980.0838	8061.4671	-12576.5599
Story4	DConS22	Combination	Bottom	2370.8521	-22.5	559.7977	3980.0838	8973.6913	-16675.4646
Story4	DConS23	Combination	Top	1076.9623	-595.7977	-13.5	2562.7396	4836.8802	-7545.9359
Story4	DConS23	Combination	Bottom	1422.5112	-595.7977	-13.5	2562.7396	6432.3506	-11752.1718
Story4	DConS24	Combination	Top	1076.9623	568.7977	-13.5	-2677.9396	4836.8802	-7545.9359
Story4	DConS24	Combination	Bottom	1422.5112	568.7977	-13.5	-2677.9396	6432.3506	-8258.3857
Story4	DConS25	Combination	Top	1076.9623	-13.5	-595.7977	-4133.6838	4836.8802	-7545.9359
Story4	DConS25	Combination	Bottom	1422.5112	-13.5	-595.7977	-4133.6838	8179.2437	-10005.2787
Story4	DConS26	Combination	Top	1076.9623	-13.5	568.7977	4018.4838	4836.8802	-7545.9359
Story4	DConS26	Combination	Bottom	1422.5112	-13.5	568.7977	4018.4838	4685.4576	-10005.2787
Story3	Dead	LinStatic	Top	2776.1928	-31	-31	-120	12511.3676	-19502.3496
Story3	Dead	LinStatic	Bottom	3160.1361	-31	-31	-120	14332.1125	-22282.9528
Story3	Live	LinStatic	Top	1008	0	0	0	4536	-7056
Story3	Live	LinStatic	Bottom	1008	0	0	0	4536	-7056
Story3	EX	LinStatic	Top	0	-727.5618	0	3274.0283	0	-1164.5954
Story3	EX	LinStatic	Bottom	0	-727.5618	0	3274.0283	0	-3347.2809
Story3	EY	LinStatic	Top	0	0	-727.5618	-5092.9329	1164.5954	0
Story3	EY	LinStatic	Bottom	0	0	-727.5618	-5092.9329	3347.2809	0
Story3	WX	LinStatic	Top	0	0	0	0	0	0
Story3	WX	LinStatic	Bottom	0	0	0	0	0	0
Story3	WY	LinStatic	Top	0	0	0	0	0	0
Story3	WY	LinStatic	Bottom	0	0	0	0	0	0
Story3	1.5DL	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	1.5DL	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291
Story3	1.5LL	Combination	Top	1512	0	0	0	6804	-10584
Story3	1.5LL	Combination	Bottom	1512	0	0	0	6804	-10584
Story3	1.2DL+LL	Combination	Top	4541.0314	-37.2	-37.2	-144	20456.8411	-31870.0196
Story3	1.2DL+LL	Combination	Bottom	5001.7633	-37.2	-37.2	-144	22641.735	-35206.7433
Story3	1.2DL	Combination	Top	2776.1928	-31	-31	-120	12511.3676	-19502.3496
Story3	1.2DL	Combination	Bottom	3160.1361	-31	-31	-120	14332.1125	-22282.9528
Story3	1.2DL+LL+EX	Combination	Top	4541.0314	-910.2742	-37.2	3784.8339	20456.8411	-33267.534
Story3	1.2DL+LL+EX	Combination	Bottom	5001.7633	-910.2742	-37.2	3784.8339	22641.735	-39223.4804
Story3	1.2DL+LL+EY	Combination	Top	4541.0314	-37.2	-910.2742	-6255.5194	21854.3556	-31870.0196
Story3	1.2DL+LL+EY	Combination	Bottom	5001.7633	-37.2	-910.2742	-6255.5194	26658.472	-35206.7433
Story3	0.9DL+1.5EX	Combination	Top	2498.5735	-1119.2428	-27.9	4803.0424	11260.2309	-19299.0077
Story3	0.9DL+1.5EX	Combination	Bottom	2844.1225	-1119.2428	-27.9	4803.0424	12898.9012	-25075.5788
Story3	0.9DL+1.5EY	Combination	Top	2498.5735	-27.9	-1119.2428	-7747.3993	13007.1239	-17552.1147
Story3	0.9DL+1.5EY	Combination	Bottom	2844.1225	-27.9	-1119.2428	-7747.3993	17919.8226	-20054.6575
Story3	DConS1	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	DConS1	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story3	DConS2	Combination	Top	5676.2892	-46.5	-46.5	-180	25571.0514	-39837.5244
Story3	DConS2	Combination	Bottom	6252.2042	-46.5	-46.5	-180	28302.1687	-44008.4291
Story3	DConS3	Combination	Top	4541.0314	-37.2	-37.2	-144	20456.8411	-31870.0196
Story3	DConS3	Combination	Bottom	5001.7633	-37.2	-37.2	-144	22641.735	-35206.7433
Story3	DConS4	Combination	Top	4541.0314	-37.2	-37.2	-144	20456.8411	-31870.0196
Story3	DConS4	Combination	Bottom	5001.7633	-37.2	-37.2	-144	22641.735	-35206.7433
Story3	DConS5	Combination	Top	4541.0314	-37.2	-37.2	-144	20456.8411	-31870.0196
Story3	DConS5	Combination	Bottom	5001.7633	-37.2	-37.2	-144	22641.735	-35206.7433
Story3	DConS6	Combination	Top	4541.0314	-37.2	-37.2	-144	20456.8411	-31870.0196
Story3	DConS6	Combination	Bottom	5001.7633	-37.2	-37.2	-144	22641.735	-35206.7433
Story3	DConS7	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	DConS7	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291
Story3	DConS8	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	DConS8	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291
Story3	DConS9	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	DConS9	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291
Story3	DConS10	Combination	Top	4164.2892	-46.5	-46.5	-180	18767.0514	-29253.5244
Story3	DConS10	Combination	Bottom	4740.2042	-46.5	-46.5	-180	21498.1687	-33424.4291
Story3	DConS11	Combination	Top	2498.5735	-27.9	-27.9	-108	11260.2309	-17552.1147
Story3	DConS11	Combination	Bottom	2844.1225	-27.9	-27.9	-108	12898.9012	-20054.6575
Story3	DConS12	Combination	Top	2498.5735	-27.9	-27.9	-108	11260.2309	-17552.1147
Story3	DConS12	Combination	Bottom	2844.1225	-27.9	-27.9	-108	12898.9012	-20054.6575
Story3	DConS13	Combination	Top	2498.5735	-27.9	-27.9	-108	11260.2309	-17552.1147
Story3	DConS13	Combination	Bottom	2844.1225	-27.9	-27.9	-108	12898.9012	-20054.6575
Story3	DConS14	Combination	Top	2498.5735	-27.9	-27.9	-108	11260.2309	-17552.1147
Story3	DConS14	Combination	Bottom	2844.1225	-27.9	-27.9	-108	12898.9012	-20054.6575
Story3	DConS15	Combination	Top	4541.0314	-910.2742	-37.2	3784.8339	20456.8411	-33267.534
Story3	DConS15	Combination	Bottom	5001.7633	-910.2742	-37.2	3784.8339	22641.735	-39223.4804
Story3	DConS16	Combination	Top	4541.0314	835.8742	-37.2	-4072.8339	20456.8411	-30472.5051
Story3	DConS16	Combination	Bottom	5001.7633	835.8742	-37.2	-4072.8339	22641.735	-31190.0062
Story3	DConS17	Combination	Top	4541.0314	-37.2	-910.2742	-6255.5194	21854.3556	-31870.0196
Story3	DConS17	Combination	Bottom	5001.7633	-37.2	-910.2742	-6255.5194	26658.472	-35206.7433
Story3	DConS18	Combination	Top	4541.0314	-37.2	835.8742	5967.5194	19059.3267	-31870.0196
Story3	DConS18	Combination	Bottom	5001.7633	-37.2	835.8742	5967.5194	18624.9979	-35206.7433
Story3	DConS19	Combination	Top	4164.2892	-1137.8428	-46.5	4731.0424	18767.0514	-31000.4175
Story3	DConS19	Combination	Bottom	4740.2042	-1137.8428	-46.5	4731.0424	21498.1687	-38445.3505
Story3	DConS20	Combination	Top	4164.2892	1044.8428	-46.5	-5091.0424	18767.0514	-27506.6314
Story3	DConS20	Combination	Bottom	4740.2042	1044.8428	-46.5	-5091.0424	21498.1687	-28403.5078
Story3	DConS21	Combination	Top	4164.2892	-46.5	-1137.8428	-7819.3993	20513.9445	-29253.5244
Story3	DConS21	Combination	Bottom	4740.2042	-46.5	-1137.8428	-7819.3993	26519.0901	-33424.4291
Story3	DConS22	Combination	Top	4164.2892	-46.5	1044.8428	7459.3993	17020.1584	-29253.5244
Story3	DConS22	Combination	Bottom	4740.2042	-46.5	1044.8428	7459.3993	16477.2474	-33424.4291
Story3	DConS23	Combination	Top	2498.5735	-1119.2428	-27.9	4803.0424	11260.2309	-19299.0077
Story3	DConS23	Combination	Bottom	2844.1225	-1119.2428	-27.9	4803.0424	12898.9012	-25075.5788
Story3	DConS24	Combination	Top	2498.5735	1063.4428	-27.9	-5019.0424	11260.2309	-15805.2216

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story3	DConS24	Combination	Bottom	2844.1225	1063.4428	-27.9	-5019.0424	12898.9012	-15033.7362
Story3	DConS25	Combination	Top	2498.5735	-27.9	-1119.2428	-7747.3993	13007.1239	-17552.1147
Story3	DConS25	Combination	Bottom	2844.1225	-27.9	-1119.2428	-7747.3993	17919.8226	-20054.6575
Story3	DConS26	Combination	Top	2498.5735	-27.9	1063.4428	7531.3993	9513.3378	-17552.1147
Story3	DConS26	Combination	Bottom	2844.1225	-27.9	1063.4428	7531.3993	7877.9799	-20054.6575
Story2	Dead	LinStatic	Top	4355.7609	-47	-47	-176	19696.4239	-30668.326
Story2	Dead	LinStatic	Bottom	4739.7042	-47	-47	-176	21565.1687	-33496.9291
Story2	Live	LinStatic	Top	1512	0	0	0	6804	-10584
Story2	Live	LinStatic	Bottom	1512	0	0	0	6804	-10584
Story2	EX	LinStatic	Top	0	-1018.39	0	4582.755	0	-3347.2809
Story2	EX	LinStatic	Bottom	0	-1018.39	0	4582.755	0	-6402.4509
Story2	EY	LinStatic	Top	0	0	-1018.39	-7128.7301	3347.2809	0
Story2	EY	LinStatic	Bottom	0	0	-1018.39	-7128.7301	6402.4509	0
Story2	WX	LinStatic	Top	0	0	0	0	0	0
Story2	WX	LinStatic	Bottom	0	0	0	0	0	0
Story2	WY	LinStatic	Top	0	0	0	0	0	0
Story2	WY	LinStatic	Bottom	0	0	0	0	0	0
Story2	1.5DL	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	1.5DL	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	1.5LL	Combination	Top	2268	0	0	0	10206	-15876
Story2	1.5LL	Combination	Bottom	2268	0	0	0	10206	-15876
Story2	1.2DL+LL	Combination	Top	7041.313	-56.4	-56.4	-211.2	31800.5086	-49502.7912
Story2	1.2DL+LL	Combination	Bottom	7502.045	-56.4	-56.4	-211.2	34043.0025	-52897.115
Story2	1.2DL	Combination	Top	4355.7609	-47	-47	-176	19696.4239	-30668.326
Story2	1.2DL	Combination	Bottom	4739.7042	-47	-47	-176	21565.1687	-33496.9291
Story2	1.2DL+LL+EX	Combination	Top	7041.313	-1278.468	-56.4	5288.106	31800.5086	-53519.5283
Story2	1.2DL+LL+EX	Combination	Bottom	7502.045	-1278.468	-56.4	5288.106	34043.0025	-60580.056
Story2	1.2DL+LL+EY	Combination	Top	7041.313	-56.4	-1278.468	-8765.6761	35817.2457	-49502.7912
Story2	1.2DL+LL+EY	Combination	Bottom	7502.045	-56.4	-1278.468	-8765.6761	41725.9436	-52897.115
Story2	0.9DL+1.5EX	Combination	Top	3920.1848	-1569.885	-42.3	6715.7325	17726.7815	-32622.4147
Story2	0.9DL+1.5EX	Combination	Bottom	4265.7337	-1569.885	-42.3	6715.7325	19408.6519	-39750.9126
Story2	0.9DL+1.5EY	Combination	Top	3920.1848	-42.3	-1569.885	-10851.4951	22747.7028	-27601.4934
Story2	0.9DL+1.5EY	Combination	Bottom	4265.7337	-42.3	-1569.885	-10851.4951	29012.3282	-30147.2362
Story2	DConS1	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	DConS1	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	DConS2	Combination	Top	8801.6413	-70.5	-70.5	-264	39750.6358	-61878.489
Story2	DConS2	Combination	Bottom	9377.5562	-70.5	-70.5	-264	42553.7531	-66121.3937
Story2	DConS3	Combination	Top	7041.313	-56.4	-56.4	-211.2	31800.5086	-49502.7912
Story2	DConS3	Combination	Bottom	7502.045	-56.4	-56.4	-211.2	34043.0025	-52897.115
Story2	DConS4	Combination	Top	7041.313	-56.4	-56.4	-211.2	31800.5086	-49502.7912
Story2	DConS4	Combination	Bottom	7502.045	-56.4	-56.4	-211.2	34043.0025	-52897.115
Story2	DConS5	Combination	Top	7041.313	-56.4	-56.4	-211.2	31800.5086	-49502.7912
Story2	DConS5	Combination	Bottom	7502.045	-56.4	-56.4	-211.2	34043.0025	-52897.115
Story2	DConS6	Combination	Top	7041.313	-56.4	-56.4	-211.2	31800.5086	-49502.7912
Story2	DConS6	Combination	Bottom	7502.045	-56.4	-56.4	-211.2	34043.0025	-52897.115

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	DConS7	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	DConS7	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	DConS8	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	DConS8	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	DConS9	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	DConS9	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	DConS10	Combination	Top	6533.6413	-70.5	-70.5	-264	29544.6358	-46002.489
Story2	DConS10	Combination	Bottom	7109.5562	-70.5	-70.5	-264	32347.7531	-50245.3937
Story2	DConS11	Combination	Top	3920.1848	-42.3	-42.3	-158.4	17726.7815	-27601.4934
Story2	DConS11	Combination	Bottom	4265.7337	-42.3	-42.3	-158.4	19408.6519	-30147.2362
Story2	DConS12	Combination	Top	3920.1848	-42.3	-42.3	-158.4	17726.7815	-27601.4934
Story2	DConS12	Combination	Bottom	4265.7337	-42.3	-42.3	-158.4	19408.6519	-30147.2362
Story2	DConS13	Combination	Top	3920.1848	-42.3	-42.3	-158.4	17726.7815	-27601.4934
Story2	DConS13	Combination	Bottom	4265.7337	-42.3	-42.3	-158.4	19408.6519	-30147.2362
Story2	DConS14	Combination	Top	3920.1848	-42.3	-42.3	-158.4	17726.7815	-27601.4934
Story2	DConS14	Combination	Bottom	4265.7337	-42.3	-42.3	-158.4	19408.6519	-30147.2362
Story2	DConS15	Combination	Top	7041.313	-1278.468	-56.4	5288.106	31800.5086	-53519.5283
Story2	DConS15	Combination	Bottom	7502.045	-1278.468	-56.4	5288.106	34043.0025	-60580.056
Story2	DConS16	Combination	Top	7041.313	1165.668	-56.4	-5710.506	31800.5086	-45486.0541
Story2	DConS16	Combination	Bottom	7502.045	1165.668	-56.4	-5710.506	34043.0025	-45214.1739
Story2	DConS17	Combination	Top	7041.313	-56.4	-1278.468	-8765.6761	35817.2457	-49502.7912
Story2	DConS17	Combination	Bottom	7502.045	-56.4	-1278.468	-8765.6761	41725.9436	-52897.115
Story2	DConS18	Combination	Top	7041.313	-56.4	1165.668	8343.2761	27783.7716	-49502.7912
Story2	DConS18	Combination	Bottom	7502.045	-56.4	1165.668	8343.2761	26360.0614	-52897.115
Story2	DConS19	Combination	Top	6533.6413	-1598.085	-70.5	6610.1325	29544.6358	-51023.4103
Story2	DConS19	Combination	Bottom	7109.5562	-1598.085	-70.5	6610.1325	32347.7531	-59849.0701
Story2	DConS20	Combination	Top	6533.6413	1457.085	-70.5	-7138.1325	29544.6358	-40981.5677
Story2	DConS20	Combination	Bottom	7109.5562	1457.085	-70.5	-7138.1325	32347.7531	-40641.7173
Story2	DConS21	Combination	Top	6533.6413	-70.5	-1598.085	-10957.0951	34565.5571	-46002.489
Story2	DConS21	Combination	Bottom	7109.5562	-70.5	-1598.085	-10957.0951	41951.4295	-50245.3937
Story2	DConS22	Combination	Top	6533.6413	-70.5	1457.085	10429.0951	24523.7145	-46002.489
Story2	DConS22	Combination	Bottom	7109.5562	-70.5	1457.085	10429.0951	22744.0767	-50245.3937
Story2	DConS23	Combination	Top	3920.1848	-1569.885	-42.3	6715.7325	17726.7815	-32622.4147
Story2	DConS23	Combination	Bottom	4265.7337	-1569.885	-42.3	6715.7325	19408.6519	-39750.9126
Story2	DConS24	Combination	Top	3920.1848	1485.285	-42.3	-7032.5325	17726.7815	-22580.5721
Story2	DConS24	Combination	Bottom	4265.7337	1485.285	-42.3	-7032.5325	19408.6519	-20543.5599
Story2	DConS25	Combination	Top	3920.1848	-42.3	-1569.885	-10851.4951	22747.7028	-27601.4934
Story2	DConS25	Combination	Bottom	4265.7337	-42.3	-1569.885	-10851.4951	29012.3282	-30147.2362
Story2	DConS26	Combination	Top	3920.1848	-42.3	1485.285	10534.6951	12705.8601	-27601.4934
Story2	DConS26	Combination	Bottom	4265.7337	-42.3	1485.285	10534.6951	9804.9755	-30147.2362
Story1	Dead	LinStatic	Top	5935.3289	-63	-63	-232	26929.4801	-41882.3024
Story1	Dead	LinStatic	Bottom	6319.2722	-63	-63	-232	28846.225	-44758.9055
Story1	Live	LinStatic	Top	2016	0	0	0	9072	-14112
Story1	Live	LinStatic	Bottom	2016	0	0	0	9072	-14112
Story1	EX	LinStatic	Top	0	-1280.097	0	5760.4367	0	-6402.4509

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	EX	LinStatic	Bottom	0	-1280.097	0	5760.4367	0	-10242.7421
Story1	EY	LinStatic	Top	0	0	-1280.097	-8960.6793	6402.4509	0
Story1	EY	LinStatic	Bottom	0	0	-1280.097	-8960.6793	10242.7421	0
Story1	WX	LinStatic	Top	0	0	0	0	0	0
Story1	WX	LinStatic	Bottom	0	0	0	0	0	0
Story1	WY	LinStatic	Top	0	0	0	0	0	0
Story1	WY	LinStatic	Bottom	0	0	0	0	0	0
Story1	1.5DL	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	1.5DL	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	1.5LL	Combination	Top	3024	0	0	0	13608	-21168
Story1	1.5LL	Combination	Bottom	3024	0	0	0	13608	-21168
Story1	1.2DL+LL	Combination	Top	9541.5947	-75.6	-75.6	-278.4	43201.7761	-67193.1629
Story1	1.2DL+LL	Combination	Bottom	10002.3267	-75.6	-75.6	-278.4	45501.87	-70645.0866
Story1	1.2DL	Combination	Top	5935.3289	-63	-63	-232	26929.4801	-41882.3024
Story1	1.2DL	Combination	Bottom	6319.2722	-63	-63	-232	28846.225	-44758.9055
Story1	1.2DL+LL+EX	Combination	Top	9541.5947	-1611.7165	-75.6	6634.1241	43201.7761	-74876.1039
Story1	1.2DL+LL+EX	Combination	Bottom	10002.3267	-1611.7165	-75.6	6634.1241	45501.87	-82936.3771
Story1	1.2DL+LL+EY	Combination	Top	9541.5947	-75.6	-1611.7165	-11031.2152	50884.7172	-67193.1629
Story1	1.2DL+LL+EY	Combination	Bottom	10002.3267	-75.6	-1611.7165	-11031.2152	57793.1604	-70645.0866
Story1	0.9DL+1.5EX	Combination	Top	5341.796	-1976.8456	-56.7	8431.8551	24236.5321	-47297.7485
Story1	0.9DL+1.5EX	Combination	Bottom	5687.345	-1976.8456	-56.7	8431.8551	25961.6025	-55647.128
Story1	0.9DL+1.5EY	Combination	Top	5341.796	-56.7	-1976.8456	-13649.819	33840.2085	-37694.0721
Story1	0.9DL+1.5EY	Combination	Bottom	5687.345	-56.7	-1976.8456	-13649.819	41325.7156	-40283.015
Story1	DConS1	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	DConS1	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	DConS2	Combination	Top	11926.9934	-94.5	-94.5	-348	54002.2202	-83991.4536
Story1	DConS2	Combination	Bottom	12502.9083	-94.5	-94.5	-348	56877.3375	-88306.3583
Story1	DConS3	Combination	Top	9541.5947	-75.6	-75.6	-278.4	43201.7761	-67193.1629
Story1	DConS3	Combination	Bottom	10002.3267	-75.6	-75.6	-278.4	45501.87	-70645.0866
Story1	DConS4	Combination	Top	9541.5947	-75.6	-75.6	-278.4	43201.7761	-67193.1629
Story1	DConS4	Combination	Bottom	10002.3267	-75.6	-75.6	-278.4	45501.87	-70645.0866
Story1	DConS5	Combination	Top	9541.5947	-75.6	-75.6	-278.4	43201.7761	-67193.1629
Story1	DConS5	Combination	Bottom	10002.3267	-75.6	-75.6	-278.4	45501.87	-70645.0866
Story1	DConS6	Combination	Top	9541.5947	-75.6	-75.6	-278.4	43201.7761	-67193.1629
Story1	DConS6	Combination	Bottom	10002.3267	-75.6	-75.6	-278.4	45501.87	-70645.0866
Story1	DConS7	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	DConS7	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	DConS8	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	DConS8	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	DConS9	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	DConS9	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	DConS10	Combination	Top	8902.9934	-94.5	-94.5	-348	40394.2202	-62823.4536
Story1	DConS10	Combination	Bottom	9478.9083	-94.5	-94.5	-348	43269.3375	-67138.3583
Story1	DConS11	Combination	Top	5341.796	-56.7	-56.7	-208.8	24236.5321	-37694.0721
Story1	DConS11	Combination	Bottom	5687.345	-56.7	-56.7	-208.8	25961.6025	-40283.015

Table 4.4 - Story Forces (continued)

Story	Output Case	Case Type	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	DConS12	Combination	Top	5341.796	-56.7	-56.7	-208.8	24236.5321	-37694.0721
Story1	DConS12	Combination	Bottom	5687.345	-56.7	-56.7	-208.8	25961.6025	-40283.015
Story1	DConS13	Combination	Top	5341.796	-56.7	-56.7	-208.8	24236.5321	-37694.0721
Story1	DConS13	Combination	Bottom	5687.345	-56.7	-56.7	-208.8	25961.6025	-40283.015
Story1	DConS14	Combination	Top	5341.796	-56.7	-56.7	-208.8	24236.5321	-37694.0721
Story1	DConS14	Combination	Bottom	5687.345	-56.7	-56.7	-208.8	25961.6025	-40283.015
Story1	DConS15	Combination	Top	9541.5947	-1611.7165	-75.6	6634.1241	43201.7761	-74876.1039
Story1	DConS15	Combination	Bottom	10002.3267	-1611.7165	-75.6	6634.1241	45501.87	-82936.3771
Story1	DConS16	Combination	Top	9541.5947	1460.5165	-75.6	-7190.9241	43201.7761	-59510.2218
Story1	DConS16	Combination	Bottom	10002.3267	1460.5165	-75.6	-7190.9241	45501.87	-58353.7961
Story1	DConS17	Combination	Top	9541.5947	-75.6	-1611.7165	-11031.2152	50884.7172	-67193.1629
Story1	DConS17	Combination	Bottom	10002.3267	-75.6	-1611.7165	-11031.2152	57793.1604	-70645.0866
Story1	DConS18	Combination	Top	9541.5947	-75.6	1460.5165	10474.4152	35518.835	-67193.1629
Story1	DConS18	Combination	Bottom	10002.3267	-75.6	1460.5165	10474.4152	33210.5795	-70645.0866
Story1	DConS19	Combination	Top	8902.9934	-2014.6456	-94.5	8292.6551	40394.2202	-72427.1299
Story1	DConS19	Combination	Bottom	9478.9083	-2014.6456	-94.5	8292.6551	43269.3375	-82502.4713
Story1	DConS20	Combination	Top	8902.9934	1825.6456	-94.5	-8988.6551	40394.2202	-53219.7772
Story1	DConS20	Combination	Bottom	9478.9083	1825.6456	-94.5	-8988.6551	43269.3375	-51774.2452
Story1	DConS21	Combination	Top	8902.9934	-94.5	-2014.6456	-13789.019	49997.8965	-62823.4536
Story1	DConS21	Combination	Bottom	9478.9083	-94.5	-2014.6456	-13789.019	58633.4505	-67138.3583
Story1	DConS22	Combination	Top	8902.9934	-94.5	1825.6456	13093.019	30790.5438	-62823.4536
Story1	DConS22	Combination	Bottom	9478.9083	-94.5	1825.6456	13093.019	27905.2244	-67138.3583
Story1	DConS23	Combination	Top	5341.796	-1976.8456	-56.7	8431.8551	24236.5321	-47297.7485
Story1	DConS23	Combination	Bottom	5687.345	-1976.8456	-56.7	8431.8551	25961.6025	-55647.128
Story1	DConS24	Combination	Top	5341.796	1863.4456	-56.7	-8849.4551	24236.5321	-28090.3958
Story1	DConS24	Combination	Bottom	5687.345	1863.4456	-56.7	-8849.4551	25961.6025	-24918.9019
Story1	DConS25	Combination	Top	5341.796	-56.7	-1976.8456	-13649.819	33840.2085	-37694.0721
Story1	DConS25	Combination	Bottom	5687.345	-56.7	-1976.8456	-13649.819	41325.7156	-40283.015
Story1	DConS26	Combination	Top	5341.796	-56.7	1863.4456	13232.219	14632.8557	-37694.0721
Story1	DConS26	Combination	Bottom	5687.345	-56.7	1863.4456	13232.219	10597.4894	-40283.015

4.3 Modal Results

Table 4.5 - Modal Periods And Frequencies

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad2/sec2
Modal	1	0.308	3.244	20.3808	415.3786
Modal	2	0.306	3.271	20.5541	422.4708
Modal	3	0.258	3.878	24.3688	593.8368
Modal	4	0.104	9.629	60.5009	3660.3617
Modal	5	0.103	9.685	60.8518	3702.9396
Modal	6	0.087	11.443	71.8992	5169.5017
Modal	7	0.064	15.53	97.5763	9521.1372
Modal	8	0.064	15.573	97.8485	9574.3215
Modal	9	0.055	18.245	114.6357	13141.3445
Modal	10	0.051	19.746	124.0675	15392.7462

Table 4.5 - Modal Periods And Frequencies (continued)

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad ² /sec ²
Modal	11	0.051	19.79	124.3467	15462.091
Modal	12	0.043	23.072	144.9665	21015.294

Table 4.6 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	SumUX	SumUY	SumUZ	RX	RY	RZ	SumRX
Modal	1	0.308	0.8707	0	0	0.8707	0	0	0	0.1736	0	0
Modal	2	0.306	0	0.8708	0	0.8707	0.8708	0	0.1737	0	0	0.1737
Modal	3	0.258	0	0	0	0.8707	0.8708	0	0	0	0.8746	0.1737
Modal	4	0.104	0.0968	0	0	0.9675	0.8708	0	0	0.7321	0	0.1737
Modal	5	0.103	0	0.0975	0	0.9675	0.9683	0	0.7333	0	0	0.907
Modal	6	0.087	0	0	0	0.9675	0.9683	0	0	0	0.0941	0.907
Modal	7	0.064	0.0265	0	0	0.994	0.9683	0	0	0.0607	0	0.907
Modal	8	0.064	0	0.026	0	0.994	0.9942	0	0.0603	0	0	0.9673
Modal	9	0.055	0	0	0	0.994	0.9942	0	0	0	0.0256	0.9673
Modal	10	0.051	0	0.0058	0	0.994	1	0	0.0327	0	0	0.9999
Modal	11	0.051	0.006	0	0	1	1	0	0	0.0336	0	0.9999
Modal	12	0.043	0	0	0	1	1	0	0	0	0.0057	0.9999

Table 4.6 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	SumRY	SumRZ
Modal	1	0.1736	0
Modal	2	0.1736	0
Modal	3	0.1736	0.8746
Modal	4	0.9057	0.8746
Modal	5	0.9057	0.8746
Modal	6	0.9057	0.9687
Modal	7	0.9664	0.9687
Modal	8	0.9664	0.9687
Modal	9	0.9664	0.9943
Modal	10	0.9664	0.9943
Modal	11	1	0.9943
Modal	12	1	1

Table 4.7 - Modal Load Participation Ratios

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

Table 4.8 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0.308	1	0	0	0
Modal	2	0.306	0	1	0	0
Modal	3	0.258	0	0	0	1
Modal	4	0.104	1	0	0	0
Modal	5	0.103	0	1	0	0
Modal	6	0.087	0	0	0	1
Modal	7	0.064	1	0	0	0
Modal	8	0.064	0	1	0	0
Modal	9	0.055	0	0	0	1
Modal	10	0.051	0	1	0	0
Modal	11	0.051	1	0	0	0
Modal	12	0.043	0	0	0	1

5 Design Data

This chapter provides design data and results.

5.1 Concrete Frame Design

Table 5.1 - Concrete Frame Design Preferences - IS 456-2000

Item	Value
Multi-Response Design	Step-by-Step - All
# Interaction Curves	24
# Interaction Points	11
Minimum Eccentricity?	Yes
Ignore Beneficial P_u for Beam Design?	Yes
Design for BCCR?	Yes
Additional Moment?	Yes
P-Delta Done?	No
Gamma (Steel)	1.15
Gamma (Concrete)	1.5
Pattern Live Load Factor	0.75
Utilization Factor Limit	1