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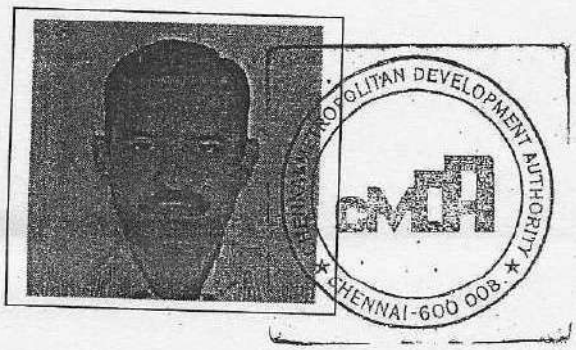
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. N. KANAGAVEL** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E.,(Structural Engg.)** and experience in the relevant field for **11 years**.

He has been given the Registration No.**SE/GR-I/2019/03/049** Renewed on **26.03.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **25.03.2029**.



26/3/24.

(A. MEGANATHAN)
Superintendent

N. KANAGAVEL M.E., M.B.A., MIE., FIV
Chartered Engineer, Structural Consultant and Approved Valuer

CA- 12, Tarangini Complex
Ambattur Industrial Estate, Chennai – 600 058

Mobile : 94440 61295
e – mail: kanagavelchennai@gmail.com

27.02.2026

STABILITY CERTIFICATE

1. The detailed engineering and structure design of the proposed building comprising of stilt + five floors "NEST BEYONCE" at Karanai Road, Ottiyambakkam village, Tambaram, Chennai – 600 130, comprised in S.No: 296/3A & 297/1B1, has been done by me/us based on the report of geotechnical investigation (soil test) done by Nagadi Consultants (P) Ltd., Report No. G(C)10075 dated 30.08.2025 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I/We have checked various parameters and found that the proposed building would be safe.

3. I/We further certify that:

   (i) The minimum grade of concrete is M30

   (ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456:2000, design loads as per IS Codes No.IS 875-1987 and design of earthquake resistant structure as per IS Code No. IS 1893(part 1):2016

4. The building will be safe and sound when used for the purpose for which it is designed.

N. KANAGAVEL M.E, M.B.A., MIE., FIV
Registered Structural Engineer Grade-I
CMDA Reg.No. SE/GR-I/19/03/049
GCC Reg.No.RSE100022019
CA-12, Tarangani Complex,
Ambattur Industrial Estate
Mogappair West, Chennai-600 058

Stamp and Signature

Encl.: Structural Design Calculation

Design Specifications:

The proposed structure are to be designed for stilt + five floors and to be of framed structure to resist the seismic effect of zone III as per IS 1893 – 2016. The usage of the building is for residential purpose.

Geo Technical Report:

As per Nagadi Consultants (P) Ltd., geo technical report G(C) 10075 dated 30.08.2025, the foundation recommendations are:

(i) type of foundation	=	Raft foundation
(ii) Depth of foundation	=	2.60 m
(iii) SBC @ 2.60 m depth	=	140kn/m^2

Floor Heights Considered:

Foundation depth	=	2.60m
Car parking level	=	0.60m
Stilt and typical floors height	=	3.00m

Analysis and Design:

Analysis part is done using ETAB & SAFE softwares and the designing part cross verified by manual calculations in accordance with IS 456–2000, IS 1893-2016 and SP – 16.

Materials:

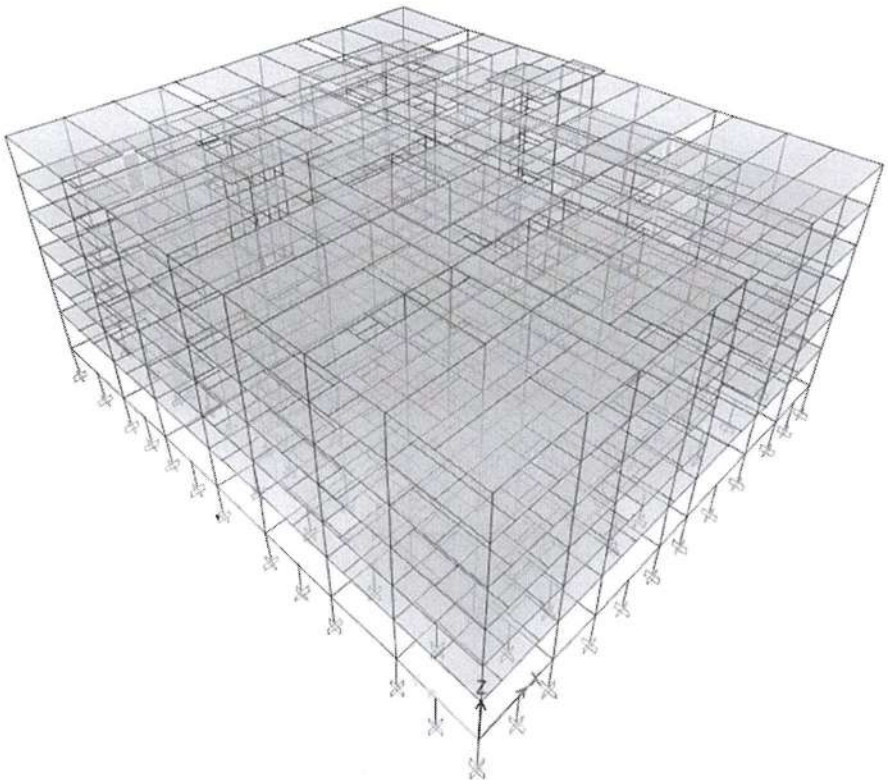
The following recommendations of materials are to be used

(i) Grade of concrete : M30 grade for all RCC members

(ii) Grade of steel : Fe 550 for all diameter

(iii) Potable quality of water to be used for all construction activities including curing.

ETABS®



Beyonce - stilt+5 floors

Model File: B- stilt+5 floors, Revision 0
27-Feb-26

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	headroom	2.5	No	None	No	Gray8Dark
T1	roof	3	No	story 1	No	Blue
T1	story 5	3	No	story 1	No	Green
T1	story 4	3	No	story 1	No	Cyan
T1	story 3	3	No	story 1	No	Red
T1	story 2	3	No	story 1	No	Magenta
T1	story 1	3.6	Yes	None	No	Yellow
T1	plinth beam	2.5	No	None	No	Gray8Dark

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
HYSD500	Rebar	Uniaxial	HYSD Grade 500	Green	
HYSD550	Rebar	Uniaxial	HYSD Grade 550	Red	
M30	Concrete	Isotropic	M30	Gray8Dark	

2.2 Frame Sections

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

Name	Material	Shape	Color	Area cm2	J cm4	I33 cm4	I22 cm4	As2 cm2	As3 cm2	S33Pos cm3	S33Neg cm3
B230x125	M30	Concrete Rectangular	Green	287.5	9884.3	3743.5	12674	239.6	239.6	599	599
B230x380	M30	Concrete Rectangular	Red	874	96006	105171.3	38528.8	728.3	728.3	5535.3	5535.3
B230x450	M30	Concrete Rectangular	Magenta	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5	7762.5
B230x525	M30	Concrete Rectangular	Blue	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6	10565.6
B230x600	M30	Concrete Rectangular	Red	1380	184679.1	414000	60835	1150	1150	13800	13800
B230x675	M30	Concrete Rectangular	Blue	1552.5	215056.9	589464.8	68439.4	1293.7	1293.7	17465.6	17465.6
B230x750	M30	Concrete Rectangular	Magenta	1725	245451.7	808593.8	76043.8	1437.5	1437.5	21562.5	21562.5
C230x450	M30	Concrete Rectangular	Yellow	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5	7762.5
C230x525	M30	Concrete Rectangular	Gray8Dark	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6	10565.6
C230x600	M30	Concrete Rectangular	Blue	1380	184679.1	414000	60835	1150	1150	13800	13800
C300x300	M30	Concrete Rectangular	Cyan	900	114075	67500	67500	750	750	4500	4500
C300x525	M30	Concrete Rectangular	Blue	1575	303911.4	361757.8	118125	1312.5	1312.5	13781.3	13781.3

Name	Material	Shape	Color	Area cm2	J cm4	I33 cm4	I22 cm4	As2 cm2	As3 cm2	S33Pos cm3	S33Neg cm3
C300x600	M30	Concrete Rectangular	Green	1800	370785.9	540000	135000	1500	1500	18000	18000
C300x675	M30	Concrete Rectangular	Cyan	2025	437953.1	768867.2	151875	1687.5	1687.5	22781.3	22781.3
C300x750	M30	Concrete Rectangular	Cyan	2250	505262.9	1054687.5	168750	1875	1875	28125	28125
C380x750	M30	Concrete Rectangular	Red	2850	936326.1	1335937.5	342950	2375	2375	35625	35625
ConcBm	M30	Concrete Rectangular	Blue	1875	474572.9	390625	219726.6	1562.5	1562.5	15625	15625
ConcCol	M30	Concrete Rectangular	Gray8Dark	1406.3	278503.4	164794.9	164794.9	1171.9	1171.9	8789.1	8789.1
D230x230	M30	Concrete Rectangular	Magenta	529	39410.9	23320.1	23320.1	440.8	440.8	2027.8	2027.8

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
Slab1	Slab	Shell-Thin	M30	125		
Wall1	Wall	Shell-Thin	M30	230		
Wall2	Wall	Shell-Thin	M30	230		
Wall3	Wall	Shell-Thin	M30	230		
Wall4	Wall	Shell-Thin	M30	230		
Wall5	Wall	Shell-Thin	M30	230		
Wall6	Wall	Shell-Thin	M30	230		
Wall7	Wall	Shell-Thin	M30	230		

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	
Floor finish	No	Super Dead	0	
Live	No	Reducible Live	0	
roof live	No	Reducible Live	0	
sesmic - X	No	Seismic	0	IS 1893:2016
sesmic - Y	No	Seismic	0	IS 1893:2016
sunken filling	No	Super Dead	0	
wall load	No	Super Dead	0	

3.2 Auto Seismic Loading

IS 1893:2016 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern sesmic - X according to IS 1893:2016, as calculated by ETABS.

Direction and Eccentricity

Direction = X

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.28 \text{ sec}$

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 3] $Z = 0.16$

$R = 5$

$I = 1.2$

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.2] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

Equivalent Lateral Forces

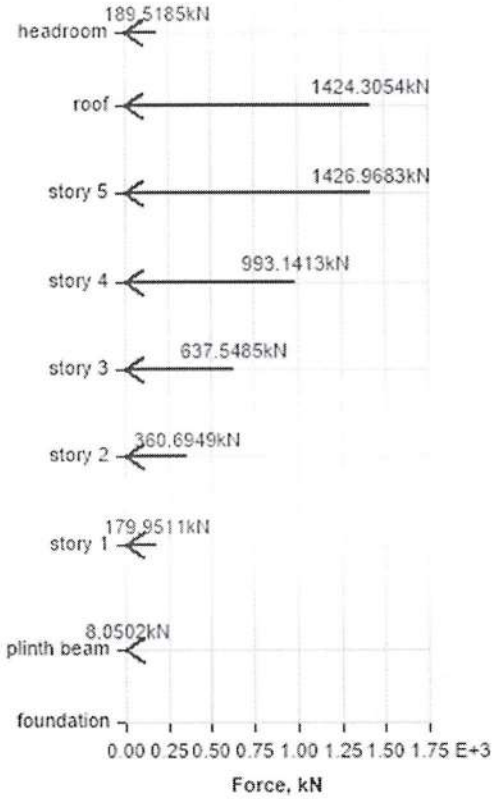
Seismic Coefficient, A_h [IS 6.4.2] $A_h = \frac{ZI\frac{S_a}{g}}{2R}$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V_b (kN)
X	0.28	108753.7117	5220.1782

Applied Story Forces

Lateral Load to Stories - X



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.1	189.5185	0
roof	18.6	1424.3054	0
story 5	15.6	1426.9683	0
story 4	12.6	993.1413	0
story 3	9.6	637.5485	0
story 2	6.6	360.6949	0
story 1	3.6	179.9511	0
plinth beam	0	8.0502	0
foundation	-2.5	0	0

IS 1893:2016 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern sesmic - Y according to IS 1893:2016, as calculated by ETABS.

Direction and Eccentricity

Direction = Y

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.25$ sec

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 3] $Z = 0.16$

$R = 5$

$I = 1.2$

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.2] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

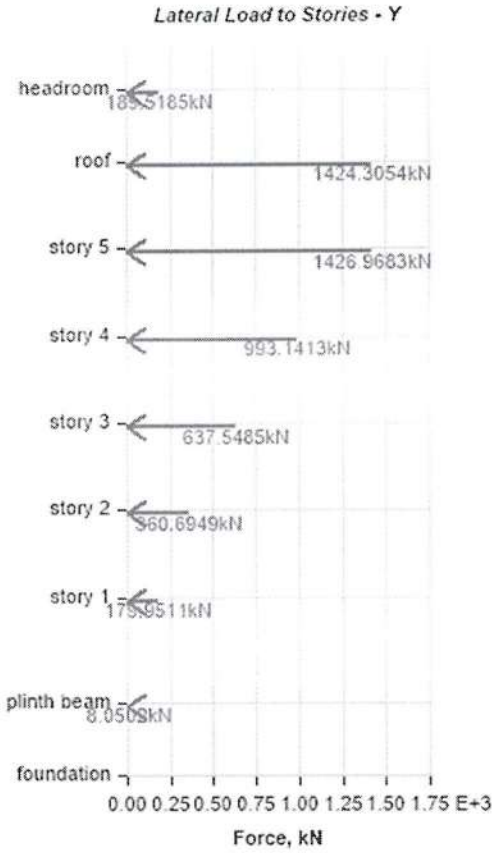
Equivalent Lateral Forces

Seismic Coefficient, A_h [IS 6.4.2] $A_h = \frac{ZI\frac{S_a}{g}}{2R}$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V_b (kN)
Y	0.25	108753.7117	5220.1782

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.1	0	189.5185
roof	18.6	0	1424.3054
story 5	15.6	0	1426.9683
story 4	12.6	0	993.1413
story 3	9.6	0	637.5485
story 2	6.6	0	360.6949
story 1	3.6	0	179.9511
plinth beam	0	0	8.0502
foundation	-2.5	0	0

3.3 Load Combinations

Table 3.4 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
0.9DL-1.5RSX	Linear Add	No	Dead	0.9	
0.9DL-1.5RSX			Floor finish	0.9	
0.9DL-1.5RSX			sunken filling	0.9	
0.9DL-1.5RSX			wall load	0.9	
0.9DL-1.5RSX			RSX	-1.5	
0.9DL-1.5RSY	Linear Add	No	Dead	0.9	
0.9DL-1.5RSY			Floor finish	0.9	
0.9DL-1.5RSY			sunken filling	0.9	
0.9DL-1.5RSY			wall load	0.9	
0.9DL-1.5RSY			RXY	-1.5	
0.9DL+1.5RSX	Linear Add	No	Dead	0.9	
0.9DL+1.5RSX			Floor finish	0.9	
0.9DL+1.5RSX			sunken filling	0.9	
0.9DL+1.5RSX			wall load	0.9	
0.9DL+1.5RSX			RSX	1.5	
0.9DL+1.5RSY	Linear Add	No	Dead	0.9	
0.9DL+1.5RSY			Floor finish	0.9	
0.9DL+1.5RSY			sunken filling	0.9	
0.9DL+1.5RSY			wall load	0.9	
0.9DL+1.5RSY			RXY	1.5	
1.2(DL+LL+EQX)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQX)			Live	1.2	
1.2(DL+LL+EQX)			Floor finish	1.2	
1.2(DL+LL+EQX)			sunken filling	1.2	
1.2(DL+LL+EQX)			wall load	1.2	
1.2(DL+LL+EQX)			sesmic - X	1.2	
1.2(DL+LL+EQX)			roof live	1.2	
1.2(DL+LL+EQY)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQY)			Live	1.2	
1.2(DL+LL+EQY)			Floor finish	1.2	
1.2(DL+LL+EQY)			sunken filling	1.2	
1.2(DL+LL+EQY)			wall load	1.2	
1.2(DL+LL+EQY)			sesmic - Y	1.2	
1.2(DL+LL+EQY)			roof live	1.2	
1.2(DL+LL+RSX)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSX)			Live	1.2	
1.2(DL+LL+RSX)			Floor finish	1.2	
1.2(DL+LL+RSX)			sunken filling	1.2	
1.2(DL+LL+RSX)			wall load	1.2	
1.2(DL+LL+RSX)			RSX	1.2	
1.2(DL+LL+RSX)			roof live	1.2	
1.2(DL+LL+RSY)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSY)			Live	1.2	
1.2(DL+LL+RSY)			Floor finish	1.2	
1.2(DL+LL+RSY)			sunken filling	1.2	
1.2(DL+LL+RSY)			wall load	1.2	
1.2(DL+LL+RSY)			RXY	1.2	
1.2(DL+LL+RSY)			roof live	1.2	
1.2(DL+LL-EQX)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQX)			Live	1.2	
1.2(DL+LL-EQX)			Floor finish	1.2	
1.2(DL+LL-EQX)			sunken filling	1.2	
1.2(DL+LL-EQX)			wall load	1.2	
1.2(DL+LL-EQX)			sesmic - X	-1.2	

Name	Type	Is Auto	Load Name	SF	Notes
1.2(DL+LL-EQX)			roof live	1.2	
1.2(DL+LL-EQY)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQY)			Live	1.2	
1.2(DL+LL-EQY)			Floor finish	1.2	
1.2(DL+LL-EQY)			sunken filling	1.2	
1.2(DL+LL-EQY)			wall load	1.2	
1.2(DL+LL-EQY)			sesmic - Y	-1.2	
1.2(DL+LL-EQY)			roof live	1.2	
1.2(DL+LL-RSX)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSX)			Live	1.2	
1.2(DL+LL-RSX)			Floor finish	1.2	
1.2(DL+LL-RSX)			sunken filling	1.2	
1.2(DL+LL-RSX)			wall load	1.2	
1.2(DL+LL-RSX)			RSX	-1.2	
1.2(DL+LL-RSX)			roof live	1.2	
1.2(DL+LL-RSY)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSY)			Live	1.2	
1.2(DL+LL-RSY)			Floor finish	1.2	
1.2(DL+LL-RSY)			sunken filling	1.2	
1.2(DL+LL-RSY)			wall load	1.2	
1.2(DL+LL-RSY)			RXY	-1.2	
1.2(DL+LL-RSY)			roof live	1.2	
1.5(DL+EQX)	Linear Add	No	Dead	1.5	
1.5(DL+EQX)			Floor finish	1.5	
1.5(DL+EQX)			sunken filling	1.5	
1.5(DL+EQX)			wall load	1.5	
1.5(DL+EQX)			sesmic - X	1.5	
1.5(DL+EQY)	Linear Add	No	Dead	1.5	
1.5(DL+EQY)			Floor finish	1.5	
1.5(DL+EQY)			sunken filling	1.5	
1.5(DL+EQY)			wall load	1.5	
1.5(DL+EQY)			sesmic - Y	1.5	
1.5(DL+LL)	Linear Add	No	Dead	1.5	
1.5(DL+LL)			Live	1.5	
1.5(DL+LL)			Floor finish	1.5	
1.5(DL+LL)			sunken filling	1.5	
1.5(DL+LL)			wall load	1.5	
1.5(DL+LL)			roof live	1.5	
1.5(DL+RSX)	Linear Add	No	Dead	1.5	
1.5(DL+RSX)			Floor finish	1.5	
1.5(DL+RSX)			sunken filling	1.5	
1.5(DL+RSX)			wall load	1.5	
1.5(DL+RSX)			RSX	1.5	
1.5(DL+RSY)	Linear Add	No	Dead	1.5	
1.5(DL+RSY)			Floor finish	1.5	
1.5(DL+RSY)			sunken filling	1.5	
1.5(DL+RSY)			wall load	1.5	
1.5(DL+RSY)			RXY	1.5	
1.5(DL-EQX)	Linear Add	No	Dead	1.5	
1.5(DL-EQX)			Floor finish	1.5	
1.5(DL-EQX)			sunken filling	1.5	
1.5(DL-EQX)			wall load	1.5	
1.5(DL-EQX)			sesmic - X	-1.5	
1.5(DL-EQY)	Linear Add	No	Dead	1.5	
1.5(DL-EQY)			Floor finish	1.5	
1.5(DL-EQY)			sunken filling	1.5	
1.5(DL-EQY)			wall load	1.5	

Name	Type	Is Auto	Load Name	SF	Notes
1.5(DL-EQY)			sesmic - Y	-1.5	
1.5(DL-RSX)	Linear Add	No	Dead	1.5	
1.5(DL-RSX)			Floor finish	1.5	
1.5(DL-RSX)			sunken filling	1.5	
1.5(DL-RSX)			wall load	1.5	
1.5(DL-RSX)			RSX	-1.5	
1.5(DL-RSY)	Linear Add	No	Dead	1.5	
1.5(DL-RSY)			Floor finish	1.5	
1.5(DL-RSY)			sunken filling	1.5	
1.5(DL-RSY)			wall load	1.5	
1.5(DL-RSY)			RXY	-1.5	
09DL-1.5EQX	Linear Add	No	Dead	0.9	
09DL-1.5EQX			Floor finish	0.9	
09DL-1.5EQX			sunken filling	0.9	
09DL-1.5EQX			wall load	0.9	
09DL-1.5EQX			sesmic - X	-1.5	
09DL-1.5EQY	Linear Add	No	Dead	0.9	
09DL-1.5EQY			Floor finish	0.9	
09DL-1.5EQY			sunken filling	0.9	
09DL-1.5EQY			wall load	0.9	
09DL-1.5EQY			sesmic - Y	-1.5	
09DL+1.5EQX	Linear Add	No	Dead	0.9	
09DL+1.5EQX			Floor finish	0.9	
09DL+1.5EQX			sunken filling	0.9	
09DL+1.5EQX			wall load	0.9	
09DL+1.5EQX			sesmic - X	1.5	
09DL+1.5EQY	Linear Add	No	Dead	0.9	
09DL+1.5EQY			Floor finish	0.9	
09DL+1.5EQY			sunken filling	0.9	
09DL+1.5EQY			wall load	0.9	
09DL+1.5EQY			sesmic - Y	1.5	
(DL+LL)	Linear Add	No	Dead	1	
(DL+LL)			Live	1	
(DL+LL)			Floor finish	1	
(DL+LL)			sunken filling	1	
(DL+LL)			wall load	1	
(DL+LL)			roof live	1	
DL+0.8LL-0.8EQX	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQX			Floor finish	1	
DL+0.8LL-0.8EQX			sunken filling	1	
DL+0.8LL-0.8EQX			wall load	1	
DL+0.8LL-0.8EQX			Live	0.8	
DL+0.8LL-0.8EQX			sesmic - X	-0.8	
DL+0.8LL-0.8EQX			roof live	0.8	
DL+0.8LL-0.8EQY	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQY			Floor finish	1	
DL+0.8LL-0.8EQY			sunken filling	1	
DL+0.8LL-0.8EQY			wall load	1	
DL+0.8LL-0.8EQY			Live	0.8	
DL+0.8LL-0.8EQY			sesmic - Y	-0.8	
DL+0.8LL-0.8EQY			roof live	0.8	
DL+0.8LL-0.8RSX	Linear Add	No	Dead	1	
DL+0.8LL-0.8RSX			Floor finish	1	
DL+0.8LL-0.8RSX			sunken filling	1	
DL+0.8LL-0.8RSX			wall load	1	
DL+0.8LL-0.8RSX			Live	0.8	
DL+0.8LL-0.8RSX			RSX	-0.8	

Name	Type	Is Auto	Load Name	SF	Notes
DL+0.8LL-0.8RSX			roof live	0.8	
DL+0.8LL-0.8RSY	Linear Add	No	Dead	1	
DL+0.8LL-0.8RSY			Floor finish	1	
DL+0.8LL-0.8RSY			sunken filling	1	
DL+0.8LL-0.8RSY			wall load	1	
DL+0.8LL-0.8RSY			Live	0.8	
DL+0.8LL-0.8RSY			RXY	-0.8	
DL+0.8LL-0.8RSY			roof live	0.8	
DL+0.8LL+0.8EQX	Linear Add	No	Dead	1	
DL+0.8LL+0.8EQX			Floor finish	1	
DL+0.8LL+0.8EQX			sunken filling	1	
DL+0.8LL+0.8EQX			wall load	1	
DL+0.8LL+0.8EQX			Live	0.8	
DL+0.8LL+0.8EQX			sesmic - X	0.8	
DL+0.8LL+0.8EQX			roof live	0.8	
DL+0.8LL+0.8EQY	Linear Add	No	Dead	1	
DL+0.8LL+0.8EQY			Floor finish	1	
DL+0.8LL+0.8EQY			sunken filling	1	
DL+0.8LL+0.8EQY			wall load	1	
DL+0.8LL+0.8EQY			Live	0.8	
DL+0.8LL+0.8EQY			sesmic - Y	0.8	
DL+0.8LL+0.8EQY			roof live	0.8	
DL+0.8LL+0.8RSX	Linear Add	No	Dead	1	
DL+0.8LL+0.8RSX			Floor finish	1	
DL+0.8LL+0.8RSX			sunken filling	1	
DL+0.8LL+0.8RSX			wall load	1	
DL+0.8LL+0.8RSX			Live	0.8	
DL+0.8LL+0.8RSX			sesmic - Y	0.8	
DL+0.8LL+0.8RSX			roof live	0.8	
DL+0.8LL+0.8RSY	Linear Add	No	Dead	1	
DL+0.8LL+0.8RSY			Floor finish	1	
DL+0.8LL+0.8RSY			sunken filling	1	
DL+0.8LL+0.8RSY			wall load	1	
DL+0.8LL+0.8RSY			Live	0.8	
DL+0.8LL+0.8RSY			RXY	0.8	
DL+0.8LL+0.8RSY			roof live	0.8	
DL+EQX	Linear Add	No	Dead	1	
DL+EQX			Floor finish	1	
DL+EQX			sunken filling	1	
DL+EQX			wall load	1	
DL+EQX			sesmic - X	1	
DL+EQY	Linear Add	No	Dead	1	
DL+EQY			Floor finish	1	
DL+EQY			sunken filling	1	
DL+EQY			wall load	1	
DL+EQY			sesmic - Y	1	
DL+RSX	Linear Add	No	Dead	1	
DL+RSX			Floor finish	1	
DL+RSX			sunken filling	1	
DL+RSX			wall load	1	
DL+RSX			RSX	1	
DL+RSY	Linear Add	No	Dead	1	
DL+RSY			Floor finish	1	
DL+RSY			sunken filling	1	
DL+RSY			wall load	1	
DL+RSY			RXY	1	
DL-EQX	Linear Add	No	Dead	1	

Name	Type	Is Auto	Load Name	SF	Notes
DL-EQX			Floor finish	1	
DL-EQX			sunken filling	1	
DL-EQX			wall load	1	
DL-EQX			sesmic - X	-1	
DL-EQY	Linear Add	No	Dead	1	
DL-EQY			Floor finish	1	
DL-EQY			sunken filling	1	
DL-EQY			wall load	1	
DL-EQY			sesmic - Y	-1	
DL-RSX	Linear Add	No	Dead	1	
DL-RSX			Floor finish	1	
DL-RSX			sunken filling	1	
DL-RSX			wall load	1	
DL-RSX			RSX	-1	
DL-RSY	Linear Add	No	Dead	1	
DL-RSY			Floor finish	1	
DL-RSY			sunken filling	1	
DL-RSY			wall load	1	
DL-RSY			RXY	-1	
seismic weight	Linear Add	No	Dead	1	
seismic weight			Live	0.25	
seismic weight			Floor finish	1	
seismic weight			wall load	1	
seismic weight			sunken filling	1	
ultimate envelope	Envelope	No	1.2(DL+LL+EQX)	1	
ultimate envelope			1.2(DL+LL-EQX)	1	
ultimate envelope			1.2(DL+LL+RSX)	1	
ultimate envelope			1.2(DL+LL-RSX)	1	
ultimate envelope			1.2(DL+LL+EQY)	1	
ultimate envelope			1.2(DL+LL-EQY)	1	
ultimate envelope			1.2(DL+LL+RSY)	1	
ultimate envelope			1.2(DL+LL-RSY)	1	
ultimate envelope			1.5(DL+EQX)	1	
ultimate envelope			1.5(DL+EQY)	1	
ultimate envelope			1.5(DL+RSX)	1	
ultimate envelope			1.5(DL+RSY)	1	
ultimate envelope			1.5(DL-EQX)	1	
ultimate envelope			1.5(DL-EQY)	1	
ultimate envelope			1.5(DL-RSX)	1	
ultimate envelope			1.5(DL-RSY)	1	
ultimate envelope			1.5(DL+LL)	1	
ultimate envelope			09DL+1.5EQX	1	
ultimate envelope			09DL-1.5EQX	1	
ultimate envelope			0.9DL+1.5RSX	1	
ultimate envelope			0.9DL-1.5RSX	1	
ultimate envelope			09DL+1.5EQY	1	
ultimate envelope			09DL-1.5EQY	1	
ultimate envelope			0.9DL+1.5RSY	1	
ultimate envelope			0.9DL-1.5RSY	1	

4 Analysis Results

This chapter provides analysis results.

4.1 Story Results

Table 4.1 - Story Drifts

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	Dead	LinStatic		X	0.000128	394	26.86	17.91	21.1
headroom	Dead	LinStatic		Y	0.000107	38	5.6	25.91	21.1
headroom	Live	LinStatic		X	2.5E-05	393	30.67	17.91	21.1
headroom	Live	LinStatic		Y	2.1E-05	393	30.67	17.91	21.1
headroom	Floor finish	LinStatic		X	3.3E-05	394	26.86	17.91	21.1
headroom	Floor finish	LinStatic		Y	3.1E-05	38	5.6	25.91	21.1
headroom	sunken filling	LinStatic		X	3.5E-05	19	29.07	22.82	21.1
headroom	sunken filling	LinStatic		Y	1.8E-05	26	26.86	22.82	21.1
headroom	wall load	LinStatic		X	0.000206	394	26.86	17.91	21.1
headroom	wall load	LinStatic		Y	8.8E-05	36	7.7	28.04	21.1
headroom	sesmic - X	LinStatic		X	0.000853	19	29.07	22.82	21.1
headroom	sesmic - Y	LinStatic		Y	0.001023	26	26.86	22.82	21.1
headroom	RSX	LinRespSpec	Max	X	0.000663	19	29.07	22.82	21.1
headroom	RSX	LinRespSpec	Max	Y	0.000278	26	26.86	22.82	21.1
headroom	RXY	LinRespSpec	Max	Y	0.000772	26	26.86	22.82	21.1
headroom	roof live	LinStatic		Y	0.000109	26	26.86	22.82	21.1
headroom	(DL+LL)	Combination		X	0.000498	394	26.86	17.91	21.1
headroom	(DL+LL)	Combination		Y	0.000265	36	7.7	28.04	21.1
headroom	09DL+1.5EQX	Combination		X	0.001364	35	9.75	28.04	21.1
headroom	09DL-1.5EQX	Combination		X	0.001474	19	29.07	22.82	21.1
headroom	09DL-1.5EQX	Combination		Y	0.00029	38	5.6	25.91	21.1
headroom	0.9DL+1.5RSX	Combination	Max	X	0.001035	35	9.75	28.04	21.1
headroom	0.9DL+1.5RSX	Combination	Max	Y	0.0005	26	26.86	22.82	21.1
headroom	0.9DL+1.5RSX	Combination	Min	X	0.001191	26	26.86	22.82	21.1
headroom	0.9DL+1.5RSX	Combination	Min	Y	0.000455	39	9.75	23.16	21.1
headroom	0.9DL-1.5RSX	Combination	Max	X	0.001035	35	9.75	28.04	21.1
headroom	0.9DL-1.5RSX	Combination	Max	Y	0.0005	26	26.86	22.82	21.1
headroom	0.9DL-1.5RSX	Combination	Min	X	0.001191	26	26.86	22.82	21.1
headroom	0.9DL-1.5RSX	Combination	Min	Y	0.000455	39	9.75	23.16	21.1
headroom	09DL-1.5EQY	Combination		Y	0.001464	394	26.86	17.91	21.1
headroom	09DL+1.5EQY	Combination		Y	0.001618	26	26.86	22.82	21.1
headroom	0.9DL+1.5RSY	Combination	Max	Y	0.001241	26	26.86	22.82	21.1
headroom	0.9DL+1.5RSY	Combination	Min	Y	0.001135	39	9.75	23.16	21.1
headroom	0.9DL-1.5RSY	Combination	Max	Y	0.001241	26	26.86	22.82	21.1
headroom	0.9DL-1.5RSY	Combination	Min	Y	0.001135	39	9.75	23.16	21.1
headroom	1.2(DL+LL+EQX)	Combination		X	0.001387	35	9.75	28.04	21.1
headroom	1.2(DL+LL+EQX)	Combination		Y	0.000416	39	9.75	23.16	21.1
headroom	1.2(DL+LL-EQX)	Combination		X	0.0015	26	26.86	22.82	21.1
headroom	1.2(DL+LL-EQX)	Combination		Y	0.000369	38	5.6	25.91	21.1
headroom	1.2(DL+LL+RSX)	Combination	Max	X	0.001124	35	9.75	28.04	21.1
headroom	1.2(DL+LL+RSX)	Combination	Max	Y	0.000311	26	26.86	22.82	21.1
headroom	1.2(DL+LL+RSX)	Combination	Min	X	0.001283	394	26.86	17.91	21.1
headroom	1.2(DL+LL+RSX)	Combination	Min	Y	0.000522	39	9.75	23.16	21.1
headroom	1.2(DL+LL-RSX)	Combination	Max	X	0.001124	35	9.75	28.04	21.1
headroom	1.2(DL+LL-RSX)	Combination	Max	Y	0.000311	26	26.86	22.82	21.1
headroom	1.2(DL+LL-RSX)	Combination	Min	X	0.001283	394	26.86	17.91	21.1
headroom	1.2(DL+LL-RSX)	Combination	Min	Y	0.000522	39	9.75	23.16	21.1
headroom	1.2(DL+LL+EQY)	Combination		Y	0.001205	26	26.86	22.82	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	1.2(DL+LL-EQY)	Combination		Y	0.001329	35	9.75	28.04	21.1
headroom	1.2(DL+LL+RSY)	Combination	Max	Y	0.000903	26	26.86	22.82	21.1
headroom	1.2(DL+LL+RSY)	Combination	Min	X	0.000666	394	26.86	17.91	21.1
headroom	1.2(DL+LL+RSY)	Combination	Min	Y	0.001067	35	9.75	28.04	21.1
headroom	1.2(DL+LL-RSY)	Combination	Max	Y	0.000903	26	26.86	22.82	21.1
headroom	1.2(DL+LL-RSY)	Combination	Min	X	0.000666	394	26.86	17.91	21.1
headroom	1.2(DL+LL-RSY)	Combination	Min	Y	0.001067	35	9.75	28.04	21.1
headroom	1.5(DL+EQX)	Combination		X	0.001478	35	9.75	28.04	21.1
headroom	1.5(DL+EQY)	Combination		Y	0.001674	26	26.86	22.82	21.1
headroom	1.5(DL+RSX)	Combination	Max	X	0.001149	35	9.75	28.04	21.1
headroom	1.5(DL+RSX)	Combination	Max	Y	0.000556	26	26.86	22.82	21.1
headroom	1.5(DL+RSX)	Combination	Min	X	0.001392	394	26.86	17.91	21.1
headroom	1.5(DL+RSX)	Combination	Min	Y	0.000572	39	9.75	23.16	21.1
headroom	1.5(DL+RSY)	Combination	Max	Y	0.001296	26	26.86	22.82	21.1
headroom	1.5(DL+RSY)	Combination	Min	X	0.000621	394	26.86	17.91	21.1
headroom	1.5(DL+RSY)	Combination	Min	Y	0.001252	39	9.75	23.16	21.1
headroom	1.5(DL-EQX)	Combination		X	0.001636	394	26.86	17.91	21.1
headroom	1.5(DL-EQX)	Combination		Y	0.000426	38	5.6	25.91	21.1
headroom	1.5(DL-EQY)	Combination		Y	0.001577	39	9.75	23.16	21.1
headroom	1.5(DL-RSX)	Combination	Max	X	0.001149	35	9.75	28.04	21.1
headroom	1.5(DL-RSX)	Combination	Max	Y	0.000556	26	26.86	22.82	21.1
headroom	1.5(DL-RSX)	Combination	Min	X	0.001392	394	26.86	17.91	21.1
headroom	1.5(DL-RSX)	Combination	Min	Y	0.000572	39	9.75	23.16	21.1
headroom	1.5(DL-RSY)	Combination	Max	Y	0.001296	26	26.86	22.82	21.1
headroom	1.5(DL-RSY)	Combination	Min	X	0.000621	394	26.86	17.91	21.1
headroom	1.5(DL-RSY)	Combination	Min	Y	0.001252	39	9.75	23.16	21.1
headroom	DL+0.8LL+0.8EQX	Combination		X	0.000963	35	9.75	28.04	21.1
headroom	DL+0.8LL+0.8EQX	Combination		Y	0.000316	39	9.75	23.16	21.1
headroom	DL+0.8LL+0.8EQY	Combination		Y	0.000822	26	26.86	22.82	21.1
headroom	DL+0.8LL+0.8RSX	Combination		Y	0.000822	26	26.86	22.82	21.1
headroom	DL+0.8LL-0.8EQX	Combination		X	0.001057	394	26.86	17.91	21.1
headroom	DL+0.8LL-0.8EQX	Combination		Y	0.000291	38	5.6	25.91	21.1
headroom	DL+0.8LL-0.8EQY	Combination		Y	0.000923	39	9.75	23.16	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Max	X	0.000787	35	9.75	28.04	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000226	26	26.86	22.82	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Min	X	0.000926	394	26.86	17.91	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000387	39	9.75	23.16	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Max	Y	0.00062	26	26.86	22.82	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Min	X	0.000515	394	26.86	17.91	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Min	Y	0.00075	39	9.75	23.16	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Max	Y	0.00062	26	26.86	22.82	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Min	X	0.000515	394	26.86	17.91	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Min	Y	0.00075	39	9.75	23.16	21.1
headroom	DL+EQX	Combination		X	0.000985	35	9.75	28.04	21.1
headroom	DL+EQY	Combination		Y	0.001116	26	26.86	22.82	21.1
headroom	DL+RSX	Combination	Max	X	0.000766	35	9.75	28.04	21.1
headroom	DL+RSX	Combination	Max	Y	0.000371	26	26.86	22.82	21.1
headroom	DL+RSX	Combination	Min	X	0.000928	394	26.86	17.91	21.1
headroom	DL+RSX	Combination	Min	Y	0.000381	39	9.75	23.16	21.1
headroom	DL+RSY	Combination	Max	Y	0.000864	26	26.86	22.82	21.1
headroom	DL+RSY	Combination	Min	X	0.000414	394	26.86	17.91	21.1
headroom	DL+RSY	Combination	Min	Y	0.000835	39	9.75	23.16	21.1
headroom	DL-EQX	Combination		X	0.001091	394	26.86	17.91	21.1
headroom	DL-EQX	Combination		Y	0.000284	38	5.6	25.91	21.1
headroom	DL-EQY	Combination		Y	0.001052	39	9.75	23.16	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	DL-RSX	Combination	Max	X	0.000766	35	9.75	28.04	21.1
headroom	DL-RSX	Combination	Max	Y	0.000371	26	26.86	22.82	21.1
headroom	DL-RSX	Combination	Min	X	0.000928	394	26.86	17.91	21.1
headroom	DL-RSX	Combination	Min	Y	0.000381	39	9.75	23.16	21.1
headroom	DL-RSY	Combination	Max	Y	0.000864	26	26.86	22.82	21.1
headroom	DL-RSY	Combination	Min	X	0.000414	394	26.86	17.91	21.1
headroom	DL-RSY	Combination	Min	Y	0.000835	39	9.75	23.16	21.1
headroom	1.5(DL+LL)	Combination		X	0.000747	394	26.86	17.91	21.1
headroom	1.5(DL+LL)	Combination		Y	0.000397	36	7.7	28.04	21.1
headroom	ultimate envelope	Combination	Max	X	0.001478	35	9.75	28.04	21.1
headroom	ultimate envelope	Combination	Max	Y	0.001674	26	26.86	22.82	21.1
headroom	ultimate envelope	Combination	Min	X	0.001636	394	26.86	17.91	21.1
headroom	ultimate envelope	Combination	Min	Y	0.001577	39	9.75	23.16	21.1
headroom	seismic weight	Combination		X	0.000362	394	26.86	17.91	21.1
headroom	seismic weight	Combination		Y	0.00023	38	5.6	25.91	21.1
roof	Dead	LinStatic		X	0.000109	65	36.62	6.32	18.6
roof	Dead	LinStatic		Y	5.5E-05	427	4.11	43.36	18.6
roof	Live	LinStatic		X	3.9E-05	75	26.86	0	18.6
roof	Live	LinStatic		Y	1.3E-05	23	36.62	29.6	18.6
roof	Floor finish	LinStatic		X	3.7E-05	392	36.62	17.91	18.6
roof	Floor finish	LinStatic		Y	3.4E-05	427	4.11	43.36	18.6
roof	sunken filling	LinStatic		Y	1.3E-05	1	36.62	43.36	18.6
roof	wall load	LinStatic		X	8.6E-05	67	26.86	6.32	18.6
roof	sesmic - X	LinStatic		X	0.000909	43	26.86	20.61	18.6
roof	sesmic - Y	LinStatic		Y	0.001088	42	30.67	20.61	18.6
roof	RSX	LinRespSpec	Max	X	0.000788	75	26.86	0	18.6
roof	RSX	LinRespSpec	Max	Y	0.000296	11	36.62	35.2	18.6
roof	RXY	LinRespSpec	Max	Y	0.00083	42	30.67	20.61	18.6
roof	roof live	LinStatic		X	4.1E-05	392	36.62	17.91	18.6
roof	roof live	LinStatic		Y	3.2E-05	427	4.11	43.36	18.6
roof	(DL+LL)	Combination		X	0.000277	65	36.62	6.32	18.6
roof	(DL+LL)	Combination		Y	0.000125	427	4.11	43.36	18.6
roof	09DL+1.5EQX	Combination		X	0.00122	36	7.7	28.04	18.6
roof	09DL-1.5EQX	Combination		X	0.001528	42	30.67	20.61	18.6
roof	0.9DL+1.5RSX	Combination	Max	X	0.001071	80	0	0	18.6
roof	0.9DL+1.5RSX	Combination	Max	Y	0.000453	73	36.62	0	18.6
roof	0.9DL+1.5RSX	Combination	Min	X	0.001369	73	36.62	0	18.6
roof	0.9DL+1.5RSX	Combination	Min	Y	0.000481	1	36.62	43.36	18.6
roof	0.9DL-1.5RSX	Combination	Max	X	0.001071	80	0	0	18.6
roof	0.9DL-1.5RSX	Combination	Max	Y	0.000453	73	36.62	0	18.6
roof	0.9DL-1.5RSX	Combination	Min	X	0.001369	73	36.62	0	18.6
roof	0.9DL-1.5RSX	Combination	Min	Y	0.000481	1	36.62	43.36	18.6
roof	09DL-1.5EQY	Combination		Y	0.001626	1	36.62	43.36	18.6
roof	09DL+1.5EQY	Combination		Y	0.001643	42	30.67	20.61	18.6
roof	0.9DL+1.5RSY	Combination	Max	Y	0.001268	75	26.86	0	18.6
roof	0.9DL+1.5RSY	Combination	Min	X	0.000272	73	36.62	0	18.6
roof	0.9DL+1.5RSY	Combination	Min	Y	0.001266	427	4.11	43.36	18.6
roof	0.9DL-1.5RSY	Combination	Max	Y	0.001268	75	26.86	0	18.6
roof	0.9DL-1.5RSY	Combination	Min	X	0.000272	73	36.62	0	18.6
roof	0.9DL-1.5RSY	Combination	Min	Y	0.001266	427	4.11	43.36	18.6
roof	1.2(DL+LL+EQX)	Combination		X	0.000961	36	7.7	28.04	18.6
roof	1.2(DL+LL-EQX)	Combination		X	0.00139	42	30.67	20.61	18.6
roof	1.2(DL+LL+RSX)	Combination	Max	X	0.00086	80	0	0	18.6
roof	1.2(DL+LL+RSX)	Combination	Max	Y	0.00038	73	36.62	0	18.6
roof	1.2(DL+LL+RSX)	Combination	Min	X	0.001266	73	36.62	0	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	1.2(DL+LL+RSX)	Combination	Min	Y	0.000438	425	0	43.36	18.6
roof	1.2(DL+LL-RSX)	Combination	Max	X	0.00086	80	0	0	18.6
roof	1.2(DL+LL-RSX)	Combination	Max	Y	0.00038	73	36.62	0	18.6
roof	1.2(DL+LL-RSX)	Combination	Min	X	0.001266	73	36.62	0	18.6
roof	1.2(DL+LL-RSX)	Combination	Min	Y	0.000438	425	0	43.36	18.6
roof	1.2(DL+LL+EQY)	Combination		X	0.000375	73	36.62	0	18.6
roof	1.2(DL+LL+EQY)	Combination		Y	0.001336	75	26.86	0	18.6
roof	1.2(DL+LL-EQY)	Combination		X	0.000324	392	36.62	17.91	18.6
roof	1.2(DL+LL-EQY)	Combination		Y	0.001372	427	4.11	43.36	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	X	0.000306	392	36.62	17.91	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	Y	0.001036	75	26.86	0	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	X	0.000388	73	36.62	0	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	Y	0.001097	427	4.11	43.36	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	X	0.000306	392	36.62	17.91	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	Y	0.001036	75	26.86	0	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	X	0.000388	73	36.62	0	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	Y	0.001097	427	4.11	43.36	18.6
roof	1.5(DL+EQX)	Combination		X	0.001197	36	7.7	28.04	18.6
roof	1.5(DL+EQY)	Combination		X	0.000383	73	36.62	0	18.6
roof	1.5(DL+EQY)	Combination		Y	0.001673	75	26.86	0	18.6
roof	1.5(DL+RSX)	Combination	Max	X	0.001072	80	0	0	18.6
roof	1.5(DL+RSX)	Combination	Max	Y	0.000479	73	36.62	0	18.6
roof	1.5(DL+RSX)	Combination	Min	X	0.001496	73	36.62	0	18.6
roof	1.5(DL+RSX)	Combination	Min	Y	0.000505	1	36.62	43.36	18.6
roof	1.5(DL+RSY)	Combination	Max	X	0.000278	392	36.62	17.91	18.6
roof	1.5(DL+RSY)	Combination	Max	Y	0.001298	75	26.86	0	18.6
roof	1.5(DL+RSY)	Combination	Min	X	0.000399	73	36.62	0	18.6
roof	1.5(DL+RSY)	Combination	Min	Y	0.001321	427	4.11	43.36	18.6
roof	1.5(DL-EQX)	Combination		X	0.00164	42	30.67	20.61	18.6
roof	1.5(DL-EQY)	Combination		Y	0.001664	427	4.11	43.36	18.6
roof	1.5(DL-RSX)	Combination	Max	X	0.001072	80	0	0	18.6
roof	1.5(DL-RSX)	Combination	Max	Y	0.000479	73	36.62	0	18.6
roof	1.5(DL-RSX)	Combination	Min	X	0.001496	73	36.62	0	18.6
roof	1.5(DL-RSX)	Combination	Min	Y	0.000505	1	36.62	43.36	18.6
roof	1.5(DL-RSY)	Combination	Max	X	0.000278	392	36.62	17.91	18.6
roof	1.5(DL-RSY)	Combination	Max	Y	0.001298	75	26.86	0	18.6
roof	1.5(DL-RSY)	Combination	Min	X	0.000399	73	36.62	0	18.6
roof	1.5(DL-RSY)	Combination	Min	Y	0.001321	427	4.11	43.36	18.6
roof	DL+0.8LL+0.8EQX	Combination		X	0.000633	36	7.7	28.04	18.6
roof	DL+0.8LL+0.8EQY	Combination		X	0.000292	73	36.62	0	18.6
roof	DL+0.8LL+0.8EQY	Combination		Y	0.000901	75	26.86	0	18.6
roof	DL+0.8LL+0.8RSX	Combination		X	0.000292	73	36.62	0	18.6
roof	DL+0.8LL+0.8RSX	Combination		Y	0.000901	75	26.86	0	18.6
roof	DL+0.8LL-0.8EQX	Combination		X	0.000964	42	30.67	20.61	18.6
roof	DL+0.8LL-0.8EQY	Combination		X	0.000255	392	36.62	17.91	18.6
roof	DL+0.8LL-0.8EQY	Combination		Y	0.000933	427	4.11	43.36	18.6
roof	DL+0.8LL-0.8RSX	Combination	Max	X	0.000574	80	0	0	18.6
roof	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000262	73	36.62	0	18.6
roof	DL+0.8LL-0.8RSX	Combination	Min	X	0.000886	73	36.62	0	18.6
roof	DL+0.8LL-0.8RSX	Combination	Min	Y	0.00031	425	0	43.36	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	X	0.000244	392	36.62	17.91	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000701	75	26.86	0	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	X	0.000301	73	36.62	0	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	Y	0.00075	427	4.11	43.36	18.6
roof	DL+0.8LL-0.8RSY	Combination	Max	X	0.000244	392	36.62	17.91	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000701	75	26.86	0	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	X	0.000301	73	36.62	0	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	Y	0.00075	427	4.11	43.36	18.6
roof	DL+EQX	Combination		X	0.000798	36	7.7	28.04	18.6
roof	DL+EQY	Combination		X	0.000255	73	36.62	0	18.6
roof	DL+EQY	Combination		Y	0.001115	75	26.86	0	18.6
roof	DL+RSX	Combination	Max	X	0.000715	80	0	0	18.6
roof	DL+RSX	Combination	Max	Y	0.000319	73	36.62	0	18.6
roof	DL+RSX	Combination	Min	X	0.000997	73	36.62	0	18.6
roof	DL+RSX	Combination	Min	Y	0.000337	1	36.62	43.36	18.6
roof	DL+RSY	Combination	Max	X	0.000186	392	36.62	17.91	18.6
roof	DL+RSY	Combination	Max	Y	0.000865	75	26.86	0	18.6
roof	DL+RSY	Combination	Min	X	0.000266	73	36.62	0	18.6
roof	DL+RSY	Combination	Min	Y	0.00088	427	4.11	43.36	18.6
roof	DL-EQX	Combination		X	0.001093	42	30.67	20.61	18.6
roof	DL-EQY	Combination		Y	0.001109	427	4.11	43.36	18.6
roof	DL-RSX	Combination	Max	X	0.000715	80	0	0	18.6
roof	DL-RSX	Combination	Max	Y	0.000319	73	36.62	0	18.6
roof	DL-RSX	Combination	Min	X	0.000997	73	36.62	0	18.6
roof	DL-RSX	Combination	Min	Y	0.000337	1	36.62	43.36	18.6
roof	DL-RSY	Combination	Max	X	0.000186	392	36.62	17.91	18.6
roof	DL-RSY	Combination	Max	Y	0.000865	75	26.86	0	18.6
roof	DL-RSY	Combination	Min	X	0.000266	73	36.62	0	18.6
roof	DL-RSY	Combination	Min	Y	0.00088	427	4.11	43.36	18.6
roof	1.5(DL+LL)	Combination		X	0.000416	65	36.62	6.32	18.6
roof	1.5(DL+LL)	Combination		Y	0.000188	427	4.11	43.36	18.6
roof	ultimate envelope	Combination	Max	X	0.00122	36	7.7	28.04	18.6
roof	ultimate envelope	Combination	Max	Y	0.001673	75	26.86	0	18.6
roof	ultimate envelope	Combination	Min	X	0.00164	42	30.67	20.61	18.6
roof	ultimate envelope	Combination	Min	Y	0.001664	427	4.11	43.36	18.6
roof	seismic weight	Combination		X	0.000224	65	36.62	6.32	18.6
roof	seismic weight	Combination		Y	9.1E-05	427	4.11	43.36	18.6
story 5	Dead	LinStatic		X	9.5E-05	75	26.86	0	15.6
story 5	Dead	LinStatic		Y	1.8E-05	80	0	0	15.6
story 5	Live	LinStatic		X	4.6E-05	73	36.62	0	15.6
story 5	Live	LinStatic		Y	1.4E-05	1	36.62	43.36	15.6
story 5	Floor finish	LinStatic		X	3.1E-05	75	26.86	0	15.6
story 5	Floor finish	LinStatic		Y	1.1E-05	80	0	0	15.6
story 5	sunken filling	LinStatic		X	1.5E-05	75	26.86	0	15.6
story 5	sunken filling	LinStatic		Y	1.7E-05	73	36.62	0	15.6
story 5	wall load	LinStatic		X	6.4E-05	74	31.32	0	15.6
story 5	sesmic - X	LinStatic		X	0.001335	81	11.58	43.36	15.6
story 5	sesmic - Y	LinStatic		Y	0.001744	75	26.86	0	15.6
story 5	RSX	LinRespSpec	Max	X	0.001274	74	31.32	0	15.6
story 5	RSX	LinRespSpec	Max	Y	0.000504	1	36.62	43.36	15.6
story 5	RXY	LinRespSpec	Max	Y	0.001367	75	26.86	0	15.6
story 5	roof live	LinStatic		X	1.9E-05	75	26.86	0	15.6
story 5	roof live	LinStatic		Y	1.4E-05	73	36.62	0	15.6
story 5	(DL+LL)	Combination		X	0.000239	74	31.32	0	15.6
story 5	(DL+LL)	Combination		Y	4.4E-05	80	0	0	15.6
story 5	09DL+1.5EQX	Combination		X	0.001921	2	29.34	43.36	15.6
story 5	09DL-1.5EQX	Combination		X	0.002089	427	4.11	43.36	15.6
story 5	0.9DL+1.5RSX	Combination	Max	X	0.001782	79	5.98	0	15.6
story 5	0.9DL+1.5RSX	Combination	Max	Y	0.000755	1	36.62	43.36	15.6
story 5	0.9DL+1.5RSX	Combination	Min	X	0.002068	74	31.32	0	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 5	0.9DL+1.5RSX	Combination	Min	Y	0.000761	23	36.62	29.6	15.6
story 5	0.9DL-1.5RSX	Combination	Max	X	0.001782	79	5.98	0	15.6
story 5	0.9DL-1.5RSX	Combination	Max	Y	0.000755	1	36.62	43.36	15.6
story 5	0.9DL-1.5RSX	Combination	Min	X	0.002068	74	31.32	0	15.6
story 5	0.9DL-1.5RSX	Combination	Min	Y	0.000761	23	36.62	29.6	15.6
story 5	09DL-1.5EQY	Combination		Y	0.002608	75	26.86	0	15.6
story 5	09DL+1.5EQY	Combination		Y	0.002626	67	26.86	6.32	15.6
story 5	0.9DL+1.5RSY	Combination	Max	Y	0.002061	67	26.86	6.32	15.6
story 5	0.9DL+1.5RSY	Combination	Min	Y	0.002076	80	0	0	15.6
story 5	0.9DL-1.5RSY	Combination	Max	Y	0.002061	67	26.86	6.32	15.6
story 5	0.9DL-1.5RSY	Combination	Min	Y	0.002076	80	0	0	15.6
story 5	1.2(DL+LL+EQX)	Combination		X	0.001491	1	36.62	43.36	15.6
story 5	1.2(DL+LL-EQX)	Combination		X	0.001737	425	0	43.36	15.6
story 5	1.2(DL+LL+RSX)	Combination	Max	X	0.001419	77	16.27	0	15.6
story 5	1.2(DL+LL+RSX)	Combination	Max	Y	0.000579	1	36.62	43.36	15.6
story 5	1.2(DL+LL+RSX)	Combination	Min	X	0.001816	74	31.32	0	15.6
story 5	1.2(DL+LL+RSX)	Combination	Min	Y	0.000639	18	36.62	22.82	15.6
story 5	1.2(DL+LL-RSX)	Combination	Max	X	0.001419	77	16.27	0	15.6
story 5	1.2(DL+LL-RSX)	Combination	Max	Y	0.000579	1	36.62	43.36	15.6
story 5	1.2(DL+LL-RSX)	Combination	Min	X	0.001816	74	31.32	0	15.6
story 5	1.2(DL+LL-RSX)	Combination	Min	Y	0.000639	18	36.62	22.82	15.6
story 5	1.2(DL+LL+EQY)	Combination		Y	0.002093	55	26.86	11.58	15.6
story 5	1.2(DL+LL-EQY)	Combination		Y	0.002116	18	36.62	22.82	15.6
story 5	1.2(DL+LL+RSY)	Combination	Max	Y	0.001642	55	26.86	11.58	15.6
story 5	1.2(DL+LL+RSY)	Combination	Min	X	0.000374	75	26.86	0	15.6
story 5	1.2(DL+LL+RSY)	Combination	Min	Y	0.001693	80	0	0	15.6
story 5	1.2(DL+LL-RSY)	Combination	Max	Y	0.001642	55	26.86	11.58	15.6
story 5	1.2(DL+LL-RSY)	Combination	Min	X	0.000374	75	26.86	0	15.6
story 5	1.2(DL+LL-RSY)	Combination	Min	Y	0.001693	80	0	0	15.6
story 5	1.5(DL+EQX)	Combination		X	0.001875	1	36.62	43.36	15.6
story 5	1.5(DL+EQY)	Combination		Y	0.002633	67	26.86	6.32	15.6
story 5	1.5(DL+RSX)	Combination	Max	X	0.001776	77	16.27	0	15.6
story 5	1.5(DL+RSX)	Combination	Max	Y	0.000754	1	36.62	43.36	15.6
story 5	1.5(DL+RSX)	Combination	Min	X	0.002173	74	31.32	0	15.6
story 5	1.5(DL+RSX)	Combination	Min	Y	0.000765	18	36.62	22.82	15.6
story 5	1.5(DL+RSY)	Combination	Max	Y	0.002068	67	26.86	6.32	15.6
story 5	1.5(DL+RSY)	Combination	Min	X	0.000371	74	31.32	0	15.6
story 5	1.5(DL+RSY)	Combination	Min	Y	0.002094	80	0	0	15.6
story 5	1.5(DL-EQX)	Combination		X	0.002147	425	0	43.36	15.6
story 5	1.5(DL-EQY)	Combination		Y	0.002611	18	36.62	22.82	15.6
story 5	1.5(DL-RSX)	Combination	Max	X	0.001776	77	16.27	0	15.6
story 5	1.5(DL-RSX)	Combination	Max	Y	0.000754	1	36.62	43.36	15.6
story 5	1.5(DL-RSX)	Combination	Min	X	0.002173	74	31.32	0	15.6
story 5	1.5(DL-RSX)	Combination	Min	Y	0.000765	18	36.62	22.82	15.6
story 5	1.5(DL-RSY)	Combination	Max	Y	0.002068	67	26.86	6.32	15.6
story 5	1.5(DL-RSY)	Combination	Min	X	0.000371	74	31.32	0	15.6
story 5	1.5(DL-RSY)	Combination	Min	Y	0.002094	80	0	0	15.6
story 5	DL+0.8LL+0.8EQX	Combination		X	0.000979	1	36.62	43.36	15.6
story 5	DL+0.8LL+0.8EQY	Combination		X	0.000261	75	26.86	0	15.6
story 5	DL+0.8LL+0.8EQY	Combination		Y	0.001398	55	26.86	11.58	15.6
story 5	DL+0.8LL+0.8RSX	Combination		X	0.000261	75	26.86	0	15.6
story 5	DL+0.8LL+0.8RSX	Combination		Y	0.001398	55	26.86	11.58	15.6
story 5	DL+0.8LL-0.8EQX	Combination		X	0.001178	425	0	43.36	15.6
story 5	DL+0.8LL-0.8EQY	Combination		Y	0.001412	18	36.62	22.82	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Max	X	0.000944	77	16.27	0	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 5	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000386	1	36.62	43.36	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Min	X	0.001245	74	31.32	0	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000428	18	36.62	22.82	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001097	55	26.86	11.58	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Min	X	0.000284	75	26.86	0	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001134	80	0	0	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001097	55	26.86	11.58	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Min	X	0.000284	75	26.86	0	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001134	80	0	0	15.6
story 5	DL+EQX	Combination		X	0.00125	1	36.62	43.36	15.6
story 5	DL+EQY	Combination		Y	0.001756	67	26.86	6.32	15.6
story 5	DL+RSX	Combination	Max	X	0.001184	77	16.27	0	15.6
story 5	DL+RSX	Combination	Max	Y	0.000502	1	36.62	43.36	15.6
story 5	DL+RSX	Combination	Min	X	0.001449	74	31.32	0	15.6
story 5	DL+RSX	Combination	Min	Y	0.00051	18	36.62	22.82	15.6
story 5	DL+RSY	Combination	Max	Y	0.001379	67	26.86	6.32	15.6
story 5	DL+RSY	Combination	Min	X	0.000247	74	31.32	0	15.6
story 5	DL+RSY	Combination	Min	Y	0.001396	80	0	0	15.6
story 5	DL-EQX	Combination		X	0.001432	425	0	43.36	15.6
story 5	DL-EQY	Combination		Y	0.001741	18	36.62	22.82	15.6
story 5	DL-RSX	Combination	Max	X	0.001184	77	16.27	0	15.6
story 5	DL-RSX	Combination	Max	Y	0.000502	1	36.62	43.36	15.6
story 5	DL-RSX	Combination	Min	X	0.001449	74	31.32	0	15.6
story 5	DL-RSX	Combination	Min	Y	0.00051	18	36.62	22.82	15.6
story 5	DL-RSY	Combination	Max	Y	0.001379	67	26.86	6.32	15.6
story 5	DL-RSY	Combination	Min	X	0.000247	74	31.32	0	15.6
story 5	DL-RSY	Combination	Min	Y	0.001396	80	0	0	15.6
story 5	1.5(DL+LL)	Combination		X	0.000359	74	31.32	0	15.6
story 5	1.5(DL+LL)	Combination		Y	6.6E-05	80	0	0	15.6
story 5	ultimate envelope	Combination	Max	X	0.001921	2	29.34	43.36	15.6
story 5	ultimate envelope	Combination	Max	Y	0.002633	67	26.86	6.32	15.6
story 5	ultimate envelope	Combination	Min	X	0.002173	74	31.32	0	15.6
story 5	ultimate envelope	Combination	Min	Y	0.002611	18	36.62	22.82	15.6
story 5	seismic weight	Combination		X	0.000187	74	31.32	0	15.6
story 4	Dead	LinStatic		X	8.2E-05	73	36.62	0	12.6
story 4	Dead	LinStatic		Y	1.5E-05	95	0	6.13	12.6
story 4	Live	LinStatic		X	4.4E-05	75	26.86	0	12.6
story 4	Live	LinStatic		Y	1.1E-05	73	36.62	0	12.6
story 4	Floor finish	LinStatic		X	2.9E-05	75	26.86	0	12.6
story 4	Floor finish	LinStatic		Y	8E-06	95	0	6.13	12.6
story 4	sunken filling	LinStatic		X	1.3E-05	73	36.62	0	12.6
story 4	sunken filling	LinStatic		Y	1.6E-05	392	36.62	17.91	12.6
story 4	wall load	LinStatic		X	5E-05	73	36.62	0	12.6
story 4	wall load	LinStatic		Y	1.1E-05	80	0	0	12.6
story 4	sesmic - X	LinStatic		X	0.001724	425	0	43.36	12.6
story 4	sesmic - Y	LinStatic		Y	0.002291	75	26.86	0	12.6
story 4	RSX	LinRespSpec	Max	X	0.001708	73	36.62	0	12.6
story 4	RSX	LinRespSpec	Max	Y	0.000688	1	36.62	43.36	12.6
story 4	RXY	LinRespSpec	Max	Y	0.001879	80	0	0	12.6
story 4	roof live	LinStatic		X	1.4E-05	73	36.62	0	12.6
story 4	roof live	LinStatic		Y	8E-06	65	36.62	6.32	12.6
story 4	(DL+LL)	Combination		X	0.000205	73	36.62	0	12.6
story 4	(DL+LL)	Combination		Y	4E-05	95	0	6.13	12.6
story 4	09DL+1.5EQX	Combination		X	0.0025	425	0	43.36	12.6
story 4	09DL-1.5EQX	Combination		X	0.002673	425	0	43.36	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	0.9DL+1.5RSX	Combination	Max	X	0.002447	80	0	0	12.6
story 4	0.9DL+1.5RSX	Combination	Max	Y	0.001038	1	36.62	43.36	12.6
story 4	0.9DL+1.5RSX	Combination	Min	X	0.002695	73	36.62	0	12.6
story 4	0.9DL+1.5RSX	Combination	Min	Y	0.001028	65	36.62	6.32	12.6
story 4	0.9DL-1.5RSX	Combination	Max	X	0.002447	80	0	0	12.6
story 4	0.9DL-1.5RSX	Combination	Max	Y	0.001038	1	36.62	43.36	12.6
story 4	0.9DL-1.5RSX	Combination	Min	X	0.002695	73	36.62	0	12.6
story 4	0.9DL-1.5RSX	Combination	Min	Y	0.001028	65	36.62	6.32	12.6
story 4	09DL-1.5EQY	Combination		Y	0.003453	80	0	0	12.6
story 4	09DL+1.5EQY	Combination		Y	0.003451	75	26.86	0	12.6
story 4	0.9DL+1.5RSY	Combination	Max	Y	0.002794	80	0	0	12.6
story 4	0.9DL+1.5RSY	Combination	Min	Y	0.002844	80	0	0	12.6
story 4	0.9DL-1.5RSY	Combination	Max	Y	0.002794	80	0	0	12.6
story 4	0.9DL-1.5RSY	Combination	Min	Y	0.002844	80	0	0	12.6
story 4	1.2(DL+LL+EQX)	Combination		X	0.001943	1	36.62	43.36	12.6
story 4	1.2(DL+LL-EQX)	Combination		X	0.002204	425	0	43.36	12.6
story 4	1.2(DL+LL+RSX)	Combination	Max	X	0.00195	80	0	0	12.6
story 4	1.2(DL+LL+RSX)	Combination	Max	Y	0.000814	1	36.62	43.36	12.6
story 4	1.2(DL+LL+RSX)	Combination	Min	X	0.002296	73	36.62	0	12.6
story 4	1.2(DL+LL+RSX)	Combination	Min	Y	0.000845	65	36.62	6.32	12.6
story 4	1.2(DL+LL-RSX)	Combination	Max	X	0.00195	80	0	0	12.6
story 4	1.2(DL+LL-RSX)	Combination	Max	Y	0.000814	1	36.62	43.36	12.6
story 4	1.2(DL+LL-RSX)	Combination	Min	X	0.002296	73	36.62	0	12.6
story 4	1.2(DL+LL-RSX)	Combination	Min	Y	0.000845	65	36.62	6.32	12.6
story 4	1.2(DL+LL+EQY)	Combination		Y	0.00276	75	26.86	0	12.6
story 4	1.2(DL+LL-EQY)	Combination		Y	0.00279	95	0	6.13	12.6
story 4	1.2(DL+LL+RSY)	Combination	Max	Y	0.002219	77	16.27	0	12.6
story 4	1.2(DL+LL+RSY)	Combination	Min	X	0.000361	73	36.62	0	12.6
story 4	1.2(DL+LL+RSY)	Combination	Min	Y	0.002303	95	0	6.13	12.6
story 4	1.2(DL+LL-RSY)	Combination	Max	Y	0.002219	77	16.27	0	12.6
story 4	1.2(DL+LL-RSY)	Combination	Min	X	0.000361	73	36.62	0	12.6
story 4	1.2(DL+LL-RSY)	Combination	Min	Y	0.002303	95	0	6.13	12.6
story 4	1.5(DL+EQX)	Combination		X	0.002448	1	36.62	43.36	12.6
story 4	1.5(DL+EQY)	Combination		Y	0.003462	75	26.86	0	12.6
story 4	1.5(DL+RSX)	Combination	Max	X	0.002442	80	0	0	12.6
story 4	1.5(DL+RSX)	Combination	Max	Y	0.001042	1	36.62	43.36	12.6
story 4	1.5(DL+RSX)	Combination	Min	X	0.002784	73	36.62	0	12.6
story 4	1.5(DL+RSX)	Combination	Min	Y	0.001028	65	36.62	6.32	12.6
story 4	1.5(DL+RSY)	Combination	Max	Y	0.002784	75	26.86	0	12.6
story 4	1.5(DL+RSY)	Combination	Min	Y	0.002861	95	0	6.13	12.6
story 4	1.5(DL-EQX)	Combination		X	0.00273	425	0	43.36	12.6
story 4	1.5(DL-EQY)	Combination		Y	0.00347	95	0	6.13	12.6
story 4	1.5(DL-RSX)	Combination	Max	X	0.002442	80	0	0	12.6
story 4	1.5(DL-RSX)	Combination	Max	Y	0.001042	1	36.62	43.36	12.6
story 4	1.5(DL-RSX)	Combination	Min	X	0.002784	73	36.62	0	12.6
story 4	1.5(DL-RSX)	Combination	Min	Y	0.001028	65	36.62	6.32	12.6
story 4	1.5(DL-RSY)	Combination	Max	Y	0.002784	75	26.86	0	12.6
story 4	1.5(DL-RSY)	Combination	Min	Y	0.002861	95	0	6.13	12.6
story 4	DL+0.8LL+0.8EQX	Combination		X	0.001278	1	36.62	43.36	12.6
story 4	DL+0.8LL+0.8EQY	Combination		Y	0.001844	75	26.86	0	12.6
story 4	DL+0.8LL+0.8RSX	Combination		Y	0.001844	75	26.86	0	12.6
story 4	DL+0.8LL-0.8EQX	Combination		X	0.001488	425	0	43.36	12.6
story 4	DL+0.8LL-0.8EQY	Combination		Y	0.001866	95	0	6.13	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Max	X	0.001298	80	0	0	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000544	1	36.62	43.36	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	DL+0.8LL-0.8RSX	Combination	Min	X	0.00156	73	36.62	0	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000563	65	36.62	6.32	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001482	75	26.86	0	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Min	X	0.00027	73	36.62	0	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001541	95	0	6.13	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001482	75	26.86	0	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Min	X	0.00027	73	36.62	0	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001541	95	0	6.13	12.6
story 4	DL+EQX	Combination		X	0.001632	1	36.62	43.36	12.6
story 4	DL+EQY	Combination		Y	0.002308	75	26.86	0	12.6
story 4	DL+RSX	Combination	Max	X	0.001628	80	0	0	12.6
story 4	DL+RSX	Combination	Max	Y	0.000695	1	36.62	43.36	12.6
story 4	DL+RSX	Combination	Min	X	0.001856	73	36.62	0	12.6
story 4	DL+RSX	Combination	Min	Y	0.000686	65	36.62	6.32	12.6
story 4	DL+RSY	Combination	Max	Y	0.001856	75	26.86	0	12.6
story 4	DL+RSY	Combination	Min	Y	0.001907	95	0	6.13	12.6
story 4	DL-EQX	Combination		X	0.00182	425	0	43.36	12.6
story 4	DL-EQY	Combination		Y	0.002313	95	0	6.13	12.6
story 4	DL-RSX	Combination	Max	X	0.001628	80	0	0	12.6
story 4	DL-RSX	Combination	Max	Y	0.000695	1	36.62	43.36	12.6
story 4	DL-RSX	Combination	Min	X	0.001856	73	36.62	0	12.6
story 4	DL-RSX	Combination	Min	Y	0.000686	65	36.62	6.32	12.6
story 4	DL-RSY	Combination	Max	Y	0.001856	75	26.86	0	12.6
story 4	DL-RSY	Combination	Min	Y	0.001907	95	0	6.13	12.6
story 4	1.5(DL+LL)	Combination		X	0.000308	73	36.62	0	12.6
story 4	1.5(DL+LL)	Combination		Y	6.1E-05	95	0	6.13	12.6
story 4	ultimate envelope	Combination	Max	X	0.0025	425	0	43.36	12.6
story 4	ultimate envelope	Combination	Max	Y	0.003462	75	26.86	0	12.6
story 4	ultimate envelope	Combination	Min	X	0.002784	73	36.62	0	12.6
story 4	ultimate envelope	Combination	Min	Y	0.00347	95	0	6.13	12.6
story 4	seismic weight	Combination		X	0.000158	73	36.62	0	12.6
story 3	Dead	LinStatic		X	7.7E-05	73	36.62	0	9.6
story 3	Dead	LinStatic		Y	2.1E-05	80	0	0	9.6
story 3	Live	LinStatic		X	4.1E-05	73	36.62	0	9.6
story 3	Live	LinStatic		Y	1.1E-05	80	0	0	9.6
story 3	Floor finish	LinStatic		X	2.9E-05	73	36.62	0	9.6
story 3	Floor finish	LinStatic		Y	1.1E-05	80	0	0	9.6
story 3	sunken filling	LinStatic		X	1.1E-05	73	36.62	0	9.6
story 3	sunken filling	LinStatic		Y	1.5E-05	73	36.62	0	9.6
story 3	wall load	LinStatic		X	3.8E-05	74	31.32	0	9.6
story 3	wall load	LinStatic		Y	1.2E-05	80	0	0	9.6
story 3	sesmic - X	LinStatic		X	0.00199	81	11.58	43.36	9.6
story 3	sesmic - Y	LinStatic		Y	0.002698	95	0	6.13	9.6
story 3	RSX	LinRespSpec	Max	X	0.002067	75	26.86	0	9.6
story 3	RSX	LinRespSpec	Max	Y	0.000843	11	36.62	35.2	9.6
story 3	RXY	LinRespSpec	Max	Y	0.002317	95	0	6.13	9.6
story 3	roof live	LinStatic		X	9E-06	75	26.86	0	9.6
story 3	roof live	LinStatic		Y	6E-06	73	36.62	0	9.6
story 3	(DL+LL)	Combination		X	0.000183	73	36.62	0	9.6
story 3	(DL+LL)	Combination		Y	5.3E-05	80	0	0	9.6
story 3	09DL+1.5EQX	Combination		X	0.002902	2	29.34	43.36	9.6
story 3	09DL-1.5EQX	Combination		X	0.003072	427	4.11	43.36	9.6
story 3	0.9DL+1.5RSX	Combination	Max	X	0.003015	76	19.43	0	9.6
story 3	0.9DL+1.5RSX	Combination	Max	Y	0.00128	1	36.62	43.36	9.6
story 3	0.9DL+1.5RSX	Combination	Min	X	0.003218	75	26.86	0	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 3	0.9DL+1.5RSX	Combination	Min	Y	0.001264	73	36.62	0	9.6
story 3	0.9DL-1.5RSX	Combination	Max	X	0.003015	76	19.43	0	9.6
story 3	0.9DL-1.5RSX	Combination	Max	Y	0.00128	1	36.62	43.36	9.6
story 3	0.9DL-1.5RSX	Combination	Min	X	0.003218	75	26.86	0	9.6
story 3	0.9DL-1.5RSX	Combination	Min	Y	0.001264	73	36.62	0	9.6
story 3	09DL-1.5EQY	Combination		Y	0.004082	80	0	0	9.6
story 3	09DL+1.5EQY	Combination		Y	0.00404	55	26.86	11.58	9.6
story 3	0.9DL+1.5RSY	Combination	Max	Y	0.003445	32	0	29.6	9.6
story 3	0.9DL+1.5RSY	Combination	Min	Y	0.003511	80	0	0	9.6
story 3	0.9DL-1.5RSY	Combination	Max	Y	0.003445	32	0	29.6	9.6
story 3	0.9DL-1.5RSY	Combination	Min	Y	0.003511	80	0	0	9.6
story 3	1.2(DL+LL+EQX)	Combination		X	0.002263	2	29.34	43.36	9.6
story 3	1.2(DL+LL-EQX)	Combination		X	0.002524	427	4.11	43.36	9.6
story 3	1.2(DL+LL+RSX)	Combination	Max	X	0.002409	76	19.43	0	9.6
story 3	1.2(DL+LL+RSX)	Combination	Max	Y	0.001019	1	36.62	43.36	9.6
story 3	1.2(DL+LL+RSX)	Combination	Min	X	0.002697	75	26.86	0	9.6
story 3	1.2(DL+LL+RSX)	Combination	Min	Y	0.001031	73	36.62	0	9.6
story 3	1.2(DL+LL-RSX)	Combination	Max	X	0.002409	76	19.43	0	9.6
story 3	1.2(DL+LL-RSX)	Combination	Max	Y	0.001019	1	36.62	43.36	9.6
story 3	1.2(DL+LL-RSX)	Combination	Min	X	0.002697	75	26.86	0	9.6
story 3	1.2(DL+LL-RSX)	Combination	Min	Y	0.001031	73	36.62	0	9.6
story 3	1.2(DL+LL+EQY)	Combination		Y	0.003234	55	26.86	11.58	9.6
story 3	1.2(DL+LL-EQY)	Combination		Y	0.003301	80	0	0	9.6
story 3	1.2(DL+LL+RSY)	Combination	Max	Y	0.00273	425	0	43.36	9.6
story 3	1.2(DL+LL+RSY)	Combination	Min	Y	0.002843	80	0	0	9.6
story 3	1.2(DL+LL-RSY)	Combination	Max	Y	0.00273	425	0	43.36	9.6
story 3	1.2(DL+LL-RSY)	Combination	Min	Y	0.002843	80	0	0	9.6
story 3	1.5(DL+EQX)	Combination		X	0.002849	2	29.34	43.36	9.6
story 3	1.5(DL+EQY)	Combination		Y	0.004051	55	26.86	11.58	9.6
story 3	1.5(DL+RSX)	Combination	Max	X	0.003015	76	19.43	0	9.6
story 3	1.5(DL+RSX)	Combination	Max	Y	0.00129	1	36.62	43.36	9.6
story 3	1.5(DL+RSX)	Combination	Min	X	0.003296	75	26.86	0	9.6
story 3	1.5(DL+RSX)	Combination	Min	Y	0.001264	73	36.62	0	9.6
story 3	1.5(DL+RSY)	Combination	Max	Y	0.003427	425	0	43.36	9.6
story 3	1.5(DL+RSY)	Combination	Min	Y	0.003534	80	0	0	9.6
story 3	1.5(DL-EQX)	Combination		X	0.003131	427	4.11	43.36	9.6
story 3	1.5(DL-EQY)	Combination		Y	0.004106	80	0	0	9.6
story 3	1.5(DL-RSX)	Combination	Max	X	0.003015	76	19.43	0	9.6
story 3	1.5(DL-RSX)	Combination	Max	Y	0.00129	1	36.62	43.36	9.6
story 3	1.5(DL-RSX)	Combination	Min	X	0.003296	75	26.86	0	9.6
story 3	1.5(DL-RSX)	Combination	Min	Y	0.001264	73	36.62	0	9.6
story 3	1.5(DL-RSY)	Combination	Max	Y	0.003427	425	0	43.36	9.6
story 3	1.5(DL-RSY)	Combination	Min	Y	0.003534	80	0	0	9.6
story 3	DL+0.8LL+0.8EQX	Combination		X	0.001491	2	29.34	43.36	9.6
story 3	DL+0.8LL+0.8EQY	Combination		Y	0.00216	55	26.86	11.58	9.6
story 3	DL+0.8LL+0.8RSX	Combination		Y	0.00216	55	26.86	11.58	9.6
story 3	DL+0.8LL-0.8EQX	Combination		X	0.001702	427	4.11	43.36	9.6
story 3	DL+0.8LL-0.8EQY	Combination		Y	0.002208	80	0	0	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Max	X	0.001606	76	19.43	0	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000683	1	36.62	43.36	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Min	X	0.001824	75	26.86	0	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000687	73	36.62	0	9.6
story 3	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001815	93	19.43	17.91	9.6
story 3	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001903	80	0	0	9.6
story 3	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001815	93	19.43	17.91	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 3	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001903	80	0	0	9.6
story 3	DL+EQX	Combination		X	0.001899	2	29.34	43.36	9.6
story 3	DL+EQY	Combination		Y	0.002701	55	26.86	11.58	9.6
story 3	DL+RSX	Combination	Max	X	0.00201	76	19.43	0	9.6
story 3	DL+RSX	Combination	Max	Y	0.00086	1	36.62	43.36	9.6
story 3	DL+RSX	Combination	Min	X	0.002197	75	26.86	0	9.6
story 3	DL+RSX	Combination	Min	Y	0.000843	73	36.62	0	9.6
story 3	DL+RSY	Combination	Max	Y	0.002285	425	0	43.36	9.6
story 3	DL+RSY	Combination	Min	Y	0.002356	80	0	0	9.6
story 3	DL-EQX	Combination		X	0.002087	427	4.11	43.36	9.6
story 3	DL-EQY	Combination		Y	0.002737	80	0	0	9.6
story 3	DL-RSX	Combination	Max	X	0.00201	76	19.43	0	9.6
story 3	DL-RSX	Combination	Max	Y	0.00086	1	36.62	43.36	9.6
story 3	DL-RSX	Combination	Min	X	0.002197	75	26.86	0	9.6
story 3	DL-RSX	Combination	Min	Y	0.000843	73	36.62	0	9.6
story 3	DL-RSY	Combination	Max	Y	0.002285	425	0	43.36	9.6
story 3	DL-RSY	Combination	Min	Y	0.002356	80	0	0	9.6
story 3	1.5(DL+LL)	Combination		X	0.000274	73	36.62	0	9.6
story 3	1.5(DL+LL)	Combination		Y	7.9E-05	80	0	0	9.6
story 3	ultimate envelope	Combination	Max	X	0.003015	76	19.43	0	9.6
story 3	ultimate envelope	Combination	Max	Y	0.004051	55	26.86	11.58	9.6
story 3	ultimate envelope	Combination	Min	X	0.003296	75	26.86	0	9.6
story 3	ultimate envelope	Combination	Min	Y	0.004106	80	0	0	9.6
story 3	seismic weight	Combination		X	0.000143	73	36.62	0	9.6
story 3	seismic weight	Combination		Y	4.2E-05	80	0	0	9.6
story 2	Dead	LinStatic		X	9.2E-05	75	26.86	0	6.6
story 2	Dead	LinStatic		Y	3.8E-05	425	0	43.36	6.6
story 2	Live	LinStatic		X	4.4E-05	75	26.86	0	6.6
story 2	Live	LinStatic		Y	1.7E-05	427	4.11	43.36	6.6
story 2	Floor finish	LinStatic		X	3.9E-05	75	26.86	0	6.6
story 2	Floor finish	LinStatic		Y	1.9E-05	427	4.11	43.36	6.6
story 2	sunken filling	LinStatic		Y	1.4E-05	73	36.62	0	6.6
story 2	wall load	LinStatic		X	2.9E-05	1	36.62	43.36	6.6
story 2	wall load	LinStatic		Y	1.9E-05	425	0	43.36	6.6
story 2	sesmic - X	LinStatic		X	0.002203	425	0	43.36	6.6
story 2	sesmic - Y	LinStatic		Y	0.003138	81	11.58	43.36	6.6
story 2	RSX	LinRespSpec	Max	X	0.002342	73	36.62	0	6.6
story 2	RSX	LinRespSpec	Max	Y	0.001004	1	36.62	43.36	6.6
story 2	RXY	LinRespSpec	Max	Y	0.002862	427	4.11	43.36	6.6
story 2	roof live	LinStatic		X	5E-06	75	26.86	0	6.6
story 2	roof live	LinStatic		Y	4E-06	65	36.62	6.32	6.6
story 2	(DL+LL)	Combination		X	0.000194	75	26.86	0	6.6
story 2	(DL+LL)	Combination		Y	9.4E-05	425	0	43.36	6.6
story 2	09DL+1.5EQX	Combination		X	0.003227	425	0	43.36	6.6
story 2	09DL-1.5EQX	Combination		X	0.003396	1	36.62	43.36	6.6
story 2	0.9DL+1.5RSX	Combination	Max	X	0.003551	80	0	0	6.6
story 2	0.9DL+1.5RSX	Combination	Max	Y	0.001508	73	36.62	0	6.6
story 2	0.9DL+1.5RSX	Combination	Min	X	0.003642	73	36.62	0	6.6
story 2	0.9DL+1.5RSX	Combination	Min	Y	0.001513	1	36.62	43.36	6.6
story 2	0.9DL-1.5RSX	Combination	Max	X	0.003551	80	0	0	6.6
story 2	0.9DL-1.5RSX	Combination	Max	Y	0.001508	73	36.62	0	6.6
story 2	0.9DL-1.5RSX	Combination	Min	X	0.003642	73	36.62	0	6.6
story 2	0.9DL-1.5RSX	Combination	Min	Y	0.001513	1	36.62	43.36	6.6
story 2	09DL-1.5EQY	Combination		Y	0.004752	427	4.11	43.36	6.6
story 2	09DL+1.5EQY	Combination		Y	0.00469	3	20.65	43.36	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	0.9DL+1.5RSY	Combination	Max	Y	0.004245	79	5.98	0	6.6
story 2	0.9DL+1.5RSY	Combination	Min	Y	0.004358	427	4.11	43.36	6.6
story 2	0.9DL-1.5RSY	Combination	Max	Y	0.004245	79	5.98	0	6.6
story 2	0.9DL-1.5RSY	Combination	Min	Y	0.004358	427	4.11	43.36	6.6
story 2	1.2(DL+LL+EQX)	Combination		X	0.002521	425	0	43.36	6.6
story 2	1.2(DL+LL-EQX)	Combination		X	0.002794	1	36.62	43.36	6.6
story 2	1.2(DL+LL+RSX)	Combination	Max	X	0.002879	80	0	0	6.6
story 2	1.2(DL+LL+RSX)	Combination	Max	Y	0.00121	73	36.62	0	6.6
story 2	1.2(DL+LL+RSX)	Combination	Min	X	0.00304	73	36.62	0	6.6
story 2	1.2(DL+LL+RSX)	Combination	Min	Y	0.00123	1	36.62	43.36	6.6
story 2	1.2(DL+LL-RSX)	Combination	Max	X	0.002879	80	0	0	6.6
story 2	1.2(DL+LL-RSX)	Combination	Max	Y	0.00121	73	36.62	0	6.6
story 2	1.2(DL+LL-RSX)	Combination	Min	X	0.00304	73	36.62	0	6.6
story 2	1.2(DL+LL-RSX)	Combination	Min	Y	0.00123	1	36.62	43.36	6.6
story 2	1.2(DL+LL+EQY)	Combination		Y	0.003746	77	16.27	0	6.6
story 2	1.2(DL+LL-EQY)	Combination		Y	0.003858	427	4.11	43.36	6.6
story 2	1.2(DL+LL+RSY)	Combination	Max	Y	0.003389	77	16.27	0	6.6
story 2	1.2(DL+LL+RSY)	Combination	Min	Y	0.003542	427	4.11	43.36	6.6
story 2	1.2(DL+LL-RSY)	Combination	Max	Y	0.003389	77	16.27	0	6.6
story 2	1.2(DL+LL-RSY)	Combination	Min	Y	0.003542	427	4.11	43.36	6.6
story 2	1.5(DL+EQX)	Combination		X	0.003174	425	0	43.36	6.6
story 2	1.5(DL+EQY)	Combination		Y	0.004691	3	20.65	43.36	6.6
story 2	1.5(DL+RSX)	Combination	Max	X	0.003584	80	0	0	6.6
story 2	1.5(DL+RSX)	Combination	Max	Y	0.001523	73	36.62	0	6.6
story 2	1.5(DL+RSX)	Combination	Min	X	0.003728	73	36.62	0	6.6
story 2	1.5(DL+RSX)	Combination	Min	Y	0.001518	1	36.62	43.36	6.6
story 2	1.5(DL+RSY)	Combination	Max	Y	0.004238	77	16.27	0	6.6
story 2	1.5(DL+RSY)	Combination	Min	Y	0.004401	427	4.11	43.36	6.6
story 2	1.5(DL-EQX)	Combination		X	0.003465	1	36.62	43.36	6.6
story 2	1.5(DL-EQY)	Combination		Y	0.004796	427	4.11	43.36	6.6
story 2	1.5(DL-RSX)	Combination	Max	X	0.003584	80	0	0	6.6
story 2	1.5(DL-RSX)	Combination	Max	Y	0.001523	73	36.62	0	6.6
story 2	1.5(DL-RSX)	Combination	Min	X	0.003728	73	36.62	0	6.6
story 2	1.5(DL-RSX)	Combination	Min	Y	0.001518	1	36.62	43.36	6.6
story 2	1.5(DL-RSY)	Combination	Max	Y	0.004238	77	16.27	0	6.6
story 2	1.5(DL-RSY)	Combination	Min	Y	0.004401	427	4.11	43.36	6.6
story 2	DL+0.8LL+0.8EQX	Combination		X	0.001663	425	0	43.36	6.6
story 2	DL+0.8LL+0.8EQY	Combination		Y	0.002501	77	16.27	0	6.6
story 2	DL+0.8LL+0.8RSX	Combination		Y	0.002501	77	16.27	0	6.6
story 2	DL+0.8LL-0.8EQX	Combination		X	0.001886	1	36.62	43.36	6.6
story 2	DL+0.8LL-0.8EQY	Combination		Y	0.002586	427	4.11	43.36	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Max	X	0.00193	80	0	0	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000812	73	36.62	0	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Min	X	0.002055	73	36.62	0	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000821	1	36.62	43.36	6.6
story 2	DL+0.8LL+0.8RSY	Combination	Max	Y	0.002263	77	16.27	0	6.6
story 2	DL+0.8LL+0.8RSY	Combination	Min	Y	0.002376	427	4.11	43.36	6.6
story 2	DL+0.8LL-0.8RSY	Combination	Max	Y	0.002263	77	16.27	0	6.6
story 2	DL+0.8LL-0.8RSY	Combination	Min	Y	0.002376	427	4.11	43.36	6.6
story 2	DL+EQX	Combination		X	0.002116	425	0	43.36	6.6
story 2	DL+EQY	Combination		Y	0.003128	3	20.65	43.36	6.6
story 2	DL+RSX	Combination	Max	X	0.002389	80	0	0	6.6
story 2	DL+RSX	Combination	Max	Y	0.001015	73	36.62	0	6.6
story 2	DL+RSX	Combination	Min	X	0.002486	73	36.62	0	6.6
story 2	DL+RSX	Combination	Min	Y	0.001012	1	36.62	43.36	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	DL+RSY	Combination	Max	Y	0.002825	77	16.27	0	6.6
story 2	DL+RSY	Combination	Min	Y	0.002934	427	4.11	43.36	6.6
story 2	DL-EQX	Combination		X	0.00231	1	36.62	43.36	6.6
story 2	DL-EQY	Combination		Y	0.003197	427	4.11	43.36	6.6
story 2	DL-RSX	Combination	Max	X	0.002389	80	0	0	6.6
story 2	DL-RSX	Combination	Max	Y	0.001015	73	36.62	0	6.6
story 2	DL-RSX	Combination	Min	X	0.002486	73	36.62	0	6.6
story 2	DL-RSX	Combination	Min	Y	0.001012	1	36.62	43.36	6.6
story 2	DL-RSY	Combination	Max	Y	0.002825	77	16.27	0	6.6
story 2	DL-RSY	Combination	Min	Y	0.002934	427	4.11	43.36	6.6
story 2	1.5(DL+LL)	Combination		X	0.00029	75	26.86	0	6.6
story 2	1.5(DL+LL)	Combination		Y	0.000141	425	0	43.36	6.6
story 2	ultimate envelope	Combination	Max	X	0.003584	80	0	0	6.6
story 2	ultimate envelope	Combination	Max	Y	0.004691	3	20.65	43.36	6.6
story 2	ultimate envelope	Combination	Min	X	0.003728	73	36.62	0	6.6
story 2	ultimate envelope	Combination	Min	Y	0.004796	427	4.11	43.36	6.6
story 2	seismic weight	Combination		X	0.000156	75	26.86	0	6.6
story 2	seismic weight	Combination		Y	8.1E-05	425	0	43.36	6.6
story 1	Dead	LinStatic		X	3.4E-05	43	26.86	20.61	3.6
story 1	Dead	LinStatic		Y	3.5E-05	89	14.74	29.6	3.6
story 1	Live	LinStatic		X	1.4E-05	11	36.62	35.2	3.6
story 1	Floor finish	LinStatic		X	1.5E-05	11	36.62	35.2	3.6
story 1	sunken filling	LinStatic		X	7E-06	7	29.34	38.37	3.6
story 1	sunken filling	LinStatic		Y	9E-06	74	31.32	0	3.6
story 1	wall load	LinStatic		X	1.2E-05	22	33.45	33.38	3.6
story 1	wall load	LinStatic		Y	2.2E-05	89	14.74	29.6	3.6
story 1	sesmic - X	LinStatic		X	0.002636	3	20.65	43.36	3.6
story 1	sesmic - Y	LinStatic		Y	0.004197	74	31.32	0	3.6
story 1	RSX	LinRespSpec	Max	X	0.002981	73	36.62	0	3.6
story 1	RSX	LinRespSpec	Max	Y	0.001358	1	36.62	43.36	3.6
story 1	RXY	LinRespSpec	Max	Y	0.00412	79	5.98	0	3.6
story 1	roof live	LinStatic		X	2E-06	73	36.62	0	3.6
story 1	roof live	LinStatic		Y	2E-06	73	36.62	0	3.6
story 1	(DL+LL)	Combination		X	8E-05	11	36.62	35.2	3.6
story 1	(DL+LL)	Combination		Y	9.3E-05	89	14.74	29.6	3.6
story 1	09DL+1.5EQX	Combination		X	0.003905	3	20.65	43.36	3.6
story 1	09DL-1.5EQX	Combination		X	0.004005	2	29.34	43.36	3.6
story 1	0.9DL+1.5RSX	Combination	Max	X	0.004459	78	9.75	0	3.6
story 1	0.9DL+1.5RSX	Combination	Max	Y	0.002037	11	36.62	35.2	3.6
story 1	0.9DL+1.5RSX	Combination	Min	X	0.004495	73	36.62	0	3.6
story 1	0.9DL+1.5RSX	Combination	Min	Y	0.002041	1	36.62	43.36	3.6
story 1	0.9DL-1.5RSX	Combination	Max	X	0.004459	78	9.75	0	3.6
story 1	0.9DL-1.5RSX	Combination	Max	Y	0.002037	11	36.62	35.2	3.6
story 1	0.9DL-1.5RSX	Combination	Min	X	0.004495	73	36.62	0	3.6
story 1	0.9DL-1.5RSX	Combination	Min	Y	0.002041	1	36.62	43.36	3.6
story 1	09DL-1.5EQY	Combination		Y	0.006286	79	5.98	0	3.6
story 1	09DL+1.5EQY	Combination		Y	0.006318	74	31.32	0	3.6
story 1	0.9DL+1.5RSY	Combination	Max	Y	0.006184	79	5.98	0	3.6
story 1	0.9DL+1.5RSY	Combination	Min	Y	0.006175	79	5.98	0	3.6
story 1	0.9DL-1.5RSY	Combination	Max	Y	0.006184	79	5.98	0	3.6
story 1	0.9DL-1.5RSY	Combination	Min	Y	0.006175	79	5.98	0	3.6
story 1	1.2(DL+LL+EQX)	Combination		X	0.003085	81	11.58	43.36	3.6
story 1	1.2(DL+LL-EQX)	Combination		X	0.003245	2	29.34	43.36	3.6
story 1	1.2(DL+LL+RSX)	Combination	Max	X	0.003567	80	0	0	3.6
story 1	1.2(DL+LL+RSX)	Combination	Max	Y	0.001629	73	36.62	0	3.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 1	1.2(DL+LL+RSX)	Combination	Min	X	0.003621	73	36.62	0	3.6
story 1	1.2(DL+LL+RSX)	Combination	Min	Y	0.001641	1	36.62	43.36	3.6
story 1	1.2(DL+LL-RSX)	Combination	Max	X	0.003567	80	0	0	3.6
story 1	1.2(DL+LL-RSX)	Combination	Max	Y	0.001629	73	36.62	0	3.6
story 1	1.2(DL+LL-RSX)	Combination	Min	X	0.003621	73	36.62	0	3.6
story 1	1.2(DL+LL-RSX)	Combination	Min	Y	0.001641	1	36.62	43.36	3.6
story 1	1.2(DL+LL+EQY)	Combination		Y	0.005066	74	31.32	0	3.6
story 1	1.2(DL+LL-EQY)	Combination		Y	0.005028	79	5.98	0	3.6
story 1	1.2(DL+LL+RSY)	Combination	Max	Y	0.004948	79	5.98	0	3.6
story 1	1.2(DL+LL+RSY)	Combination	Min	Y	0.004939	79	5.98	0	3.6
story 1	1.2(DL+LL-RSY)	Combination	Max	Y	0.004948	79	5.98	0	3.6
story 1	1.2(DL+LL-RSY)	Combination	Min	Y	0.004939	79	5.98	0	3.6
story 1	1.5(DL+EQX)	Combination		X	0.003872	3	20.65	43.36	3.6
story 1	1.5(DL+EQY)	Combination		Y	0.006333	74	31.32	0	3.6
story 1	1.5(DL+RSX)	Combination	Max	X	0.004462	80	0	0	3.6
story 1	1.5(DL+RSX)	Combination	Max	Y	0.002042	73	36.62	0	3.6
story 1	1.5(DL+RSX)	Combination	Min	X	0.004511	73	36.62	0	3.6
story 1	1.5(DL+RSX)	Combination	Min	Y	0.002043	1	36.62	43.36	3.6
story 1	1.5(DL+RSY)	Combination	Max	Y	0.006187	79	5.98	0	3.6
story 1	1.5(DL+RSY)	Combination	Min	Y	0.006172	79	5.98	0	3.6
story 1	1.5(DL-EQX)	Combination		X	0.00404	2	29.34	43.36	3.6
story 1	1.5(DL-EQY)	Combination		Y	0.006283	79	5.98	0	3.6
story 1	1.5(DL-RSX)	Combination	Max	X	0.004462	80	0	0	3.6
story 1	1.5(DL-RSX)	Combination	Max	Y	0.002042	73	36.62	0	3.6
story 1	1.5(DL-RSX)	Combination	Min	X	0.004511	73	36.62	0	3.6
story 1	1.5(DL-RSX)	Combination	Min	Y	0.002043	1	36.62	43.36	3.6
story 1	1.5(DL-RSY)	Combination	Max	Y	0.006187	79	5.98	0	3.6
story 1	1.5(DL-RSY)	Combination	Min	Y	0.006172	79	5.98	0	3.6
story 1	DL+0.8LL+0.8EQX	Combination		X	0.002047	81	11.58	43.36	3.6
story 1	DL+0.8LL+0.8EQY	Combination		Y	0.003382	74	31.32	0	3.6
story 1	DL+0.8LL+0.8RSX	Combination		Y	0.003382	74	31.32	0	3.6
story 1	DL+0.8LL-0.8EQX	Combination		X	0.002175	2	29.34	43.36	3.6
story 1	DL+0.8LL-0.8EQY	Combination		Y	0.003351	79	5.98	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Max	X	0.002379	80	0	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Max	Y	0.001088	73	36.62	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Min	X	0.002419	73	36.62	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Min	Y	0.001095	1	36.62	43.36	3.6
story 1	DL+0.8LL+0.8RSY	Combination	Max	Y	0.003299	79	5.98	0	3.6
story 1	DL+0.8LL+0.8RSY	Combination	Min	Y	0.003292	79	5.98	0	3.6
story 1	DL+0.8LL-0.8RSY	Combination	Max	Y	0.003299	79	5.98	0	3.6
story 1	DL+0.8LL-0.8RSY	Combination	Min	Y	0.003292	79	5.98	0	3.6
story 1	DL+EQX	Combination		X	0.002581	3	20.65	43.36	3.6
story 1	DL+EQY	Combination		Y	0.004222	74	31.32	0	3.6
story 1	DL+RSX	Combination	Max	X	0.002974	80	0	0	3.6
story 1	DL+RSX	Combination	Max	Y	0.001362	73	36.62	0	3.6
story 1	DL+RSX	Combination	Min	X	0.003007	73	36.62	0	3.6
story 1	DL+RSX	Combination	Min	Y	0.001362	1	36.62	43.36	3.6
story 1	DL+RSY	Combination	Max	Y	0.004124	79	5.98	0	3.6
story 1	DL+RSY	Combination	Min	Y	0.004115	79	5.98	0	3.6
story 1	DL-EQX	Combination		X	0.002693	2	29.34	43.36	3.6
story 1	DL-EQY	Combination		Y	0.004189	79	5.98	0	3.6
story 1	DL-RSX	Combination	Max	X	0.002974	80	0	0	3.6
story 1	DL-RSX	Combination	Max	Y	0.001362	73	36.62	0	3.6
story 1	DL-RSX	Combination	Min	X	0.003007	73	36.62	0	3.6
story 1	DL-RSX	Combination	Min	Y	0.001362	1	36.62	43.36	3.6

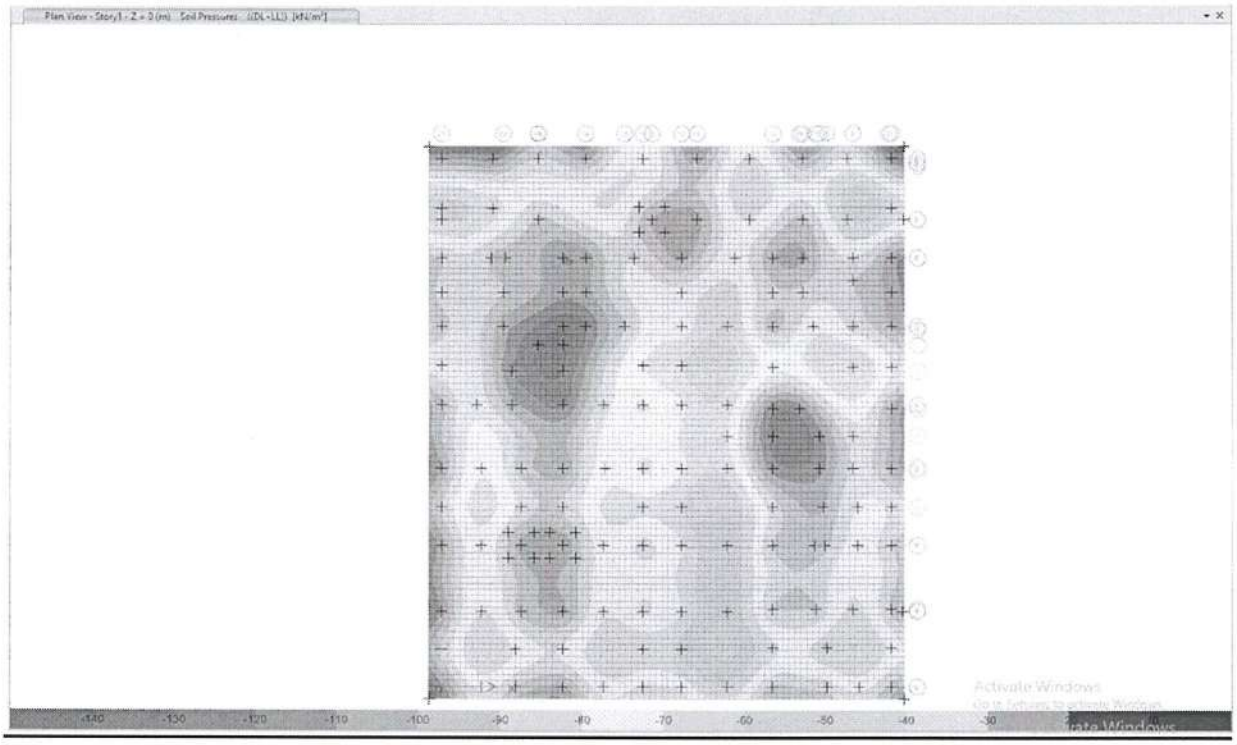
Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 1	DL-RSY	Combination	Max	Y	0.004124	79	5.98	0	3.6
story 1	DL-RSY	Combination	Min	Y	0.004115	79	5.98	0	3.6
story 1	1.5(DL+LL)	Combination		X	0.00012	11	36.62	35.2	3.6
story 1	1.5(DL+LL)	Combination		Y	0.000139	89	14.74	29.6	3.6
story 1	ultimate envelope	Combination	Max	X	0.004462	80	0	0	3.6
story 1	ultimate envelope	Combination	Max	Y	0.006333	74	31.32	0	3.6
story 1	ultimate envelope	Combination	Min	X	0.004511	73	36.62	0	3.6
story 1	ultimate envelope	Combination	Min	Y	0.006286	79	5.98	0	3.6
story 1	seismic weight	Combination		X	6.9E-05	11	36.62	35.2	3.6
story 1	seismic weight	Combination		Y	8.3E-05	89	14.74	29.6	3.6
plinth beam	Dead	LinStatic		X	2.7E-05	165	4.99	32.42	0
plinth beam	Dead	LinStatic		Y	5.7E-05	89	14.74	29.6	0
plinth beam	Live	LinStatic		Y	2.6E-05	89	14.74	29.6	0
plinth beam	Floor finish	LinStatic		X	1.3E-05	165	4.99	32.42	0
plinth beam	Floor finish	LinStatic		Y	2.7E-05	89	14.74	29.6	0
plinth beam	sunken filling	LinStatic		Y	7E-06	427	4.11	43.36	0
plinth beam	wall load	LinStatic		X	1.3E-05	11	36.62	35.2	0
plinth beam	wall load	LinStatic		Y	3.7E-05	89	14.74	29.6	0
plinth beam	sesmic - X	LinStatic		X	0.001307	425	0	43.36	0
plinth beam	sesmic - Y	LinStatic		Y	0.002104	89	14.74	29.6	0
plinth beam	RSX	LinRespSpec	Max	X	0.001568	78	9.75	0	0
plinth beam	RSX	LinRespSpec	Max	Y	0.000662	65	36.62	6.32	0
plinth beam	RXY	LinRespSpec	Max	Y	0.002086	89	14.74	29.6	0
plinth beam	roof live	LinStatic		X	2E-06	37	9.75	25.91	0
plinth beam	roof live	LinStatic		Y	1E-06	73	36.62	0	0
plinth beam	(DL+LL)	Combination		Y	0.000154	89	14.74	29.6	0
plinth beam	09DL+1.5EQX	Combination		X	0.001987	1	36.62	43.36	0
plinth beam	09DL-1.5EQX	Combination		X	0.001989	425	0	43.36	0
plinth beam	0.9DL+1.5RSX	Combination	Max	X	0.002343	77	16.27	0	0
plinth beam	0.9DL+1.5RSX	Combination	Max	Y	0.001018	1	36.62	43.36	0
plinth beam	0.9DL+1.5RSX	Combination	Min	X	0.002374	78	9.75	0	0
plinth beam	0.9DL+1.5RSX	Combination	Min	Y	0.001009	73	36.62	0	0
plinth beam	0.9DL-1.5RSX	Combination	Max	X	0.002343	77	16.27	0	0
plinth beam	0.9DL-1.5RSX	Combination	Max	Y	0.001018	1	36.62	43.36	0
plinth beam	0.9DL-1.5RSX	Combination	Min	X	0.002374	78	9.75	0	0
plinth beam	0.9DL-1.5RSX	Combination	Min	Y	0.001009	73	36.62	0	0
plinth beam	09DL-1.5EQY	Combination		Y	0.003271	89	14.74	29.6	0
plinth beam	09DL+1.5EQY	Combination		Y	0.003123	9	16.95	38.37	0
plinth beam	0.9DL+1.5RSY	Combination	Max	Y	0.003099	30	11.58	29.6	0
plinth beam	0.9DL+1.5RSY	Combination	Min	Y	0.003244	89	14.74	29.6	0
plinth beam	0.9DL-1.5RSY	Combination	Max	Y	0.003099	30	11.58	29.6	0
plinth beam	0.9DL-1.5RSY	Combination	Min	Y	0.003244	89	14.74	29.6	0
plinth beam	1.2(DL+LL+EQX)	Combination		X	0.001609	1	36.62	43.36	0
plinth beam	1.2(DL+LL-EQX)	Combination		X	0.001614	425	0	43.36	0
plinth beam	1.2(DL+LL+RSX)	Combination	Max	X	0.001875	75	26.86	0	0
plinth beam	1.2(DL+LL+RSX)	Combination	Max	Y	0.000842	1	36.62	43.36	0
plinth beam	1.2(DL+LL+RSX)	Combination	Min	X	0.001919	80	0	0	0
plinth beam	1.2(DL+LL+RSX)	Combination	Min	Y	0.000823	73	36.62	0	0
plinth beam	1.2(DL+LL-RSX)	Combination	Max	X	0.001875	75	26.86	0	0
plinth beam	1.2(DL+LL-RSX)	Combination	Max	Y	0.000842	1	36.62	43.36	0
plinth beam	1.2(DL+LL-RSX)	Combination	Min	X	0.001919	80	0	0	0
plinth beam	1.2(DL+LL-RSX)	Combination	Min	Y	0.000823	73	36.62	0	0
plinth beam	1.2(DL+LL+EQY)	Combination		Y	0.002519	30	11.58	29.6	0
plinth beam	1.2(DL+LL-EQY)	Combination		Y	0.00271	89	14.74	29.6	0
plinth beam	1.2(DL+LL+RSY)	Combination	Max	Y	0.002512	427	4.11	43.36	0

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	1.2(DL+LL+RSY)	Combination	Min	Y	0.002689	89	14.74	29.6	0
plinth beam	1.2(DL+LL-RSY)	Combination	Max	Y	0.002512	427	4.11	43.36	0
plinth beam	1.2(DL+LL-RSY)	Combination	Min	Y	0.002689	89	14.74	29.6	0
plinth beam	1.5(DL+EQX)	Combination		X	0.002006	1	36.62	43.36	0
plinth beam	1.5(DL+EQY)	Combination		Y	0.00314	30	11.58	29.6	0
plinth beam	1.5(DL+RSX)	Combination	Max	X	0.002344	75	26.86	0	0
plinth beam	1.5(DL+RSX)	Combination	Max	Y	0.001045	1	36.62	43.36	0
plinth beam	1.5(DL+RSX)	Combination	Min	X	0.002388	78	9.75	0	0
plinth beam	1.5(DL+RSX)	Combination	Min	Y	0.00102	73	36.62	0	0
plinth beam	1.5(DL+RSY)	Combination	Max	Y	0.003121	30	11.58	29.6	0
plinth beam	1.5(DL+RSY)	Combination	Min	Y	0.003321	89	14.74	29.6	0
plinth beam	1.5(DL-EQX)	Combination		X	0.002008	425	0	43.36	0
plinth beam	1.5(DL-EQY)	Combination		Y	0.003347	89	14.74	29.6	0
plinth beam	1.5(DL-RSX)	Combination	Max	X	0.002344	75	26.86	0	0
plinth beam	1.5(DL-RSX)	Combination	Max	Y	0.001045	1	36.62	43.36	0
plinth beam	1.5(DL-RSX)	Combination	Min	X	0.002388	78	9.75	0	0
plinth beam	1.5(DL-RSX)	Combination	Min	Y	0.00102	73	36.62	0	0
plinth beam	1.5(DL-RSY)	Combination	Max	Y	0.003121	30	11.58	29.6	0
plinth beam	1.5(DL-RSY)	Combination	Min	Y	0.003321	89	14.74	29.6	0
plinth beam	DL+0.8LL+0.8EQX	Combination		X	0.001079	1	36.62	43.36	0
plinth beam	DL+0.8LL+0.8EQY	Combination		Y	0.001689	427	4.11	43.36	0
plinth beam	DL+0.8LL+0.8RSX	Combination		Y	0.001689	427	4.11	43.36	0
plinth beam	DL+0.8LL-0.8EQX	Combination		X	0.001082	425	0	43.36	0
plinth beam	DL+0.8LL-0.8EQY	Combination		Y	0.001832	89	14.74	29.6	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Max	X	0.001251	75	26.86	0	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000571	1	36.62	43.36	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Min	X	0.001286	80	0	0	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000552	73	36.62	0	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001691	427	4.11	43.36	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001818	89	14.74	29.6	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001691	427	4.11	43.36	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001818	89	14.74	29.6	0
plinth beam	DL+EQX	Combination		X	0.001337	1	36.62	43.36	0
plinth beam	DL+EQY	Combination		Y	0.002093	30	11.58	29.6	0
plinth beam	DL+RSX	Combination	Max	X	0.001562	75	26.86	0	0
plinth beam	DL+RSX	Combination	Max	Y	0.000697	1	36.62	43.36	0
plinth beam	DL+RSX	Combination	Min	X	0.001592	78	9.75	0	0
plinth beam	DL+RSX	Combination	Min	Y	0.00068	73	36.62	0	0
plinth beam	DL+RSY	Combination	Max	Y	0.00208	30	11.58	29.6	0
plinth beam	DL+RSY	Combination	Min	Y	0.002214	89	14.74	29.6	0
plinth beam	DL-EQX	Combination		X	0.001339	425	0	43.36	0
plinth beam	DL-EQY	Combination		Y	0.002231	89	14.74	29.6	0
plinth beam	DL-RSX	Combination	Max	X	0.001562	75	26.86	0	0
plinth beam	DL-RSX	Combination	Max	Y	0.000697	1	36.62	43.36	0
plinth beam	DL-RSX	Combination	Min	X	0.001592	78	9.75	0	0
plinth beam	DL-RSX	Combination	Min	Y	0.00068	73	36.62	0	0
plinth beam	DL-RSY	Combination	Max	Y	0.00208	30	11.58	29.6	0
plinth beam	DL-RSY	Combination	Min	Y	0.002214	89	14.74	29.6	0
plinth beam	1.5(DL+LL)	Combination		Y	0.000231	89	14.74	29.6	0
plinth beam	ultimate envelope	Combination	Max	X	0.002344	75	26.86	0	0
plinth beam	ultimate envelope	Combination	Max	Y	0.00314	30	11.58	29.6	0
plinth beam	ultimate envelope	Combination	Min	X	0.002388	78	9.75	0	0
plinth beam	ultimate envelope	Combination	Min	Y	0.003347	89	14.74	29.6	0
plinth beam	seismic weight	Combination		Y	0.000134	89	14.74	29.6	0

4.2 Modal Results

Table 4.2 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	SumUX	SumUY	SumUZ	RX	RY	RZ	SumRX
Modal	1	1.661	0	0.8981	0	0	0.8981	0	0.1006	0	0.0011	0.1006
Modal	2	1.441	0.1571	0.0008	0	0.1571	0.8989	0	0.0001	0.0212	0.7372	0.1007
Modal	3	1.263	0.7257	0.0002	0	0.8828	0.899	0	2.318E-05	0.0981	0.1569	0.1008
Modal	4	0.641	0.0001	1.767E-05	0	0.8829	0.899	0	0.0001	0.0004	1.19E-06	0.1009
Modal	5	0.514	4.472E-06	0.0601	0	0.8829	0.9592	0	0.7402	1.564E-05	1.449E-05	0.8411
Modal	6	0.445	0.0095	0	0	0.8924	0.9592	0	6.344E-06	0.0981	0.053	0.8411
Modal	7	0.394	0.0638	7.498E-07	0	0.9562	0.9592	0	1.17E-05	0.6122	0.0094	0.8411
Modal	8	0.306	0.0001	0.0002	0	0.9563	0.9594	0	0.0006	0.0015	0.0001	0.8417
Modal	9	0.283	1.421E-06	0.0111	0	0.9563	0.9705	0	0.0202	3.784E-06	0.0001	0.8619
Modal	10	0.259	0.0001	0.0002	0	0.9564	0.9707	0	0.0004	0.0001	0.0068	0.8624
Modal	11	0.253	6.22E-07	1.077E-05	0	0.9564	0.9707	0	1.035E-05	0.0001	0.002	0.8624
Modal	12	0.225	0.0053	4.566E-05	0	0.9617	0.9708	0	0.0002	0.013	0.0017	0.8626



Soil Pressure Distribution

Design of short column with bi axial bending:C8

Description	GF
Axial load in Kn	2140
Moment in Knm (Mux)	58
Moment in Knm (Muy)	265
Assumed length of column in mm (D)	675
Assumed breadth of column in mm (B)	300
Assumed % of steel	3.9

Grade of concrete	30
p/fck	0.13
d'/D	0.074074074
d'/B	0.166666667
Pu/(fck*B*D)	0.352263374
Referring to chart in SP-16	chart-48
Value from chart	0.17
Mux1 in Knm	697.10625
Referring to chart in SP-16	chart-50
Value from chart	0.15
Muy1 in Knm	273.375
Referring to chart-63 of SP-16	
Puz/ Ag	26
Puz in Kn	5265
Pu/Puz	0.40645774
Mux/Mux1	0.08320109
Muy/Muy1	0.969364426
Referring to chart-64 of SP-16	
Permissible Muy/Muy1	0.97
Check	safe and assumed % of steel is correct
Ast required	7897.5
Provide steel	

Dia of lateral ties:		
Dia of main rod provided	25	
6mm	6mm	
1/4 times Dia of main rod	06.25	
Dia of lateral ties choosen	8mm	
Spacing of lateral ties:		
16 times the dia of main rod		400
Least lateral dimension of column		300
Provide 8mm dia 2 legged lateral ties @	175 mm c/c	

Design of Floor Slab:

Assume the slab thickness as 125 mm

Dead load of slab (0.125 x 25)	=	3.13 kn/m^2
Live load	=	2.00 kn/m^2
Partition wall load	=	1.00 kn/m^2
Floor finish load	=	1.50 kn/m^2
		7.63 kn/m^2

Say w = 8.0 kn/m^2

Long span L_y = 9.75 m

Short span L_x = 3.31 m

L_y / L_x = 2.95 > 2.0

To design as one way slab & slab thickness as 125mm

Positive moment @ mid span = $1.5 \times 8 \times 3.31^2 / 8$

= 16.43knm

Referring to the table – 37 of SP – 16 and assuming the slab thickness as 125mm

Provide 8mm dia @ 100mm c/c along shorter span and 8mm dia @ 150mm c/c along the longer span with alternate rods cranked @ 0.2 times of respective span

Check for deflection:

Permissible span / depth = 23.0 x 1.4 (referring to fig.4 of IS456)

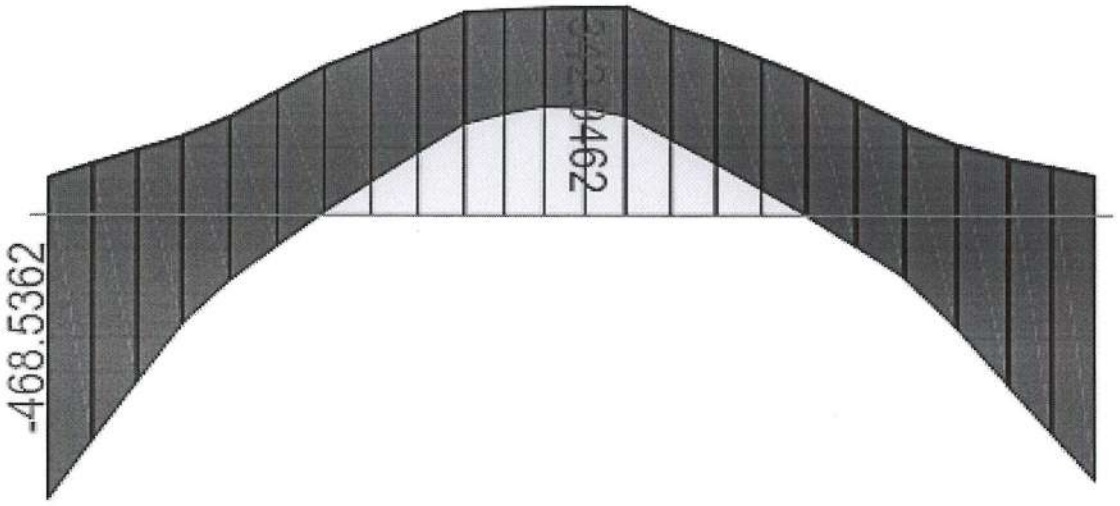
= 32.2

Actual deflection = 3310 / 105

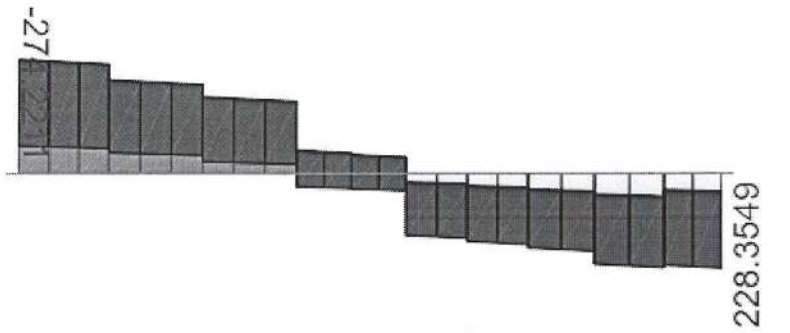
= 31.52 < 32.20

Hence safe

Design of critical floor beam:



Critical Bending Moment Diagram



Critical Shear Force Diagram

Assume beam size as 230mm x 675mm

Max factored B.M @ top of support = 469knm

K = 5.22, Pt = 1.450, Pc = 0.336

A_{st} = 2085 mm^2 A_{sc} = 483 mm^2

Therefore provide 3-25+2-20mm dia@ top of support

Max factored moment @ bottom = 343knm

K = 3.82, Pt = 1.081

A_{st} = 1554 mm^2

Therefore provide 3-20+3-20mm dia @ bottom

Factored shear force @ support = 275kn

V_{us} = 275000 – (0.74 x 230 x 625)

V_{us}/d = 2.56kn/cm

Referring to Table – 62 of SP-16, provide 8mm dia stirrups @ 130mm c/c

end of report

N. KANAGAVEL M.E, M.B.A., MIE., FIV
Registered Structural Engineer Grade-I
CMDA Reg.No. SE/GR-I/19/03/049
GCC Reg.No.RSE100022019
CA-12, Tarangani Complex,
Ambattur Industrial Estate
Mogappair West, Chennai-600 058

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.