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RE REGULATORY RECORD

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DIGITALLY VERIFIED RECORD

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
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19.02.2026

STABILITY CERTIFICATE

1.The detailed engineering and structure design of the proposed building comprising of Stilt + Five floors at Old Door No.4, New No.7, Padmavathy Road, Jeypore Nagar, Gopalapuram, Comprised in R.S.No. 67, 67/2, 69, 69/3 & 82 (Document) R.S.No. 67/64 (Patta), Block No.4 of Mylapore Village within the limits of Greater Chennai Corporation 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) 10033, Dated 10.04.2025 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 M25

(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. 151893(part1):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

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

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.

Soil:

As per Nagadi Consultants (P) Ltd.,geo technical report G(C) 10033, the foundation recommendations are:

(i) type of foundation	=	Isolated / combined
(ii) Depth of foundation	=	1.80 m
(ii) SBC @ 1.80 m depth	=	110kn/m^2

Floor Heights Considered:

Foundation depth	=	1.80m
Car parking level	=	0.60m
Stilt and typical floors height	=	3.05m

Analysis and Design:

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

Materials:

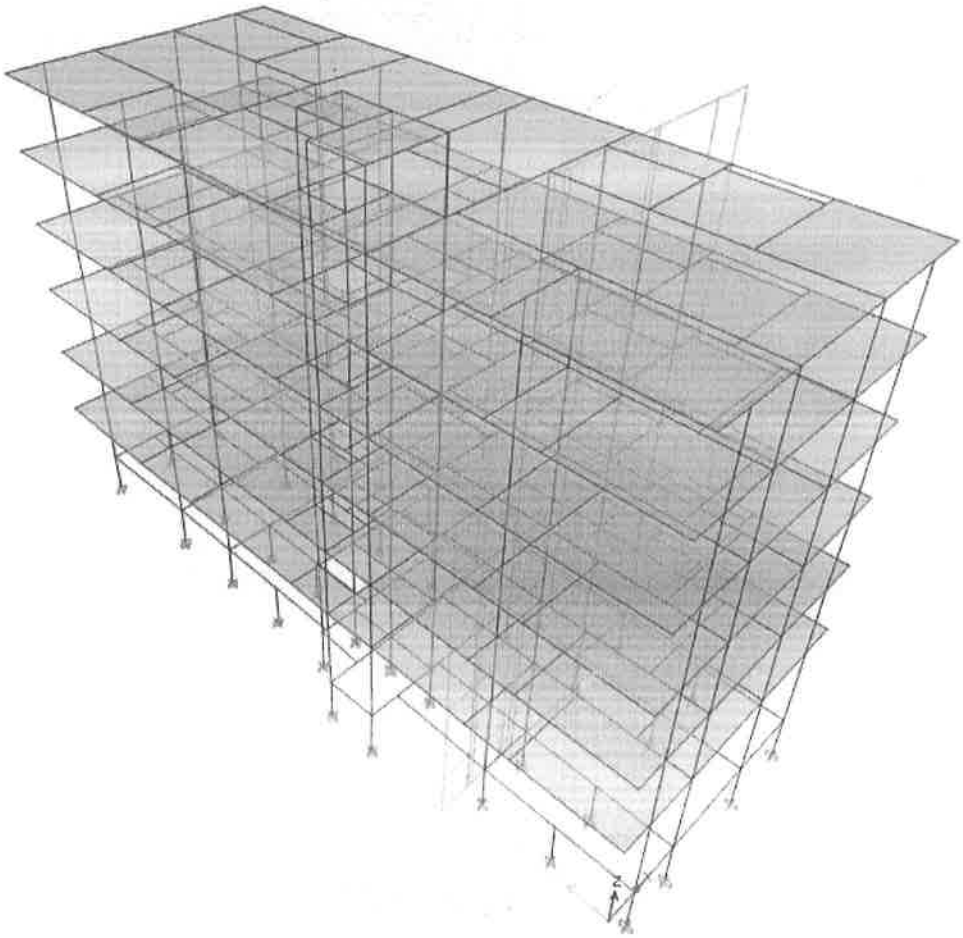
The following recommendations of materials are to be used

(i) Grade of concrete : M25 grade for all RCC members

(ii) Grade of steel : Fe 500 for all diameter

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

ETABS®



User Report 2

Jaypore Colony

Model File: stilt+5 floors, Revision 0

20-11-2025

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	Blue
T1	roof	3.05	No	None	No	Green
T1	story 5	3.05	No	story 1	No	Cyan
T1	story 4	3.05	No	story 1	No	Red
T1	story 3	3.05	No	story 1	No	Magenta
T1	story 2	3.05	No	story 1	No	Yellow
T1	story 1	3.65	Yes	None	No	Gray8Dark
T1	plinth beam	1.8	No	None	No	Blue

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	
M25	Concrete	Isotropic	M25	Blue	

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
B1 230x380	M25	Concrete Rectangular	Blue	874	96006	105171.3	38528.8	728.3	728.3
B2 230x450	M25	Concrete Rectangular	8421631	1035	124072.6	174656.3	45626.3	862.5	862.5
B3 230x525	M25	Concrete Rectangular	DarkRed	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2
B4 230x600	M25	Concrete Rectangular	Cyan	1380	184679.1	414000	60835	1150	1150
C1 230x230	M25	Concrete Rectangular	Yellow	529	39410.9	23320.1	23320.1	440.8	440.8
C2 230x380	M25	Concrete Rectangular	Gray8Dark	874	96006	105171.3	38528.8	728.3	728.3
C3 300x380	M25	Concrete Rectangular	Blue	1140	177406.5	137180	85500	950	950
C4 230x450	M25	Concrete Rectangular	Green	1035	124072.6	174656.3	45626.3	862.5	862.5
C5 300x450	M25	Concrete Rectangular	Cyan	1350	237700	227812.5	101250	1125	1125
C6 230x525	M25	Concrete Rectangular	Red	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2
C7 300x525	M25	Concrete Rectangular	Magenta	1575	303911.4	361757.8	118125	1312.5	1312.5
C8 300x600	M25	Concrete Rectangular	Yellow	1800	370785.9	540000	135000	1500	1500
C9 230x600	M25	Concrete Rectangular	Orange	1380	184679.1	414000	60835	1150	1150
CB	M25	Concrete Rectangular	Blue	529	39410.9	23320.1	23320.1	440.8	440.8
ConcBm	M25	Concrete Rectangular	Gray8Dark	1875	474572.9	390625	219726.6	1562.5	1562.5
ConcCol	M25	Concrete Rectangular	Yellow	1406.3	278503.4	164794.9	164794.9	1171.9	1171.9
SteelBm	A992Fy50	Steel I/Wide Flange	Magenta	71.4	25.7	30343.2	965.5	31.3	37.4
SteelCol	A992Fy50	Steel I/Wide Flange	Red	306.3	551.8	150638	52090.7	63.4	222.5

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	M25	125		
Wall	Wall	Shell-Thin	M25	230		

3 Loads

This chapter provides loading information as applied to the model.

3.1 Auto Seismic Loading

IS 1893:2016 Auto Seismic Load Calculation

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

Direction and Eccentricity

Direction = X

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.52$ sec

Factors and Coefficients

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

Response Reduction Factor, R [IS Table 9] $R = 5$

Importance Factor, I [IS Table 8] $I = 1$

Site Type [IS Table 1] = II

Seismic Response

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

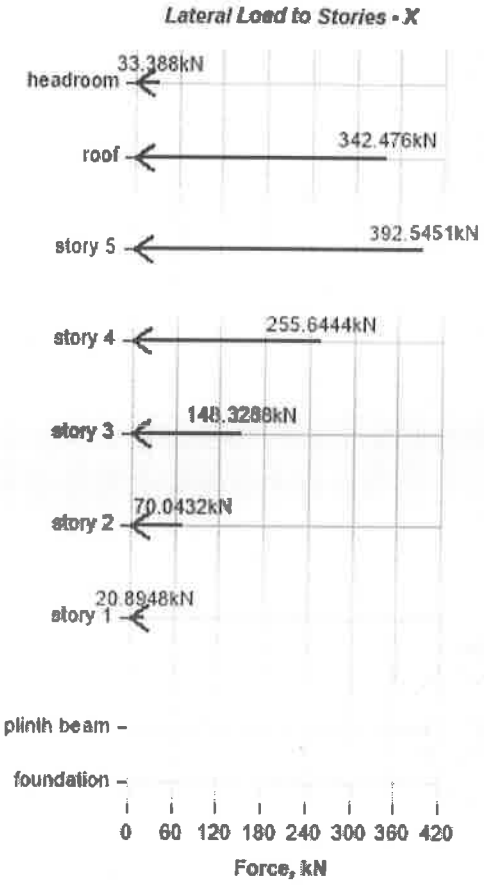
Equivalent Lateral Forces

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	0.52	31583.0074	1263.3203

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.4	33.388	0
roof	18.9	342.476	0
story 5	15.85	392.5451	0
story 4	12.8	255.6444	0
story 3	9.75	148.3288	0
story 2	6.7	70.0432	0
story 1	3.65	20.8948	0
plinth beam	0	0	0
foundation	-1.8	0	0

IS 1893:2016 Auto Seismic Load Calculation

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

Direction and Eccentricity

Direction = Y

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.31$ sec

Factors and Coefficients

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

Response Reduction Factor, R [IS Table 9] $R = 5$

Importance Factor, I [IS Table 8] $I = 1$

Site Type [IS Table 1] = II

Seismic Response

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

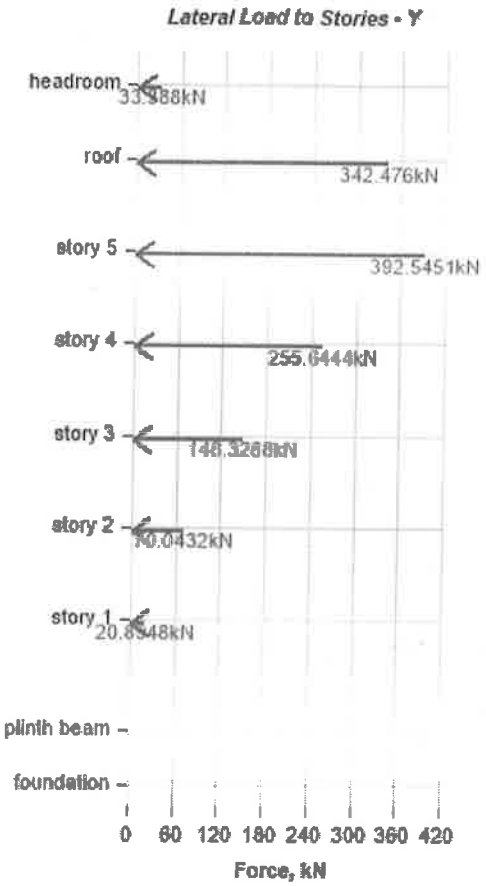
Equivalent Lateral Forces

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	0.31	31583.0074	1263.3203

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.4	0	33.388
roof	18.9	0	342.476
story 5	15.85	0	392.5451
story 4	12.8	0	255.6444
story 3	9.75	0	148.3288
story 2	6.7	0	70.0432
story 1	3.65	0	20.8948
plinth beam	0	0	0
foundation	-1.8	0	0

3.3 Load Combinations

Table 3.4 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
0.9DL-1.5EQx	Linear Add	No	Dead	0.9	
0.9DL-1.5EQx			floor finish &partion	0.9	
0.9DL-1.5EQx			sunken filling	0.9	
0.9DL-1.5EQx			wall load	0.9	
0.9DL-1.5EQx			seismic x	-1.5	
0.9DL-1.5EQy	Linear Add	No	Dead	0.9	
0.9DL-1.5EQy			floor finish &partion	0.9	
0.9DL-1.5EQy			sunken filling	0.9	
0.9DL-1.5EQy			wall load	0.9	
0.9DL-1.5EQy			seismic y	-1.5	
0.9DL-1.5RSx	Linear Add	No	Dead	0.9	
0.9DL-1.5RSx			floor finish &partion	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 &partion	0.9	
0.9DL-1.5RSy			sunken filling	0.9	
0.9DL-1.5RSy			wall load	0.9	
0.9DL-1.5RSy			RSy	-1.5	
0.9DL+1.5EQx	Linear Add	No	Dead	0.9	
0.9DL+1.5EQx			floor finish &partion	0.9	
0.9DL+1.5EQx			sunken filling	0.9	
0.9DL+1.5EQx			wall load	0.9	
0.9DL+1.5EQx			seismic x	1.5	
0.9DL+1.5EQy	Linear Add	No	Dead	0.9	
0.9DL+1.5EQy			floor finish &partion	0.9	
0.9DL+1.5EQy			sunken filling	0.9	
0.9DL+1.5EQy			wall load	0.9	
0.9DL+1.5EQy			seismic y	1.5	
0.9DL+1.5RSx	Linear Add	No	Dead	0.9	
0.9DL+1.5RSx			floor finish &partion	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 &partion	0.9	
0.9DL+1.5RSy			sunken filling	0.9	
0.9DL+1.5RSy			wall load	0.9	
0.9DL+1.5RSy			RSy	1.5	
1.2(DL+LL+EQx)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQx)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL+EQx)			roof live	1.2	
1.2(DL+LL+EQx)			seismic x	1.2	
1.2(DL+LL+EQy)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQy)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL+EQy)			roof live	1.2	
1.2(DL+LL+EQy)			seismic y	1.2	
1.2(DL+LL+RSx)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSx)			floor finish &partion	1.2	
1.2(DL+LL+RSx)			sunken filling	1.2	

Name	Type	Is Auto	Load Name	SF	Notes
1.2(DL+LL+RSx)			wall load	1.2	
1.2(DL+LL+RSx)			Live	1.2	
1.2(DL+LL+RSx)			roof live	1.2	
1.2(DL+LL+RSx)			RSx	1.2	
1.2(DL+LL+RSy)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSy)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL+RSy)			roof live	1.2	
1.2(DL+LL+RSy)			RSy	1.2	
1.2(DL+LL-EQx)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQx)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL-EQx)			roof live	1.2	
1.2(DL+LL-EQx)			seismic x	-1.2	
1.2(DL+LL-EQy)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQy)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL-EQy)			roof live	1.2	
1.2(DL+LL-EQy)			seismic y	-1.2	
1.2(DL+LL-RSx)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSx)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL-RSx)			roof live	1.2	
1.2(DL+LL-RSx)			RSx	-1.2	
1.2(DL+LL-RSy)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSy)			floor finish &partion	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)			Live	1.2	
1.2(DL+LL-RSy)			roof live	1.2	
1.2(DL+LL-RSy)			RSy	-1.2	
1.5(DL+EQx)	Linear Add	No	Dead	1.5	
1.5(DL+EQx)			floor finish &partion	1.5	
1.5(DL+EQx)			sunken filling	1.5	
1.5(DL+EQx)			wall load	1.5	
1.5(DL+EQx)			seismic x	1.5	
1.5(DL+EQy)	Linear Add	No	Dead	1.5	
1.5(DL+EQy)			floor finish &partion	1.5	
1.5(DL+EQy)			sunken filling	1.5	
1.5(DL+EQy)			wall load	1.5	
1.5(DL+EQy)			seismic y	1.5	
1.5(DL+LL)	Linear Add	No	Dead	1.5	
1.5(DL+LL)			Live	1.5	
1.5(DL+LL)			roof live	1.5	
1.5(DL+LL)			floor finish &partion	1.5	
1.5(DL+LL)			sunken filling	1.5	
1.5(DL+LL)			wall load	1.5	
1.5(DL+RSx)	Linear Add	No	Dead	1.5	
1.5(DL+RSx)			floor finish &partion	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	

Name	Type	Is Auto	Load Name	SF	Notes
1.5(DL+RSy)			floor finish &partion	1.5	
1.5(DL+RSy)			sunken filling	1.5	
1.5(DL+RSy)			wall load	1.5	
1.5(DL+RSy)			RSy	1.5	
1.5(DL-EQx)	Linear Add	No	Dead	1.5	
1.5(DL-EQx)			floor finish &partion	1.5	
1.5(DL-EQx)			sunken filling	1.5	
1.5(DL-EQx)			wall load	1.5	
1.5(DL-EQx)			seismic x	-1.5	
1.5(DL-EQy)	Linear Add	No	Dead	1.5	
1.5(DL-EQy)			floor finish &partion	1.5	
1.5(DL-EQy)			sunken filling	1.5	
1.5(DL-EQy)			wall load	1.5	
1.5(DL-EQy)			seismic y	-1.5	
1.5(DL-RSx)	Linear Add	No	Dead	1.5	
1.5(DL-RSx)			floor finish &partion	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 &partion	1.5	
1.5(DL-RSy)			sunken filling	1.5	
1.5(DL-RSy)			wall load	1.5	
1.5(DL-RSy)			RSy	-1.5	
DL+0.8LL-0.8EQx	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQx			floor finish &partion	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			roof live	0.8	
DL+0.8LL-0.8EQx			seismic x	-0.8	
DL+0.8LL-0.8EQy	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQy			floor finish &partion	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			roof live	0.8	
DL+0.8LL-0.8EQy			seismic y	-0.8	
DL+0.8LL+0.8EQx	Linear Add	No	Dead	1	
DL+0.8LL+0.8EQx			floor finish &partion	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			roof live	0.8	
DL+0.8LL+0.8EQx			seismic x	0.8	
DL+0.8LL+0.8EQy	Linear Add	No	Dead	1	
DL+0.8LL+0.8EQy			floor finish &partion	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			roof live	0.8	
DL+0.8LL+0.8EQy			seismic y	0.8	
DL+EQx	Linear Add	No	Dead	1	
DL+EQx			floor finish &partion	1	
DL+EQx			sunken filling	1	
DL+EQx			wall load	1	
DL+EQx			seismic x	1	
DL+EQy	Linear Add	No	Dead	1	
DL+EQy			floor finish &partion	1	
DL+EQy			sunken filling	1	
DL+EQy			wall load	1	

Name	Type	Is Auto	Load Name	SF	Notes
DL+EQy			seismic y	1	
DL+LL	Linear Add	No	Dead	1	
DL+LL			Live	1	
DL+LL			roof live	1	
DL+LL			floor finish &partion	1	
DL+LL			sunken filling	1	
DL+LL			wall load	1	
DL-EQx	Linear Add	No	Dead	1	
DL-EQx			floor finish &partion	1	
DL-EQx			sunken filling	1	
DL-EQx			wall load	1	
DL-EQx			seismic x	-1	
DL-EQy	Linear Add	No	Dead	1	
DL-EQy			floor finish &partion	1	
DL-EQy			sunken filling	1	
DL-EQy			wall load	1	
DL-EQy			seismic y	-1	
envelope	Envelope	No	1.2(DL+LL+EQx)	1	
envelope			1.2(DL+LL-EQx)	1	
envelope			1.2(DL+LL+EQy)	1	
envelope			1.2(DL+LL-EQy)	1	
envelope			1.5(DL+EQx)	1	
envelope			1.5(DL-EQx)	1	
envelope			1.5(DL+EQy)	1	
envelope			1.5(DL-EQy)	1	
envelope			0.9DL+1.5EQx	1	
envelope			0.9DL-1.5EQx	1	
envelope			0.9DL+1.5EQy	1	
envelope			0.9DL-1.5EQy	1	
envelope			1.5(DL+LL)	1	
envelope			0.9DL-1.5RSx	1	
envelope			0.9DL-1.5RSy	1	
envelope			0.9DL+1.5RSx	1	
envelope			0.9DL+1.5RSy	1	
envelope			1.2(DL+LL+RSx)	1	
envelope			1.2(DL+LL+RSy)	1	
envelope			1.2(DL+LL-RSx)	1	
envelope			1.2(DL+LL-RSy)	1	
envelope			1.5(DL+RSx)	1	
envelope			1.5(DL+RSy)	1	
envelope			1.5(DL-RSx)	1	
envelope			1.5(DL-RSy)	1	
seismic weight	Linear Add	No	Dead	1	
seismic weight			floor finish &partion	1	
seismic weight			sunken filling	1	
seismic weight			wall load	1	
seismic weight			Live	0.25	

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	0.000153	19	0	10.63	21.4
headroom	Dead	LinStatic		Y	6.1E-05	15	3.08	14.9	21.4
headroom	Live	LinStatic		X	3.5E-05	17	0	12.84	21.4
headroom	Live	LinStatic		Y	1.4E-05	14	1.32	14.9	21.4
headroom	roof live	LinStatic		X	3.2E-05	18	3.08	10.63	21.4
headroom	roof live	LinStatic		Y	1.3E-05	15	3.08	14.9	21.4
headroom	floor finish &partion	LinStatic		X	8.9E-05	18	3.08	10.63	21.4
headroom	floor finish &partion	LinStatic		Y	3.3E-05	15	3.08	14.9	21.4
headroom	sunken filling	LinStatic		X	1.2E-05	14	1.32	14.9	21.4
headroom	sunken filling	LinStatic		Y	3E-06	18	3.08	10.63	21.4
headroom	wall load	LinStatic		X	8.3E-05	19	0	10.63	21.4
headroom	wall load	LinStatic		Y	4.4E-05	16	3.08	12.84	21.4
headroom	seismic x	LinStatic		X	0.000756	15	3.08	14.9	21.4
headroom	seismic y	LinStatic		Y	0.000816	18	3.08	10.63	21.4
headroom	RSx	LinRespSpec	Max	X	0.000507	15	3.08	14.9	21.4
headroom	RSx	LinRespSpec	Max	Y	7.6E-05	19	0	10.63	21.4
headroom	RSy	LinRespSpec	Max	Y	0.000621	18	3.08	10.63	21.4
headroom	DL+LL	Combination		X	0.000402	19	0	10.63	21.4
headroom	DL+LL	Combination		Y	0.000143	15	3.08	14.9	21.4
headroom	1.5(DL+LL)	Combination		X	0.000604	19	0	10.63	21.4
headroom	1.5(DL+LL)	Combination		Y	0.000215	15	3.08	14.9	21.4
headroom	1.2(DL+LL+EQx)	Combination		X	0.001359	19	0	10.63	21.4
headroom	1.2(DL+LL-EQx)	Combination		X	0.000587	15	3.08	14.9	21.4
headroom	1.2(DL+LL-EQx)	Combination		Y	0.000232	15	3.08	14.9	21.4
headroom	1.2(DL+LL+EQy)	Combination		X	0.000496	19	0	10.63	21.4
headroom	1.2(DL+LL+EQy)	Combination		Y	0.001149	15	3.08	14.9	21.4
headroom	1.2(DL+LL-EQy)	Combination		X	0.000469	19	0	10.63	21.4
headroom	1.2(DL+LL-EQy)	Combination		Y	0.00089	19	0	10.63	21.4
headroom	1.5(DL+EQx)	Combination		X	0.0016	19	0	10.63	21.4
headroom	1.5(DL-EQx)	Combination		X	0.000816	15	3.08	14.9	21.4
headroom	1.5(DL-EQx)	Combination		Y	0.000287	15	3.08	14.9	21.4
headroom	1.5(DL+EQy)	Combination		X	0.000522	19	0	10.63	21.4
headroom	1.5(DL+EQy)	Combination		Y	0.001433	15	3.08	14.9	21.4
headroom	1.5(DL-EQy)	Combination		X	0.000488	19	0	10.63	21.4
headroom	1.5(DL-EQy)	Combination		Y	0.001104	19	0	10.63	21.4
headroom	0.9DL+1.5EQx	Combination		X	0.001398	19	0	10.63	21.4
headroom	0.9DL-1.5EQx	Combination		X	0.000943	15	3.08	14.9	21.4
headroom	0.9DL-1.5EQx	Combination		Y	0.000203	15	3.08	14.9	21.4
headroom	0.9DL+1.5EQy	Combination		X	0.00032	19	0	10.63	21.4
headroom	0.9DL+1.5EQy	Combination		Y	0.001349	16	3.08	12.84	21.4
headroom	0.9DL-1.5EQy	Combination		X	0.000286	19	0	10.63	21.4
headroom	0.9DL-1.5EQy	Combination		Y	0.00113	19	0	10.63	21.4
headroom	DL+0.8LL+0.8EQx	Combination		X	0.000973	19	0	10.63	21.4
headroom	DL+0.8LL-0.8EQx	Combination		X	0.000349	15	3.08	14.9	21.4
headroom	DL+0.8LL-0.8EQx	Combination		Y	0.000183	15	3.08	14.9	21.4
headroom	DL+0.8LL+0.8EQy	Combination		X	0.000398	19	0	10.63	21.4
headroom	DL+0.8LL+0.8EQy	Combination		Y	0.000794	15	3.08	14.9	21.4
headroom	DL+0.8LL-0.8EQy	Combination		X	0.00038	19	0	10.63	21.4

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	DL+0.8LL-0.8EQy	Combination		Y	0.000585	19	0	10.63	21.4
headroom	DL+EQx	Combination		X	0.001067	19	0	10.63	21.4
headroom	DL-EQx	Combination		X	0.000544	15	3.08	14.9	21.4
headroom	DL-EQx	Combination		Y	0.000192	15	3.08	14.9	21.4
headroom	DL+EQy	Combination		X	0.000348	19	0	10.63	21.4
headroom	DL+EQy	Combination		Y	0.000955	15	3.08	14.9	21.4
headroom	DL-EQy	Combination		X	0.000325	19	0	10.63	21.4
headroom	DL-EQy	Combination		Y	0.000736	19	0	10.63	21.4
headroom	seismic weight	Combination		X	0.000345	19	0	10.63	21.4
headroom	seismic weight	Combination		Y	0.000138	15	3.08	14.9	21.4
headroom	envelope	Combination	Max	X	0.0016	19	0	10.63	21.4
headroom	envelope	Combination	Max	Y	0.001433	15	3.08	14.9	21.4
headroom	envelope	Combination	Min	X	0.000943	15	3.08	14.9	21.4
headroom	envelope	Combination	Min	Y	0.00113	19	0	10.63	21.4
headroom	0.9DL-1.5RSx	Combination	Max	X	0.000998	19	0	10.63	21.4
headroom	0.9DL-1.5RSx	Combination	Max	Y	0.000202	15	3.08	14.9	21.4
headroom	0.9DL-1.5RSx	Combination	Min	X	0.00057	15	3.08	14.9	21.4
headroom	0.9DL-1.5RSy	Combination	Max	X	0.000327	19	0	10.63	21.4
headroom	0.9DL-1.5RSy	Combination	Max	Y	0.001056	15	3.08	14.9	21.4
headroom	0.9DL-1.5RSy	Combination	Min	X	0.000279	19	0	10.63	21.4
headroom	0.9DL-1.5RSy	Combination	Min	Y	0.000845	19	0	10.63	21.4
headroom	0.9DL+1.5RSx	Combination	Max	X	0.000998	19	0	10.63	21.4
headroom	0.9DL+1.5RSx	Combination	Max	Y	0.000202	15	3.08	14.9	21.4
headroom	0.9DL+1.5RSx	Combination	Min	X	0.00057	15	3.08	14.9	21.4
headroom	0.9DL+1.5RSy	Combination	Max	X	0.000327	19	0	10.63	21.4
headroom	0.9DL+1.5RSy	Combination	Max	Y	0.001056	15	3.08	14.9	21.4
headroom	0.9DL+1.5RSy	Combination	Min	X	0.000279	19	0	10.63	21.4
headroom	0.9DL+1.5RSy	Combination	Min	Y	0.000845	19	0	10.63	21.4
headroom	1.2(DL+LL+RSx)	Combination	Max	X	0.001039	19	0	10.63	21.4
headroom	1.2(DL+LL+RSx)	Combination	Max	Y	0.000232	15	3.08	14.9	21.4
headroom	1.2(DL+LL+RSx)	Combination	Min	X	0.000289	15	3.08	14.9	21.4
headroom	1.2(DL+LL+RSx)	Combination	Min	Y	0.000112	15	3.08	14.9	21.4
headroom	1.2(DL+LL+RSy)	Combination	Max	X	0.000502	19	0	10.63	21.4
headroom	1.2(DL+LL+RSy)	Combination	Max	Y	0.000915	15	3.08	14.9	21.4
headroom	1.2(DL+LL+RSy)	Combination	Min	X	0.000463	19	0	10.63	21.4
headroom	1.2(DL+LL+RSy)	Combination	Min	Y	0.000663	19	0	10.63	21.4
headroom	1.2(DL+LL-RSx)	Combination	Max	X	0.001039	19	0	10.63	21.4
headroom	1.2(DL+LL-RSx)	Combination	Max	Y	0.000232	15	3.08	14.9	21.4
headroom	1.2(DL+LL-RSx)	Combination	Min	X	0.000289	15	3.08	14.9	21.4
headroom	1.2(DL+LL-RSx)	Combination	Min	Y	0.000112	15	3.08	14.9	21.4
headroom	1.2(DL+LL-RSy)	Combination	Max	X	0.000502	19	0	10.63	21.4
headroom	1.2(DL+LL-RSy)	Combination	Max	Y	0.000915	15	3.08	14.9	21.4
headroom	1.2(DL+LL-RSy)	Combination	Min	X	0.000463	19	0	10.63	21.4
headroom	1.2(DL+LL-RSy)	Combination	Min	Y	0.000663	19	0	10.63	21.4
headroom	1.5(DL+RSx)	Combination	Max	X	0.0012	19	0	10.63	21.4
headroom	1.5(DL+RSx)	Combination	Max	Y	0.000286	15	3.08	14.9	21.4
headroom	1.5(DL+RSx)	Combination	Min	X	0.000443	15	3.08	14.9	21.4
headroom	1.5(DL+RSx)	Combination	Min	Y	0.000137	15	3.08	14.9	21.4
headroom	1.5(DL+RSy)	Combination	Max	X	0.000529	19	0	10.63	21.4
headroom	1.5(DL+RSy)	Combination	Max	Y	0.001141	15	3.08	14.9	21.4
headroom	1.5(DL+RSy)	Combination	Min	X	0.000481	19	0	10.63	21.4
headroom	1.5(DL+RSy)	Combination	Min	Y	0.00082	19	0	10.63	21.4
headroom	1.5(DL-RSx)	Combination	Max	X	0.0012	19	0	10.63	21.4
headroom	1.5(DL-RSx)	Combination	Max	Y	0.000286	15	3.08	14.9	21.4

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	1.5(DL-RSx)	Combination	Min	X	0.000443	15	3.08	14.9	21.4
headroom	1.5(DL-RSx)	Combination	Min	Y	0.000137	15	3.08	14.9	21.4
headroom	1.5(DL-RSy)	Combination	Max	X	0.000529	19	0	10.63	21.4
headroom	1.5(DL-RSy)	Combination	Max	Y	0.001141	15	3.08	14.9	21.4
headroom	1.5(DL-RSy)	Combination	Min	X	0.000481	19	0	10.63	21.4
headroom	1.5(DL-RSy)	Combination	Min	Y	0.00082	19	0	10.63	21.4
roof	Dead	LinStatic		X	0.000121	26	10.44	0	18.9
roof	Dead	LinStatic		Y	9.1E-05	52	11.96	0	18.9
roof	Live	LinStatic		X	2.2E-05	27	1.29	0	18.9
roof	Live	LinStatic		Y	1.9E-05	52	11.96	0	18.9
roof	roof live	LinStatic		X	1.5E-05	23	10.44	7.01	18.9
roof	roof live	LinStatic		Y	2.6E-05	32	7.58	0	18.9
roof	floor finish &partion	LinStatic		X	5.1E-05	31	3.47	0	18.9
roof	floor finish &partion	LinStatic		Y	5.1E-05	32	7.58	0	18.9
roof	sunken filling	LinStatic		X	5.3E-05	2	7.35	30.02	18.9
roof	sunken filling	LinStatic		Y	2.2E-05	52	11.96	0	18.9
roof	wall load	LinStatic		X	0.000117	26	10.44	0	18.9
roof	wall load	LinStatic		Y	6.6E-05	49	11.96	30.02	18.9
roof	seismic x	LinStatic		X	0.000965	27	1.29	0	18.9
roof	seismic y	LinStatic		Y	0.001469	51	0	0	18.9
roof	RSx	LinRespSpec	Max	X	0.000869	1	10.44	30.02	18.9
roof	RSx	LinRespSpec	Max	Y	0.000179	19	0	10.63	18.9
roof	RSy	LinRespSpec	Max	Y	0.001193	11	10.44	14.82	18.9
roof	DL+LL	Combination		X	0.000338	26	10.44	0	18.9
roof	DL+LL	Combination		Y	0.00022	52	11.96	0	18.9
roof	1.5(DL+LL)	Combination		X	0.000507	26	10.44	0	18.9
roof	1.5(DL+LL)	Combination		Y	0.00033	52	11.96	0	18.9
roof	1.2(DL+LL+EQx)	Combination		X	0.001562	26	10.44	0	18.9
roof	1.2(DL+LL+EQx)	Combination		Y	0.000308	49	11.96	30.02	18.9
roof	1.2(DL+LL-EQx)	Combination		X	0.000888	7	1.52	24.69	18.9
roof	1.2(DL+LL-EQx)	Combination		Y	0.000245	32	7.58	0	18.9
roof	1.2(DL+LL+EQy)	Combination		X	0.000403	26	10.44	0	18.9
roof	1.2(DL+LL+EQy)	Combination		Y	0.002015	52	11.96	0	18.9
roof	1.2(DL+LL-EQy)	Combination		X	0.000408	26	10.44	0	18.9
roof	1.2(DL+LL-EQy)	Combination		Y	0.00163	50	0	30.02	18.9
roof	1.5(DL+EQx)	Combination		X	0.001899	26	10.44	0	18.9
roof	1.5(DL+EQx)	Combination		Y	0.000333	49	11.96	30.02	18.9
roof	1.5(DL-EQx)	Combination		X	0.001114	7	1.52	24.69	18.9
roof	1.5(DL-EQx)	Combination		Y	0.000245	32	7.58	0	18.9
roof	1.5(DL+EQy)	Combination		X	0.00045	26	10.44	0	18.9
roof	1.5(DL+EQy)	Combination		Y	0.00246	52	11.96	0	18.9
roof	1.5(DL-EQy)	Combination		X	0.000457	26	10.44	0	18.9
roof	1.5(DL-EQy)	Combination		Y	0.002069	50	0	30.02	18.9
roof	0.9DL+1.5EQx	Combination		X	0.001717	26	10.44	0	18.9
roof	0.9DL-1.5EQx	Combination		X	0.001193	25	1.29	6.25	18.9
roof	0.9DL-1.5EQx	Combination		Y	0.000143	50	0	30.02	18.9
roof	0.9DL+1.5EQy	Combination		Y	0.002351	26	10.44	0	18.9
roof	0.9DL-1.5EQy	Combination		Y	0.002122	50	0	30.02	18.9
roof	DL+0.8LL+0.8EQx	Combination		X	0.001102	26	10.44	0	18.9
roof	DL+0.8LL+0.8EQx	Combination		Y	0.000241	49	11.96	30.02	18.9
roof	DL+0.8LL-0.8EQx	Combination		X	0.000572	7	1.52	24.69	18.9
roof	DL+0.8LL-0.8EQx	Combination		Y	0.000198	32	7.58	0	18.9
roof	DL+0.8LL+0.8EQy	Combination		X	0.000329	26	10.44	0	18.9
roof	DL+0.8LL+0.8EQy	Combination		Y	0.00138	52	11.96	0	18.9

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	DL+0.8LL-0.8EQy	Combination		X	0.000333	26	10.44	0	18.9
roof	DL+0.8LL-0.8EQy	Combination		Y	0.001069	50	0	30.02	18.9
roof	DL+EQx	Combination		X	0.001266	26	10.44	0	18.9
roof	DL+EQx	Combination		Y	0.000222	49	11.96	30.02	18.9
roof	DL-EQx	Combination		X	0.000743	7	1.52	24.69	18.9
roof	DL-EQx	Combination		Y	0.000163	32	7.58	0	18.9
roof	DL+EQy	Combination		X	0.0003	26	10.44	0	18.9
roof	DL+EQy	Combination		Y	0.00164	52	11.96	0	18.9
roof	DL-EQy	Combination		X	0.000305	26	10.44	0	18.9
roof	DL-EQy	Combination		Y	0.00138	50	0	30.02	18.9
roof	seismic weight	Combination		X	0.000308	26	10.44	0	18.9
roof	seismic weight	Combination		Y	0.000186	52	11.96	0	18.9
roof	envelope	Combination	Max	X	0.001899	26	10.44	0	18.9
roof	envelope	Combination	Max	Y	0.00246	52	11.96	0	18.9
roof	envelope	Combination	Min	X	0.001241	2	7.35	30.02	18.9
roof	envelope	Combination	Min	Y	0.002122	50	0	30.02	18.9
roof	0.9DL-1.5RSx	Combination	Max	X	0.001368	1	10.44	30.02	18.9
roof	0.9DL-1.5RSx	Combination	Max	Y	0.000418	52	11.96	0	18.9
roof	0.9DL-1.5RSx	Combination	Min	X	0.001241	2	7.35	30.02	18.9
roof	0.9DL-1.5RSy	Combination	Max	X	0.000311	26	10.44	0	18.9
roof	0.9DL-1.5RSy	Combination	Max	Y	0.001948	52	11.96	0	18.9
roof	0.9DL-1.5RSy	Combination	Min	Y	0.001698	50	0	30.02	18.9
roof	0.9DL+1.5RSx	Combination	Max	X	0.001368	1	10.44	30.02	18.9
roof	0.9DL+1.5RSx	Combination	Max	Y	0.000418	52	11.96	0	18.9
roof	0.9DL+1.5RSx	Combination	Min	X	0.001241	2	7.35	30.02	18.9
roof	0.9DL+1.5RSy	Combination	Max	X	0.000311	26	10.44	0	18.9
roof	0.9DL+1.5RSy	Combination	Max	Y	0.001948	52	11.96	0	18.9
roof	0.9DL+1.5RSy	Combination	Min	Y	0.001698	50	0	30.02	18.9
roof	1.2(DL+LL+RSx)	Combination	Max	X	0.001129	26	10.44	0	18.9
roof	1.2(DL+LL+RSx)	Combination	Max	Y	0.000468	52	11.96	0	18.9
roof	1.2(DL+LL+RSx)	Combination	Min	X	0.000966	2	7.35	30.02	18.9
roof	1.2(DL+LL+RSy)	Combination	Max	X	0.000437	26	10.44	0	18.9
roof	1.2(DL+LL+RSy)	Combination	Max	Y	0.001692	52	11.96	0	18.9
roof	1.2(DL+LL+RSy)	Combination	Min	X	0.000374	26	10.44	0	18.9
roof	1.2(DL+LL+RSy)	Combination	Min	Y	0.001291	50	0	30.02	18.9
roof	1.2(DL+LL-RSx)	Combination	Max	X	0.001129	26	10.44	0	18.9
roof	1.2(DL+LL-RSx)	Combination	Max	Y	0.000468	52	11.96	0	18.9
roof	1.2(DL+LL-RSx)	Combination	Min	X	0.000966	2	7.35	30.02	18.9
roof	1.2(DL+LL-RSy)	Combination	Max	X	0.000437	26	10.44	0	18.9
roof	1.2(DL+LL-RSy)	Combination	Max	Y	0.001692	52	11.96	0	18.9
roof	1.2(DL+LL-RSy)	Combination	Min	X	0.000374	26	10.44	0	18.9
roof	1.2(DL+LL-RSy)	Combination	Min	Y	0.001291	50	0	30.02	18.9
roof	1.5(DL+RSx)	Combination	Max	X	0.001411	1	10.44	30.02	18.9
roof	1.5(DL+RSx)	Combination	Max	Y	0.000527	52	11.96	0	18.9
roof	1.5(DL+RSx)	Combination	Min	X	0.0012	2	7.35	30.02	18.9
roof	1.5(DL+RSy)	Combination	Max	X	0.000493	26	10.44	0	18.9
roof	1.5(DL+RSy)	Combination	Max	Y	0.002057	52	11.96	0	18.9
roof	1.5(DL+RSy)	Combination	Min	X	0.000415	26	10.44	0	18.9
roof	1.5(DL+RSy)	Combination	Min	Y	0.001645	50	0	30.02	18.9
roof	1.5(DL-RSx)	Combination	Max	X	0.001411	1	10.44	30.02	18.9
roof	1.5(DL-RSx)	Combination	Max	Y	0.000527	52	11.96	0	18.9
roof	1.5(DL-RSx)	Combination	Min	X	0.0012	2	7.35	30.02	18.9
roof	1.5(DL-RSy)	Combination	Max	X	0.000493	26	10.44	0	18.9
roof	1.5(DL-RSy)	Combination	Max	Y	0.002057	52	11.96	0	18.9

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	1.5(DL-RSy)	Combination	Min	X	0.000415	26	10.44	0	18.9
roof	1.5(DL-RSy)	Combination	Min	Y	0.001645	50	0	30.02	18.9
story 5	Dead	LinStatic		X	0.00011	27	1.29	0	15.85
story 5	Dead	LinStatic		Y	8.2E-05	49	11.96	30.02	15.85
story 5	Live	LinStatic		X	2.7E-05	26	10.44	0	15.85
story 5	Live	LinStatic		Y	3.1E-05	52	11.96	0	15.85
story 5	roof live	LinStatic		X	8E-06	27	1.29	0	15.85
story 5	roof live	LinStatic		Y	5E-06	1	10.44	30.02	15.85
story 5	floor finish &partion	LinStatic		X	4.9E-05	32	7.58	0	15.85
story 5	floor finish &partion	LinStatic		Y	4.5E-05	49	11.96	30.02	15.85
story 5	sunken filling	LinStatic		X	6.5E-05	3	1.52	30.02	15.85
story 5	sunken filling	LinStatic		Y	2E-05	49	11.96	30.02	15.85
story 5	wall load	LinStatic		X	0.000129	26	10.44	0	15.85
story 5	wall load	LinStatic		Y	8.3E-05	52	11.96	0	15.85
story 5	seismic x	LinStatic		X	0.001393	32	7.58	0	15.85
story 5	seismic y	LinStatic		Y	0.002404	50	0	30.02	15.85
story 5	RSx	LinRespSpec	Max	X	0.001282	50	0	30.02	15.85
story 5	RSx	LinRespSpec	Max	Y	0.000265	49	11.96	30.02	15.85
story 5	RSy	LinRespSpec	Max	Y	0.001979	49	11.96	30.02	15.85
story 5	DL+LL	Combination		X	0.00034	52	11.96	0	15.85
story 5	DL+LL	Combination		Y	0.000224	49	11.96	30.02	15.85
story 5	1.5(DL+LL)	Combination		X	0.000511	52	11.96	0	15.85
story 5	1.5(DL+LL)	Combination		Y	0.000336	49	11.96	30.02	15.85
story 5	1.2(DL+LL+EQx)	Combination		X	0.00208	32	7.58	0	15.85
story 5	1.2(DL+LL+EQx)	Combination		Y	0.000334	49	11.96	30.02	15.85
story 5	1.2(DL+LL-EQx)	Combination		X	0.001263	31	3.47	0	15.85
story 5	1.2(DL+LL-EQx)	Combination		Y	0.000216	19	0	10.63	15.85
story 5	1.2(DL+LL+EQy)	Combination		Y	0.003151	49	11.96	30.02	15.85
story 5	1.2(DL+LL-EQy)	Combination		Y	0.002732	50	0	30.02	15.85
story 5	1.5(DL+EQx)	Combination		X	0.002548	52	11.96	0	15.85
story 5	1.5(DL+EQx)	Combination		Y	0.000365	49	11.96	30.02	15.85
story 5	1.5(DL-EQx)	Combination		X	0.001631	31	3.47	0	15.85
story 5	1.5(DL-EQx)	Combination		Y	0.000242	19	0	10.63	15.85
story 5	1.5(DL+EQy)	Combination		Y	0.003887	49	11.96	30.02	15.85
story 5	1.5(DL-EQy)	Combination		Y	0.003444	50	0	30.02	15.85
story 5	0.9DL+1.5EQx	Combination		X	0.002365	32	7.58	0	15.85
story 5	0.9DL-1.5EQx	Combination		X	0.001814	32	7.58	0	15.85
story 5	0.9DL+1.5EQy	Combination		Y	0.003773	49	11.96	30.02	15.85
story 5	0.9DL-1.5EQy	Combination		Y	0.003509	50	0	30.02	15.85
story 5	DL+0.8LL+0.8EQx	Combination		X	0.001448	52	11.96	0	15.85
story 5	DL+0.8LL+0.8EQx	Combination		Y	0.000261	49	11.96	30.02	15.85
story 5	DL+0.8LL-0.8EQx	Combination		X	0.000797	50	0	30.02	15.85
story 5	DL+0.8LL-0.8EQx	Combination		Y	0.000173	49	11.96	30.02	15.85
story 5	DL+0.8LL+0.8EQy	Combination		X	0.000334	52	11.96	0	15.85
story 5	DL+0.8LL+0.8EQy	Combination		Y	0.002139	49	11.96	30.02	15.85
story 5	DL+0.8LL-0.8EQy	Combination		X	0.000334	26	10.44	0	15.85
story 5	DL+0.8LL-0.8EQy	Combination		Y	0.0018	50	0	30.02	15.85
story 5	DL+EQx	Combination		X	0.001699	52	11.96	0	15.85
story 5	DL+EQx	Combination		Y	0.000244	49	11.96	30.02	15.85
story 5	DL-EQx	Combination		X	0.001087	31	3.47	0	15.85
story 5	DL-EQx	Combination		Y	0.000161	19	0	10.63	15.85
story 5	DL+EQy	Combination		Y	0.002591	49	11.96	30.02	15.85
story 5	DL-EQy	Combination		Y	0.002296	50	0	30.02	15.85
story 5	seismic weight	Combination		X	0.000313	52	11.96	0	15.85

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 5	seismic weight	Combination		Y	0.000196	49	11.96	30.02	15.85
story 5	envelope	Combination	Max	X	0.002548	52	11.96	0	15.85
story 5	envelope	Combination	Max	Y	0.003887	49	11.96	30.02	15.85
story 5	envelope	Combination	Min	X	0.001832	50	0	30.02	15.85
story 5	envelope	Combination	Min	Y	0.003509	50	0	30.02	15.85
story 5	0.9DL-1.5RSx	Combination	Max	X	0.002014	50	0	30.02	15.85
story 5	0.9DL-1.5RSx	Combination	Max	Y	0.000568	49	11.96	30.02	15.85
story 5	0.9DL-1.5RSx	Combination	Min	X	0.001832	50	0	30.02	15.85
story 5	0.9DL-1.5RSy	Combination	Max	Y	0.003138	49	11.96	30.02	15.85
story 5	0.9DL-1.5RSy	Combination	Min	Y	0.002846	50	0	30.02	15.85
story 5	0.9DL+1.5RSx	Combination	Max	X	0.002014	50	0	30.02	15.85
story 5	0.9DL+1.5RSx	Combination	Max	Y	0.000568	49	11.96	30.02	15.85
story 5	0.9DL+1.5RSx	Combination	Min	X	0.001832	50	0	30.02	15.85
story 5	0.9DL+1.5RSy	Combination	Max	Y	0.003138	49	11.96	30.02	15.85
story 5	0.9DL+1.5RSy	Combination	Min	Y	0.002846	50	0	30.02	15.85
story 5	1.2(DL+LL+RSx)	Combination	Max	X	0.001655	50	0	30.02	15.85
story 5	1.2(DL+LL+RSx)	Combination	Max	Y	0.000587	49	11.96	30.02	15.85
story 5	1.2(DL+LL+RSx)	Combination	Min	X	0.001422	50	0	30.02	15.85
story 5	1.2(DL+LL+RSy)	Combination	Max	X	0.000448	52	11.96	0	15.85
story 5	1.2(DL+LL+RSy)	Combination	Max	Y	0.002643	49	11.96	30.02	15.85
story 5	1.2(DL+LL+RSy)	Combination	Min	X	0.000369	26	10.44	0	15.85
story 5	1.2(DL+LL+RSy)	Combination	Min	Y	0.002202	50	0	30.02	15.85
story 5	1.2(DL+LL-RSx)	Combination	Max	X	0.001655	50	0	30.02	15.85
story 5	1.2(DL+LL-RSx)	Combination	Max	Y	0.000587	49	11.96	30.02	15.85
story 5	1.2(DL+LL-RSx)	Combination	Min	X	0.001422	50	0	30.02	15.85
story 5	1.2(DL+LL-RSy)	Combination	Max	X	0.000448	52	11.96	0	15.85
story 5	1.2(DL+LL-RSy)	Combination	Max	Y	0.002643	49	11.96	30.02	15.85
story 5	1.2(DL+LL-RSy)	Combination	Min	X	0.000369	26	10.44	0	15.85
story 5	1.2(DL+LL-RSy)	Combination	Min	Y	0.002202	50	0	30.02	15.85
story 5	1.5(DL+RSx)	Combination	Max	X	0.002075	50	0	30.02	15.85
story 5	1.5(DL+RSx)	Combination	Max	Y	0.000681	49	11.96	30.02	15.85
story 5	1.5(DL+RSx)	Combination	Min	X	0.001771	50	0	30.02	15.85
story 5	1.5(DL+RSy)	Combination	Max	X	0.000508	52	11.96	0	15.85
story 5	1.5(DL+RSy)	Combination	Max	Y	0.003252	49	11.96	30.02	15.85
story 5	1.5(DL+RSy)	Combination	Min	Y	0.002781	50	0	30.02	15.85
story 5	1.5(DL-RSx)	Combination	Max	X	0.002075	50	0	30.02	15.85
story 5	1.5(DL-RSx)	Combination	Max	Y	0.000681	49	11.96	30.02	15.85
story 5	1.5(DL-RSx)	Combination	Min	X	0.001771	50	0	30.02	15.85
story 5	1.5(DL-RSy)	Combination	Max	X	0.000508	52	11.96	0	15.85
story 5	1.5(DL-RSy)	Combination	Max	Y	0.003252	49	11.96	30.02	15.85
story 5	1.5(DL-RSy)	Combination	Min	Y	0.002781	50	0	30.02	15.85
story 4	Dead	LinStatic		X	0.000102	26	10.44	0	12.8
story 4	Dead	LinStatic		Y	8E-05	52	11.96	0	12.8
story 4	Live	LinStatic		X	2.6E-05	27	1.29	0	12.8
story 4	Live	LinStatic		Y	3.3E-05	49	11.96	30.02	12.8
story 4	roof live	LinStatic		X	6E-06	26	10.44	0	12.8
story 4	roof live	LinStatic		Y	3E-06	50	0	30.02	12.8
story 4	floor finish &partion	LinStatic		X	4.5E-05	26	10.44	0	12.8
story 4	floor finish &partion	LinStatic		Y	4.4E-05	52	11.96	0	12.8
story 4	sunken filling	LinStatic		X	6.3E-05	2	7.35	30.02	12.8
story 4	sunken filling	LinStatic		Y	1.8E-05	52	11.96	0	12.8
story 4	wall load	LinStatic		X	0.000127	52	11.96	0	12.8
story 4	wall load	LinStatic		Y	8.4E-05	49	11.96	30.02	12.8
story 4	seismic x	LinStatic		X	0.001696	51	0	0	12.8

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	seismic y	LinStatic		Y	0.003138	94	10.44	14.9	12.8
story 4	RSx	LinRespSpec	Max	X	0.00161	50	0	30.02	12.8
story 4	RSx	LinRespSpec	Max	Y	0.00034	52	11.96	0	12.8
story 4	RSy	LinRespSpec	Max	Y	0.002605	52	11.96	0	12.8
story 4	DL+LL	Combination		X	0.000325	26	10.44	0	12.8
story 4	DL+LL	Combination		Y	0.000224	52	11.96	0	12.8
story 4	1.5(DL+LL)	Combination		X	0.000487	26	10.44	0	12.8
story 4	1.5(DL+LL)	Combination		Y	0.000336	52	11.96	0	12.8
story 4	1.2(DL+LL+EQx)	Combination		X	0.002425	51	0	0	12.8
story 4	1.2(DL+LL+EQx)	Combination		Y	0.000355	52	11.96	0	12.8
story 4	1.2(DL+LL-EQx)	Combination		X	0.001645	51	0	0	12.8
story 4	1.2(DL+LL-EQx)	Combination		Y	0.000246	51	0	0	12.8
story 4	1.2(DL+LL+EQy)	Combination		Y	0.004032	52	11.96	0	12.8
story 4	1.2(DL+LL-EQy)	Combination		Y	0.003602	50	0	30.02	12.8
story 4	1.5(DL+EQx)	Combination		X	0.002982	51	0	0	12.8
story 4	1.5(DL-EQx)	Combination		X	0.002105	51	0	0	12.8
story 4	1.5(DL-EQx)	Combination		Y	0.000277	51	0	0	12.8
story 4	1.5(DL+EQy)	Combination		Y	0.004989	52	11.96	0	12.8
story 4	1.5(DL-EQy)	Combination		Y	0.004533	50	0	30.02	12.8
story 4	0.9DL+1.5EQx	Combination		X	0.002807	51	0	0	12.8
story 4	0.9DL-1.5EQx	Combination		X	0.002281	51	0	0	12.8
story 4	0.9DL+1.5EQy	Combination		Y	0.004875	52	11.96	0	12.8
story 4	0.9DL-1.5EQy	Combination		Y	0.004602	50	0	30.02	12.8
story 4	DL+0.8LL+0.8EQx	Combination		X	0.001675	51	0	0	12.8
story 4	DL+0.8LL+0.8EQx	Combination		Y	0.000274	52	11.96	0	12.8
story 4	DL+0.8LL-0.8EQx	Combination		X	0.001038	51	0	0	12.8
story 4	DL+0.8LL-0.8EQx	Combination		Y	0.000187	51	0	0	12.8
story 4	DL+0.8LL+0.8EQy	Combination		Y	0.002726	52	11.96	0	12.8
story 4	DL+0.8LL-0.8EQy	Combination		Y	0.002379	50	0	30.02	12.8
story 4	DL+EQx	Combination		X	0.001988	51	0	0	12.8
story 4	DL-EQx	Combination		X	0.001403	51	0	0	12.8
story 4	DL-EQx	Combination		Y	0.000185	51	0	0	12.8
story 4	DL+EQy	Combination		Y	0.003326	52	11.96	0	12.8
story 4	DL-EQy	Combination		Y	0.003022	50	0	30.02	12.8
story 4	seismic weight	Combination		X	0.000299	51	0	0	12.8
story 4	seismic weight	Combination		Y	0.000198	52	11.96	0	12.8
story 4	envelope	Combination	Max	X	0.002982	51	0	0	12.8
story 4	envelope	Combination	Max	Y	0.004989	52	11.96	0	12.8
story 4	envelope	Combination	Min	X	0.00232	50	0	30.02	12.8
story 4	envelope	Combination	Min	Y	0.004602	50	0	30.02	12.8
story 4	0.9DL-1.5RSx	Combination	Max	X	0.002511	50	0	30.02	12.8
story 4	0.9DL-1.5RSx	Combination	Max	Y	0.000681	52	11.96	0	12.8
story 4	0.9DL-1.5RSx	Combination	Min	X	0.00232	50	0	30.02	12.8
story 4	0.9DL-1.5RSx	Combination	Min	Y	0.00039	50	0	30.02	12.8
story 4	0.9DL-1.5RSy	Combination	Max	Y	0.004078	52	11.96	0	12.8
story 4	0.9DL-1.5RSy	Combination	Min	Y	0.00377	50	0	30.02	12.8
story 4	0.9DL+1.5RSx	Combination	Max	X	0.002511	50	0	30.02	12.8
story 4	0.9DL+1.5RSx	Combination	Max	Y	0.000681	52	11.96	0	12.8
story 4	0.9DL+1.5RSx	Combination	Min	X	0.00232	50	0	30.02	12.8
story 4	0.9DL+1.5RSx	Combination	Min	Y	0.00039	50	0	30.02	12.8
story 4	0.9DL+1.5RSy	Combination	Max	Y	0.004078	52	11.96	0	12.8
story 4	0.9DL+1.5RSy	Combination	Min	Y	0.00377	50	0	30.02	12.8
story 4	1.2(DL+LL+RSx)	Combination	Max	X	0.002058	50	0	30.02	12.8
story 4	1.2(DL+LL+RSx)	Combination	Max	Y	0.000677	52	11.96	0	12.8

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	1.2(DL+LL+RSx)	Combination	Min	X	0.001807	50	0	30.02	12.8
story 4	1.2(DL+LL+RSy)	Combination	Max	Y	0.003394	52	11.96	0	12.8
story 4	1.2(DL+LL+RSy)	Combination	Min	Y	0.002937	50	0	30.02	12.8
story 4	1.2(DL+LL-RSx)	Combination	Max	X	0.002058	50	0	30.02	12.8
story 4	1.2(DL+LL-RSx)	Combination	Max	Y	0.000677	52	11.96	0	12.8
story 4	1.2(DL+LL-RSx)	Combination	Min	X	0.001807	50	0	30.02	12.8
story 4	1.2(DL+LL-RSy)	Combination	Max	Y	0.003394	52	11.96	0	12.8
story 4	1.2(DL+LL-RSy)	Combination	Min	Y	0.002937	50	0	30.02	12.8
story 4	1.5(DL+RSx)	Combination	Max	X	0.002575	50	0	30.02	12.8
story 4	1.5(DL+RSx)	Combination	Max	Y	0.000795	52	11.96	0	12.8
story 4	1.5(DL+RSx)	Combination	Min	X	0.002256	50	0	30.02	12.8
story 4	1.5(DL+RSy)	Combination	Max	Y	0.004192	52	11.96	0	12.8
story 4	1.5(DL+RSy)	Combination	Min	Y	0.003701	50	0	30.02	12.8
story 4	1.5(DL-RSx)	Combination	Max	X	0.002575	50	0	30.02	12.8
story 4	1.5(DL-RSx)	Combination	Max	Y	0.000795	52	11.96	0	12.8
story 4	1.5(DL-RSx)	Combination	Min	X	0.002256	50	0	30.02	12.8
story 4	1.5(DL-RSy)	Combination	Max	Y	0.004192	52	11.96	0	12.8
story 4	1.5(DL-RSy)	Combination	Min	Y	0.003701	50	0	30.02	12.8
story 3	Dead	LinStatic		X	9.1E-05	27	1.29	0	9.75
story 3	Dead	LinStatic		Y	7.9E-05	49	11.96	30.02	9.75
story 3	Live	LinStatic		X	2.4E-05	27	1.29	0	9.75
story 3	Live	LinStatic		Y	3.3E-05	49	11.96	30.02	9.75
story 3	roof live	LinStatic		X	5E-06	27	1.29	0	9.75
story 3	roof live	LinStatic		Y	2E-06	51	0	0	9.75
story 3	floor finish &partion	LinStatic		X	3.9E-05	27	1.29	0	9.75
story 3	floor finish &partion	LinStatic		Y	4.3E-05	49	11.96	30.02	9.75
story 3	sunken filling	LinStatic		X	5.7E-05	2	7.35	30.02	9.75
story 3	sunken filling	LinStatic		Y	1.5E-05	52	11.96	0	9.75
story 3	wall load	LinStatic		X	0.00012	27	1.29	0	9.75
story 3	wall load	LinStatic		Y	8E-05	49	11.96	30.02	9.75
story 3	seismic x	LinStatic		X	0.001848	31	3.47	0	9.75
story 3	seismic y	LinStatic		Y	0.003563	52	11.96	0	9.75
story 3	RSx	LinRespSpec	Max	X	0.001846	49	11.96	30.02	9.75
story 3	RSx	LinRespSpec	Max	Y	0.00039	49	11.96	30.02	9.75
story 3	RSy	LinRespSpec	Max	Y	0.00306	52	11.96	0	9.75
story 3	DL+LL	Combination		X	0.000297	27	1.29	0	9.75
story 3	DL+LL	Combination		Y	0.00022	49	11.96	30.02	9.75
story 3	1.5(DL+LL)	Combination		X	0.000445	27	1.29	0	9.75
story 3	1.5(DL+LL)	Combination		Y	0.000331	49	11.96	30.02	9.75
story 3	1.2(DL+LL+EQx)	Combination		X	0.002574	51	0	0	9.75
story 3	1.2(DL+LL-EQx)	Combination		X	0.001863	52	11.96	0	9.75
story 3	1.2(DL+LL-EQx)	Combination		Y	0.000265	51	0	0	9.75
story 3	1.2(DL+LL+EQy)	Combination		Y	0.004537	49	11.96	30.02	9.75
story 3	1.2(DL+LL-EQy)	Combination		Y	0.004093	17	0	12.84	9.75
story 3	1.5(DL+EQx)	Combination		X	0.003174	51	0	0	9.75
story 3	1.5(DL-EQx)	Combination		X	0.002372	52	11.96	0	9.75
story 3	1.5(DL-EQx)	Combination		Y	0.000298	51	0	0	9.75
story 3	1.5(DL+EQy)	Combination		Y	0.005621	49	11.96	30.02	9.75
story 3	1.5(DL-EQy)	Combination		Y	0.005149	17	0	12.84	9.75
story 3	0.9DL+1.5EQx	Combination		X	0.003013	51	0	0	9.75
story 3	0.9DL-1.5EQx	Combination		X	0.002532	52	11.96	0	9.75
story 3	0.9DL+1.5EQy	Combination		Y	0.00551	52	11.96	0	9.75
story 3	0.9DL-1.5EQy	Combination		Y	0.005223	17	0	12.84	9.75
story 3	DL+0.8LL+0.8EQx	Combination		X	0.001769	51	0	0	9.75

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 3	DL+0.8LL+0.8EQx	Combination		Y	0.000274	49	11.96	30.02	9.75
story 3	DL+0.8LL-0.8EQx	Combination		X	0.001189	52	11.96	0	9.75
story 3	DL+0.8LL-0.8EQx	Combination		Y	0.000201	19	0	10.63	9.75
story 3	DL+0.8LL+0.8EQy	Combination		Y	0.003062	49	11.96	30.02	9.75
story 3	DL+0.8LL-0.8EQy	Combination		Y	0.002704	17	0	12.84	9.75
story 3	DL+EQx	Combination		X	0.002116	51	0	0	9.75
story 3	DL-EQx	Combination		X	0.001581	52	11.96	0	9.75
story 3	DL-EQx	Combination		Y	0.000198	51	0	0	9.75
story 3	DL+EQy	Combination		Y	0.003747	49	11.96	30.02	9.75
story 3	DL-EQy	Combination		Y	0.003433	17	0	12.84	9.75
story 3	seismic weight	Combination		X	0.000274	27	1.29	0	9.75
story 3	seismic weight	Combination		Y	0.000195	49	11.96	30.02	9.75
story 3	envelope	Combination	Max	X	0.003174	51	0	0	9.75
story 3	envelope	Combination	Max	Y	0.005621	49	11.96	30.02	9.75
story 3	envelope	Combination	Min	X	0.002673	49	11.96	30.02	9.75
story 3	envelope	Combination	Min	Y	0.005223	17	0	12.84	9.75
story 3	0.9DL-1.5RSx	Combination	Max	X	0.002866	2	7.35	30.02	9.75
story 3	0.9DL-1.5RSx	Combination	Max	Y	0.000753	49	11.96	30.02	9.75
story 3	0.9DL-1.5RSx	Combination	Min	X	0.002673	49	11.96	30.02	9.75
story 3	0.9DL-1.5RSx	Combination	Min	Y	0.000453	50	0	30.02	9.75
story 3	0.9DL-1.5RSy	Combination	Max	Y	0.004757	52	11.96	0	9.75
story 3	0.9DL-1.5RSy	Combination	Min	Y	0.004431	15	3.08	14.9	9.75
story 3	0.9DL+1.5RSx	Combination	Max	X	0.002866	2	7.35	30.02	9.75
story 3	0.9DL+1.5RSx	Combination	Max	Y	0.000753	49	11.96	30.02	9.75
story 3	0.9DL+1.5RSx	Combination	Min	X	0.002673	49	11.96	30.02	9.75
story 3	0.9DL+1.5RSx	Combination	Min	Y	0.000453	50	0	30.02	9.75
story 3	0.9DL+1.5RSy	Combination	Max	Y	0.004757	52	11.96	0	9.75
story 3	0.9DL+1.5RSy	Combination	Min	Y	0.004431	15	3.08	14.9	9.75
story 3	1.2(DL+LL+RSx)	Combination	Max	X	0.002345	2	7.35	30.02	9.75
story 3	1.2(DL+LL+RSx)	Combination	Max	Y	0.000732	49	11.96	30.02	9.75
story 3	1.2(DL+LL+RSx)	Combination	Min	X	0.002087	49	11.96	30.02	9.75
story 3	1.2(DL+LL+RSy)	Combination	Max	Y	0.003935	49	11.96	30.02	9.75
story 3	1.2(DL+LL+RSy)	Combination	Min	Y	0.003459	17	0	12.84	9.75
story 3	1.2(DL+LL-RSx)	Combination	Max	X	0.002345	2	7.35	30.02	9.75
story 3	1.2(DL+LL-RSx)	Combination	Max	Y	0.000732	49	11.96	30.02	9.75
story 3	1.2(DL+LL-RSx)	Combination	Min	X	0.002087	49	11.96	30.02	9.75
story 3	1.2(DL+LL-RSy)	Combination	Max	Y	0.003935	49	11.96	30.02	9.75
story 3	1.2(DL+LL-RSy)	Combination	Min	Y	0.003459	17	0	12.84	9.75
story 3	1.5(DL+RSx)	Combination	Max	X	0.002931	2	7.35	30.02	9.75
story 3	1.5(DL+RSx)	Combination	Max	Y	0.000865	49	11.96	30.02	9.75
story 3	1.5(DL+RSx)	Combination	Min	X	0.002609	49	11.96	30.02	9.75
story 3	1.5(DL+RSy)	Combination	Max	Y	0.004868	49	11.96	30.02	9.75
story 3	1.5(DL+RSy)	Combination	Min	Y	0.004358	17	0	12.84	9.75
story 3	1.5(DL-RSx)	Combination	Max	X	0.002931	2	7.35	30.02	9.75
story 3	1.5(DL-RSx)	Combination	Max	Y	0.000865	49	11.96	30.02	9.75
story 3	1.5(DL-RSx)	Combination	Min	X	0.002609	49	11.96	30.02	9.75
story 3	1.5(DL-RSy)	Combination	Max	Y	0.004868	49	11.96	30.02	9.75
story 3	1.5(DL-RSy)	Combination	Min	Y	0.004358	17	0	12.84	9.75
story 2	Dead	LinStatic		X	7.8E-05	26	10.44	0	6.7
story 2	Dead	LinStatic		Y	7.7E-05	52	11.96	0	6.7
story 2	Live	LinStatic		X	2E-05	26	10.44	0	6.7
story 2	Live	LinStatic		Y	3.3E-05	32	7.58	0	6.7
story 2	roof live	LinStatic		X	3E-06	51	0	0	6.7
story 2	roof live	LinStatic		Y	1E-06	50	0	30.02	6.7

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	floor finish &partion	LinStatic		X	3.1E-05	26	10.44	0	6.7
story 2	floor finish &partion	LinStatic		Y	4.1E-05	52	11.96	0	6.7
story 2	sunken filling	LinStatic		X	5E-05	3	1.52	30.02	6.7
story 2	sunken filling	LinStatic		Y	1.1E-05	49	11.96	30.02	6.7
story 2	wall load	LinStatic		X	0.000113	26	10.44	0	6.7
story 2	wall load	LinStatic		Y	7.5E-05	52	11.96	0	6.7
story 2	seismic x	LinStatic		X	0.001939	51	0	0	6.7
story 2	seismic y	LinStatic		Y	0.003899	3	1.52	30.02	6.7
story 2	RSx	LinRespSpec	Max	X	0.002049	50	0	30.02	6.7
story 2	RSx	LinRespSpec	Max	Y	0.000433	49	11.96	30.02	6.7
story 2	RSy	LinRespSpec	Max	Y	0.003599	94	10.44	14.9	6.7
story 2	DL+LL	Combination		X	0.000262	26	10.44	0	6.7
story 2	DL+LL	Combination		Y	0.000215	52	11.96	0	6.7
story 2	1.5(DL+LL)	Combination		X	0.000393	26	10.44	0	6.7
story 2	1.5(DL+LL)	Combination		Y	0.000322	52	11.96	0	6.7
story 2	1.2(DL+LL+EQx)	Combination		X	0.00264	26	10.44	0	6.7
story 2	1.2(DL+LL-EQx)	Combination		X	0.002025	27	1.29	0	6.7
story 2	1.2(DL+LL-EQx)	Combination		Y	0.000298	51	0	0	6.7
story 2	1.2(DL+LL+EQy)	Combination		Y	0.004914	26	10.44	0	6.7
story 2	1.2(DL+LL-EQy)	Combination		Y	0.004491	3	1.52	30.02	6.7
story 2	1.5(DL+EQx)	Combination		X	0.003265	26	10.44	0	6.7
story 2	1.5(DL-EQx)	Combination		X	0.002586	27	1.29	0	6.7
story 2	1.5(DL+EQy)	Combination		Y	0.006093	94	10.44	14.9	6.7
story 2	1.5(DL-EQy)	Combination		Y	0.00565	3	1.52	30.02	6.7
story 2	0.9DL+1.5EQx	Combination		X	0.003122	26	10.44	0	6.7
story 2	0.9DL-1.5EQx	Combination		X	0.002703	27	1.29	0	6.7
story 2	0.9DL+1.5EQy	Combination		Y	0.005989	94	10.44	14.9	6.7
story 2	0.9DL-1.5EQy	Combination		Y	0.00573	3	1.52	30.02	6.7
story 2	DL+0.8LL+0.8EQx	Combination		X	0.001808	26	10.44	0	6.7
story 2	DL+0.8LL+0.8EQx	Combination		Y	0.000282	52	11.96	0	6.7
story 2	DL+0.8LL-0.8EQx	Combination		X	0.001305	27	1.29	0	6.7
story 2	DL+0.8LL-0.8EQx	Combination		Y	0.000225	51	0	0	6.7
story 2	DL+0.8LL+0.8EQy	Combination		Y	0.003312	26	10.44	0	6.7
story 2	DL+0.8LL-0.8EQy	Combination		Y	0.002968	50	0	30.02	6.7
story 2	DL+EQx	Combination		X	0.002177	26	10.44	0	6.7
story 2	DL-EQx	Combination		X	0.001711	27	1.29	0	6.7
story 2	DL+EQy	Combination		Y	0.004062	94	10.44	14.9	6.7
story 2	DL-EQy	Combination		Y	0.003767	3	1.52	30.02	6.7
story 2	seismic weight	Combination		X	0.000244	26	10.44	0	6.7
story 2	seismic weight	Combination		Y	0.00019	52	11.96	0	6.7
story 2	envelope	Combination	Max	X	0.003265	26	10.44	0	6.7
story 2	envelope	Combination	Max	Y	0.006093	94	10.44	14.9	6.7
story 2	envelope	Combination	Min	X	0.002978	50	0	30.02	6.7
story 2	envelope	Combination	Min	Y	0.00573	3	1.52	30.02	6.7
story 2	0.9DL-1.5RSx	Combination	Max	X	0.003169	50	0	30.02	6.7
story 2	0.9DL-1.5RSx	Combination	Max	Y	0.000806	49	11.96	30.02	6.7
story 2	0.9DL-1.5RSx	Combination	Min	X	0.002978	50	0	30.02	6.7
story 2	0.9DL-1.5RSx	Combination	Min	Y	0.000527	50	0	30.02	6.7
story 2	0.9DL-1.5RSy	Combination	Max	Y	0.005555	94	10.44	14.9	6.7
story 2	0.9DL-1.5RSy	Combination	Min	Y	0.005265	3	1.52	30.02	6.7
story 2	0.9DL+1.5RSx	Combination	Max	X	0.003169	50	0	30.02	6.7
story 2	0.9DL+1.5RSx	Combination	Max	Y	0.000806	49	11.96	30.02	6.7
story 2	0.9DL+1.5RSx	Combination	Min	X	0.002978	50	0	30.02	6.7
story 2	0.9DL+1.5RSx	Combination	Min	Y	0.000527	50	0	30.02	6.7

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	0.005555	94	10.44	14.9	6.7
story 2	0.9DL+1.5RSy	Combination	Min	Y	0.005265	3	1.52	30.02	6.7
story 2	1.2(DL+LL+RSx)	Combination	Max	X	0.00259	3	1.52	30.02	6.7
story 2	1.2(DL+LL+RSx)	Combination	Max	Y	0.00077	52	11.96	0	6.7
story 2	1.2(DL+LL+RSx)	Combination	Min	X	0.002327	50	0	30.02	6.7
story 2	1.2(DL+LL+RSy)	Combination	Max	Y	0.004566	26	10.44	0	6.7
story 2	1.2(DL+LL+RSy)	Combination	Min	Y	0.004119	3	1.52	30.02	6.7
story 2	1.2(DL+LL-RSx)	Combination	Max	X	0.00259	3	1.52	30.02	6.7
story 2	1.2(DL+LL-RSx)	Combination	Max	Y	0.00077	52	11.96	0	6.7
story 2	1.2(DL+LL-RSx)	Combination	Min	X	0.002327	50	0	30.02	6.7
story 2	1.2(DL+LL-RSy)	Combination	Max	Y	0.004566	26	10.44	0	6.7
story 2	1.2(DL+LL-RSy)	Combination	Min	Y	0.004119	3	1.52	30.02	6.7
story 2	1.5(DL+RSx)	Combination	Max	X	0.003233	3	1.52	30.02	6.7
story 2	1.5(DL+RSx)	Combination	Max	Y	0.000913	52	11.96	0	6.7
story 2	1.5(DL+RSx)	Combination	Min	X	0.002914	50	0	30.02	6.7
story 2	1.5(DL+RSy)	Combination	Max	Y	0.005659	94	10.44	14.9	6.7
story 2	1.5(DL+RSy)	Combination	Min	Y	0.005185	3	1.52	30.02	6.7
story 2	1.5(DL-RSx)	Combination	Max	X	0.003233	3	1.52	30.02	6.7
story 2	1.5(DL-RSx)	Combination	Max	Y	0.000913	52	11.96	0	6.7
story 2	1.5(DL-RSx)	Combination	Min	X	0.002914	50	0	30.02	6.7
story 2	1.5(DL-RSy)	Combination	Max	Y	0.005659	94	10.44	14.9	6.7
story 2	1.5(DL-RSy)	Combination	Min	Y	0.005185	3	1.52	30.02	6.7
story 1	Dead	LinStatic		X	4.6E-05	26	10.44	0	3.65
story 1	Dead	LinStatic		Y	4.4E-05	23	10.44	7.01	3.65
story 1	Live	LinStatic		X	1.2E-05	26	10.44	0	3.65
story 1	Live	LinStatic		Y	1.9E-05	6	3.69	24.69	3.65
story 1	roof live	LinStatic		X	2E-06	26	10.44	0	3.65
story 1	roof live	LinStatic		Y	1E-06	19	0	10.63	3.65
story 1	floor finish &partion	LinStatic		X	1.9E-05	26	10.44	0	3.65
story 1	floor finish &partion	LinStatic		Y	2.3E-05	6	3.69	24.69	3.65
story 1	sunken filling	LinStatic		X	2.7E-05	3	1.52	30.02	3.65
story 1	wall load	LinStatic		X	7.5E-05	28	7.58	7.01	3.65
story 1	wall load	LinStatic		Y	4.1E-05	22	10.44	10.63	3.65
story 1	seismic x	LinStatic		X	0.002246	31	3.47	0	3.65
story 1	seismic y	LinStatic		Y	0.004251	6	3.69	24.69	3.65
story 1	RSx	LinRespSpec	Max	X	0.002289	3	1.52	30.02	3.65
story 1	RSx	LinRespSpec	Max	Y	0.000491	19	0	10.63	3.65
story 1	RSy	LinRespSpec	Max	Y	0.004264	6	3.69	24.69	3.65
story 1	DL+LL	Combination		X	0.000165	28	7.58	7.01	3.65
story 1	DL+LL	Combination		Y	0.000122	32	7.58	0	3.65
story 1	1.5(DL+LL)	Combination		X	0.000247	28	7.58	7.01	3.65
story 1	1.5(DL+LL)	Combination		Y	0.000183	32	7.58	0	3.65
story 1	1.2(DL+LL+EQx)	Combination		X	0.002877	32	7.58	0	3.65
story 1	1.2(DL+LL-EQx)	Combination		X	0.002517	31	3.47	0	3.65
story 1	1.2(DL+LL+EQy)	Combination		Y	0.005243	6	3.69	24.69	3.65
story 1	1.2(DL+LL-EQy)	Combination		Y	0.00496	27	1.29	0	3.65
story 1	1.5(DL+EQx)	Combination		X	0.003575	32	7.58	0	3.65
story 1	1.5(DL-EQx)	Combination		X	0.003167	31	3.47	0	3.65
story 1	1.5(DL+EQy)	Combination		Y	0.006526	6	3.69	24.69	3.65
story 1	1.5(DL-EQy)	Combination		Y	0.006227	6	3.69	24.69	3.65
story 1	0.9DL+1.5EQx	Combination		X	0.003492	32	7.58	0	3.65
story 1	0.9DL-1.5EQx	Combination		X	0.003248	31	3.47	0	3.65
story 1	0.9DL+1.5EQy	Combination		Y	0.006467	6	3.69	24.69	3.65
story 1	0.9DL-1.5EQy	Combination		Y	0.006287	6	3.69	24.69	3.65

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 1	DL+0.8LL+0.8EQx	Combination		X	0.001946	32	7.58	0	3.65
story 1	DL+0.8LL-0.8EQx	Combination		X	0.001651	31	3.47	0	3.65
story 1	DL+0.8LL+0.8EQy	Combination		Y	0.003516	6	3.69	24.69	3.65
story 1	DL+0.8LL-0.8EQy	Combination		Y	0.003293	27	1.29	0	3.65
story 1	DL+EQx	Combination		X	0.002383	32	7.58	0	3.65
story 1	DL-EQx	Combination		X	0.002111	31	3.47	0	3.65
story 1	DL+EQy	Combination		Y	0.004351	6	3.69	24.69	3.65
story 1	DL-EQy	Combination		Y	0.004151	6	3.69	24.69	3.65
story 1	seismic weight	Combination		X	0.000155	28	7.58	7.01	3.65
story 1	seismic weight	Combination		Y	0.000108	32	7.58	0	3.65
story 1	envelope	Combination	Max	X	0.003575	32	7.58	0	3.65
story 1	envelope	Combination	Max	Y	0.006546	6	3.69	24.69	3.65
story 1	envelope	Combination	Min	X	0.003382	3	1.52	30.02	3.65
story 1	envelope	Combination	Min	Y	0.006307	6	3.69	24.69	3.65
story 1	0.9DL-1.5RSx	Combination	Max	X	0.003486	3	1.52	30.02	3.65
story 1	0.9DL-1.5RSx	Combination	Max	Y	0.000798	17	0	12.84	3.65
story 1	0.9DL-1.5RSx	Combination	Min	X	0.003382	3	1.52	30.02	3.65
story 1	0.9DL-1.5RSx	Combination	Min	Y	0.000676	19	0	10.63	3.65
story 1	0.9DL-1.5RSy	Combination	Max	Y	0.006486	6	3.69	24.69	3.65
story 1	0.9DL-1.5RSy	Combination	Min	Y	0.006307	6	3.69	24.69	3.65
story 1	0.9DL+1.5RSx	Combination	Max	X	0.003486	3	1.52	30.02	3.65
story 1	0.9DL+1.5RSx	Combination	Max	Y	0.000798	17	0	12.84	3.65
story 1	0.9DL+1.5RSx	Combination	Min	X	0.003382	3	1.52	30.02	3.65
story 1	0.9DL+1.5RSx	Combination	Min	Y	0.000676	19	0	10.63	3.65
story 1	0.9DL+1.5RSy	Combination	Max	Y	0.006486	6	3.69	24.69	3.65
story 1	0.9DL+1.5RSy	Combination	Min	Y	0.006307	6	3.69	24.69	3.65
story 1	1.2(DL+LL+RSx)	Combination	Max	X	0.002819	3	1.52	30.02	3.65
story 1	1.2(DL+LL+RSx)	Combination	Max	Y	0.000687	17	0	12.84	3.65
story 1	1.2(DL+LL+RSx)	Combination	Min	X	0.002676	3	1.52	30.02	3.65
story 1	1.2(DL+LL+RSx)	Combination	Min	Y	0.000493	19	0	10.63	3.65
story 1	1.2(DL+LL+RSy)	Combination	Max	Y	0.005259	6	3.69	24.69	3.65
story 1	1.2(DL+LL+RSy)	Combination	Min	Y	0.004975	6	3.69	24.69	3.65
story 1	1.2(DL+LL-RSx)	Combination	Max	X	0.002819	3	1.52	30.02	3.65
story 1	1.2(DL+LL-RSx)	Combination	Max	Y	0.000687	17	0	12.84	3.65
story 1	1.2(DL+LL-RSx)	Combination	Min	X	0.002676	3	1.52	30.02	3.65
story 1	1.2(DL+LL-RSx)	Combination	Min	Y	0.000493	19	0	10.63	3.65
story 1	1.2(DL+LL-RSy)	Combination	Max	Y	0.005259	6	3.69	24.69	3.65
story 1	1.2(DL+LL-RSy)	Combination	Min	Y	0.004975	6	3.69	24.69	3.65
story 1	1.5(DL+RSx)	Combination	Max	X	0.003521	3	1.52	30.02	3.65
story 1	1.5(DL+RSx)	Combination	Max	Y	0.00084	17	0	12.84	3.65
story 1	1.5(DL+RSx)	Combination	Min	X	0.003348	3	1.52	30.02	3.65
story 1	1.5(DL+RSx)	Combination	Min	Y	0.000635	19	0	10.63	3.65
story 1	1.5(DL+RSy)	Combination	Max	Y	0.006546	6	3.69	24.69	3.65
story 1	1.5(DL+RSy)	Combination	Min	Y	0.006247	6	3.69	24.69	3.65
story 1	1.5(DL-RSx)	Combination	Max	X	0.003521	3	1.52	30.02	3.65
story 1	1.5(DL-RSx)	Combination	Max	Y	0.00084	17	0	12.84	3.65
story 1	1.5(DL-RSx)	Combination	Min	X	0.003348	3	1.52	30.02	3.65
story 1	1.5(DL-RSx)	Combination	Min	Y	0.000635	19	0	10.63	3.65
story 1	1.5(DL-RSy)	Combination	Max	Y	0.006546	6	3.69	24.69	3.65
story 1	1.5(DL-RSy)	Combination	Min	Y	0.006247	6	3.69	24.69	3.65
plinth beam	Dead	LinStatic		X	3.4E-05	25	1.29	6.25	0
plinth beam	Dead	LinStatic		Y	1.8E-05	2	7.35	30.02	0
plinth beam	Live	LinStatic		X	9E-06	25	1.29	6.25	0
plinth beam	Live	LinStatic		Y	1E-05	2	7.35	30.02	0

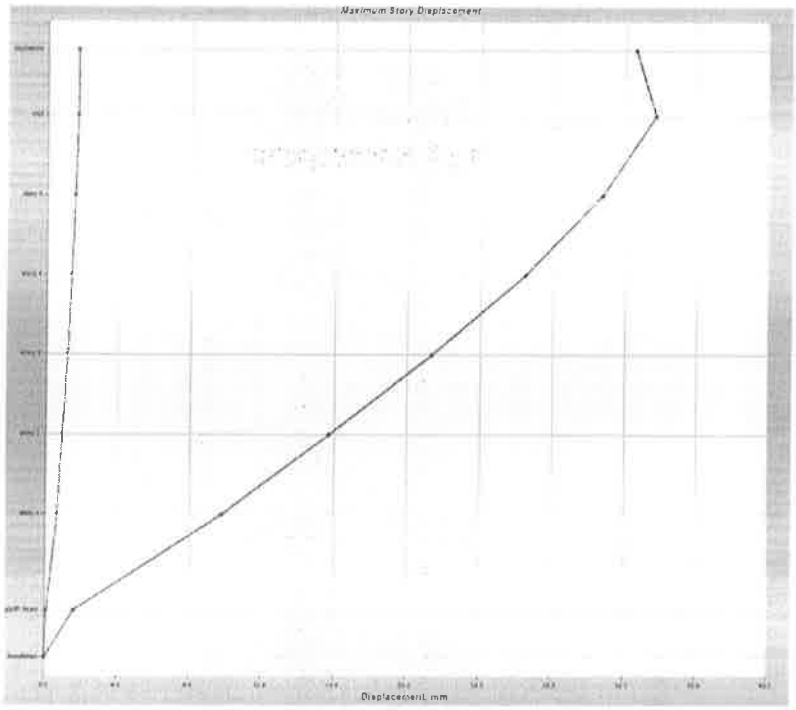
Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	roof live	LinStatic		X	1E-06	28	7.58	7.01	0
plinth beam	roof live	LinStatic		Y	2.278E-07	9	7.35	21.15	0
plinth beam	floor finish &partion	LinStatic		X	1.1E-05	25	1.29	6.25	0
plinth beam	floor finish &partion	LinStatic		Y	1.2E-05	2	7.35	30.02	0
plinth beam	sunken filling	LinStatic		Y	6E-06	32	7.58	0	0
plinth beam	wall load	LinStatic		X	7.7E-05	25	1.29	6.25	0
plinth beam	wall load	LinStatic		Y	1.4E-05	25	1.29	6.25	0
plinth beam	seismic x	LinStatic		X	0.000888	26	10.44	0	0
plinth beam	seismic y	LinStatic		Y	0.001467	32	7.58	0	0
plinth beam	RSx	LinRespSpec	Max	X	0.000803	5	10.44	24.61	0
plinth beam	RSx	LinRespSpec	Max	Y	0.000168	17	0	12.84	0
plinth beam	RSy	LinRespSpec	Max	Y	0.001506	32	7.58	0	0
plinth beam	DL+LL	Combination		X	0.000139	25	1.29	6.25	0
plinth beam	DL+LL	Combination		Y	4.9E-05	2	7.35	30.02	0
plinth beam	1.5(DL+LL)	Combination		X	0.000209	25	1.29	6.25	0
plinth beam	1.5(DL+LL)	Combination		Y	7.4E-05	2	7.35	30.02	0
plinth beam	1.2(DL+LL+EQx)	Combination		X	0.001162	25	1.29	6.25	0
plinth beam	1.2(DL+LL-EQx)	Combination		X	0.001098	23	10.44	7.01	0
plinth beam	1.2(DL+LL+EQy)	Combination		Y	0.001776	28	7.58	7.01	0
plinth beam	1.2(DL+LL-EQy)	Combination		Y	0.001802	32	7.58	0	0
plinth beam	1.5(DL+EQx)	Combination		X	0.00144	25	1.29	6.25	0
plinth beam	1.5(DL-EQx)	Combination		X	0.001369	23	10.44	7.01	0
plinth beam	1.5(DL+EQy)	Combination		Y	0.002213	28	7.58	7.01	0
plinth beam	1.5(DL-EQy)	Combination		Y	0.002245	32	7.58	0	0
plinth beam	0.9DL+1.5EQx	Combination		X	0.001362	27	1.29	0	0
plinth beam	0.9DL-1.5EQx	Combination		X	0.001322	23	10.44	7.01	0
plinth beam	0.9DL+1.5EQy	Combination		Y	0.002199	28	7.58	7.01	0
plinth beam	0.9DL-1.5EQy	Combination		Y	0.002227	32	7.58	0	0
plinth beam	DL+0.8LL+0.8EQx	Combination		X	0.000801	25	1.29	6.25	0
plinth beam	DL+0.8LL-0.8EQx	Combination		X	0.000748	23	10.44	7.01	0
plinth beam	DL+0.8LL+0.8EQy	Combination		Y	0.001189	28	7.58	7.01	0
plinth beam	DL+0.8LL-0.8EQy	Combination		Y	0.001207	32	7.58	0	0
plinth beam	DL+EQx	Combination		X	0.00096	25	1.29	6.25	0
plinth beam	DL-EQx	Combination		X	0.000913	23	10.44	7.01	0
plinth beam	DL+EQy	Combination		Y	0.001475	28	7.58	7.01	0
plinth beam	DL-EQy	Combination		Y	0.001496	32	7.58	0	0
plinth beam	seismic weight	Combination		X	0.000133	25	1.29	6.25	0
plinth beam	seismic weight	Combination		Y	4.2E-05	2	7.35	30.02	0
plinth beam	envelope	Combination	Max	X	0.00144	25	1.29	6.25	0
plinth beam	envelope	Combination	Max	Y	0.00227	28	7.58	7.01	0
plinth beam	envelope	Combination	Min	X	0.001369	23	10.44	7.01	0
plinth beam	envelope	Combination	Min	Y	0.002303	32	7.58	0	0
plinth beam	0.9DL-1.5RSx	Combination	Max	X	0.001237	7	1.52	24.69	0
plinth beam	0.9DL-1.5RSx	Combination	Max	Y	0.000269	19	0	10.63	0
plinth beam	0.9DL-1.5RSx	Combination	Min	X	0.001214	5	10.44	24.61	0
plinth beam	0.9DL-1.5RSx	Combination	Min	Y	0.000237	17	0	12.84	0
plinth beam	0.9DL-1.5RSy	Combination	Max	Y	0.002255	28	7.58	7.01	0
plinth beam	0.9DL-1.5RSy	Combination	Min	Y	0.002286	32	7.58	0	0
plinth beam	0.9DL+1.5RSx	Combination	Max	X	0.001237	7	1.52	24.69	0
plinth beam	0.9DL+1.5RSx	Combination	Max	Y	0.000269	19	0	10.63	0
plinth beam	0.9DL+1.5RSx	Combination	Min	X	0.001214	5	10.44	24.61	0
plinth beam	0.9DL+1.5RSx	Combination	Min	Y	0.000237	17	0	12.84	0
plinth beam	0.9DL+1.5RSy	Combination	Max	Y	0.002255	28	7.58	7.01	0
plinth beam	0.9DL+1.5RSy	Combination	Min	Y	0.002286	32	7.58	0	0

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	1.2(DL+LL+RSx)	Combination	Max	X	0.00101	7	1.52	24.69	0
plinth beam	1.2(DL+LL+RSx)	Combination	Max	Y	0.000228	19	0	10.63	0
plinth beam	1.2(DL+LL+RSx)	Combination	Min	X	0.000975	5	10.44	24.61	0
plinth beam	1.2(DL+LL+RSx)	Combination	Min	Y	0.000178	17	0	12.84	0
plinth beam	1.2(DL+LL+RSy)	Combination	Max	Y	0.001821	28	7.58	7.01	0
plinth beam	1.2(DL+LL+RSy)	Combination	Min	Y	0.001849	32	7.58	0	0
plinth beam	1.2(DL+LL-RSx)	Combination	Max	X	0.00101	7	1.52	24.69	0
plinth beam	1.2(DL+LL-RSx)	Combination	Max	Y	0.000228	19	0	10.63	0
plinth beam	1.2(DL+LL-RSx)	Combination	Min	X	0.000975	5	10.44	24.61	0
plinth beam	1.2(DL+LL-RSx)	Combination	Min	Y	0.000178	17	0	12.84	0
plinth beam	1.2(DL+LL-RSy)	Combination	Max	Y	0.001821	28	7.58	7.01	0
plinth beam	1.2(DL+LL-RSy)	Combination	Min	Y	0.001849	32	7.58	0	0
plinth beam	1.5(DL+RSx)	Combination	Max	X	0.001258	7	1.52	24.69	0
plinth beam	1.5(DL+RSx)	Combination	Max	Y	0.000281	19	0	10.63	0
plinth beam	1.5(DL+RSx)	Combination	Min	X	0.001221	5	10.44	24.61	0
plinth beam	1.5(DL+RSx)	Combination	Min	Y	0.000227	17	0	12.84	0
plinth beam	1.5(DL+RSy)	Combination	Max	Y	0.00227	28	7.58	7.01	0
plinth beam	1.5(DL+RSy)	Combination	Min	Y	0.002303	32	7.58	0	0
plinth beam	1.5(DL-RSx)	Combination	Max	X	0.001258	7	1.52	24.69	0
plinth beam	1.5(DL-RSx)	Combination	Max	Y	0.000281	19	0	10.63	0
plinth beam	1.5(DL-RSx)	Combination	Min	X	0.001221	5	10.44	24.61	0
plinth beam	1.5(DL-RSx)	Combination	Min	Y	0.000227	17	0	12.84	0
plinth beam	1.5(DL-RSy)	Combination	Max	Y	0.00227	28	7.58	7.01	0
plinth beam	1.5(DL-RSy)	Combination	Min	Y	0.002303	32	7.58	0	0

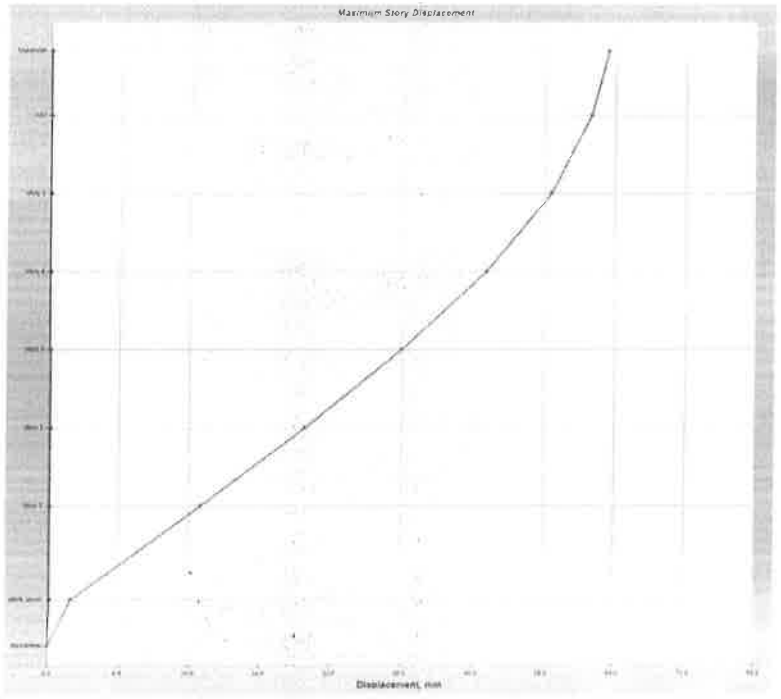
4.2 Modal Results

Table 4.2 - Modal Load Participation Ratios

Case	ItemType	Item	Static %	Dynamic %
Modal	Acceleration	UX	99.99	96.33
Modal	Acceleration	UY	100	96.64
Modal	Acceleration	UZ	0	0



Displacement in X – direction



Displacement in Y – direction

DESIGN OF ISOLATED SQUARE FOOTING: C21

Load in kn (P)	1920	Size of pedestal	380
SBC in kn/m^2	110	Free end thickness	230
Size of the footing required (B)	4.178	Size provided	4.2
Net upward pressure (Po)	108.844	Size in feet	13.776
Maximum bending moment @ face of the column (Mu)	1250.777	eff. Width	857.5
Depth required (d)	839.436	Depth provided (d)	850
K	4.556		
Pt	1.311		
Ast in mm^2	4234.530		
Spacing of 10mm dia	77.900		
Spacing of 12mm dia	112.178		
Spacing of 16mm dia	199.420		

Check for one way shear:

Shear force (V)	543.412
Eff. Depth (d')	574.084
Top width	2080.000
Tv	0.455
Pt	0.467
Ast in mm^2	5572.838
Spacing of 10mm dia	59.192
Spacing of 12mm dia	85.238
Spacing of 16mm dia	151.530

Check for two way shear:

Punching shear (F)	1755.331
Eff. Depth (d')	712.042
Tv	0.752
Tc	0.968

Check for transfer of load @ the column base:

Permissible bearing stress	13.500
Actual bearing stress	13.296

Design of short column with bi axial bending: C21

Description	GF
Axial load in Kn	3060
Moment in Knm (Mux)	80
Moment in Knm (Muy)	183
Assumed length of column in mm (D)	600
Assumed breadth of column in mm (B)	300
Assumed % of steel	4.55
Grade of concrete	25
p/fck	0.182
d'/D	0.0833
d'/B	0.1667
Pu/(fck*B*D)	0.68
Referring to chart in SP-16	chart-48
Value from chart	0.16
Mux1 in Knm	432
Referring to chart in SP-16	chart-50
Value from chart	0.14
Muy1 in Knm	189
Referring to chart-63 of SP-16	
Puz/ Ag	26
Puz in Kn	4680
Pu/Puz	0.6538
Mux/Mux1	0.1852
Muy/Muy1	0.9683
Referring to chart-64 of SP-16	
Permissible Muy/Muy1	0.97
Check	safe and assumed % of steel is correct
Ast required	8190
Provide steel	

Dia of lateral ties:		
Dia of main rod provided	20	
6mm	6mm	
1/4 times Dia of main rod	05mm	
Dia of lateral ties choosen	8mm	
Spacing of lateral ties:		
16 times the dia of main rod		320
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 150 mm

Dead load of slab (0.15 x 25)	=	3.75 kn/m^2
Live load	=	2.00 kn/m^2
Partition wall load	=	1.00 kn/m^2
Floor finish load	=	1.00 kn/m^2
		7.75 kn/m^2

Say w = 8.0 kn/m^2

Long span L_y = 8.61 m

Short span L_x = 4.12 m

L_y / L_x = 2.09>2.0

To design as one-way slab & slab thickness as 140mm

Positive moment @ mid span = $1.5x8x4.12^2/8$

= 25.46 knm

Referring to the table – 39 of SP – 16 and assuming the slab thickness as 140mm

Provide 10mm dia @ 110mm c/c along shorter span and 8mm dia @ 140mm c/c along the longer span with alternate rods cranked @ 0.2 times of respective span

Check for deflection:

Permissible span / depth = 23 x 1.3 (referring to chart 22)

= 29.90

Assume beam size as 230mm x 600mm

Max factored B.M @top of support = 466knm

K = 6.69, Pt= 1.761 , Pc = 0.861

A_{st} = 2228mm^2 , A_{sc} = 1090mm^2

Therefore provide 2-20+3-25+1-16mm dia @ top of support

Max factored moment @ bottom = 232knm

K = 2.10, Pt = 0.945

A_{st} = 1196mm^2

Therefore provide 3-20+2-12mm dia @ bottom

Factored shear force @ support = 293kn

V_{us} = 293000– (0.77 x 230 x 550)

V_{us}/d = 3.56kn/cm

Referring to Table – 62 of SP-16, provide 8mm dia stirrups @ 100mm c/c

end of report

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

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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.