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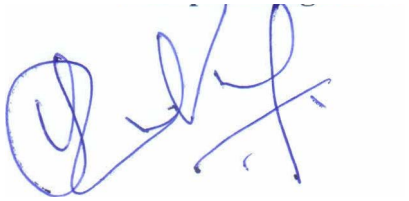
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DIGITALLY VERIFIED RECORD

Proposed construction of RCC Terraced Roof Stilt+4 Floors Residential Apartment Building viz., Magilam Residency at Old S.No. 110/2A, Ward No.13, New S.No. 110/2A1A1A1C, Ward No.14, Karuppur East Kattuvattam, Karuppur Village and Town Panchayat, Omalur Taluk, Salem District.

Design Brief Report



Er.N.SENTHIL KUMARAN,M.E.(Struct),
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STRUCTRUAL CONSULTANT:

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1.0.Description of the Project:

Proposed construction of RCC Terraced Roof Stilt+4 Floors Residential Apartment Building viz., Magilam Residency at Old S.No. 110/2A, Ward No.13, New S.No. 110/2A1A1A1C, Ward No.14, Karuppur East Kattuvattam, Karuppur Village and Town Panchayat, Omalur Taluk, Salem District.

Type of building : Residential building
Designed for : Stilt + 4 upper floors + Terrace (Including Headroom, Lift machine room and water tank)

2.0.Objective:

The objective of presenting this design basis report is to share the information related to design assumptions, design loads, design methodology & philosophy with the project team and Client.

This report covers the minimum design requirement to establish the unified design basis that will form the overall design philosophy to be adopted in the structural design.

The design basis will aim to achieve:

• Structural & functional integrity.

• Desirable Structural performance under characteristic service design loadings.

• Ability to sustain design basis loads due to natural phenomena such as wind, earthquakes, seasonal variation in ground water table and thermal effects.

• Structural durability & maintainability.

3.0.Materials:

A)Concrete:

Grade of concrete for RCC work will be as follows: -

1. Foundation – M25
2. Columns, Lift walls –M25
3. Floor slabs & beams –M25



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B)Steel:

Reinforcing Steel Bars shall be CRS (Corrosion resistant steel) Uncoated High Yield

deformed bars Fe 500D of Minimum Characteristic Yield strength of 500 N/mm2 having elongation of 16%. Deformed bars confirming to IS 1786:2008.

4.0.Load Definitions:

A)Dead load:

The Unit weights of materials and components used in buildings are taken as per the IS 875 PART 1 - 1987 defined.

- Floor finish of 50mm thick for Residential floors : 120kg/sq.m (1.2kN/sq.m).
- Floor finish of 75mm thick for Parking Areas : 180kg/sq.m (1.8kN/sq.m).
- False ceiling + ducting + Sprinklers(services) : 40 kg/sq.m (0.4 kN/sq.m).
- Partitions : 100kg/sq.m (1.0kN/sq.m).
- Wall loads : As per actuals.
- Self weight of Plain concrete : 2400 kg/cu.m (24 kN/cu.m).
- Self weight of RCC : 2500 kg/cu.m (25 kN/cu.m).
- Solid block masonry : 2000 kg/cu.m (20 kN/cu.m)
- Brick Wall : 1900 kg/cu.m (19 kN/cu.m).
- Aerated block masonry : 865 kg/cu.m (8.65 kN/cu.m).
- Soil (Dry) : 1800 kg/cu.m (18 kN/cu.m).
- Soil (Saturated) : 2000 kg/cu.m (20 kN/cu.m).
- Water : 1000 kg/cu.m (10 kN/cu.m).
- Stainless steel : 8000 kg/cu.m (80 kN/cu.m).
- Masonry with plastering : 2200 kg/cu.m (22 kN/cu.m).
- Filling for sunken portion(Wherever filling is reqd). : 1000 kg/cu.m (10 kN/cu.m)
- Waterproofing (membrane). : 15kg/sq.m (0.15kN/sq.m).
- External finishes : As per actuals.
- Gardening/Landscape loads : As per actuals
- Equipment loads : As per Vendor details.

B)Live Load:

The superimposed loads shall be calculated in accordance with IS: 875(Part-2) based on Occupancy Classification. For multiple occupancies of use in the building shall be referred with the other appropriate comparable occupancy classification as per Table.1 of IS 875(Part-2)-1987.

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Following live loads are considered while designing the structural elements apart from the dead loads as per codes.

Living /Dining hall/ kitchens/Bed rooms	: 200 kg/sq.m (2.0 kN/sq.m)
Toilet and bathrooms	: 200 kg/sq.m (2.0 kN/sq.m)
Stairs	: 300 kg/sq.m (3.0 kN/sq.m)
Corridors / Balcony /utility	: 300 kg/sq.m (3.0 kN/sq.m)
Lift Machine room	: 1000 kg/ sq.m or as per actuals.
Balconies	: 300 kg/ sq.m or as per actuals.
Parking Area	: 250 kg/ sq.m (2.5 kN/sq.m) + 25% Impact
Fire tender Loading	: 1500 kg/sq.m (15.0 kN/sq.m).
Ramps	: 300 kg/sq.m (3 kN/sq.m)+ 25% Impact (Without fire truck movement

C)Wind Load:

The Wind pressure shall be calculated in accordance with IS: 875 (Part-3) 2015.
Basic wind speed for Salem is considered as 47m/s.
Basic Wind Speed Vb :47 m/s
Terrain Category 2
Risk Coefficient k1 :1.00(k1corresponds to 50 years Mean Probable Design Life of Structure)
Factor k2: Variation of wind speed with heights in different terrains as per Table-02.
Topography factor k3:1.00
Importance factor Cyclone region k4:1.00
Design wind speed Vz:$Vb \times k1 \times k2 \times k3X\ k4$
Design wind pressure pz:$0.6 \times Vz^2$

D)Seismic Load:

SALEM falls under seismic zone III as per IS1893-2016 (Part1) and has the following factors to be considered
for designs. Ductile detailing is required. (Please refer attached map)
Seismic Zone II
Seismic Zone Factor, Z :0.10 (As per Table 3-IS: 1893- 2016)
Design horizontal seismic coefficient(Ah) :(Z/2)*(Sa/g)*(I/R)

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I-Importance factor :1(RefTable8-IS:1893-2016)
Response reduction Factor :5(Building with ordinary RC structural columns)
Soil type :II(Weighted average of N value of all soil layers along
the depth is considered)
Damping Ratio for RCC : 5%

5.0.Durability Criteria:

Environmental Exposure condition from durability criteria will be considered as 'Moderate' (As per IS 456: 2000).

Cover to reinforcement

STRUCTURAL ELEMENT	COVER
For Grade beam/plinth beam	25 mm
For Footing Bottom	50 mm
For Columns	40 mm
For Footing side	75 mm
For all roof Beams	25 mm
For Roof Slabs	20 mm



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Cement

Ordinary Portland Cement of grade 43 or higher confirming to IS 8112 and IS 12269 is specified for concrete.

Aggregates:

The sizes of coarse aggregates confirm to IS 383.Nominal maximum size of coarse aggregate be 20 mm, suitably graded as per the requirement of mix design. The fine aggregates confirm to the specifications of IS 383.

Water:

Water used for construction shall comply with IS 456:2000, clause 5.4. Portable water is to be considered satisfactory for mixing concrete.

Water proofing:

Approved water proofing shall be used for basement construction, toilets and roof terraces etc. Basement slab and wall shall be provided with Penetron or its equivalent as additive to

the concrete where as the Toilet shall be provided with crystalline water proofing. The terrace will be provided with Liquid membrane water proofing with brick bat coba as over deck insulation.



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6.0.Code References:

The relevant Indian Standard codes below are followed.

CODE	DESCRIPTION
IS 875(Part 1) 1987	Code of practice for Design Loads (other than earthquake) for buildings and structures – Unit weights of buildings materials and stored material
IS 875 (Part 2) 1987	Code of practice for Design Loads (other than earthquake) for buildings and structures – Imposed Loads
IS 2911 – 1979 – Part-I	Design and Construction of Pile Foundations.
IS 456 – 2000	Code of Practice for Plain and Reinforced Concrete
SP 16	Design aids for Reinforced Concrete structures
SP 34	Concrete Reinforced & Detailing
IS 1786 – 1985	Specification for High Strength Deformed bars and Wires for concrete reinforcement
IS 2062 – 1999	Steel for General Structural Purposes – Specification
IS 800 – 2007	Code of practice for General Construction in Steel
IS 2062 - 1999	Steel for General Structural purposes

Design Methodology:

The structural analysis of the entire structure shall be performed as per the governing guidelines of the relevant latest Indian Standards using a 3D structural analysis and design software Staadpro.

The structure shall be analyzed and designed for applicable Dead, Live, Wind & Seismic Loads along with appropriate load combinations as mentioned in 4.0 above and the performance of the structure in serviceability and collapse shall be verified accordingly.

The structure shall be designed according to the Limit State Method as specified in IS:456-2000. Appropriate loads and its combinations, as per relevant clauses in Codes IS456:2000, IS875(Part-5)1987 & IS1893part-1 2016, for the most unfavorable effects are chosen for design.

The footings are designed to resist the bending moments and shear forces developed due to soil reaction as specified in Indian standard code IS:456-2000.

Columns and Beams shall be designed using Staadpro software and in house spreadsheets and manual calculations where necessary.



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Section Properties

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
1	Rect 0.46x0.30	1.38E+3	104E+3	243E+3	246E+3	CONCRETE
2	Rect 0.46x0.23	1.06E+3	46.6E+3	187E+3	128E+3	CONCRETE
3	Rect 0.46x0.30	1.38E+3	104E+3	243E+3	246E+3	CONCRETE
4	Rect 0.45x0.23	1.04E+3	45.6E+3	175E+3	124E+3	CONCRETE
5	Rect 0.46x0.23	1.06E+3	46.6E+3	187E+3	128E+3	CONCRETE

Materials

Mat	Name	E (kN/mm^2)	ν	Density (kg/m^3)	α (/°C)
1	STEEL	205.000	0.300	7.83E+3	12E -6
2	CONCRETE	21.718	0.170	2.4E+3	10E -6
3	ALUMINUM	68.948	0.330	2.71E+3	23E -6
4	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
5	STEEL_36_KSI	199.948	0.300	7.83E+3	11.7E -6
6	STEEL_50_KSI	199.948	0.300	7.83E+3	11.7E -6
7	STEEL_275_NMM2	205.000	0.300	7.85E+3	12E -6
8	STEEL_355_NMM2	205.000	0.300	7.85E+3	12E -6
9	Q235	206.000	0.300	7.85E+3	12E -6
10	Q345	206.000	0.300	7.85E+3	12E -6
11	Q355	206.000	0.300	7.85E+3	12E -6
12	Q390	206.000	0.300	7.85E+3	12E -6
13	Q420	206.000	0.300	7.85E+3	12E -6
14	Q460	206.000	0.300	7.85E+3	12E -6
15	TIMBER	10.342	0.150	400.462	3E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN-m/deg)	rY (kN-m/deg)	rZ (kN-m/deg)
57	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
58	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
59	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
60	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
61	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
62	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
63	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
64	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
65	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
66	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
67	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
68	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
69	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
70	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
71	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
72	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
73	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
74	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
75	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
77	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
78	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
80	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
81	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
82	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
83	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
84	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
85	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed



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Supports Cont...

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN-m/deg)	rY (kN-m/deg)	rZ (kN-m/deg)
86	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
87	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
88	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
89	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
90	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
91	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
92	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
93	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
94	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
95	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
96	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
97	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
98	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
99	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
100	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
101	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
102	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
103	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
104	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
751	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
752	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

Releases

Beam ends not shown in this table are fixed in all directions.

Beam	Node	x	y	z	rx	ry	rz
91	53	Fixed	Fixed	Fixed	Fixed	Pin	Pin
91	54	Fixed	Fixed	Fixed	Fixed	Pin	Pin
94	55	Fixed	Fixed	Fixed	Fixed	Pin	Pin
94	56	Fixed	Fixed	Fixed	Fixed	Pin	Pin
478	359	Fixed	Fixed	Fixed	Fixed	Pin	Pin
478	360	Fixed	Fixed	Fixed	Fixed	Pin	Pin
481	361	Fixed	Fixed	Fixed	Fixed	Pin	Pin
481	362	Fixed	Fixed	Fixed	Fixed	Pin	Pin
484	363	Fixed	Fixed	Fixed	Fixed	Pin	Pin
486	364	Fixed	Fixed	Fixed	Fixed	Pin	Pin
487	365	Fixed	Fixed	Fixed	Fixed	Pin	Pin
490	367	Fixed	Fixed	Fixed	Fixed	Pin	Pin
492	368	Fixed	Fixed	Fixed	Fixed	Pin	Pin
493	369	Fixed	Fixed	Fixed	Fixed	Pin	Pin
496	371	Fixed	Fixed	Fixed	Fixed	Pin	Pin
496	372	Fixed	Fixed	Fixed	Fixed	Pin	Pin
505	377	Fixed	Fixed	Fixed	Fixed	Pin	Pin
505	378	Fixed	Fixed	Fixed	Fixed	Pin	Pin
511	381	Fixed	Fixed	Fixed	Fixed	Pin	Pin
517	385	Fixed	Fixed	Fixed	Fixed	Pin	Pin
517	386	Fixed	Fixed	Fixed	Fixed	Pin	Pin
523	391	Fixed	Fixed	Fixed	Fixed	Pin	Pin
529	394	Fixed	Fixed	Fixed	Fixed	Pin	Pin
529	388	Fixed	Fixed	Fixed	Fixed	Pin	Pin
531	395	Fixed	Fixed	Fixed	Fixed	Pin	Pin
533	396	Fixed	Fixed	Fixed	Fixed	Pin	Pin
535	397	Fixed	Fixed	Fixed	Fixed	Pin	Pin
537	399	Fixed	Fixed	Fixed	Fixed	Pin	Pin
539	400	Fixed	Fixed	Fixed	Fixed	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
543	403	Fixed	Fixed	Fixed	Fixed	Pin	Pin
545	404	Fixed	Fixed	Fixed	Fixed	Pin	Pin
548	405	Fixed	Fixed	Fixed	Fixed	Pin	Pin
548	406	Fixed	Fixed	Fixed	Fixed	Pin	Pin
553	411	Fixed	Fixed	Fixed	Fixed	Pin	Pin
553	412	Fixed	Fixed	Fixed	Fixed	Pin	Pin
559	417	Fixed	Fixed	Fixed	Fixed	Pin	Pin
565	420	Fixed	Fixed	Fixed	Fixed	Pin	Pin
565	414	Fixed	Fixed	Fixed	Fixed	Pin	Pin
571	425	Fixed	Fixed	Fixed	Fixed	Pin	Pin
577	428	Fixed	Fixed	Fixed	Fixed	Pin	Pin
577	422	Fixed	Fixed	Fixed	Fixed	Pin	Pin
579	155	Fixed	Fixed	Fixed	Fixed	Pin	Pin
581	430	Fixed	Fixed	Fixed	Fixed	Pin	Pin
658	433	Fixed	Fixed	Fixed	Fixed	Pin	Pin
658	434	Fixed	Fixed	Fixed	Fixed	Pin	Pin
661	435	Fixed	Fixed	Fixed	Fixed	Pin	Pin
661	436	Fixed	Fixed	Fixed	Fixed	Pin	Pin
664	437	Fixed	Fixed	Fixed	Fixed	Pin	Pin
666	438	Fixed	Fixed	Fixed	Fixed	Pin	Pin
667	439	Fixed	Fixed	Fixed	Fixed	Pin	Pin
670	441	Fixed	Fixed	Fixed	Fixed	Pin	Pin
672	442	Fixed	Fixed	Fixed	Fixed	Pin	Pin
673	443	Fixed	Fixed	Fixed	Fixed	Pin	Pin
676	445	Fixed	Fixed	Fixed	Fixed	Pin	Pin
676	446	Fixed	Fixed	Fixed	Fixed	Pin	Pin
685	451	Fixed	Fixed	Fixed	Fixed	Pin	Pin
685	452	Fixed	Fixed	Fixed	Fixed	Pin	Pin
691	455	Fixed	Fixed	Fixed	Fixed	Pin	Pin
697	459	Fixed	Fixed	Fixed	Fixed	Pin	Pin
697	460	Fixed	Fixed	Fixed	Fixed	Pin	Pin
703	465	Fixed	Fixed	Fixed	Fixed	Pin	Pin
709	468	Fixed	Fixed	Fixed	Fixed	Pin	Pin
709	462	Fixed	Fixed	Fixed	Fixed	Pin	Pin
711	469	Fixed	Fixed	Fixed	Fixed	Pin	Pin
713	470	Fixed	Fixed	Fixed	Fixed	Pin	Pin
715	471	Fixed	Fixed	Fixed	Fixed	Pin	Pin
717	473	Fixed	Fixed	Fixed	Fixed	Pin	Pin
719	474	Fixed	Fixed	Fixed	Fixed	Pin	Pin
721	475	Fixed	Fixed	Fixed	Fixed	Pin	Pin
723	477	Fixed	Fixed	Fixed	Fixed	Pin	Pin
725	478	Fixed	Fixed	Fixed	Fixed	Pin	Pin
728	479	Fixed	Fixed	Fixed	Fixed	Pin	Pin
728	480	Fixed	Fixed	Fixed	Fixed	Pin	Pin
733	485	Fixed	Fixed	Fixed	Fixed	Pin	Pin
733	486	Fixed	Fixed	Fixed	Fixed	Pin	Pin
739	491	Fixed	Fixed	Fixed	Fixed	Pin	Pin
745	494	Fixed	Fixed	Fixed	Fixed	Pin	Pin
745	488	Fixed	Fixed	Fixed	Fixed	Pin	Pin
751	499	Fixed	Fixed	Fixed	Fixed	Pin	Pin
757	502	Fixed	Fixed	Fixed	Fixed	Pin	Pin
757	496	Fixed	Fixed	Fixed	Fixed	Pin	Pin
759	205	Fixed	Fixed	Fixed	Fixed	Pin	Pin
761	504	Fixed	Fixed	Fixed	Fixed	Pin	Pin
838	507	Fixed	Fixed	Fixed	Fixed	Pin	Pin
838	508	Fixed	Fixed	Fixed	Fixed	Pin	Pin
841	509	Fixed	Fixed	Fixed	Fixed	Pin	Pin
841	510	Fixed	Fixed	Fixed	Fixed	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
844	511	Fixed	Fixed	Fixed	Fixed	Pin	Pin
846	512	Fixed	Fixed	Fixed	Fixed	Pin	Pin
847	513	Fixed	Fixed	Fixed	Fixed	Pin	Pin
850	515	Fixed	Fixed	Fixed	Fixed	Pin	Pin
852	516	Fixed	Fixed	Fixed	Fixed	Pin	Pin
853	517	Fixed	Fixed	Fixed	Fixed	Pin	Pin
856	519	Fixed	Fixed	Fixed	Fixed	Pin	Pin
856	520	Fixed	Fixed	Fixed	Fixed	Pin	Pin
865	525	Fixed	Fixed	Fixed	Fixed	Pin	Pin
865	526	Fixed	Fixed	Fixed	Fixed	Pin	Pin
871	529	Fixed	Fixed	Fixed	Fixed	Pin	Pin
877	533	Fixed	Fixed	Fixed	Fixed	Pin	Pin
877	534	Fixed	Fixed	Fixed	Fixed	Pin	Pin
883	539	Fixed	Fixed	Fixed	Fixed	Pin	Pin
889	542	Fixed	Fixed	Fixed	Fixed	Pin	Pin
889	536	Fixed	Fixed	Fixed	Fixed	Pin	Pin
891	543	Fixed	Fixed	Fixed	Fixed	Pin	Pin
893	544	Fixed	Fixed	Fixed	Fixed	Pin	Pin
895	545	Fixed	Fixed	Fixed	Fixed	Pin	Pin
897	547	Fixed	Fixed	Fixed	Fixed	Pin	Pin
899	548	Fixed	Fixed	Fixed	Fixed	Pin	Pin
901	549	Fixed	Fixed	Fixed	Fixed	Pin	Pin
903	551	Fixed	Fixed	Fixed	Fixed	Pin	Pin
905	552	Fixed	Fixed	Fixed	Fixed	Pin	Pin
908	553	Fixed	Fixed	Fixed	Fixed	Pin	Pin
908	554	Fixed	Fixed	Fixed	Fixed	Pin	Pin
913	559	Fixed	Fixed	Fixed	Fixed	Pin	Pin
913	560	Fixed	Fixed	Fixed	Fixed	Pin	Pin
919	565	Fixed	Fixed	Fixed	Fixed	Pin	Pin
925	568	Fixed	Fixed	Fixed	Fixed	Pin	Pin
925	562	Fixed	Fixed	Fixed	Fixed	Pin	Pin
931	573	Fixed	Fixed	Fixed	Fixed	Pin	Pin
937	576	Fixed	Fixed	Fixed	Fixed	Pin	Pin
937	570	Fixed	Fixed	Fixed	Fixed	Pin	Pin
939	255	Fixed	Fixed	Fixed	Fixed	Pin	Pin
941	578	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1018	581	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1018	582	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1021	583	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1021	584	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1024	585	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1026	586	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1027	587	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1030	589	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1032	590	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1033	591	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1036	593	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1036	594	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1045	599	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1045	600	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1051	603	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1057	607	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1057	608	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1063	613	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1069	616	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1069	610	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1071	617	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1073	618	Fixed	Fixed	Fixed	Fixed	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
1075	619	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1077	621	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1079	622	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1081	623	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1083	625	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1085	626	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1088	627	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1088	628	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1093	633	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1093	634	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1099	639	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1105	642	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1105	636	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1111	647	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1117	650	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1117	644	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1119	305	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1121	652	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1198	655	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1198	656	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1201	657	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1201	658	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1204	659	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1206	660	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1207	661	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1210	663	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1212	664	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1213	665	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1216	667	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1216	668	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1225	673	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1225	674	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1231	677	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1237	681	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1237	682	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1243	687	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1249	690	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1249	684	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1251	691	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1253	692	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1255	693	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1257	695	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1259	696	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1261	697	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1263	699	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1265	700	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1268	701	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1268	702	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1273	707	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1273	708	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1279	713	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1285	716	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1285	710	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1291	721	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1297	724	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1297	718	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1299	355	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1301	726	Fixed	Fixed	Fixed	Fixed	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
1333	735	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1333	736	Fixed	Fixed	Fixed	Fixed	Pin	Pin
1410	196	Fixed	Fixed	Fixed	Fixed	Pin	Pin

1 SEISMIC X : Seismic Loading

Code	Direction	Factor
	X	1.000

2 SEISMIC Z : Seismic Loading

Code	Direction	Factor
	Z	1.000

3 DEAD LOAD : Node Loads

Node	FX (kN)	FY (kN)	FZ (kN)	MX (kN-m)	MY (kN-m)	MZ (kN-m)
308	-	-50.000	-	-	-	-
309	-	-50.000	-	-	-	-
311	-	-50.000	-	-	-	-
312	-	-50.000	-	-	-	-
314	-	-50.000	-	-	-	-
315	-	-50.000	-	-	-	-
317	-	-50.000	-	-	-	-
318	-	-50.000	-	-	-	-
326	-	-50.000	-	-	-	-
329	-	-50.000	-	-	-	-
332	-	-50.000	-	-	-	-
333	-	-50.000	-	-	-	-
335	-	-50.000	-	-	-	-
336	-	-50.000	-	-	-	-
338	-	-50.000	-	-	-	-
339	-	-50.000	-	-	-	-
341	-	-50.000	-	-	-	-
342	-	-50.000	-	-	-	-



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3 DEAD LOAD : Beam Loads

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1	UNI	kN/m	GY	-4.600	-	-	-	-
2	UNI	kN/m	GY	-4.600	-	-	-	-
4	UNI	kN/m	GY	-4.600	-	-	-	-
5	UNI	kN/m	GY	-4.600	-	-	-	-
6	UNI	kN/m	GY	-4.600	-	-	-	-
7	UNI	kN/m	GY	-4.600	-	-	-	-
8	UNI	kN/m	GY	-4.600	-	-	-	-
9	UNI	kN/m	GY	-4.600	-	-	-	-
10	UNI	kN/m	GY	-4.600	-	-	-	-
11	UNI	kN/m	GY	-4.600	-	-	-	-
12	UNI	kN/m	GY	-4.600	-	-	-	-
13	UNI	kN/m	GY	-4.600	-	-	-	-
14	UNI	kN/m	GY	-4.600	-	-	-	-
15	UNI	kN/m	GY	-4.600	-	-	-	-
16	UNI	kN/m	GY	-4.600	-	-	-	-
17	UNI	kN/m	GY	-4.600	-	-	-	-
18	UNI	kN/m	GY	-4.600	-	-	-	-
19	UNI	kN/m	GY	-4.600	-	-	-	-
20	UNI	kN/m	GY	-4.600	-	-	-	-
21	UNI	kN/m	GY	-4.600	-	-	-	-
22	UNI	kN/m	GY	-4.600	-	-	-	-
23	UNI	kN/m	GY	-4.600	-	-	-	-
24	UNI	kN/m	GY	-4.600	-	-	-	-
25	UNI	kN/m	GY	-4.600	-	-	-	-
26	UNI	kN/m	GY	-4.600	-	-	-	-
27	UNI	kN/m	GY	-4.600	-	-	-	-
28	UNI	kN/m	GY	-4.600	-	-	-	-
29	UNI	kN/m	GY	-4.600	-	-	-	-
30	UNI	kN/m	GY	-4.600	-	-	-	-
31	UNI	kN/m	GY	-4.600	-	-	-	-
32	UNI	kN/m	GY	-4.600	-	-	-	-
33	UNI	kN/m	GY	-4.600	-	-	-	-
34	UNI	kN/m	GY	-4.600	-	-	-	-
35	UNI	kN/m	GY	-4.600	-	-	-	-
36	UNI	kN/m	GY	-4.600	-	-	-	-
37	UNI	kN/m	GY	-4.600	-	-	-	-
38	UNI	kN/m	GY	-4.600	-	-	-	-
41	UNI	kN/m	GY	-4.600	-	-	-	-
42	UNI	kN/m	GY	-4.600	-	-	-	-
45	UNI	kN/m	GY	-4.600	-	-	-	-
46	UNI	kN/m	GY	-4.600	-	-	-	-
47	UNI	kN/m	GY	-4.600	-	-	-	-
48	UNI	kN/m	GY	-4.600	-	-	-	-
49	UNI	kN/m	GY	-4.600	-	-	-	-
50	UNI	kN/m	GY	-4.600	-	-	-	-
51	UNI	kN/m	GY	-4.600	-	-	-	-
52	UNI	kN/m	GY	-4.600	-	-	-	-
53	UNI	kN/m	GY	-4.600	-	-	-	-
54	UNI	kN/m	GY	-4.600	-	-	-	-
55	UNI	kN/m	GY	-4.600	-	-	-	-
56	UNI	kN/m	GY	-4.600	-	-	-	-
57	UNI	kN/m	GY	-4.600	-	-	-	-
58	UNI	kN/m	GY	-4.600	-	-	-	-
59	UNI	kN/m	GY	-4.600	-	-	-	-
60	UNI	kN/m	GY	-4.600	-	-	-	-
61	UNI	kN/m	GY	-4.600	-	-	-	-
62	UNI	kN/m	GY	-4.600	-	-	-	-
63	UNI	kN/m	GY	-4.600	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
64	UNI	kN/m	GY	-4.600	-	-	-	-
65	UNI	kN/m	GY	-4.600	-	-	-	-
66	UNI	kN/m	GY	-4.600	-	-	-	-
67	UNI	kN/m	GY	-4.600	-	-	-	-
68	UNI	kN/m	GY	-4.600	-	-	-	-
70	UNI	kN/m	GY	-4.600	-	-	-	-
71	UNI	kN/m	GY	-4.600	-	-	-	-
72	UNI	kN/m	GY	-4.600	-	-	-	-
73	UNI	kN/m	GY	-4.600	-	-	-	-
76	UNI	kN/m	GY	-4.600	-	-	-	-
77	UNI	kN/m	GY	-4.600	-	-	-	-
78	UNI	kN/m	GY	-4.600	-	-	-	-
79	UNI	kN/m	GY	-4.600	-	-	-	-
81	UNI	kN/m	GY	-4.600	-	-	-	-
82	UNI	kN/m	GY	-4.600	-	-	-	-
85	UNI	kN/m	GY	-4.600	-	-	-	-
	UNI	kN/m	GY	-18.000	-	-	-	-
86	UNI	kN/m	GY	-4.600	-	-	-	-
87	UNI	kN/m	GY	-4.600	-	-	-	-
89	UNI	kN/m	GY	-4.600	-	-	-	-
90	UNI	kN/m	GY	-4.600	-	-	-	-
91	UNI	kN/m	GY	-4.600	-	-	-	-
92	UNI	kN/m	GY	-4.600	-	-	-	-
93	UNI	kN/m	GY	-4.600	-	-	-	-
94	UNI	kN/m	GY	-4.600	-	-	-	-
395	UNI	kN/m	GY	-14.000	-	-	-	-
396	UNI	kN/m	GY	-14.000	-	-	-	-
397	UNI	kN/m	GY	-14.000	-	-	-	-
398	UNI	kN/m	GY	-14.000	-	-	-	-
399	UNI	kN/m	GY	-14.000	-	-	-	-
400	UNI	kN/m	GY	-14.000	-	-	-	-
401	UNI	kN/m	GY	-14.000	-	-	-	-
402	UNI	kN/m	GY	-14.000	-	-	-	-
403	UNI	kN/m	GY	-14.000	-	-	-	-
404	UNI	kN/m	GY	-14.000	-	-	-	-
405	UNI	kN/m	GY	-14.000	-	-	-	-
406	UNI	kN/m	GY	-14.000	-	-	-	-
408	UNI	kN/m	GY	-14.000	-	-	-	-
409	UNI	kN/m	GY	-14.000	-	-	-	-
412	UNI	kN/m	GY	-14.000	-	-	-	-
413	UNI	kN/m	GY	-14.000	-	-	-	-
416	UNI	kN/m	GY	-14.000	-	-	-	-
419	UNI	kN/m	GY	-14.000	-	-	-	-
421	UNI	kN/m	GY	-14.000	-	-	-	-
422	UNI	kN/m	GY	-14.000	-	-	-	-
423	UNI	kN/m	GY	-14.000	-	-	-	-
424	UNI	kN/m	GY	-14.000	-	-	-	-
425	UNI	kN/m	GY	-14.000	-	-	-	-
426	UNI	kN/m	GY	-14.000	-	-	-	-
427	UNI	kN/m	GY	-14.000	-	-	-	-
430	UNI	kN/m	GY	-14.000	-	-	-	-
432	UNI	kN/m	GY	-14.000	-	-	-	-
433	UNI	kN/m	GY	-14.000	-	-	-	-
434	UNI	kN/m	GY	-14.000	-	-	-	-
435	UNI	kN/m	GY	-14.000	-	-	-	-
437	UNI	kN/m	GY	-14.000	-	-	-	-
438	UNI	kN/m	GY	-14.000	-	-	-	-
439	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
440	UNI	kN/m	GY	-14.000	-	-	-	-
441	UNI	kN/m	GY	-14.000	-	-	-	-
442	UNI	kN/m	GY	-14.000	-	-	-	-
443	UNI	kN/m	GY	-14.000	-	-	-	-
444	UNI	kN/m	GY	-14.000	-	-	-	-
445	UNI	kN/m	GY	-14.000	-	-	-	-
446	UNI	kN/m	GY	-14.000	-	-	-	-
448	UNI	kN/m	GY	-14.000	-	-	-	-
449	UNI	kN/m	GY	-14.000	-	-	-	-
452	UNI	kN/m	GY	-14.000	-	-	-	-
453	UNI	kN/m	GY	-14.000	-	-	-	-
456	UNI	kN/m	GY	-14.000	-	-	-	-
458	UNI	kN/m	GY	-14.000	-	-	-	-
460	UNI	kN/m	GY	-14.000	-	-	-	-
461	UNI	kN/m	GY	-14.000	-	-	-	-
464	UNI	kN/m	GY	-14.000	-	-	-	-
465	UNI	kN/m	GY	-14.000	-	-	-	-
466	UNI	kN/m	GY	-14.000	-	-	-	-
468	UNI	kN/m	GY	-14.000	-	-	-	-
474	UNI	kN/m	GY	-14.000	-	-	-	-
475	UNI	kN/m	GY	-14.000	-	-	-	-
	UNI	kN/m	GY	-36.000	-	-	-	-
476	UNI	kN/m	GY	-14.000	-	-	-	-
477	UNI	kN/m	GY	-14.000	-	-	-	-
478	UNI	kN/m	GY	-14.000	-	-	-	-
479	UNI	kN/m	GY	-14.000	-	-	-	-
480	UNI	kN/m	GY	-14.000	-	-	-	-
481	UNI	kN/m	GY	-14.000	-	-	-	-
482	UNI	kN/m	GY	-14.000	-	-	-	-
483	UNI	kN/m	GY	-14.000	-	-	-	-
484	UNI	kN/m	GY	-14.000	-	-	-	-
485	UNI	kN/m	GY	-14.000	-	-	-	-
486	UNI	kN/m	GY	-14.000	-	-	-	-
487	UNI	kN/m	GY	-14.000	-	-	-	-
488	UNI	kN/m	GY	-14.000	-	-	-	-
489	UNI	kN/m	GY	-14.000	-	-	-	-
490	UNI	kN/m	GY	-14.000	-	-	-	-
491	UNI	kN/m	GY	-14.000	-	-	-	-
492	UNI	kN/m	GY	-14.000	-	-	-	-
493	UNI	kN/m	GY	-14.000	-	-	-	-
494	UNI	kN/m	GY	-14.000	-	-	-	-
495	UNI	kN/m	GY	-14.000	-	-	-	-
496	UNI	kN/m	GY	-14.000	-	-	-	-
503	UNI	kN/m	GY	-14.000	-	-	-	-
504	UNI	kN/m	GY	-14.000	-	-	-	-
505	UNI	kN/m	GY	-14.000	-	-	-	-
506	UNI	kN/m	GY	-14.000	-	-	-	-
507	UNI	kN/m	GY	-14.000	-	-	-	-
509	UNI	kN/m	GY	-14.000	-	-	-	-
510	UNI	kN/m	GY	-14.000	-	-	-	-
511	UNI	kN/m	GY	-14.000	-	-	-	-
515	UNI	kN/m	GY	-14.000	-	-	-	-
516	UNI	kN/m	GY	-14.000	-	-	-	-
517	UNI	kN/m	GY	-14.000	-	-	-	-
518	UNI	kN/m	GY	-14.000	-	-	-	-
520	UNI	kN/m	GY	-14.000	-	-	-	-
521	UNI	kN/m	GY	-14.000	-	-	-	-
522	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
523	UNI	kN/m	GY	-14.000	-	-	-	-
527	UNI	kN/m	GY	-14.000	-	-	-	-
528	UNI	kN/m	GY	-14.000	-	-	-	-
529	UNI	kN/m	GY	-14.000	-	-	-	-
530	UNI	kN/m	GY	-14.000	-	-	-	-
531	UNI	kN/m	GY	-14.000	-	-	-	-
532	UNI	kN/m	GY	-14.000	-	-	-	-
533	UNI	kN/m	GY	-14.000	-	-	-	-
534	UNI	kN/m	GY	-14.000	-	-	-	-
535	UNI	kN/m	GY	-14.000	-	-	-	-
536	UNI	kN/m	GY	-14.000	-	-	-	-
537	UNI	kN/m	GY	-14.000	-	-	-	-
538	UNI	kN/m	GY	-14.000	-	-	-	-
539	UNI	kN/m	GY	-14.000	-	-	-	-
540	UNI	kN/m	GY	-14.000	-	-	-	-
541	UNI	kN/m	GY	-14.000	-	-	-	-
542	UNI	kN/m	GY	-14.000	-	-	-	-
543	UNI	kN/m	GY	-14.000	-	-	-	-
544	UNI	kN/m	GY	-14.000	-	-	-	-
545	UNI	kN/m	GY	-14.000	-	-	-	-
546	UNI	kN/m	GY	-14.000	-	-	-	-
547	UNI	kN/m	GY	-14.000	-	-	-	-
548	UNI	kN/m	GY	-14.000	-	-	-	-
551	UNI	kN/m	GY	-14.000	-	-	-	-
552	UNI	kN/m	GY	-14.000	-	-	-	-
553	UNI	kN/m	GY	-14.000	-	-	-	-
554	UNI	kN/m	GY	-14.000	-	-	-	-
556	UNI	kN/m	GY	-14.000	-	-	-	-
557	UNI	kN/m	GY	-14.000	-	-	-	-
558	UNI	kN/m	GY	-14.000	-	-	-	-
559	UNI	kN/m	GY	-14.000	-	-	-	-
563	UNI	kN/m	GY	-14.000	-	-	-	-
564	UNI	kN/m	GY	-14.000	-	-	-	-
565	UNI	kN/m	GY	-14.000	-	-	-	-
566	UNI	kN/m	GY	-14.000	-	-	-	-
568	UNI	kN/m	GY	-14.000	-	-	-	-
569	UNI	kN/m	GY	-14.000	-	-	-	-
570	UNI	kN/m	GY	-14.000	-	-	-	-
571	UNI	kN/m	GY	-14.000	-	-	-	-
575	UNI	kN/m	GY	-14.000	-	-	-	-
576	UNI	kN/m	GY	-14.000	-	-	-	-
577	UNI	kN/m	GY	-14.000	-	-	-	-
578	UNI	kN/m	GY	-14.000	-	-	-	-
579	UNI	kN/m	GY	-14.000	-	-	-	-
580	UNI	kN/m	GY	-14.000	-	-	-	-
581	UNI	kN/m	GY	-14.000	-	-	-	-
586	UNI	kN/m	GY	-36.000	-	-	-	-
587	UNI	kN/m	GY	-14.000	-	-	-	-
588	UNI	kN/m	GY	-14.000	-	-	-	-
589	UNI	kN/m	GY	-14.000	-	-	-	-
590	UNI	kN/m	GY	-14.000	-	-	-	-
591	UNI	kN/m	GY	-14.000	-	-	-	-
592	UNI	kN/m	GY	-14.000	-	-	-	-
593	UNI	kN/m	GY	-14.000	-	-	-	-
594	UNI	kN/m	GY	-14.000	-	-	-	-
595	UNI	kN/m	GY	-14.000	-	-	-	-
596	UNI	kN/m	GY	-14.000	-	-	-	-
597	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
598	UNI	kN/m	GY	-14.000	-	-	-	-
599	UNI	kN/m	GY	-14.000	-	-	-	-
600	UNI	kN/m	GY	-14.000	-	-	-	-
601	UNI	kN/m	GY	-14.000	-	-	-	-
602	UNI	kN/m	GY	-14.000	-	-	-	-
603	UNI	kN/m	GY	-14.000	-	-	-	-
604	UNI	kN/m	GY	-14.000	-	-	-	-
605	UNI	kN/m	GY	-14.000	-	-	-	-
606	UNI	kN/m	GY	-14.000	-	-	-	-
607	UNI	kN/m	GY	-14.000	-	-	-	-
609	UNI	kN/m	GY	-14.000	-	-	-	-
611	UNI	kN/m	GY	-14.000	-	-	-	-
612	UNI	kN/m	GY	-14.000	-	-	-	-
613	UNI	kN/m	GY	-14.000	-	-	-	-
614	UNI	kN/m	GY	-14.000	-	-	-	-
615	UNI	kN/m	GY	-14.000	-	-	-	-
616	UNI	kN/m	GY	-14.000	-	-	-	-
617	UNI	kN/m	GY	-14.000	-	-	-	-
619	UNI	kN/m	GY	-14.000	-	-	-	-
620	UNI	kN/m	GY	-14.000	-	-	-	-
621	UNI	kN/m	GY	-14.000	-	-	-	-
622	UNI	kN/m	GY	-14.000	-	-	-	-
623	UNI	kN/m	GY	-14.000	-	-	-	-
625	UNI	kN/m	GY	-14.000	-	-	-	-
626	UNI	kN/m	GY	-14.000	-	-	-	-
627	UNI	kN/m	GY	-14.000	-	-	-	-
628	UNI	kN/m	GY	-14.000	-	-	-	-
629	UNI	kN/m	GY	-14.000	-	-	-	-
630	UNI	kN/m	GY	-14.000	-	-	-	-
631	UNI	kN/m	GY	-14.000	-	-	-	-
632	UNI	kN/m	GY	-14.000	-	-	-	-
633	UNI	kN/m	GY	-14.000	-	-	-	-
634	UNI	kN/m	GY	-14.000	-	-	-	-
635	UNI	kN/m	GY	-14.000	-	-	-	-
636	UNI	kN/m	GY	-14.000	-	-	-	-
637	UNI	kN/m	GY	-14.000	-	-	-	-
638	UNI	kN/m	GY	-14.000	-	-	-	-
639	UNI	kN/m	GY	-14.000	-	-	-	-
641	UNI	kN/m	GY	-14.000	-	-	-	-
643	UNI	kN/m	GY	-14.000	-	-	-	-
644	UNI	kN/m	GY	-14.000	-	-	-	-
647	UNI	kN/m	GY	-14.000	-	-	-	-
648	UNI	kN/m	GY	-14.000	-	-	-	-
649	UNI	kN/m	GY	-14.000	-	-	-	-
650	UNI	kN/m	GY	-14.000	-	-	-	-
654	UNI	kN/m	GY	-14.000	-	-	-	-
655	UNI	kN/m	GY	-36.000	-	-	-	-
	UNI	kN/m	GY	-14.000	-	-	-	-
656	UNI	kN/m	GY	-14.000	-	-	-	-
657	UNI	kN/m	GY	-14.000	-	-	-	-
658	UNI	kN/m	GY	-14.000	-	-	-	-
659	UNI	kN/m	GY	-14.000	-	-	-	-
660	UNI	kN/m	GY	-14.000	-	-	-	-
661	UNI	kN/m	GY	-14.000	-	-	-	-
662	UNI	kN/m	GY	-14.000	-	-	-	-
663	UNI	kN/m	GY	-14.000	-	-	-	-
664	UNI	kN/m	GY	-14.000	-	-	-	-
665	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

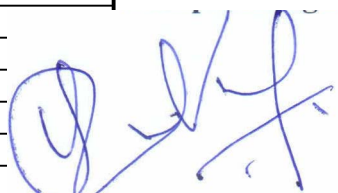
Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
666	UNI kN/m	GY	-14.000	-	-	-	-
667	UNI kN/m	GY	-14.000	-	-	-	-
668	UNI kN/m	GY	-14.000	-	-	-	-
669	UNI kN/m	GY	-14.000	-	-	-	-
670	UNI kN/m	GY	-14.000	-	-	-	-
671	UNI kN/m	GY	-14.000	-	-	-	-
672	UNI kN/m	GY	-14.000	-	-	-	-
673	UNI kN/m	GY	-14.000	-	-	-	-
674	UNI kN/m	GY	-14.000	-	-	-	-
675	UNI kN/m	GY	-14.000	-	-	-	-
676	UNI kN/m	GY	-14.000	-	-	-	-
683	UNI kN/m	GY	-14.000	-	-	-	-
684	UNI kN/m	GY	-14.000	-	-	-	-
685	UNI kN/m	GY	-14.000	-	-	-	-
686	UNI kN/m	GY	-14.000	-	-	-	-
687	UNI kN/m	GY	-14.000	-	-	-	-
689	UNI kN/m	GY	-14.000	-	-	-	-
690	UNI kN/m	GY	-14.000	-	-	-	-
691	UNI kN/m	GY	-14.000	-	-	-	-
695	UNI kN/m	GY	-14.000	-	-	-	-
696	UNI kN/m	GY	-14.000	-	-	-	-
697	UNI kN/m	GY	-14.000	-	-	-	-
698	UNI kN/m	GY	-14.000	-	-	-	-
700	UNI kN/m	GY	-14.000	-	-	-	-
701	UNI kN/m	GY	-14.000	-	-	-	-
702	UNI kN/m	GY	-14.000	-	-	-	-
703	UNI kN/m	GY	-14.000	-	-	-	-
707	UNI kN/m	GY	-14.000	-	-	-	-
708	UNI kN/m	GY	-14.000	-	-	-	-
709	UNI kN/m	GY	-14.000	-	-	-	-
710	UNI kN/m	GY	-14.000	-	-	-	-
711	UNI kN/m	GY	-14.000	-	-	-	-
712	UNI kN/m	GY	-14.000	-	-	-	-
713	UNI kN/m	GY	-14.000	-	-	-	-
714	UNI kN/m	GY	-14.000	-	-	-	-
715	UNI kN/m	GY	-14.000	-	-	-	-
716	UNI kN/m	GY	-14.000	-	-	-	-
717	UNI kN/m	GY	-14.000	-	-	-	-
718	UNI kN/m	GY	-14.000	-	-	-	-
719	UNI kN/m	GY	-14.000	-	-	-	-
720	UNI kN/m	GY	-14.000	-	-	-	-
721	UNI kN/m	GY	-14.000	-	-	-	-
722	UNI kN/m	GY	-14.000	-	-	-	-
723	UNI kN/m	GY	-14.000	-	-	-	-
724	UNI kN/m	GY	-14.000	-	-	-	-
725	UNI kN/m	GY	-14.000	-	-	-	-
726	UNI kN/m	GY	-14.000	-	-	-	-
727	UNI kN/m	GY	-14.000	-	-	-	-
728	UNI kN/m	GY	-14.000	-	-	-	-
731	UNI kN/m	GY	-14.000	-	-	-	-
732	UNI kN/m	GY	-14.000	-	-	-	-
733	UNI kN/m	GY	-14.000	-	-	-	-
734	UNI kN/m	GY	-14.000	-	-	-	-
736	UNI kN/m	GY	-14.000	-	-	-	-
737	UNI kN/m	GY	-14.000	-	-	-	-
738	UNI kN/m	GY	-14.000	-	-	-	-
739	UNI kN/m	GY	-14.000	-	-	-	-
743	UNI kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
744	UNI kN/m	GY	-14.000	-	-	-	-
745	UNI kN/m	GY	-14.000	-	-	-	-
746	UNI kN/m	GY	-14.000	-	-	-	-
748	UNI kN/m	GY	-14.000	-	-	-	-
749	UNI kN/m	GY	-14.000	-	-	-	-
750	UNI kN/m	GY	-14.000	-	-	-	-
751	UNI kN/m	GY	-14.000	-	-	-	-
755	UNI kN/m	GY	-14.000	-	-	-	-
756	UNI kN/m	GY	-14.000	-	-	-	-
757	UNI kN/m	GY	-14.000	-	-	-	-
758	UNI kN/m	GY	-14.000	-	-	-	-
759	UNI kN/m	GY	-14.000	-	-	-	-
760	UNI kN/m	GY	-14.000	-	-	-	-
761	UNI kN/m	GY	-14.000	-	-	-	-
766	UNI kN/m	GY	-36.000	-	-	-	-
767	UNI kN/m	GY	-14.000	-	-	-	-
768	UNI kN/m	GY	-14.000	-	-	-	-
769	UNI kN/m	GY	-14.000	-	-	-	-
770	UNI kN/m	GY	-14.000	-	-	-	-
771	UNI kN/m	GY	-14.000	-	-	-	-
772	UNI kN/m	GY	-14.000	-	-	-	-
773	UNI kN/m	GY	-14.000	-	-	-	-
774	UNI kN/m	GY	-14.000	-	-	-	-
775	UNI kN/m	GY	-14.000	-	-	-	-
776	UNI kN/m	GY	-14.000	-	-	-	-
777	UNI kN/m	GY	-14.000	-	-	-	-
778	UNI kN/m	GY	-14.000	-	-	-	-
779	UNI kN/m	GY	-14.000	-	-	-	-
780	UNI kN/m	GY	-14.000	-	-	-	-
781	UNI kN/m	GY	-14.000	-	-	-	-
782	UNI kN/m	GY	-14.000	-	-	-	-
783	UNI kN/m	GY	-14.000	-	-	-	-
784	UNI kN/m	GY	-14.000	-	-	-	-
785	UNI kN/m	GY	-14.000	-	-	-	-
786	UNI kN/m	GY	-14.000	-	-	-	-
787	UNI kN/m	GY	-14.000	-	-	-	-
789	UNI kN/m	GY	-14.000	-	-	-	-
791	UNI kN/m	GY	-14.000	-	-	-	-
792	UNI kN/m	GY	-14.000	-	-	-	-
793	UNI kN/m	GY	-14.000	-	-	-	-
794	UNI kN/m	GY	-14.000	-	-	-	-
795	UNI kN/m	GY	-14.000	-	-	-	-
796	UNI kN/m	GY	-14.000	-	-	-	-
797	UNI kN/m	GY	-14.000	-	-	-	-
799	UNI kN/m	GY	-14.000	-	-	-	-
800	UNI kN/m	GY	-14.000	-	-	-	-
801	UNI kN/m	GY	-14.000	-	-	-	-
802	UNI kN/m	GY	-14.000	-	-	-	-
803	UNI kN/m	GY	-14.000	-	-	-	-
805	UNI kN/m	GY	-14.000	-	-	-	-
806	UNI kN/m	GY	-14.000	-	-	-	-
807	UNI kN/m	GY	-14.000	-	-	-	-
808	UNI kN/m	GY	-14.000	-	-	-	-
809	UNI kN/m	GY	-14.000	-	-	-	-
810	UNI kN/m	GY	-14.000	-	-	-	-
811	UNI kN/m	GY	-14.000	-	-	-	-
812	UNI kN/m	GY	-14.000	-	-	-	-
813	UNI kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
814	UNI kN/m	GY	-14.000	-	-	-	-
815	UNI kN/m	GY	-14.000	-	-	-	-
816	UNI kN/m	GY	-14.000	-	-	-	-
817	UNI kN/m	GY	-14.000	-	-	-	-
818	UNI kN/m	GY	-14.000	-	-	-	-
819	UNI kN/m	GY	-14.000	-	-	-	-
821	UNI kN/m	GY	-14.000	-	-	-	-
823	UNI kN/m	GY	-14.000	-	-	-	-
824	UNI kN/m	GY	-14.000	-	-	-	-
827	UNI kN/m	GY	-14.000	-	-	-	-
828	UNI kN/m	GY	-14.000	-	-	-	-
829	UNI kN/m	GY	-14.000	-	-	-	-
830	UNI kN/m	GY	-14.000	-	-	-	-
834	UNI kN/m	GY	-14.000	-	-	-	-
835	UNI kN/m	GY	-36.000	-	-	-	-
	UNI kN/m	GY	-14.000	-	-	-	-
836	UNI kN/m	GY	-14.000	-	-	-	-
837	UNI kN/m	GY	-14.000	-	-	-	-
838	UNI kN/m	GY	-14.000	-	-	-	-
839	UNI kN/m	GY	-14.000	-	-	-	-
840	UNI kN/m	GY	-14.000	-	-	-	-
841	UNI kN/m	GY	-14.000	-	-	-	-
842	UNI kN/m	GY	-14.000	-	-	-	-
843	UNI kN/m	GY	-14.000	-	-	-	-
844	UNI kN/m	GY	-14.000	-	-	-	-
845	UNI kN/m	GY	-14.000	-	-	-	-
846	UNI kN/m	GY	-14.000	-	-	-	-
847	UNI kN/m	GY	-14.000	-	-	-	-
848	UNI kN/m	GY	-14.000	-	-	-	-
849	UNI kN/m	GY	-14.000	-	-	-	-
850	UNI kN/m	GY	-14.000	-	-	-	-
851	UNI kN/m	GY	-14.000	-	-	-	-
852	UNI kN/m	GY	-14.000	-	-	-	-
853	UNI kN/m	GY	-14.000	-	-	-	-
854	UNI kN/m	GY	-14.000	-	-	-	-
855	UNI kN/m	GY	-14.000	-	-	-	-
856	UNI kN/m	GY	-14.000	-	-	-	-
863	UNI kN/m	GY	-14.000	-	-	-	-
864	UNI kN/m	GY	-14.000	-	-	-	-
865	UNI kN/m	GY	-14.000	-	-	-	-
866	UNI kN/m	GY	-14.000	-	-	-	-
867	UNI kN/m	GY	-14.000	-	-	-	-
869	UNI kN/m	GY	-14.000	-	-	-	-
870	UNI kN/m	GY	-14.000	-	-	-	-
871	UNI kN/m	GY	-14.000	-	-	-	-
875	UNI kN/m	GY	-14.000	-	-	-	-
876	UNI kN/m	GY	-14.000	-	-	-	-
877	UNI kN/m	GY	-14.000	-	-	-	-
878	UNI kN/m	GY	-14.000	-	-	-	-
880	UNI kN/m	GY	-14.000	-	-	-	-
881	UNI kN/m	GY	-14.000	-	-	-	-
882	UNI kN/m	GY	-14.000	-	-	-	-
883	UNI kN/m	GY	-14.000	-	-	-	-
887	UNI kN/m	GY	-14.000	-	-	-	-
888	UNI kN/m	GY	-14.000	-	-	-	-
889	UNI kN/m	GY	-14.000	-	-	-	-
890	UNI kN/m	GY	-14.000	-	-	-	-
891	UNI kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
892	UNI	kN/m	GY	-14.000	-	-	-	-
893	UNI	kN/m	GY	-14.000	-	-	-	-
894	UNI	kN/m	GY	-14.000	-	-	-	-
895	UNI	kN/m	GY	-14.000	-	-	-	-
896	UNI	kN/m	GY	-14.000	-	-	-	-
897	UNI	kN/m	GY	-14.000	-	-	-	-
898	UNI	kN/m	GY	-14.000	-	-	-	-
899	UNI	kN/m	GY	-14.000	-	-	-	-
900	UNI	kN/m	GY	-14.000	-	-	-	-
901	UNI	kN/m	GY	-14.000	-	-	-	-
902	UNI	kN/m	GY	-14.000	-	-	-	-
903	UNI	kN/m	GY	-14.000	-	-	-	-
904	UNI	kN/m	GY	-14.000	-	-	-	-
905	UNI	kN/m	GY	-14.000	-	-	-	-
906	UNI	kN/m	GY	-14.000	-	-	-	-
907	UNI	kN/m	GY	-14.000	-	-	-	-
908	UNI	kN/m	GY	-14.000	-	-	-	-
911	UNI	kN/m	GY	-14.000	-	-	-	-
912	UNI	kN/m	GY	-14.000	-	-	-	-
913	UNI	kN/m	GY	-14.000	-	-	-	-
914	UNI	kN/m	GY	-14.000	-	-	-	-
916	UNI	kN/m	GY	-14.000	-	-	-	-
917	UNI	kN/m	GY	-14.000	-	-	-	-
918	UNI	kN/m	GY	-14.000	-	-	-	-
919	UNI	kN/m	GY	-14.000	-	-	-	-
923	UNI	kN/m	GY	-14.000	-	-	-	-
924	UNI	kN/m	GY	-14.000	-	-	-	-
925	UNI	kN/m	GY	-14.000	-	-	-	-
926	UNI	kN/m	GY	-14.000	-	-	-	-
928	UNI	kN/m	GY	-14.000	-	-	-	-
929	UNI	kN/m	GY	-14.000	-	-	-	-
930	UNI	kN/m	GY	-14.000	-	-	-	-
931	UNI	kN/m	GY	-14.000	-	-	-	-
935	UNI	kN/m	GY	-14.000	-	-	-	-
936	UNI	kN/m	GY	-14.000	-	-	-	-
937	UNI	kN/m	GY	-14.000	-	-	-	-
938	UNI	kN/m	GY	-14.000	-	-	-	-
939	UNI	kN/m	GY	-14.000	-	-	-	-
940	UNI	kN/m	GY	-14.000	-	-	-	-
941	UNI	kN/m	GY	-14.000	-	-	-	-
946	UNI	kN/m	GY	-36.000	-	-	-	-
947	UNI	kN/m	GY	-14.000	-	-	-	-
948	UNI	kN/m	GY	-14.000	-	-	-	-
949	UNI	kN/m	GY	-14.000	-	-	-	-
950	UNI	kN/m	GY	-14.000	-	-	-	-
951	UNI	kN/m	GY	-14.000	-	-	-	-
952	UNI	kN/m	GY	-14.000	-	-	-	-
953	UNI	kN/m	GY	-14.000	-	-	-	-
954	UNI	kN/m	GY	-14.000	-	-	-	-
955	UNI	kN/m	GY	-14.000	-	-	-	-
956	UNI	kN/m	GY	-14.000	-	-	-	-
957	UNI	kN/m	GY	-14.000	-	-	-	-
958	UNI	kN/m	GY	-14.000	-	-	-	-
959	UNI	kN/m	GY	-14.000	-	-	-	-
960	UNI	kN/m	GY	-14.000	-	-	-	-
961	UNI	kN/m	GY	-14.000	-	-	-	-
962	UNI	kN/m	GY	-14.000	-	-	-	-
963	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type		Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
964	UNI	kN/m	GY	-14.000	-	-	-	-
965	UNI	kN/m	GY	-14.000	-	-	-	-
966	UNI	kN/m	GY	-14.000	-	-	-	-
967	UNI	kN/m	GY	-14.000	-	-	-	-
969	UNI	kN/m	GY	-14.000	-	-	-	-
971	UNI	kN/m	GY	-14.000	-	-	-	-
972	UNI	kN/m	GY	-14.000	-	-	-	-
973	UNI	kN/m	GY	-14.000	-	-	-	-
974	UNI	kN/m	GY	-14.000	-	-	-	-
975	UNI	kN/m	GY	-14.000	-	-	-	-
976	UNI	kN/m	GY	-14.000	-	-	-	-
977	UNI	kN/m	GY	-14.000	-	-	-	-
979	UNI	kN/m	GY	-14.000	-	-	-	-
980	UNI	kN/m	GY	-14.000	-	-	-	-
981	UNI	kN/m	GY	-14.000	-	-	-	-
982	UNI	kN/m	GY	-14.000	-	-	-	-
983	UNI	kN/m	GY	-14.000	-	-	-	-
985	UNI	kN/m	GY	-14.000	-	-	-	-
986	UNI	kN/m	GY	-14.000	-	-	-	-
987	UNI	kN/m	GY	-14.000	-	-	-	-
988	UNI	kN/m	GY	-14.000	-	-	-	-
989	UNI	kN/m	GY	-14.000	-	-	-	-
990	UNI	kN/m	GY	-14.000	-	-	-	-
991	UNI	kN/m	GY	-14.000	-	-	-	-
992	UNI	kN/m	GY	-14.000	-	-	-	-
993	UNI	kN/m	GY	-14.000	-	-	-	-
994	UNI	kN/m	GY	-14.000	-	-	-	-
995	UNI	kN/m	GY	-14.000	-	-	-	-
996	UNI	kN/m	GY	-14.000	-	-	-	-
997	UNI	kN/m	GY	-14.000	-	-	-	-
998	UNI	kN/m	GY	-14.000	-	-	-	-
999	UNI	kN/m	GY	-14.000	-	-	-	-
1001	UNI	kN/m	GY	-14.000	-	-	-	-
1003	UNI	kN/m	GY	-14.000	-	-	-	-
1004	UNI	kN/m	GY	-14.000	-	-	-	-
1007	UNI	kN/m	GY	-14.000	-	-	-	-
1008	UNI	kN/m	GY	-14.000	-	-	-	-
1009	UNI	kN/m	GY	-14.000	-	-	-	-
1010	UNI	kN/m	GY	-14.000	-	-	-	-
1014	UNI	kN/m	GY	-14.000	-	-	-	-
1015	UNI	kN/m	GY	-14.000	-	-	-	-
	UNI	kN/m	GY	-36.000	-	-	-	-
1016	UNI	kN/m	GY	-14.000	-	-	-	-
1017	UNI	kN/m	GY	-14.000	-	-	-	-
1018	UNI	kN/m	GY	-14.000	-	-	-	-
1019	UNI	kN/m	GY	-14.000	-	-	-	-
1020	UNI	kN/m	GY	-14.000	-	-	-	-
1021	UNI	kN/m	GY	-14.000	-	-	-	-
1022	UNI	kN/m	GY	-14.000	-	-	-	-
1023	UNI	kN/m	GY	-14.000	-	-	-	-
1024	UNI	kN/m	GY	-14.000	-	-	-	-
1025	UNI	kN/m	GY	-14.000	-	-	-	-
1026	UNI	kN/m	GY	-14.000	-	-	-	-
1027	UNI	kN/m	GY	-14.000	-	-	-	-
1028	UNI	kN/m	GY	-14.000	-	-	-	-
1029	UNI	kN/m	GY	-14.000	-	-	-	-
1030	UNI	kN/m	GY	-14.000	-	-	-	-
1031	UNI	kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1032	UNI kN/m	GY	-14.000	-	-	-	-
1033	UNI kN/m	GY	-14.000	-	-	-	-
1034	UNI kN/m	GY	-14.000	-	-	-	-
1035	UNI kN/m	GY	-14.000	-	-	-	-
1036	UNI kN/m	GY	-14.000	-	-	-	-
1043	UNI kN/m	GY	-14.000	-	-	-	-
1044	UNI kN/m	GY	-14.000	-	-	-	-
1045	UNI kN/m	GY	-14.000	-	-	-	-
1046	UNI kN/m	GY	-14.000	-	-	-	-
1047	UNI kN/m	GY	-14.000	-	-	-	-
1049	UNI kN/m	GY	-14.000	-	-	-	-
1050	UNI kN/m	GY	-14.000	-	-	-	-
1051	UNI kN/m	GY	-14.000	-	-	-	-
1055	UNI kN/m	GY	-14.000	-	-	-	-
1056	UNI kN/m	GY	-14.000	-	-	-	-
1057	UNI kN/m	GY	-14.000	-	-	-	-
1058	UNI kN/m	GY	-14.000	-	-	-	-
1060	UNI kN/m	GY	-14.000	-	-	-	-
1061	UNI kN/m	GY	-14.000	-	-	-	-
1062	UNI kN/m	GY	-14.000	-	-	-	-
1063	UNI kN/m	GY	-14.000	-	-	-	-
1067	UNI kN/m	GY	-14.000	-	-	-	-
1068	UNI kN/m	GY	-14.000	-	-	-	-
1069	UNI kN/m	GY	-14.000	-	-	-	-
1070	UNI kN/m	GY	-14.000	-	-	-	-
1071	UNI kN/m	GY	-14.000	-	-	-	-
1072	UNI kN/m	GY	-14.000	-	-	-	-
1073	UNI kN/m	GY	-14.000	-	-	-	-
1074	UNI kN/m	GY	-14.000	-	-	-	-
1075	UNI kN/m	GY	-14.000	-	-	-	-
1076	UNI kN/m	GY	-14.000	-	-	-	-
1077	UNI kN/m	GY	-14.000	-	-	-	-
1078	UNI kN/m	GY	-14.000	-	-	-	-
1079	UNI kN/m	GY	-14.000	-	-	-	-
1080	UNI kN/m	GY	-14.000	-	-	-	-
1081	UNI kN/m	GY	-14.000	-	-	-	-
1082	UNI kN/m	GY	-14.000	-	-	-	-
1083	UNI kN/m	GY	-14.000	-	-	-	-
1084	UNI kN/m	GY	-14.000	-	-	-	-
1085	UNI kN/m	GY	-14.000	-	-	-	-
1086	UNI kN/m	GY	-14.000	-	-	-	-
1087	UNI kN/m	GY	-14.000	-	-	-	-
1088	UNI kN/m	GY	-14.000	-	-	-	-
1091	UNI kN/m	GY	-14.000	-	-	-	-
1092	UNI kN/m	GY	-14.000	-	-	-	-
1093	UNI kN/m	GY	-14.000	-	-	-	-
1094	UNI kN/m	GY	-14.000	-	-	-	-
1096	UNI kN/m	GY	-14.000	-	-	-	-
1097	UNI kN/m	GY	-14.000	-	-	-	-
1098	UNI kN/m	GY	-14.000	-	-	-	-
1099	UNI kN/m	GY	-14.000	-	-	-	-
1103	UNI kN/m	GY	-14.000	-	-	-	-
1104	UNI kN/m	GY	-14.000	-	-	-	-
1105	UNI kN/m	GY	-14.000	-	-	-	-
1106	UNI kN/m	GY	-14.000	-	-	-	-
1108	UNI kN/m	GY	-14.000	-	-	-	-
1109	UNI kN/m	GY	-14.000	-	-	-	-
1110	UNI kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1111	UNI kN/m	GY	-14.000	-	-	-	-
1115	UNI kN/m	GY	-14.000	-	-	-	-
1116	UNI kN/m	GY	-14.000	-	-	-	-
1117	UNI kN/m	GY	-14.000	-	-	-	-
1118	UNI kN/m	GY	-14.000	-	-	-	-
1119	UNI kN/m	GY	-14.000	-	-	-	-
1120	UNI kN/m	GY	-14.000	-	-	-	-
1121	UNI kN/m	GY	-14.000	-	-	-	-
1126	UNI kN/m	GY	-36.000	-	-	-	-
1127	UNI kN/m	GY	-14.000	-	-	-	-
1128	UNI kN/m	GY	-14.000	-	-	-	-
1129	UNI kN/m	GY	-14.000	-	-	-	-
1130	UNI kN/m	GY	-14.000	-	-	-	-
1131	UNI kN/m	GY	-4.600	-	-	-	-
1132	UNI kN/m	GY	-4.600	-	-	-	-
1133	UNI kN/m	GY	-4.600	-	-	-	-
1134	UNI kN/m	GY	-4.600	-	-	-	-
1135	UNI kN/m	GY	-4.600	-	-	-	-
1137	UNI kN/m	GY	-4.600	-	-	-	-
1138	UNI kN/m	GY	-4.600	-	-	-	-
1140	UNI kN/m	GY	-4.600	-	-	-	-
1151	UNI kN/m	GY	-4.600	-	-	-	-
1156	UNI kN/m	GY	-4.600	-	-	-	-
1157	UNI kN/m	GY	-4.600	-	-	-	-
1160	UNI kN/m	GY	-4.600	-	-	-	-
1162	UNI kN/m	GY	-4.600	-	-	-	-
1163	UNI kN/m	GY	-4.600	-	-	-	-
1166	UNI kN/m	GY	-4.600	-	-	-	-
1167	UNI kN/m	GY	-4.600	-	-	-	-
1172	UNI kN/m	GY	-4.600	-	-	-	-
1183	UNI kN/m	GY	-4.600	-	-	-	-
1188	UNI kN/m	GY	-4.600	-	-	-	-
1189	UNI kN/m	GY	-4.600	-	-	-	-
1190	UNI kN/m	GY	-4.600	-	-	-	-
1194	UNI kN/m	GY	-14.000	-	-	-	-
1195	UNI kN/m	GY	-36.000	-	-	-	-
	UNI kN/m	GY	-17.000	-	-	-	-
1201	UNI kN/m	GY	-4.600	-	-	-	-
1202	UNI kN/m	GY	-4.600	-	-	-	-
1208	UNI kN/m	GY	-4.600	-	-	-	-
1227	UNI kN/m	GY	-4.600	-	-	-	-
1240	UNI kN/m	GY	-4.600	-	-	-	-
1252	UNI kN/m	GY	-4.600	-	-	-	-
1254	UNI kN/m	GY	-4.600	-	-	-	-
1260	UNI kN/m	GY	-4.600	-	-	-	-
1276	UNI kN/m	GY	-4.600	-	-	-	-
1288	UNI kN/m	GY	-4.600	-	-	-	-
1298	UNI kN/m	GY	-14.000	-	-	-	-
1300	UNI kN/m	GY	-4.600	-	-	-	-
1306	UNI kN/m	GY	-18.000	-	-	-	-
1317	UNI kN/m	GY	-4.600	-	-	-	-
1318	UNI kN/m	GY	-4.600	-	-	-	-
1321	UNI kN/m	GY	-4.600	-	-	-	-
1322	UNI kN/m	GY	-4.600	-	-	-	-
1329	UNI kN/m	GY	-14.000	-	-	-	-
1330	UNI kN/m	GY	-14.000	-	-	-	-
1331	UNI kN/m	GY	-14.000	-	-	-	-
1332	UNI kN/m	GY	-14.000	-	-	-	-



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3 DEAD LOAD : Beam Loads Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1340	UNI kN/m	GY	-4.600	-	-	-	-
1341	UNI kN/m	GY	-4.600	-	-	-	-
1345	UNI kN/m	GY	-14.000	-	-	-	-
1346	UNI kN/m	GY	-4.600	-	-	-	-
1348	UNI kN/m	GY	-14.000	-	-	-	-
1349	UNI kN/m	GY	-4.600	-	-	-	-
1360	UNI kN/m	GY	-4.600	-	-	-	-
1361	UNI kN/m	GY	-4.600	-	-	-	-
1362	UNI kN/m	GY	-4.600	-	-	-	-
1363	UNI kN/m	GY	-4.600	-	-	-	-
1364	UNI kN/m	GY	-4.600	-	-	-	-
1365	UNI kN/m	GY	-4.600	-	-	-	-
1390	UNI kN/m	GY	-14.000	-	-	-	-
1391	UNI kN/m	GY	-14.000	-	-	-	-
1392	UNI kN/m	GY	-14.000	-	-	-	-
1393	UNI kN/m	GY	-14.000	-	-	-	-
1394	UNI kN/m	GY	-14.000	-	-	-	-
1397	UNI kN/m	GY	-14.000	-	-	-	-
1398	UNI kN/m	GY	-14.000	-	-	-	-
1399	UNI kN/m	GY	-14.000	-	-	-	-
1400	UNI kN/m	GY	-14.000	-	-	-	-
1401	UNI kN/m	GY	-14.000	-	-	-	-
1402	UNI kN/m	GY	-14.000	-	-	-	-
1403	UNI kN/m	GY	-14.000	-	-	-	-
1404	UNI kN/m	GY	-14.000	-	-	-	-
1407	UNI kN/m	GY	-14.000	-	-	-	-
1408	UNI kN/m	GY	-14.000	-	-	-	-
1409	UNI kN/m	GY	-14.000	-	-	-	-
1410	UNI kN/m	GY	-14.000	-	-	-	-
1411	UNI kN/m	GY	-14.000	-	-	-	-
1412	UNI kN/m	GY	-14.000	-	-	-	-
1413	UNI kN/m	GY	-14.000	-	-	-	-
1414	UNI kN/m	GY	-14.000	-	-	-	-

3 DEAD LOAD : Floor Loads

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.004	3.000	12.900	0	3.280	0	3.510
-0.010	3.000	12.900	3.280	4.800	0	2.240
-0.004	3.000	12.900	3.280	4.800	2.240	3.510
-0.004	3.000	12.900	4.800	7.620	0	3.510
-0.004	3.000	12.900	1.120	7.620	3.510	8.390
-0.004	3.000	12.900	3.280	4.800	8.390	9.560
-0.010	3.000	12.900	3.280	4.800	9.560	12.020
-0.004	3.000	12.900	3.280	4.800	12.020	14.260
-0.004	3.000	12.900	4.800	7.620	8.390	13.420
-0.004	3.000	12.900	10.595	13.725	0	3.510
-0.010	3.000	12.900	13.725	15.245	0	2.240
-0.004	3.000	12.900	13.725	15.245	2.240	3.510
-0.004	3.000	12.900	15.245	18.140	0	3.510
-0.004	3.000	12.900	10.595	17.095	3.510	8.390
-0.004	3.000	12.900	0	3.280	8.390	13.420
-0.004	3.000	12.900	10.595	13.725	8.390	13.420
-0.004	3.000	12.900	13.725	15.245	8.390	9.560
-0.010	3.000	12.900	13.725	15.245	9.560	12.020
-0.004	3.000	12.900	13.725	15.245	12.020	14.260



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3 DEAD LOAD : Floor Loads Cont...

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.004	3.000	12.900	15.245	18.140	8.390	13.420
-0.004	3.000	12.900	0	3.280	15.250	18.760
-0.010	3.000	12.900	3.280	4.800	15.250	17.490
-0.004	3.000	12.900	3.280	4.800	17.490	18.760
-0.004	3.000	12.900	4.800	7.620	15.250	18.760
-0.004	3.000	12.900	1.120	7.620	18.760	23.640
-0.004	3.000	12.900	0	3.280	23.640	28.670
-0.004	3.000	12.900	3.280	4.800	23.640	24.810
-0.010	3.000	12.900	3.280	4.800	24.810	27.270
-0.004	3.000	12.900	3.280	4.800	27.270	29.510
-0.004	3.000	12.900	4.800	7.620	23.640	28.670
-0.004	3.000	12.900	10.595	13.725	15.250	18.760
-0.010	3.000	12.900	13.725	15.245	15.250	17.490
-0.004	3.000	12.900	13.725	15.245	17.490	18.760
-0.004	3.000	12.900	15.245	18.140	15.250	18.760
-0.004	3.000	12.900	10.595	17.095	18.760	23.640
-0.004	3.000	12.900	10.595	13.725	23.640	28.670
-0.004	3.000	12.900	13.725	15.245	23.640	24.810
-0.010	3.000	12.900	13.725	15.245	24.810	27.270
-0.004	3.000	12.900	13.725	15.245	27.270	29.510
-0.004	3.000	12.900	15.245	18.140	23.640	28.670
-0.004	3.000	12.900	7.620	10.595	13.420	15.250
-0.005	16.200	16.200	0	3.280	0	3.510
-0.005	16.200	16.200	3.280	4.800	0	2.240
-0.005	16.200	16.200	3.280	4.800	2.240	3.510
-0.005	16.200	16.200	4.800	7.620	0	3.510
-0.005	16.200	16.200	1.120	7.620	3.510	8.390
-0.005	16.200	16.200	3.280	4.800	8.390	9.560
-0.005	16.200	16.200	3.280	4.800	9.560	12.020
-0.005	16.200	16.200	3.280	4.800	12.020	14.260
-0.005	16.200	16.200	4.800	7.620	8.390	13.420
-0.005	16.200	16.200	10.595	13.725	0	3.510
-0.005	16.200	16.200	13.725	15.245	0	2.240
-0.005	16.200	16.200	13.725	15.245	2.240	3.510
-0.005	16.200	16.200	15.245	18.140	0	3.510
-0.005	16.200	16.200	10.595	17.095	3.510	8.390
-0.005	16.200	16.200	0	3.280	8.390	13.420
-0.005	16.200	16.200	10.595	13.725	8.390	13.420
-0.005	16.200	16.200	13.725	15.245	8.390	9.560
-0.005	16.200	16.200	13.725	15.245	9.560	12.020
-0.005	16.200	16.200	13.725	15.245	12.020	14.260
-0.005	16.200	16.200	15.245	18.140	8.390	13.420
-0.005	16.200	16.200	0	3.280	15.250	18.760
-0.005	16.200	16.200	3.280	4.800	15.250	17.490
-0.005	16.200	16.200	3.280	4.800	17.490	18.760
-0.005	16.200	16.200	4.800	7.620	15.250	18.760
-0.005	16.200	16.200	1.120	7.620	18.760	23.640
-0.005	16.200	16.200	0	3.280	23.640	28.670
-0.005	16.200	16.200	3.280	4.800	23.640	24.810
-0.005	16.200	16.200	3.280	4.800	24.810	27.270
-0.005	16.200	16.200	3.280	4.800	27.270	29.510
-0.005	16.200	16.200	4.800	7.620	23.640	28.670
-0.005	16.200	16.200	10.595	13.725	15.250	18.760
-0.005	16.200	16.200	13.725	15.245	15.250	17.490
-0.005	16.200	16.200	13.725	15.245	17.490	18.760
-0.005	16.200	16.200	15.245	18.140	15.250	18.760
-0.005	16.200	16.200	10.595	17.095	18.760	23.640
-0.005	16.200	16.200	10.595	13.725	23.640	28.670



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3 DEAD LOAD : Floor Loads Cont...

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.005	16.200	16.200	13.725	15.245	23.640	24.810
-0.005	16.200	16.200	13.725	15.245	24.810	27.270
-0.005	16.200	16.200	13.725	15.245	27.270	29.510
-0.005	16.200	16.200	15.245	18.140	23.640	28.670
-0.004	16.200	16.200	7.620	10.595	13.420	15.250
-0.005	17.400	17.400	10.595	13.725	13.420	15.250
-0.005	19.800	19.800	10.595	13.725	13.420	15.250
-0.005	18.900	18.900	7.620	10.595	23.640	28.670

3 DEAD LOAD : One Way Loads

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.004	3.000	12.900	0.150	1.120	3.510	8.390
-0.004	3.000	12.900	17.095	18.065	3.510	8.390
-0.004	3.000	12.900	0.150	1.120	18.760	23.640
-0.004	3.000	12.900	17.095	18.760	18.760	23.640
-0.004	3.000	12.900	7.620	10.595	2.360	13.420
-0.004	3.000	12.900	7.620	10.595	15.250	23.640
-0.005	16.200	16.200	0.150	1.120	3.510	8.390
-0.005	16.200	16.200	17.095	18.760	3.510	8.390
-0.005	16.200	16.200	0.150	1.120	18.760	23.640
-0.005	16.200	16.200	17.095	18.760	18.760	23.640
-0.004	16.200	16.200	7.620	10.595	2.360	13.420
-0.004	16.200	16.200	7.620	10.595	15.250	23.640

3 DEAD LOAD : Selfweight

Direction	Factor	Assigned Geometry
Y	-1.000	ALL

4 LIVE LOAD : Floor Loads

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.002	3.000	12.900	0	3.280	0	3.510
-0.002	3.000	12.900	3.280	4.800	0	2.240
-0.002	3.000	12.900	3.280	4.800	2.240	3.510
-0.002	3.000	12.900	4.800	7.620	0	3.510
-0.002	3.000	12.900	1.120	7.620	3.510	8.390
-0.002	3.000	12.900	3.280	4.800	8.390	9.560
-0.002	3.000	12.900	3.280	4.800	9.560	12.020
-0.002	3.000	12.900	3.280	4.800	12.020	14.260
-0.002	3.000	12.900	4.800	7.620	8.390	13.420
-0.002	3.000	12.900	10.595	13.725	0	3.510
-0.002	3.000	12.900	13.725	15.245	0	2.240
-0.002	3.000	12.900	13.725	15.245	2.240	3.510
-0.002	3.000	12.900	15.245	18.140	0	3.510
-0.002	3.000	12.900	10.595	17.095	3.510	8.390
-0.002	3.000	12.900	0	3.280	8.390	13.420
-0.002	3.000	12.900	10.595	13.725	8.390	13.420
-0.002	3.000	12.900	13.725	15.245	8.390	9.560
-0.002	3.000	12.900	13.725	15.245	9.560	12.020
-0.002	3.000	12.900	13.725	15.245	12.020	14.260
-0.002	3.000	12.900	15.245	18.140	8.390	13.420



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4 LIVE LOAD : Floor Loads Cont...

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.002	3.000	12.900	0	3.280	15.250	18.760
-0.002	3.000	12.900	3.280	4.800	15.250	17.490
-0.002	3.000	12.900	3.280	4.800	17.490	18.760
-0.002	3.000	12.900	4.800	7.620	15.250	18.760
-0.002	3.000	12.900	1.120	7.620	18.760	23.640
-0.002	3.000	12.900	0	3.280	23.640	28.670
-0.002	3.000	12.900	3.280	4.800	23.640	24.810
-0.002	3.000	12.900	3.280	4.800	24.810	27.270
-0.002	3.000	12.900	3.280	4.800	27.270	29.510
-0.002	3.000	12.900	4.800	7.620	23.640	28.670
-0.002	3.000	12.900	10.595	13.725	15.250	18.760
-0.002	3.000	12.900	13.725	15.245	15.250	17.490
-0.002	3.000	12.900	13.725	15.245	17.490	18.760
-0.002	3.000	12.900	15.245	18.140	15.250	18.760
-0.002	3.000	12.900	10.595	17.095	18.760	23.640
-0.002	3.000	12.900	10.595	13.725	23.640	28.670
-0.002	3.000	12.900	13.725	15.245	23.640	24.810
-0.002	3.000	12.900	13.725	15.245	24.810	27.270
-0.002	3.000	12.900	13.725	15.245	27.270	29.510
-0.002	3.000	12.900	15.245	18.140	23.640	28.670
-0.003	3.000	12.900	7.620	10.595	13.420	15.250
-0.002	16.200	16.200	0	3.280	0	3.510
-0.002	16.200	16.200	3.280	4.800	0	2.240
-0.002	16.200	16.200	3.280	4.800	2.240	3.510
-0.002	16.200	16.200	4.800	7.620	0	3.510
-0.002	16.200	16.200	1.120	7.620	3.510	8.390
-0.002	16.200	16.200	3.280	4.800	8.390	9.560
-0.002	16.200	16.200	3.280	4.800	9.560	12.020
-0.002	16.200	16.200	3.280	4.800	12.020	14.260
-0.002	16.200	16.200	4.800	7.620	8.390	13.420
-0.002	16.200	16.200	10.595	13.725	0	3.510
-0.002	16.200	16.200	13.725	15.245	0	2.240
-0.002	16.200	16.200	13.725	15.245	2.240	3.510
-0.002	16.200	16.200	15.245	18.140	0	3.510
-0.002	16.200	16.200	10.595	17.095	3.510	8.390
-0.002	16.200	16.200	0	3.280	8.390	13.420
-0.002	16.200	16.200	10.595	13.725	8.390	13.420
-0.002	16.200	16.200	13.725	15.245	8.390	9.560
-0.002	16.200	16.200	13.725	15.245	9.560	12.020
-0.002	16.200	16.200	13.725	15.245	12.020	14.260
-0.002	16.200	16.200	15.245	18.140	8.390	13.420
-0.002	16.200	16.200	0	3.280	15.250	18.760
-0.002	16.200	16.200	3.280	4.800	15.250	17.490
-0.002	16.200	16.200	3.280	4.800	17.490	18.760
-0.002	16.200	16.200	4.800	7.620	15.250	18.760
-0.002	16.200	16.200	1.120	7.620	18.760	23.640
-0.002	16.200	16.200	0	3.280	23.640	28.670
-0.002	16.200	16.200	3.280	4.800	23.640	24.810
-0.002	16.200	16.200	3.280	4.800	24.810	27.270
-0.002	16.200	16.200	3.280	4.800	27.270	29.510
-0.002	16.200	16.200	4.800	7.620	23.640	28.670
-0.002	16.200	16.200	10.595	13.725	15.250	18.760
-0.002	16.200	16.200	13.725	15.245	15.250	17.490
-0.002	16.200	16.200	13.725	15.245	17.490	18.760
-0.002	16.200	16.200	15.245	18.140	15.250	18.760
-0.002	16.200	16.200	10.595	17.095	18.760	23.640
-0.002	16.200	16.200	10.595	13.725	23.640	28.670
-0.002	16.200	16.200	13.725	15.245	23.640	24.810



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4 LIVE LOAD : Floor Loads Cont...

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.002	16.200	16.200	13.725	15.245	24.810	27.270
-0.002	16.200	16.200	13.725	15.245	27.270	29.510
-0.002	16.200	16.200	15.245	18.140	23.640	28.670
-0.003	16.200	16.200	7.620	10.595	13.420	15.250
-0.010	17.400	17.400	10.595	13.725	13.420	15.250
-0.002	19.800	19.800	10.595	13.725	13.420	15.250
-0.002	18.900	18.900	7.620	10.595	23.640	28.670

4 LIVE LOAD : One Way Loads

Load (N/mm^2)	Min Ht. (m)	Max Ht. (m)	Min X (m)	Max X (m)	Min Y (m)	Max Y (m)
-0.002	3.000	12.900	0.150	1.120	3.510	8.390
-0.002	3.000	12.900	17.095	18.760	3.510	8.390
-0.002	3.000	12.900	0.150	1.120	18.760	23.640
-0.002	3.000	12.900	17.095	18.760	18.760	23.640
-0.003	3.000	12.900	7.620	10.595	2.360	13.420
-0.003	3.000	12.900	7.620	10.595	15.250	23.640
-0.002	16.200	16.200	0.150	1.120	3.510	8.390
-0.002	16.200	16.200	17.095	18.760	3.510	8.390
-0.002	16.200	16.200	0.150	1.120	18.760	23.640
-0.002	16.200	16.200	17.095	18.760	18.760	23.640
-0.003	16.200	16.200	7.620	10.595	2.360	13.420
-0.003	16.200	16.200	7.620	10.595	15.250	23.640

5 WIND X+ : Wind Loading

Direction	Type	Factor
X	1	1.000

6 WIND X- : Wind Loading

Direction	Type	Factor
X	1	-1.000

7 WIND Z+ : Wind Loading

Direction	Type	Factor
Z	1	1.000

8 WIND Z- : Wind Loading

Direction	Type	Factor
Z	1	-1.000

Reference Load Cases

Number	Name	Type
R1	REF MASS MODEL	Mass



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Primary Load Cases

Number	Name	Type
1	SEISMIC X	Seismic-H
2	SEISMIC Z	Seismic-H
3	DEAD LOAD	Dead
4	LIVE LOAD	Live
5	WIND X+	Wind
6	WIND X-	Wind
7	WIND Z+	Wind
8	WIND Z-	Wind



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Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
9	COMB - 1.5 DEAD + 1.5 LIVE	3	DEAD LOAD	1.50
		4	LIVE LOAD	1.50
10	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 WIND	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		5	WIND X+	1.20
11	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 WIND	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		6	WIND X-	1.20
12	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 WIND	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		7	WIND Z+	1.20
13	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 WIND	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		8	WIND Z-	1.20
14	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 WINI	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		5	WIND X+	-1.20
15	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 WINI	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		6	WIND X-	-1.20
16	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 WINI	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		7	WIND Z+	-1.20
17	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 WINI	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		8	WIND Z-	-1.20
18	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 SEISM	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		1	SEISMIC X	1.20
19	COMB - 1.2 DEAD + 1.2 LIVE + 1.2 SEISM	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		2	SEISMIC Z	1.20
20	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 SEIS	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		1	SEISMIC X	-1.20
21	COMB - 1.2 DEAD + 1.2 LIVE + -1.2 SEIS	3	DEAD LOAD	1.20
		4	LIVE LOAD	1.20
		2	SEISMIC Z	-1.20
22	COMB - 1.5 DEAD + 1.5 WIND (1)	3	DEAD LOAD	1.50
		5	WIND X+	1.50
23	COMB - 1.5 DEAD + 1.5 WIND (2)	3	DEAD LOAD	1.50
		6	WIND X-	1.50
24	COMB - 1.5 DEAD + 1.5 WIND (3)	3	DEAD LOAD	1.50
		7	WIND Z+	1.50

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
25	COMB - 1.5 DEAD + 1.5 WIND (4)	3	DEAD LOAD	1.50
		8	WIND Z-	1.50
26	COMB - 1.5 DEAD + -1.5 WIND (1)	3	DEAD LOAD	1.50
		5	WIND X+	-1.50
27	COMB - 1.5 DEAD + -1.5 WIND (2)	3	DEAD LOAD	1.50
		6	WIND X-	-1.50
28	COMB - 1.5 DEAD + -1.5 WIND (3)	3	DEAD LOAD	1.50
		7	WIND Z+	-1.50
29	COMB - 1.5 DEAD + -1.5 WIND (4)	3	DEAD LOAD	1.50
		8	WIND Z-	-1.50
30	COMB - 1.5 DEAD + 1.5 SEISMIC-H (1)	3	DEAD LOAD	1.50
		1	SEISMIC X	1.50
31	COMB - 1.5 DEAD + 1.5 SEISMIC-H (2)	3	DEAD LOAD	1.50
		2	SEISMIC Z	1.50
32	COMB - 1.5 DEAD + -1.5 SEISMIC-H (1)	3	DEAD LOAD	1.50
		1	SEISMIC X	-1.50
33	COMB - 1.5 DEAD + -1.5 SEISMIC-H (2)	3	DEAD LOAD	1.50
		2	SEISMIC Z	-1.50
34	COMB - 0.9 DEAD + 1.5 WIND (1)	3	DEAD LOAD	0.90
		5	WIND X+	1.50
35	COMB - 0.9 DEAD + 1.5 WIND (2)	3	DEAD LOAD	0.90
		6	WIND X-	1.50
36	COMB - 0.9 DEAD + 1.5 WIND (3)	3	DEAD LOAD	0.90
		7	WIND Z+	1.50
37	COMB - 0.9 DEAD + 1.5 WIND (4)	3	DEAD LOAD	0.90
		8	WIND Z-	1.50
38	COMB - 0.9 DEAD + -1.5 WIND (1)	3	DEAD LOAD	0.90
		5	WIND X+	-1.50
39	COMB - 0.9 DEAD + -1.5 WIND (2)	3	DEAD LOAD	0.90
		6	WIND X-	-1.50
40	COMB - 0.9 DEAD + -1.5 WIND (3)	3	DEAD LOAD	0.90
		7	WIND Z+	-1.50
41	COMB - 0.9 DEAD + -1.5 WIND (4)	3	DEAD LOAD	0.90
		8	WIND Z-	-1.50
42	COMB - 0.9 DEAD + 1.5 SEISMIC-H (1)	3	DEAD LOAD	0.90
		1	SEISMIC X	1.50
43	COMB - 0.9 DEAD + 1.5 SEISMIC-H (2)	3	DEAD LOAD	0.90
		2	SEISMIC Z	1.50
44	COMB - 0.9 DEAD + -1.5 SEISMIC-H (1)	3	DEAD LOAD	0.90
		1	SEISMIC X	-1.50
45	COMB - 0.9 DEAD + -1.5 SEISMIC-H (2)	3	DEAD LOAD	0.90
		2	SEISMIC Z	-1.50
46	WORKING LOAD CASE	3	DEAD LOAD	1.00
		4	LIVE LOAD	1.00



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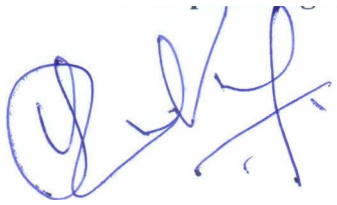
←!▒DETAILS OF FOOTING

←!► FCK = 25 FY = 500 EFF.COVER = 60 MM S.B.C = 240 KN/SQ.M

S.NO	NAME	LOAD IN [KN]	PDX IN [MM]	PDY IN [MM]	FOOTING DETAILS LX [M]	BY [M]	D [MM]	D0 [MM]	ASTX [CM^2]	ASTY [CM^2]
1	F1	600	560	400	1.70	1.70	350	200	8.31 B	14.95
2	F2	700	560	400	1.80	1.80	400	200	9.44 B	14.49
3	F3	900	560	400	2.05	2.05	450	200	12.92 B	20.37
4	F4	1200	560	400	2.35	2.35	550	200	17.54 B	22.72
5	F5	1400	560	400	2.55	2.55	650	200	20.42 B	21.79
6	F6	1550	400	560	2.70	2.70	700	200	24.07	23.06 B

←x1

NOTE : B DENOTES BOTTOM LAYER OF REINFORCEMENT IN THE MAT.



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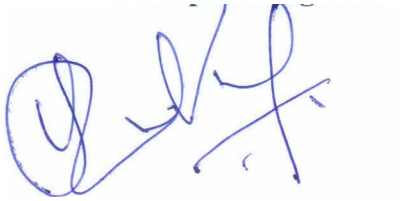
←!▒DETAILS OF FOOTING

←!► FCK = 25 FY = 500 EFF.COVER = 60 MM S.B.C = 240 KN/SQ.M

S.NO	NAME	LOAD IN [KN]	PDX IN [MM]	PDY IN [MM]	FOOTING DETAILS LX [M]	BY [M]	D [MM]	D0 [MM]	ASTX [CM^2]	ASTY [CM^2]
1	RF1	900	560	400	2.30	1.80	500	200	15.18 B	14.56
2	RF2	1200	560	400	3.10	1.80	700	200	19.93 B	26.36

←x1

NOTE : B DENOTES BOTTOM LAYER OF REINFORCEMENT IN THE MAT.



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No-150A, 2nd Floor, P.S.Sivasamy Salai,
Mylapore, Chennai-04. Ph:9994494406.

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IS 456 - 2000 B E A M D E S I G N R E S U L T S

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IS-456 L I M I T S T A T E D E S I G N

B E A M N O. 1 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 3130.0 mm SIZE: 230.0 mm X 450.0 mm COVER: 30.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	782.5 mm	1565.0 mm	2347.5 mm	3130.0 mm
TOP REINF.	230.85 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	175.46 (Sq. mm)
BOTTOM REINF.	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)



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Mylapore, Chennai-04. Ph:9994494406.

SUMMARY OF PROVIDED REINF. AREA

SECTION	0.0 mm	782.5 mm	1565.0 mm	2347.5 mm	3130.0 mm
TOP REINF.	3-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)
BOTTOM REINF.	2-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)	2-12d 1 layer(s)
SHEAR REINF.	2 legged 8d @ 140 mm c/c	2 legged 8d @ 140 mm c/c	2 legged 8d @ 140 mm c/c	2 legged 8d @ 140 mm c/c	2 legged 8d @ 140 mm c/c

SHEAR DESIGN RESULTS AT DISTANCE d (EFFECTIVE DEPTH) FROM FACE OF THE SUPPORT

SHEAR DESIGN RESULTS AT 644.0 mm AWAY FROM START SUPPORT

VY = 29.01 MX = 0.19 LD= 26

Provide 2 Legged 8d @ 140 mm c/c

SHEAR DESIGN RESULTS AT 644.0 mm AWAY FROM END SUPPORT

VY = -24.20 MX = 0.19 LD= 30

Provide 2 Legged 8d @ 140 mm c/c

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IS-456 L I M I T S T A T E D E S I G N

B E A M N O. 2 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 4340.0 mm SIZE: 230.0 mm X 450.0 mm COVER: 30.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1085.0 mm	2170.0 mm	3255.0 mm	4340.0 mm
TOP REINF.	193.70 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	209.13 (Sq. mm)
BOTTOM REINF.	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)	161.87 (Sq. mm)



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SUMMARY OF PROVIDED REINF. AREA

SECTION	0.0 mm	1085.0 mm	2170.0 mm	3255.0 mm	4340.0 mm

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IS 456 - 2000 C O L U M N D E S I G N R E S U L T S

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IS-456 L I M I T S T A T E D E S I G N

C O L U M N N O. 95 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 1200.0 mm CROSS SECTION: 300.0 mm X 460.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 32 END JOINT: 57 SHORT COLUMN

REQD. STEEL AREA : 535.06 Sq.mm.

REQD. CONCRETE AREA: 66881.96 Sq.mm.

MAIN REINFORCEMENT : Provide 8 - 12 dia. (0.66%, 904.78 Sq.mm.)

(Equally distributed)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 1747.13 Muz1 : 111.75 Muy1 : 69.54

INTERACTION RATIO: 0.27 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 32

END JOINT: 57 Puz : 1881.61 Muz : 133.03 Muy : 80.42 IR: 0.24

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IS-456 L I M I T S T A T E D E S I G N

C O L U M N N O. 96 D E S I G N R E S U L T S

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Design of Two way slab marked: FS2

General Data

Grade of Concrete	=	M25	(25	N/mm^2)
Grade of Steel	=	Fe500	(500	N/mm^2)
Density of Concrete	=	25		kN/m^3
Shorter Span of slab Lx	=	5		m
Longer Span of Slab Ly	=	6.5		m
Ly/Lx	=	1.30		

Edge condition (Panel) : 4. Two Adjacent Edges Discontinuous

Trying and adopting Thickness of slab	=	150	mm
Clear Cover to main Reinforc dx	=	35	mm

Loading on Slab

Dead Load			
Self Weight = (0.15 x 25)	=	3.75	kN/m^2
- Floor Finish load	=	1	kN/m^2
- Other Dead Load(Light partition)	=	1	kN/m^2
Live Load	=	2	kN/m^2
		0	
Total Design Load	=	7.75	kN/m^2

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	Along Short Span		Along Long Span	
	Midspan	Support	Midspan	Support
BM Coefficient from IS-456 2002	0.039	0.051	0.028	0.037
Mu =1.5(α x w x Lx^2)	11.334	14.822	8.138	10.753
Effective Depth deff	110	110	100	100
K = Mu / ($b\ d^2$)	0.937	1.225	0.814	1.075
Pt. Required	0.231	0.305	0.200	0.266
Area of Steel Required	254	336	200	266
Minimum Area of Steel @ 0.12 %	180	180	180	180
Provide Reinforcement Diameter	# 10 @		# 10 @	
At C/C spacing of	150 mm c/c		180 mm c/c	
Steel available from adjoint slab		# 10 @ 300 mm c/c		# 10 @ 360 mm c/c
		# 10 @ 300 mm c/c		# 10 @ 360 mm c/c
Extra top steel		# 0 @ 400 mm c/c		# 0 @ 350 mm c/c
Area of Steel Provided	524	524	436	436

Check for Deflection

Basic Allowable 'Lx/d' ratio without modification = 26

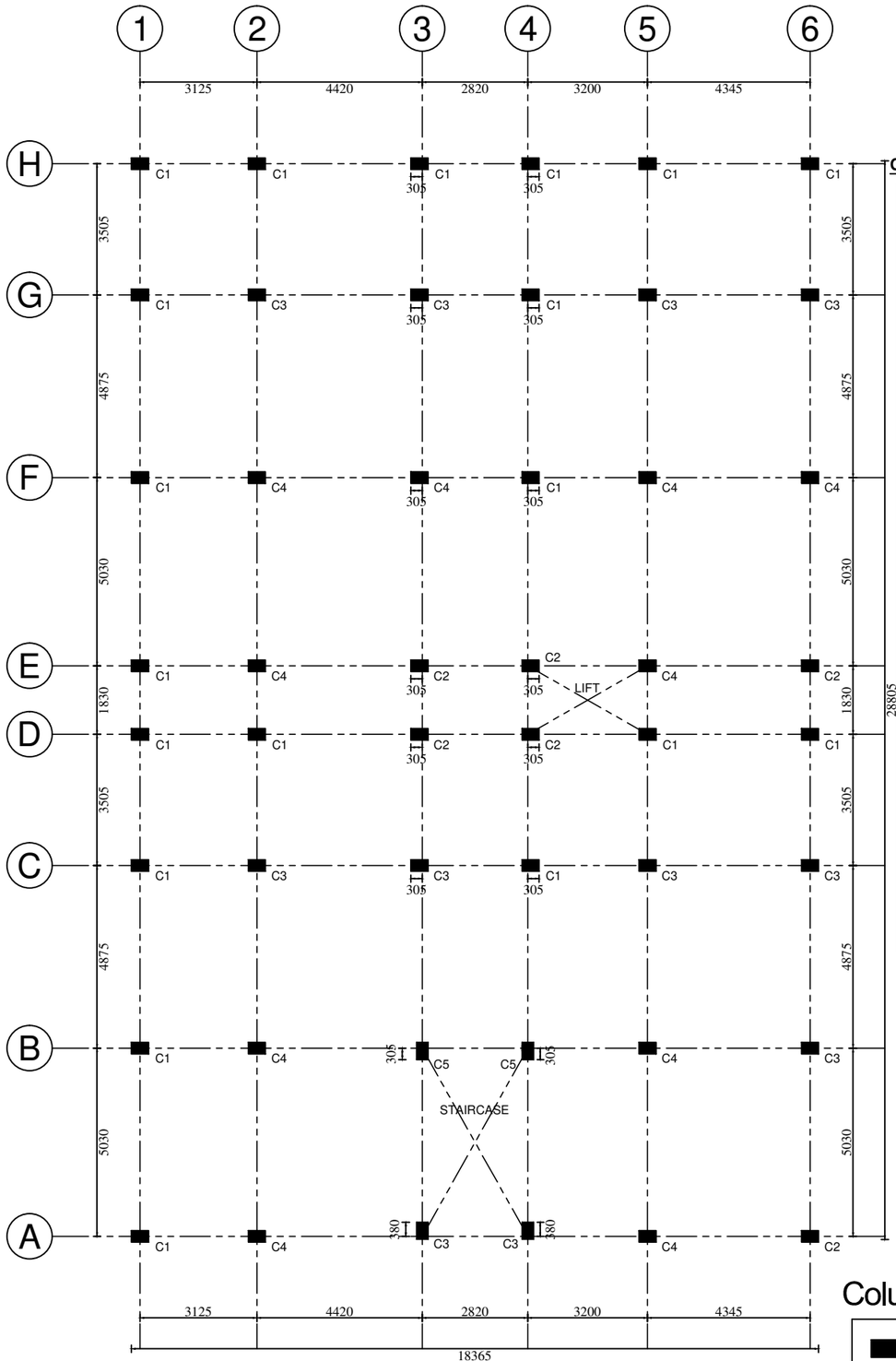
Steel Stress of Service Loads is given as

fs = 0.58.fy [Ast / Ast(pr.)] = 140.90 N/mm^2

Modification factor as per SP:24 (Clause 22.2)

$$\frac{1}{0.225+0.00322.fs-0.625\ \log_{10}(bd/Ast(pr))} = \frac{1}{0.4772} = 2.0000$$

Permissible 'Le/d' ratio with modificati	=	26.000	x	2.0000	= 52.000
Actual Span/Depth ratio, Lx / d	=	45.455	<	52.000	HENCE O.K.



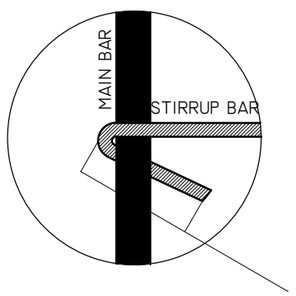
COLUMN KEY PLAN

Column schedule:

COLUMNS ADOPTED	NO OF COL	REINFORCEMENT						TIES
		GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	HEAD ROOM / MACHINE ROOM	
COLUMN 300X450								
C1	19	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	
		8/16#	8/16#	4/16# + 4/12#	4/16# + 4/12#	4/16# + 4/12#	4/16# + 4/12#	
		TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	
C2	6	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	
		8/16#	8/16#	8/16#	8/16#	8/16#	4/16# + 4/12#	
		TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	
C3	11	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	
		4/20# + 4/16#	8/16#	4/16# + 4/12#	4/16# + 4/12#	4/16# + 4/12#	4/16# + 4/12#	
		TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	
C4	10	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	
		10/20#	6/20# + 4/16#	10/16#	6/16# + 4/12#	6/16# + 4/12#	6/16# + 4/12#	
		TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	
C5	2	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	300 x 450	
		8/25#	4/25# + 4/20#	8/20#	4/20# + 4/16#	8/16#	8/16#	
GRAND TOTAL	48	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	TIES 8#	

NOTES:
1. **TIES : Spacing of 200 mm C/C ,**
2. **TIES : Spacing of 100 mm C/C may be provided near beam-column junction and lapping of main rods.**

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HOOK DETAIL

Column Legend:

300 X 450

ALL HOOKS SHOULD BE BENT TO AN ANGLE OF 135° WITH A LENGTH NOT LESS THAN 75 MM
WHEREVER LAP SPLICES AND CONFINING TIES ARE NOT REQUIRED, SPACING OF LATERAL TIES SHALL BE Y8 @ 200 C/C.

GENERAL NOTES:

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2. ALL DIMENSIONS ARE IN "MM" UNLESS MENTIONED
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5. READ THE DRAWING ALONG WITH ARCHITECTURAL DRAWING

TECHNICAL NOTES:

1. Grade of concrete :
   M 25 - (1:1:2) (As per IS 456-2000)
2. Grade of steel Fe 500 (As per IS 1786-1985)
3. Covers
   - 3.1 For grade / plinth beam 1" (25 mm)
   - 3.2 For footing bottom 2" (50 mm)
   - 3.3 For column 1.5" (40 mm)
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   - 3.5 For all roof beam 1" (25 mm)
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4. Lap length for all bars shall be 50 x dia
5. Spacer bar to be provided in between two layers of reinforcement of same dia at 1000mm c/c.
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   - 6.1 For columns : 24 hrs after casting
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7. Designed for Silt+4 upper floors only.
8. Not more than 40% of reinforcement shall be lapped at any particular junction.

PROJECT:

Proposed construction of RCC Terraced Roof Stilt+4 Floors Residential Apartment Building viz., Magilam Residency at Old S.No. 110/2A, Ward No.13, New S.No. 110/2A1A1A1C, Ward No.14, Karuppur East Kattuvattam, Karuppur Village and Town Panchayat, Omalur Taluk, Salem District.

Applicant : Thiru.M.Mani

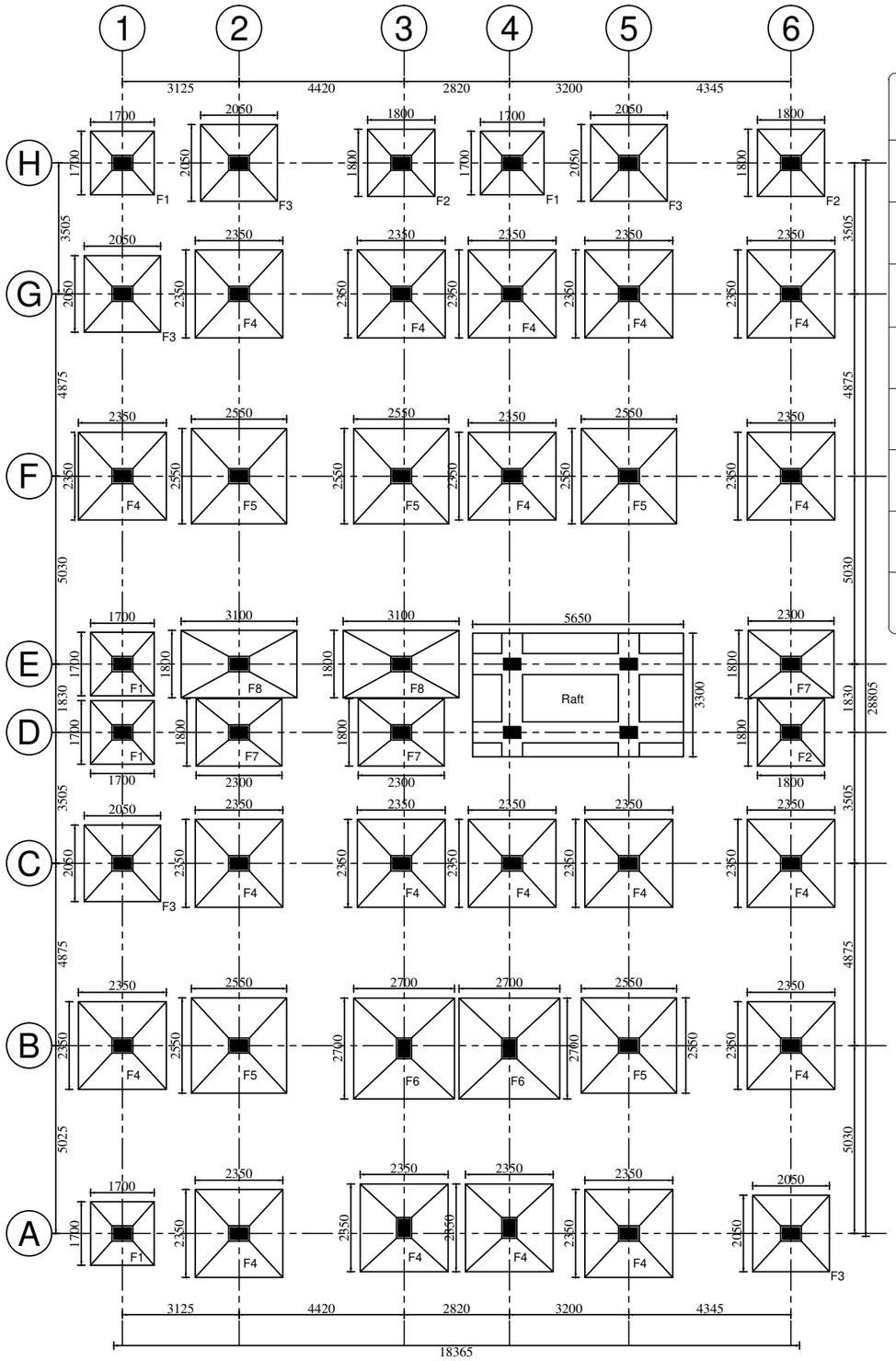
STRUCTURAL CONSULTANT:

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N0 - 150A, II Flr, PS Sivasamy salai,
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Cell.NO.:99944 94406
Email :senthilnsk.er@gmail.com

JOB TITLE: Column Key Plan and Column Schedule

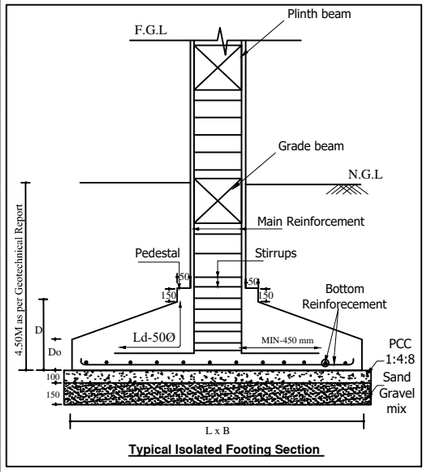
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Date					
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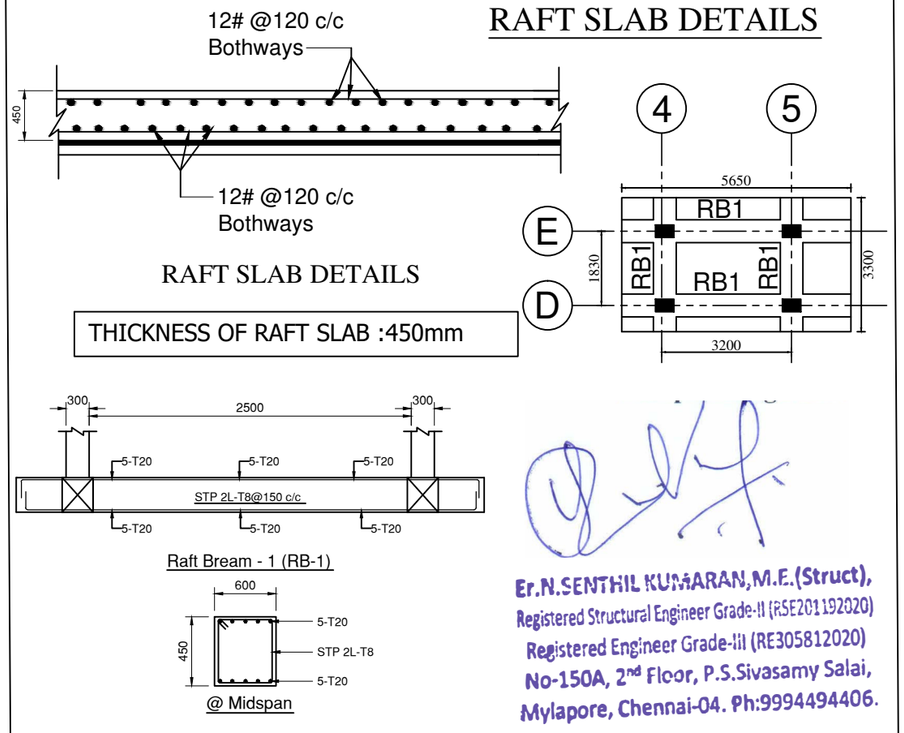


FOOTINGS SCHEDULE:-

Sl.	FOOTING NAME	FOOTING SIZE	FOOTING REINFORCEMENT
01	F1	1700 x 1700 D=350 D0=200 SLOPED FOOTING	Y12 @ 100 C/C BOTHWAYS @ BOTTOM
02	F2	1800 x 1800 D=400 D0=200 SLOPED FOOTING	Y12 @ 120 C/C BOTHWAYS @ BOTTOM
03	F3	2050 x 2050 D=450 D0=200 SLOPED FOOTING	Y12 @ 100 C/C BOTHWAYS @BOTTOM
04	F4	2350 x 2350 D=550 D0=200 SLOPED FOOTING	Y12 @ 100 C/C BOTHWAYS @BOTTOM
05	F5	2550 x 2550 D=650 D0=300 SLOPED FOOTING	Y12 @ 120 C/C BOTHWAYS @BOTTOM
06	F6	2700 x 2700 D=700 D0=300 SLOPED FOOTING	Y12 @ 100 C/C BOTHWAYS @BOTTOM
07	RF1	2300 x 1800 D=500 D0=200 RECTANGULAR FOOTING	Y12 @ 120 C/C BOTHWAYS @ TOP & BOTTOM
08	RF2	3100 x 1800 D=700 D0=300 RECTANGULAR FOOTING	Y16 @ 150 C/C BOTHWAYS @ TOP & BOTTOM



Typical Isolated Footing Section



FOOTING LAYOUT

RAFT SLAB DETAILS

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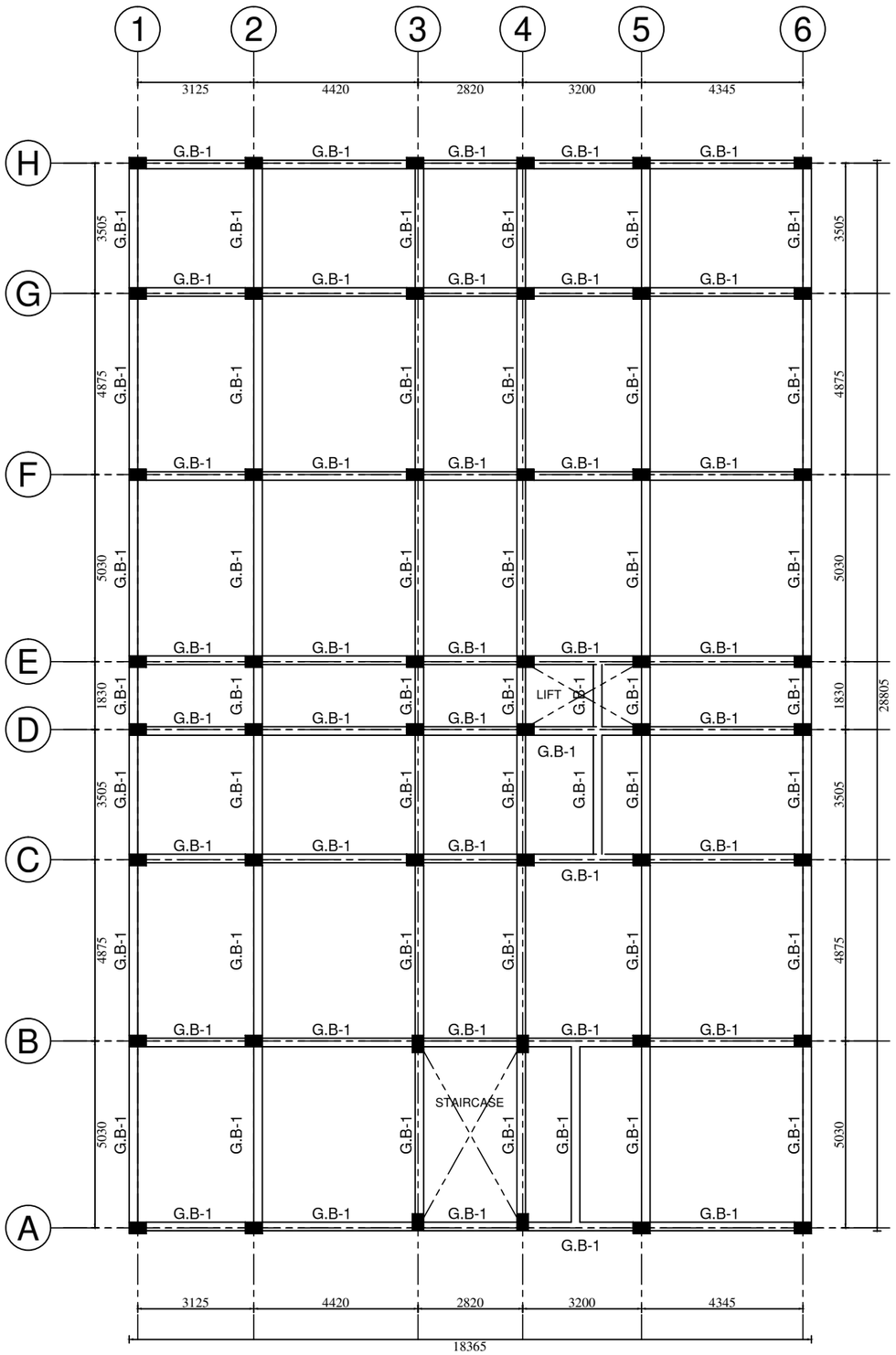
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JOB TITLE:
Footing layout and footing schedule

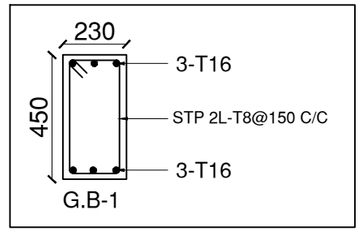
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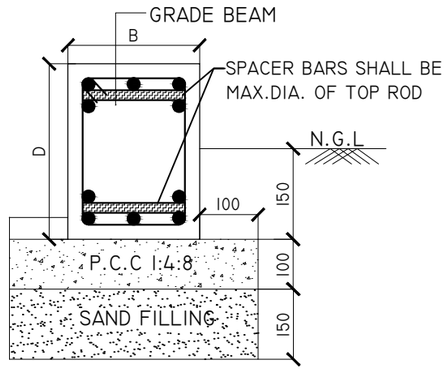
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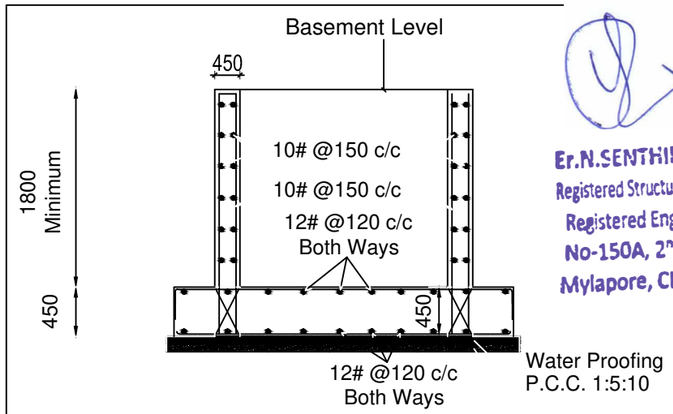
GRADE BEAM LAYOUT

Grade beam details:





TYP. DETAIL OF GRADE BEAM



SECTION X-X

LIFT WELL DETAILS

THICKNESS OF RAFT SLAB :450mm

NOTE:

1. The lift pit should be of minimum 1.8m depth from basement level, and as per manufacturer specifications
2. The clear dimensions of lift pit should be maintained as prescribed by the lift Engineers
3. Grade beam connecting lift column should be laid at appropriate level so as to accommodate lift well.
4. Water proofing should be done for lift well & bottom mat as per standard provision.



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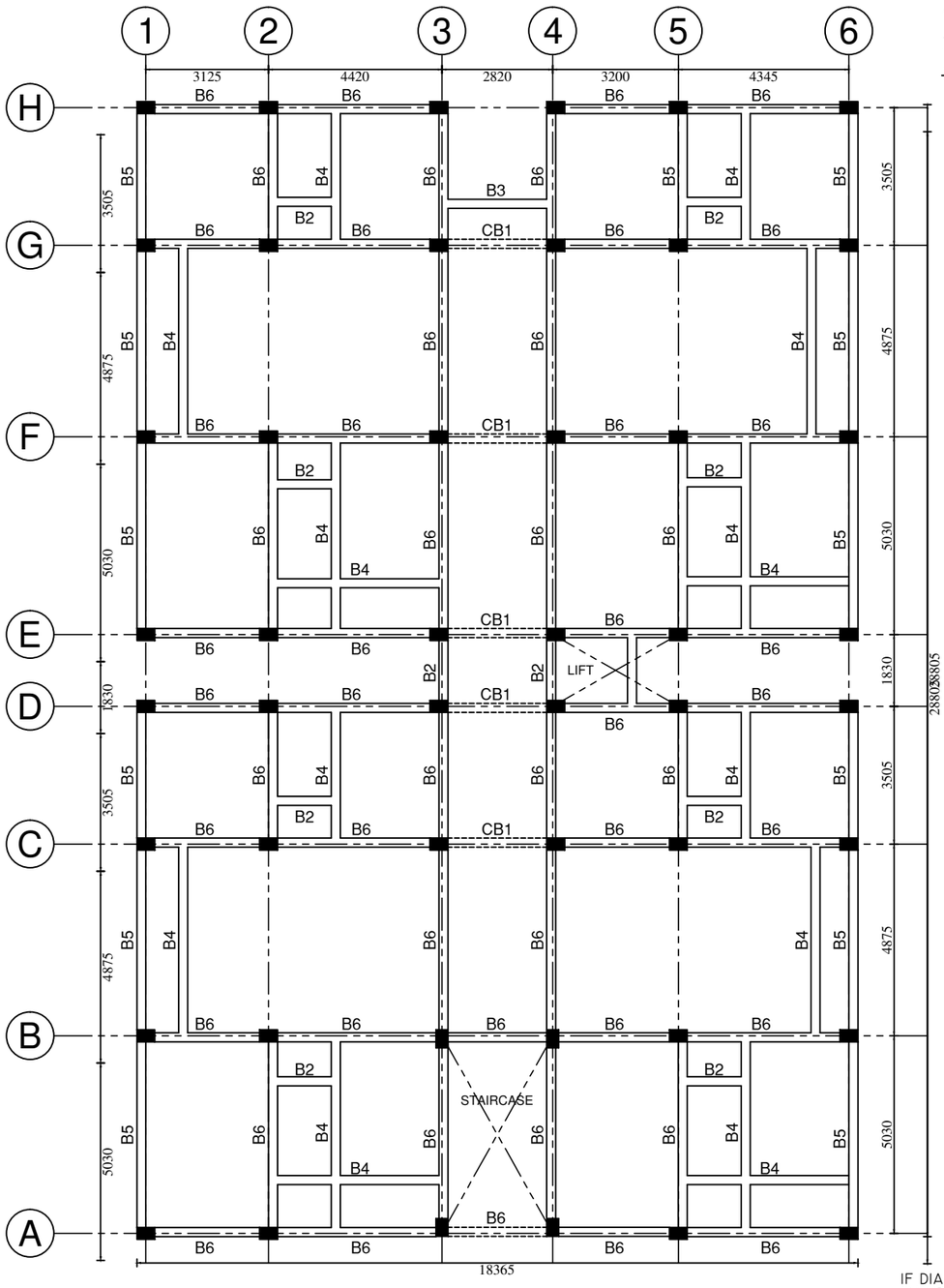
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Email :senthilnsk.er@gmail.com

JOB TITLE:
Grade beam details

Rev. No					
Date					
Designed by	ARAVI	Scale	NTS	SIZE	A3
Drawn by	ARAVI	Job No.			
Approved by	NSK	Dwg No.		SHEET.NO.1	

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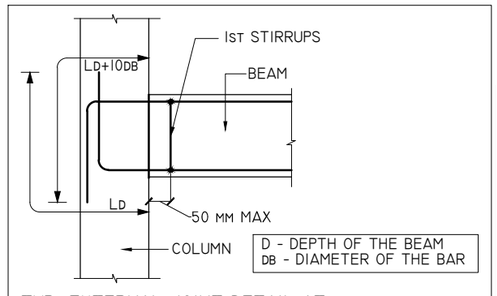


TYPICAL ROOF BEAM LAYOUT FOR 1st, 2nd, 3rd, 4th FLOOR ROOFS AND TERRACE

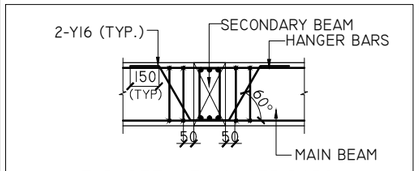
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Beam schedule:

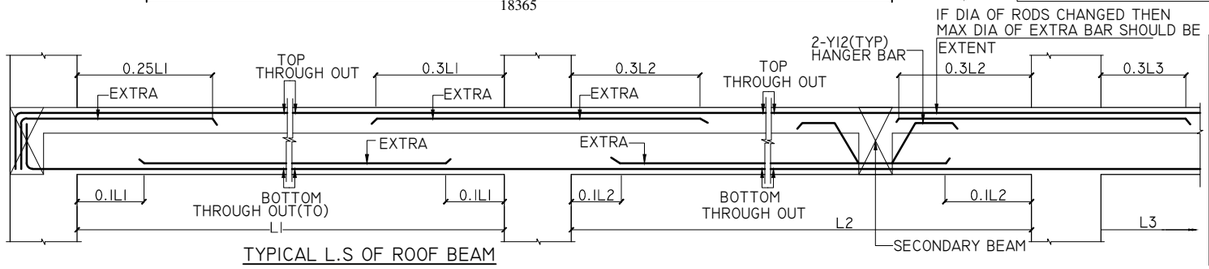
S.No	BEAMS ADOPTED	REINFORCEMENT (AT SUPPORTS)	REINFORCEMENT (AT MIDSPAN)	STIRRUPS
1	CB1 230 x 120	230 / 120 / 2-T12 / 2-T12	230 / 120 / 2-T12 / 2-T12	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN
2	B2 230 x 450	230 / 450 / 3-T16 / 3-T16	230 / 450 / 3-T16 / 3-T16	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN
3	B3 230 x 450	3-T16 / 3-T16	3-T16 / 3-T16+ 2-T12(E)	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN
4	B4 230 x 450	3-T16 / 3-T16	3-T16 / 3-T16+ 2-T16(E)	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN
5	B5 230 x 450	3-T16+ 2-T12(E) / 3-T16	3-T16 / 3-T16	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN
6	B6 230 x 450	3-T16+ 3-T16(E) / 3-T16	3-T16 / 3-T16+ 2-T16(E)	STP 2L-T8 @ 120 c/c @ SUPPORTS STP 2L-T8 @ 150 c/c @ MIDSPAN



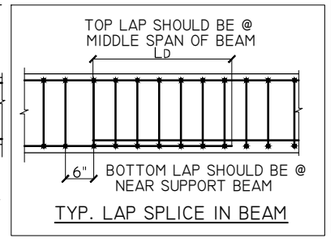
TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION



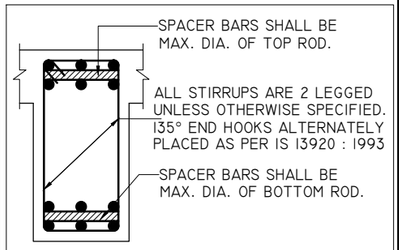
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION



TYPICAL L.S OF ROOF BEAM



TYP. LAP SPLICE IN BEAM



TYP. DETAIL

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Registered Structural Engineer Grade-II (RSE201192020)
Registered Engineer Grade-III (RE305812020)
No-150A, 2nd Floor, P.S.Sivasamy Salai,
Mylapore, Chennai-04. Ph:9994494406.

GENERAL NOTES:

1. DIMENSIONS TO BE CHECKED AS PER THE SITE CONDITION
2. ALL DIMENSIONS ARE IN "MM" UNLESS MENTIONED
3. DRAWINGS TO BE READ AND NOT TO BE SCALED
4. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE STARTING THE WORK
5. READ THE DRAWING ALONG WITH ARCHITECTURAL DRAWING

TECHNICAL NOTES:

1. Grade of concrete :
   M 25 - (1:1:2) (As per IS 456-2000)
2. Grade of steel Fe 500 (As per IS 1786-1985)
3. Covers
   - 3.1 For grade / plinth beam 1" (25 mm)
   - 3.2 For footing bottom 2" (50 mm)
   - 3.3 For column 1.5" (40 mm)
   - 3.4 For footing side 3" (75 mm)
   - 3.5 For all roof beam 1" (25 mm)
   - 3.6 For all roof slab 3/4"(20 mm)
4. Lap length for all bars shall be 50 x dia
5. Spacer bar to be provided in between two layers of reinforcement of same dia at 1000mm c/c.
6. Removal of form works
   - 6.1 For columns : 24 hrs after casting
   - 6.2 For roof beam side : 24 hrs after casting
   - 6.3 For roof beam bottom
     - 6.3.1. Clear span less than 6m : 14 day after casting
     - 6.3.2. Clear span more than 6m : 21 day after casting
   - 6.4 For roof slab bottom
     - 6.4.1. Span upto 4.5m : 14 days after casting
     - 6.4.2. Span over 4.5m : 21 days after casting
7. Designed for Silt+4 upper floors only.
8. Not more than 40% of reinforcement shall be lapped at any particular junction.

PROJECT:

Proposed construction of RCC Terraced Roof Stilt+4 Floors Residential Apartment Building viz., Magilam Residency at Old S.No. 110/2A, Ward No.13, New S.No. 110/2A1A1A1C, Ward No.14, Karuppur East Kattuvattam, Karuppur Village and Town Panchayat, Omalur Taluk, Salem District.

Applicant : Thiru.M.Mani

STRUCTURAL CONSULTANT:

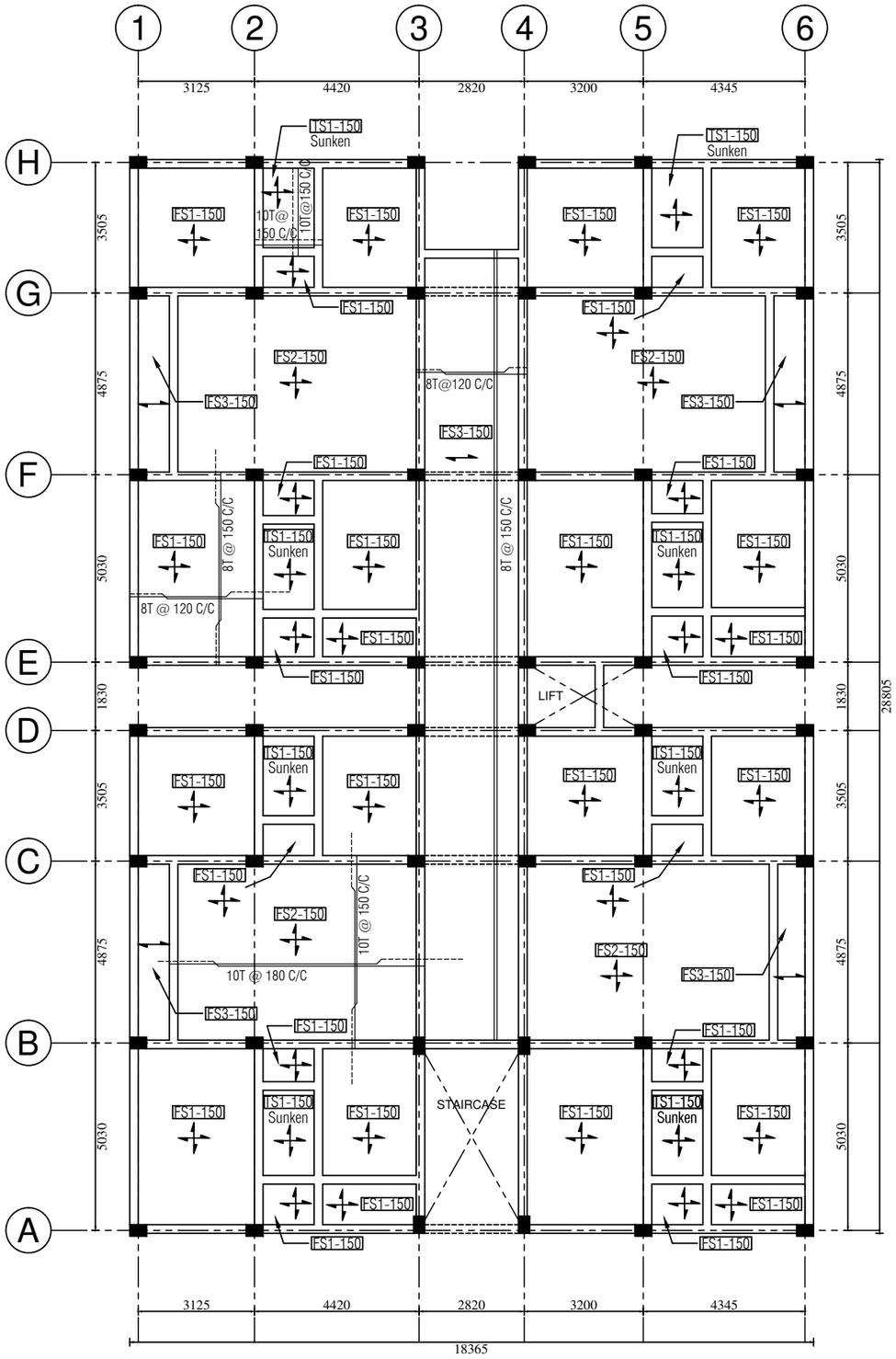
Er.N.Senthil kumaran M.E.(Struct).,

Regd Strucutral Engineer Grade II(RSE201192020)
Sri Kumaran Associates,
N0 - 150A, II Flr, PS Sivasamy salai,
Mylapore, Chennai-600004
Cell.NO.:99944 94406
Email :senthilnsk.er@gmail.com

JOB TITLE: Typical floor roof beam layout and schedule

Rev. No					
Date					
Designed by	ARAVI	Scale	NTS	SIZE	A3
Drawn by	ARAVI	Job No.			
Approved by	NSK	Dwg No.		SHEET.NO.1	

Released for ☐ Construction ☐ Information ☑ Approval

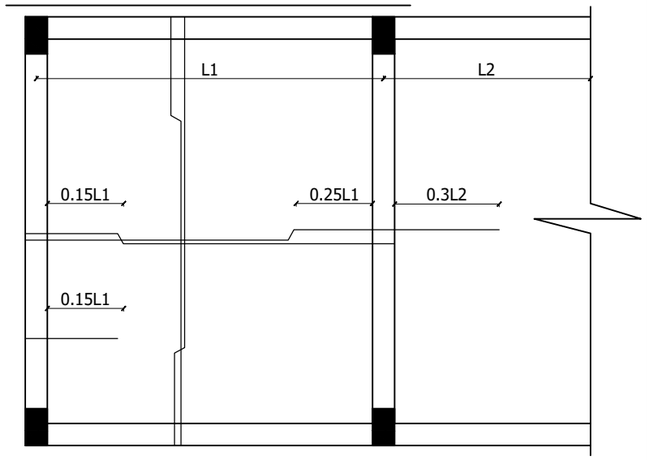


SLAB ID	TYPE	ALONG SHORTER SPAN	ALONG LONGER SPAN
FS1 150 THK	TWO WAY SLAB	T8 @ 120 C/C	T8 @ 150 C/C
FS2 150 THK	TWO WAY SLAB	T10 @ 150 C/C	T10 @ 180 C/C
FS3 150 THK	ONE WAY SLAB	T8 @ 120 C/C	T8 @ 150 C/C
TS1 150 THK	DOUBLE MAT	T10 @ 150 C/C	T10 @ 150 C/C

NOTE:

- ———————— TOP ROD
- ———————— BOTTOM ROD
- Provide Extra Rod at same spacing at discontinous supports.
- - One way slab
- - Two way slab

Slab Curtailment details:



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Cell.NO.:99944 94406
Email :senthilnsk.er@gmail.com

JOB TITLE: **Typical floor roof slab layout and schedule**

Rev. No					
Date					
Designed by	ARAVI	Scale	NTS	SIZE	A3
Drawn by	ARAVI	Job No.			
Approved by	NSK	Dwg No.		SHEET.NO.1	

Released for ☐ Construction ☐ Information ☑ Approval

TYPICAL ROOF SLAB DETAILS FOR 1st, 2nd, 3rd, 4th FLOOR ROOF AND TERRACE

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
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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.