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BURO ENGINEERS (I) PRIVATE LTD.,
Civil & Structural Consultants
New No.31, (Old No.14), Besant Avenue Road, Adyar, Chennai - 600 020, TN, India. Tel : 91 44 2491 2755
e-mail : buroindia@buroengineers.in, admin@buroengineers.in
CIN : U45201TN2005PTC055334

FORM A

STRUCTURAL SOUNDNESS CERTIFICATE

Date: 02-05-2024

This is to certify that, the proposed Group Development Residential buildings (Bock A & B – Ground + First Floor) – 32 villa units at Survey No. 221/14A1A3, 221/14A1A4, & 220/2A1B situate at Perumaleri Village, Vadakadampadi Panchayat, Thirukazhukundram Taluk, Chengalpet District being promoted by M/s. Arun Excello Realty Private Limited shall be as per the Soil investigation / Structural design confirming to BIS (Bureau of Indian Standards).

The proposed Group Development Residential buildings (Bock A & B – Ground + First Floor) – 32 villa units will be structurally sound and safe on completion.

Place: Chennai

P. JEGATHEESAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
DEPUTY DIRECTOR OF TOWN & COUNTRY PLANNING
REGISTRATION No. CGLRGN/SE/Gr-I/2019/07/020
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI – 600 020.
E-Mail: jegatheesan@buroengineers.in
Mobile: +91 9962545631

For ARUN EXCELLO HOMES PVT. LTD.
Authorised Signatory

V. VISALAKSHI
Registered Architect - CA / 2004 / 34604
DTCP Reg.No. CGLRGN / RA / Gr-I / 2019 / 06 / 012
No. 1156, 75th Street, K.K.Nagar, Chennai - 600 078

For ARUN EXCELLO HOMES PVT. LTD.
Authorised Signatory

FORM - B

STATEMENT ACCOMPANYING

1.	Door number of building	: 221/14A1A3, 221/14A1A4, & 220/2A1B
2.	Location (Street No., Ward., Name Of the place, i.e., Corporation / Municipality / Panchayat Union / Township / Cantonment)	: Perumaleri village, Vadakadampadi Panchayat ThirukazhukundramTaluk, Chengalpet District.
3.	Year of Construction	: Yet to be started
4.	Area of Construction (all floors of all Structures put together)	: 5,843.70 SQ.MTRS
5.	Approximate cost of construction as	: Rs.1000/Sq.ft Per current year (estimated cost)
6.	Purpose for which the building is being Used or proposed to be used	: Residential Building
7.	Purpose for which the building has Hitherto been used	: Residential Buildings
8.	Details of Construction of the building (Particulars)Of the foundation, soil Specification of the roof various parts Under:	
	a. Soil	: Refer enclosed Soil Report
	b. Type of construction	: RCC Column with RCC beam and Slab system
	c. Foundation	: Isolated foundation
	d. Basement	: No basement
	e. Superstructure roof	: RCC beam and slab system

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

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V-Visalakshi

VISALAKSHI
Registered Architect - CA / 2004 / 34604
DTCP Reg.No. CGLRGN / RA / Gr-I / 2019 / 06 / 012
No. 1156, 75th Street, K.K.Nagar, Chennai - 600 078

9. Structural specification

Max. Span of the beam	: 5.45 Mts
Max. Unsupported length of Column	: 2.90 Mts
Min. Size of beam	: 200 X 375 mm

Statement to accompany the certificate of structural soundness

1. Location of the building , door no., : 221/14A1A3, 221/14A1A4, & 220/2A1B
   Perumaleri Village
   Vadakadampadi
   Panchayat Thirukazhukundram Taluk
   Chengalpet District
2. Age of building : Yet to be started
3. Value of the building :
4. Number of storey : Ground + First Floor
5. Short description of structure steel, RCC framed / load bearing masonry

   a. Soil : Refer enclosed soil report
   b. Type of construction : RCC column with beam slab system
   c. Foundation : Isolated footing
   d. Basement : No basement
   e. Superstructure ALL Floors : RCC beam and slab system
   f. Roof : RCC beam and slab system

6. Purpose for which the building Will be structurally sound : Residential Buildings Block- A&B

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

7. Period for which the building Will be structurally sound : 50 Years

For ARUN EXCELLO HOMES PVT. LTD

Authorised Signatory

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No. 1156, 75th Street, K.K.Nagar, Chennai - 600 078

8. Number of persons to be accommodated :

9. Remarks : The building is designed as per the NBC of India - 2016

Place: Chennai

Date: 02.05.2024

P. JEGATHEESAN, M.E., (Struct.), M.I.E.
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For ARUN EXCELLO HOMES PVT. LTD

Authorised Signatory

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No. 1156, 75th Street, K.K.Nagar, Chennai - 600 078

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

FORM – C

FORM OF CERTIFICATE OF STRUCTURAL SOUNDNESS UNDER SUB-SECTION (4) OFSECTION 4 OF THE TAMIL NADU PUBLIC BUILDING (LICENSING) ACT, 1965 (TAMIL NADU ACT 13 OF 1965) REFERED TO IN RULE 4 OF THE TAMIL NADU PUBLIC (LICENSING) RULES, 1966)

This is to certify that the proposed construction of the Group Development Residential buildings (Bock A & B – Ground + First Floor) – 32 villa units mentioned in the statement, and furnished below are its salient technical features:

1. **Foundation:**

a) Depth below GROUND FLOOR ONLY level : 1.50 M

b) Nature of soil set out in the foundation Level : Silty Gravelly Sand
c) Pressure at foundation : 17 T / Sq.M

d) Probable safe bearing capacity of the Strata : 17.5 T / Sq.M

met with at foundation (as per test Conducted)

2. **Superstructures:**

Maximum stress in the most critical : RCC : 7.5 N / Sq.m

Section of masonry and concrete : Masonry 2.0 N / Sq.Cm

Nature of masonry and concrete and its : RCC : 10.0 N / Sq.Cm

Safe permissible stress : Masonry : 5.0 N / Sq.Cm

This is to certify that the proposed Group Development Residential buildings (Bock A & B – Ground + First Floor) – 32 villa units to be constructed have been designed according to I.S. loading standards 875 (Latest version) and other relevant Indian Standard codes of practice and declare that the building will be structurally sound and to be used as a Residential flats for the purpose noted in the Statement.

Place: Chennai

Date: 02.05.2024

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

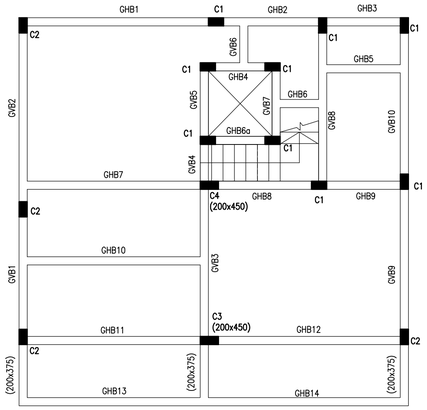
V. Visalakshi.

For ARUN EXCELLO HOMES PVT. LTD.

Authorised Signatory

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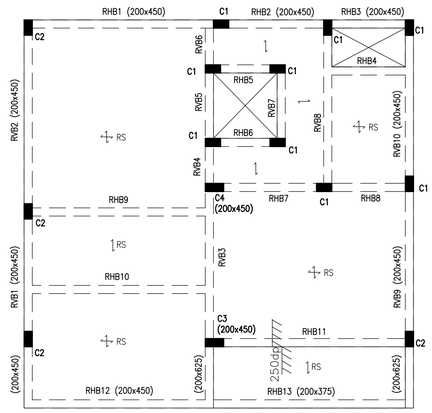
TIE BEAM LAYOUT PLAN (RIGHT SIDE VILLA)

SCALE 1:75

NOTES

UNLESS OTHERWISE SPECIFIED

1. ALL COLUMNS ARE TO BE 200x375mm
2. ALL BEAMS ARE TO BE 200x375mm
3. GRADE OF CONCRETE M25
4. GRADE OF STEEL Fe500



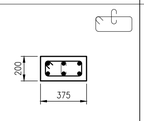
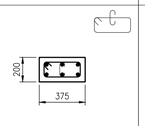
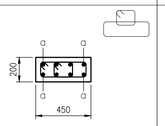
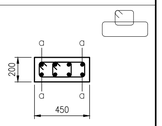
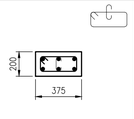
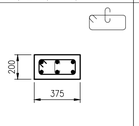
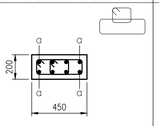
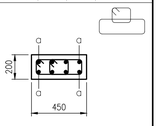
ROOF FLOOR PLAN (RIGHT SIDE VILLA)

SCALE 1:75

NOTES

UNLESS OTHERWISE SPECIFIED

1. ALL COLUMNS ARE TO BE 200x375mm
2. ALL BEAMS ARE TO BE 200x375mm
3. ALL SLABS ARE TO BE 125mm
4. GRADE OF CONCRETE M25
5. GRADE OF STEEL Fe500

ROOF FLOOR				
SIZE				
CONCRETE GRADE/COVER				
REINFORCEMENT/STEEL GRADE Fe				
LINKS/TIES/STEEL GRADE Fe				
1st FLOOR				
SIZE	200x375	200x375	200x450	200x450
CONCRETE GRADE/COVER	M25/40mm	M25/40mm	M25/40mm	M25/40mm
REINFORCEMENT/STEEL GRADE Fe	6T12/Fe500	6T16/Fe500	4T20(a)+4T16/Fe500	4T16(a)+4T12/Fe500
LINKS/TIES/STEEL GRADE Fe	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500
FOOTING STARTER BARS& GROUND FLOORS				
SIZE	200x375	200x375	200x450	200x450
CONCRETE GRADE/COVER	M25/40mm	M25/40mm	M25/40mm	M25/40mm
REINFORCEMENT/STEEL GRADE Fe	6T12/Fe500	6T16/Fe500	4T20(a)+4T16/Fe500	4T16(a)+4T12/Fe500
LINKS/TIES/STEEL GRADE Fe	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500
COLUMN MARK	C1	C2	C3	C4

FOUNDATION LAYOUT PLAN (RIGHT SIDE VILLA)

SCALE 1:75

NOTES

UNLESS OTHERWISE SPECIFIED

1. ALL COLUMNS ARE TO BE 200x375mm
2. ALL BEAMS ARE TO BE 200x375mm
3. GRADE OF CONCRETE M25
4. GRADE OF STEEL Fe500
5. SBC OF SOIL 175kN/m2

1st FLOOR PLAN (RIGHT SIDE VILLA)

SCALE 1:75

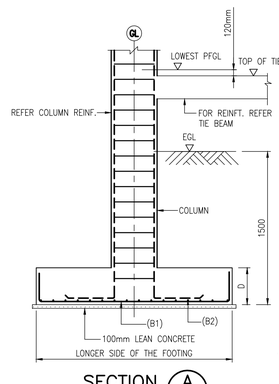
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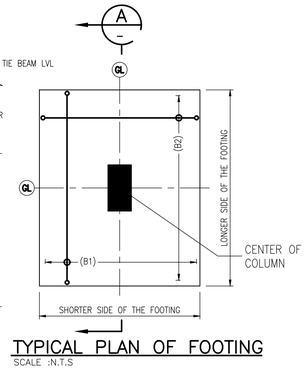
FOOTING SCHEDULE

FOOTING NUMBERS	FOOTING DIMENSION			FOOTING REINFORCEMENT	
	L	B	D	B1	B2
F1	2200	1950	450	T10-125	T10-125
F2	1650	1450	350	T10-150	T10-150
F3	1200	1000	350	T10-150	T10-150
F4	1500	1250	450	T10-150	T10-150



SECTION A

SCALE :N.T.S



TYPICAL PLAN OF FOOTING

SCALE :N.T.S

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Mobile: +91 9962345631

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
19 DEC 2023
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
-	ISSUED AS A APPROVAL DRAWING	GUNA	19-12-2023

APPROVAL DRAWING

STRUCTURAL

Client

ARUN EXCELLO REALTY PVT LTD.
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ROYAPETTAH, CHENNAI - 600 014.
PHONE : 2841 2841 / 2841 1222
WEB : WWW.ARUNEXCELLO.COM

Civil & Structural Engineer :

Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED RESIDENTIAL BUILDINGS (STILT + 5) CONSTRUCTION AT SURVEY NOS :221/14A1A3, 221/14A1A4,220/2A1B IN PERUMALERIVILLAGE, VADAKADAMPADIPANCHAYAT, THIRUKAZHUKUNDRAM TALUK, KANCHEEPURAM DISTRICT.

ZIVA PHASE-3 VILLA

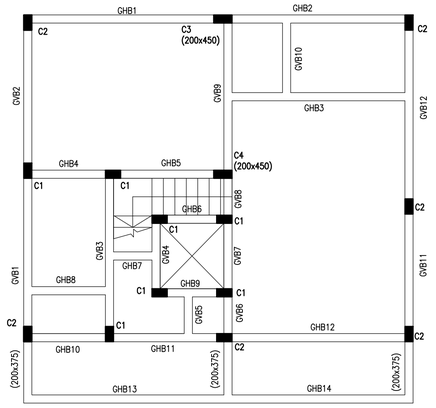
drawing title

TIE BEAM, 1ST FLOOR, ROOF FLOOR FRAMING PLAN
RIGHT SIDE VILLA

scale	1:100	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	DEC 2023	approved by	PJ
drawing no.	BEI---_S-/FP/G-/RV/01	revision	_

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CAD FILE NAME: BEI---_S-FPG-RV01_.dwg



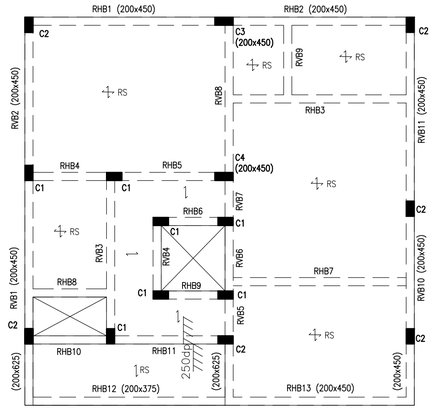
TIE BEAM LAYOUT PLAN (LEFT SIDE VILLA)

SCALE 1:75

NOTES

UNLESS OTHERWISE SPECIFIED

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2. ALL BEAMS ARE TO BE 200x375mm
3. GRADE OF CONCRETE M25
4. GRADE OF STEEL Fe500



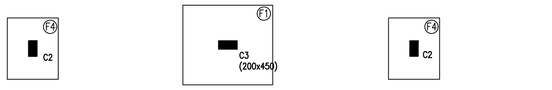
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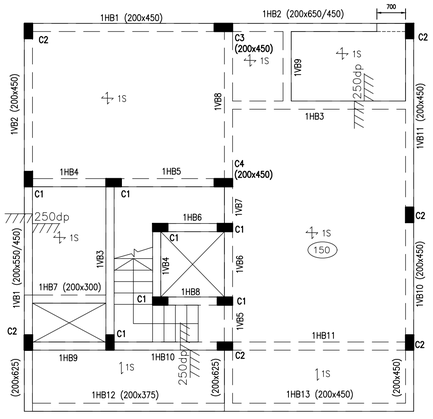
FOUNDATION LAYOUT PLAN (LEFT SIDE VILLA)

SCALE 1:75

NOTES

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4. GRADE OF STEEL Fe500
5. SBC OF SOIL 175kN/m2



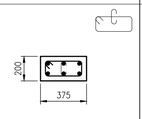
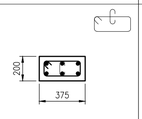
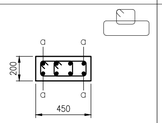
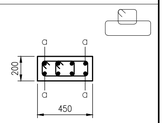
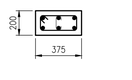
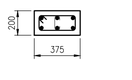
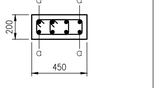
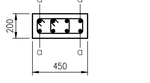
1st FLOOR PLAN (LEFT SIDE VILLA)

SCALE 1:75

NOTES

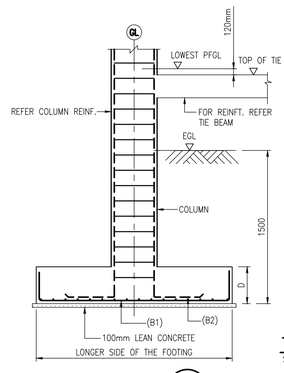
UNLESS OTHERWISE SPECIFIED

1. ALL COLUMNS ARE TO BE 200x375mm
2. ALL BEAMS ARE TO BE 200x375mm
3. ALL SLABS ARE TO BE 125mm
4. GRADE OF CONCRETE M25
5. GRADE OF STEEL Fe500

ROOF FLOOR				
SIZE				
CONCRETE GRADE/COVER				
REINFORCEMENT/STEEL GRADE Fe				
LINKS/TIES/STEEL GRADE Fe				
1st FLOOR				
SIZE	200x375	200x375	200x450	200x450
CONCRETE GRADE/COVER	M25/40mm	M25/40mm	M25/40mm	M25/40mm
REINFORCEMENT/STEEL GRADE Fe	6T12/Fe500	6T16/Fe500	4T20(a)+4T16/Fe500	4T16(a)+4T12/Fe500
LINKS/TIES/STEEL GRADE Fe	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500
FOOTING STARTER BARS& GROUND FLOORS				
SIZE	200x375	200x375	200x450	200x450
CONCRETE GRADE/COVER	M25/40mm	M25/40mm	M25/40mm	M25/40mm
REINFORCEMENT/STEEL GRADE Fe	6T12/Fe500	6T16/Fe500	4T20(a)+4T16/Fe500	4T16(a)+4T12/Fe500
LINKS/TIES/STEEL GRADE Fe	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500	T8-100/200/100/Fe500
COLUMN MARK	C1	C2	C3	C4

FOOTING SCHEDULE

FOOTING NUMBERS	FOOTING DIMENSION			FOOTING REINFORCEMENT	
	L	B	D	B1	B2
F1	2200	1950	450	T10-125	T10-125
F2	1650	1450	350	T10-125	T10-125
F3	1200	1000	350	T10-150	T10-150
F4	1500	1250	350	T10-125	T10-125



SECTION A

SCALE :N.T.S

TYPICAL PLAN OF FOOTING

SCALE :N.T.S

P. JEGATHEESAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
DEPUTY DIRECTOR OF TOWN & COUNTRY PLANNING
REGISTRATION No. CGLRGN/SE/GA-I/2018/07/020
NEW No. 31 (OLD No.14), RECHIT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: jegatheesan@buroengineers.in
Mobile: +91 9962545631

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-	ISSUED AS A APPROVAL DRAWING	GUNA	19-12-2023

APPROVAL DRAWING

STRUCTURAL

Client

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ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED RESIDENTIAL BUILDINGS (STILT + 5) CONSTRUCTION AT SURVEY NOS :221/14A1A3, 221/14A1A4,220/2A1B IN PERUMALERIVILLAGE, VADAKADAMPADIPANCHAYAT, THIRUKAZHUKUNDRAM TALUK, KANCHEEPURAM DISTRICT.

ZIVA PHASE-3 VILLA

drawing title

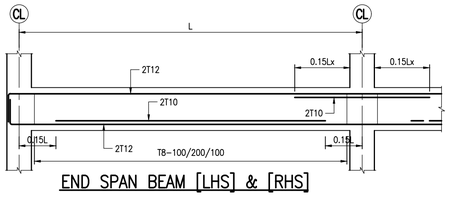
TIE BEAM, 1ST FLOOR, ROOF FLOOR FRAMING PLAN
LEFT SIDE VILLA

scale	1:100	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	DEC 2023	approved by	PJ
drawing no.	BEI---_S-/FP/G-/LV/01	revision	-

THIS DRAWING IS COPYRIGHT

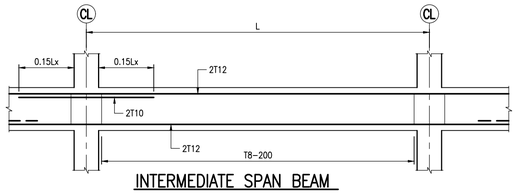
CAD FILE NAME: BEI---_S-FPG-LV01_.dwg

GHB1 – (200x375)



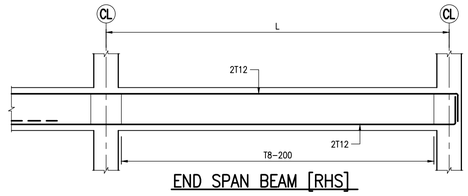
END SPAN BEAM [LHS] & [RHS]

GHB2 – (200x375)



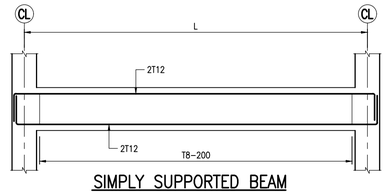
INTERMEDIATE SPAN BEAM

GHB3 – (200x375)



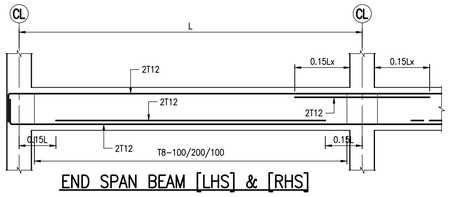
END SPAN BEAM [RHS]

GHB4, GHB5, GHB6 – (200x375)



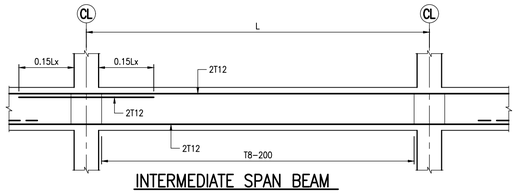
SIMPLY SUPPORTED BEAM

1HB1 – (200x450)



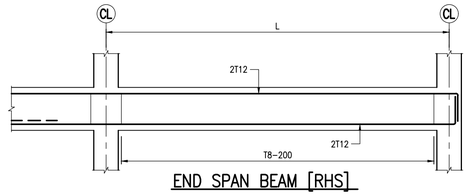
END SPAN BEAM [LHS] & [RHS]

1HB2 – (200x450)



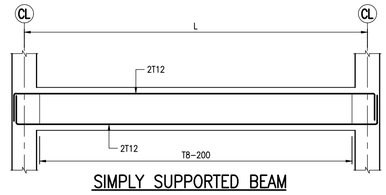
INTERMEDIATE SPAN BEAM

1HB3 – (200x450)



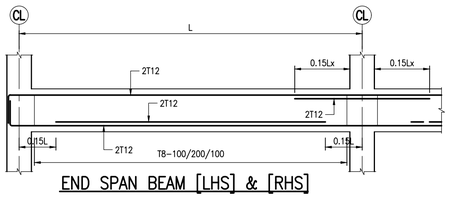
END SPAN BEAM [RHS]

1HB4, 1HB6, 1VB7 – (200x375)



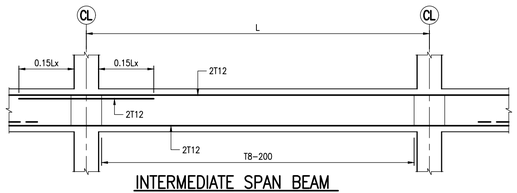
SIMPLY SUPPORTED BEAM

RHB1 – (200x450)



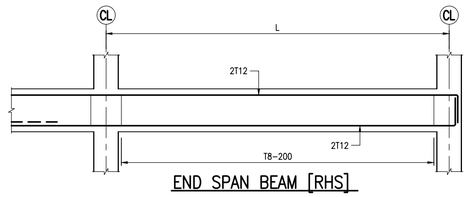
END SPAN BEAM [LHS] & [RHS]

RHB2 – (200x450)



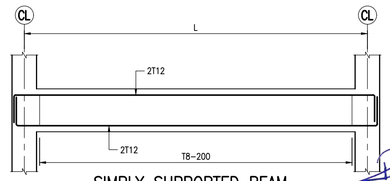
INTERMEDIATE SPAN BEAM

RHB3 – (200x450)



END SPAN BEAM [RHS]

RHB4, RHB6, RVB7 – (200x375)

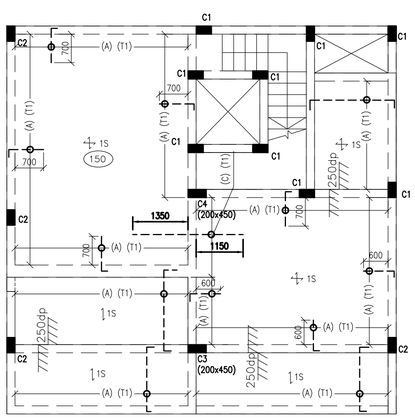


SIMPLY SUPPORTED BEAM

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E-Mail: jegatheesan@buroengineers.in
Mobile: +91 9962545631

REINFORCEMENT SCHEDULE

MARK	SIZE	SPACING
A	T8	200
B	T8	175
C	T8	150
D	T8	125
D1	T8	100
E	T10	200
F	T10	175
G	T10	150
H	T10	125
J	T10	100

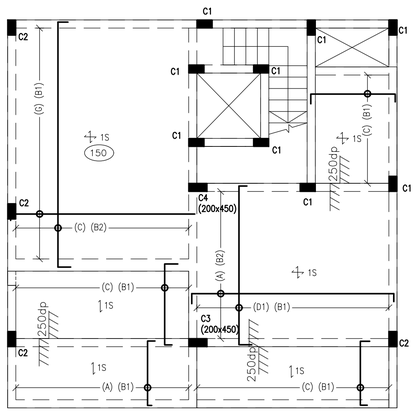


1st FLOOR SLAB DETAIL (RIGHT SIDE VILLA) TOP REINFT.

SCALE 1:75

NOTES

UNLESS OTHERWISE SPECIFIED
1. ALL COLUMNS ARE TO BE 200x375mm
2. ALL BEAMS ARE TO BE 200x375mm
3. ALL SLABS ARE TO BE 125mm
4. GRADE OF CONCRETE M25
5. GRADE OF STEEL Fe500

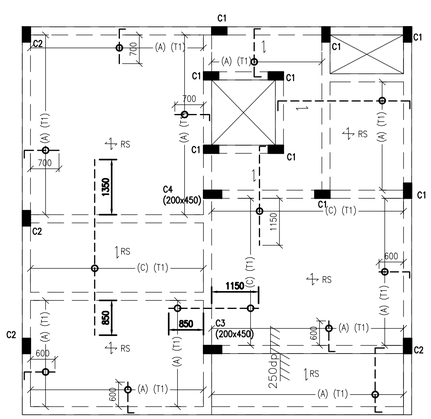


1st FLOOR SLAB DETAIL (RIGHT SIDE VILLA) BOTTOM REINFT.

SCALE 1:75

NOTES

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1. ALL COLUMNS ARE TO BE 200x375mm
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5. GRADE OF STEEL Fe500



ROOF FLOOR SLAB DETAIL (RIGHT SIDE VILLA) TOP REINFT.

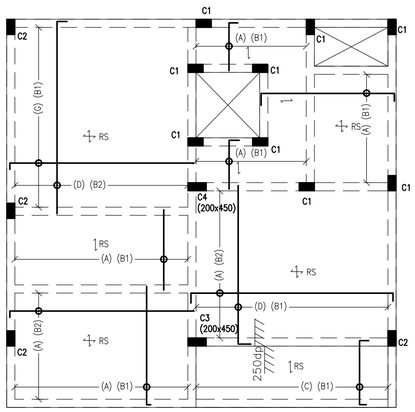
SCALE 1:75

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NOTES
FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. THE DISTRIBUTION BARS ARE TO BE T8-200 (B2 & T2) UNLESS OTHERWISE INDICATED

LEGEND:
– – – TOP REINFORCEMENT
——— BOTTOM REINFORCEMENT



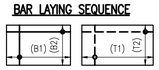
ROOF FLOOR SLAB DETAIL (RIGHT SIDE VILLA) BOTTOM REINFT.

SCALE 1:75

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BAR LAYING SEQUENCE



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APPROVAL DRAWING

STRUCTURAL

Client

ARUN EXCELLO REALTY PVT LTD.
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ROYAPETTAH, CHENNAI – 600 014.
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project title

PROPOSED RESIDENTIAL BUILDINGS (STILT + 5) CONSTRUCTION AT SURVEY NOS :221/14A1A3, 221/14A1A4,220/2A1B IN PERUMALERIVILLAGE, VADAKADAMPADIPANCHAYAT, THIRUKAZHUKUNDRAM TALUK, KANCHEEPURAM DISTRICT.

ZIVA PHASE-3 VILLA

drawing title

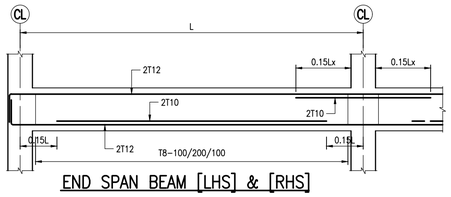
1ST FLOOR, ROOF FLOOR SLAB DETAIL
RIGHT SIDE VILLA (TOP & BOTTOM REINFT.)

scale	1:100	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	DEC 2023	approved by	PJ
drawing no.	BEI---_S-/SB/01/RV/01	revision	–

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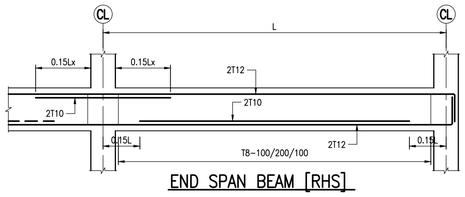
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GHB1 – (200x375)



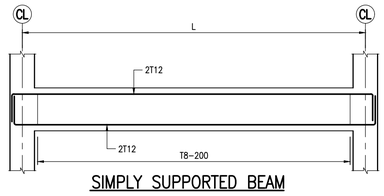
END SPAN BEAM [LHS] & [RHS]

GHB2 – (200x375)



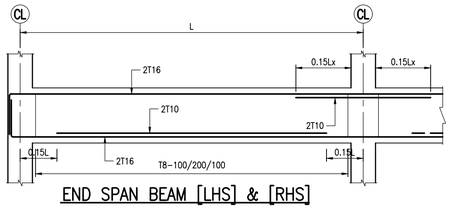
END SPAN BEAM [RHS]

GHB6, GHB7, GHB8, GHB9, GVB5 – (200x375)



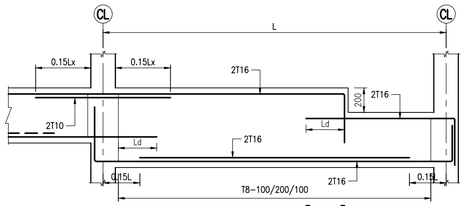
SIMPLY SUPPORTED BEAM

1HB1 – (200x450)



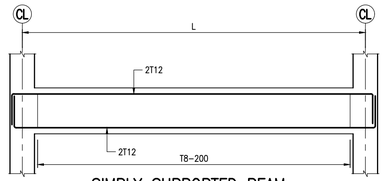
END SPAN BEAM [LHS] & [RHS]

1HB2 – (200x650/450)



END SPAN BEAM [RHS]

1HB6, 1HB8, 1VB4 – (200x375)



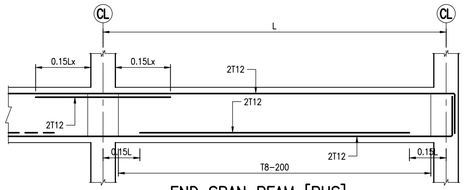
SIMPLY SUPPORTED BEAM

RHB1 – (200x450)



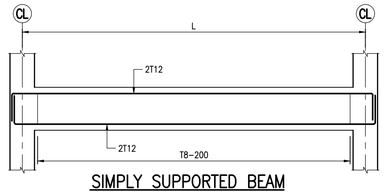
END SPAN BEAM [LHS] & [RHS]

RHB2 – (200x450)

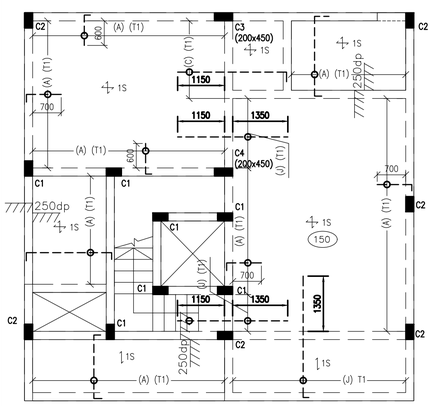


END SPAN BEAM [RHS]

RHB6, RHB8, RVB4 – (200x375)



SIMPLY SUPPORTED BEAM



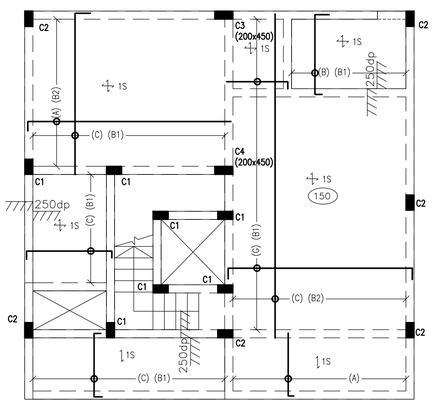
1st FLOOR SLAB DETAIL (LEFT SIDE VILLA)

SCALE 1:75

NOTES

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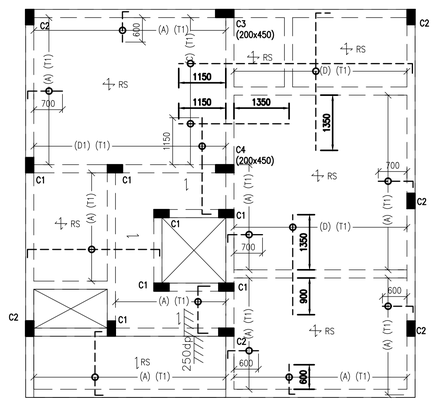
1st FLOOR SLAB DETAIL (LEFT SIDE VILLA)

SCALE 1:75

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ROOF FLOOR SLAB DETAIL (LEFT SIDE VILLA)

SCALE 1:75

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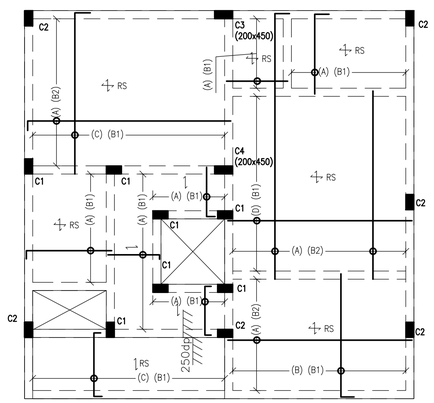
NOTES

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LEGEND:

TOP REINFORCEMENT

BOTTOM REINFORCEMENT



ROOF FLOOR SLAB DETAIL (LEFT SIDE VILLA)

SCALE 1:75

NOTES

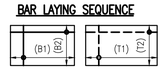
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REINFORCEMENT SCHEDULE

MARK	SIZE	SPACING
A	T8	200
B	T8	175
C	T8	150
D	T8	125
D1	T8	100
E	T10	200
F	T10	175
G	T10	150
H	T10	125
J	T10	100

BAR LAYING SEQUENCE



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DATE OF ISSUE

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BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUED AS A APPROVAL DRAWING	GUNA	19-12-2023

APPROVAL DRAWING

STRUCTURAL

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project title

PROPOSED RESIDENTIAL BUILDINGS (STILT + 5) CONSTRUCTION AT SURVEY NOS :221/14A1A3, 221/14A1A4,220/2A1B IN PERUMALERIVILLAGE, VADAKADAMPADIPANCHAYAT, THIRUKAZHUKUNDRAM TALUK, KANCHEEPURAM DISTRICT.

ZIVA PHASE-3 VILLA

drawing title

1ST FLOOR, ROOF FLOOR SLAB DETAIL
LEFT SIDE VILLA (TOP & BOTTOM REINFT.)

scale	1:100	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	DEC 2023	approved by	PJ
drawing no.	BEI---_S-/SB/01/LV/01	revision	_

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CAD FILE NAME: BEI---_S-SB01LV01_.dwg



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