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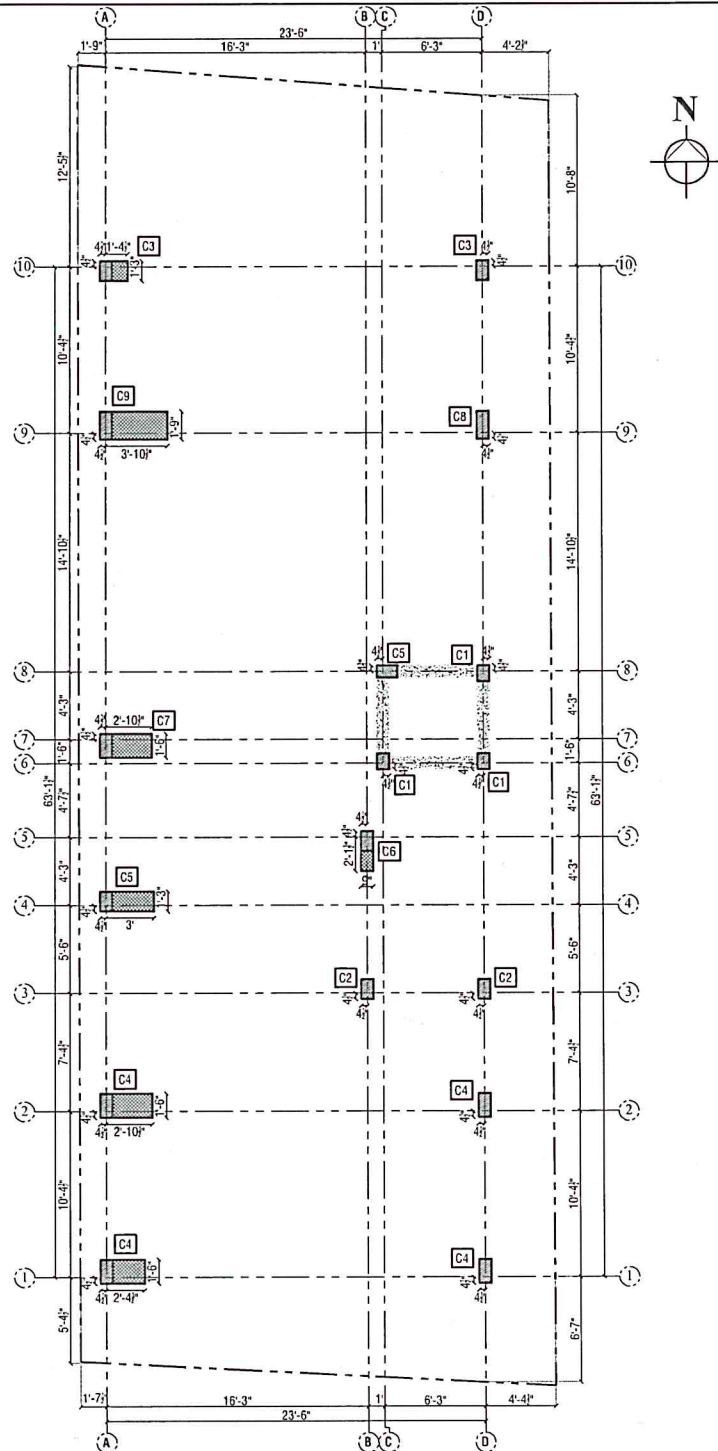
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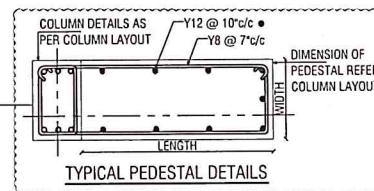




RCC COLUMN DETAIL

S No	Column No	Column Size	Column Reinforcement from Foundation to GF Roof Slab	Column Reinforcement from GF Roof to FF Roof Slab	Column Reinforcement from FF Roof to SF Roof Slab	Column Reinforcement from Roof to TF Roof Slab	S.No. of columns	Ties
1	C1	9" x 12"	6 - Y12 Y8 @ 7" c/c	6 - Y12 Y8 @ 7" c/c	4 - Y12 Y8 @ 7" c/c	4 - Y12 Y8 @ 7" c/c	3	
2	C2	9" x 15"	6 - Y12 Y8 @ 7" c/c	6 - Y12 Y8 @ 7" c/c	6 - Y12 Y8 @ 7" c/c	6 - Y12 Y8 @ 7" c/c	2	
3	C3	9" x 15"	6 - Y20 Y8 @ 7" c/c	6 - Y20 Y8 @ 7" c/c	6 - Y20 Y8 @ 7" c/c	6 - Y20 Y8 @ 7" c/c	2	
4	C4	9" x 18"	8 - Y20 + 2 - Y16 Y8 @ 7" c/c	8 - Y20 + 2 - Y16 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	4	
5	C5	9" x 15"	8 - Y16 Y8 @ 7" c/c	8 - Y16 Y8 @ 7" c/c	6 - Y16 Y8 @ 7" c/c	6 - Y16 Y8 @ 7" c/c	2	
6	C6	9" x 15"	4 - Y20 + 4 - Y16 Y8 @ 7" c/c	4 - Y20 + 4 - Y16 Y8 @ 7" c/c	8 - Y16 Y8 @ 7" c/c	8 - Y12 Y8 @ 7" c/c	1	
7	C7	9" x 18"	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	1	
8	C8	9" x 21"	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	8 - Y20 Y8 @ 7" c/c	1	
9	C9	9" x 21"	10 - Y20 Y8 @ 7" c/c	10 - Y20 Y8 @ 7" c/c	10 - Y20 Y8 @ 7" c/c	10 - Y20 Y8 @ 7" c/c	1	
TOTAL NO. OF COLUMNS							17	

Notes: Terminate Pedestal @ plinth lvl



A. N. MAGESH RAJA, M.E. (Structural Engineer)
REGISTERED STRUCTURAL ENGINEER
MEMBER OF THE INDIAN INSTITUTE OF STRUCTURAL ENGINEERS
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REVISIONS

No.	Description	Date	Sign
1	REVISED C3, C4, C5 & PEDESTALS	24.06.24	
2	FOR CONSTRUCTION	14.06.24	

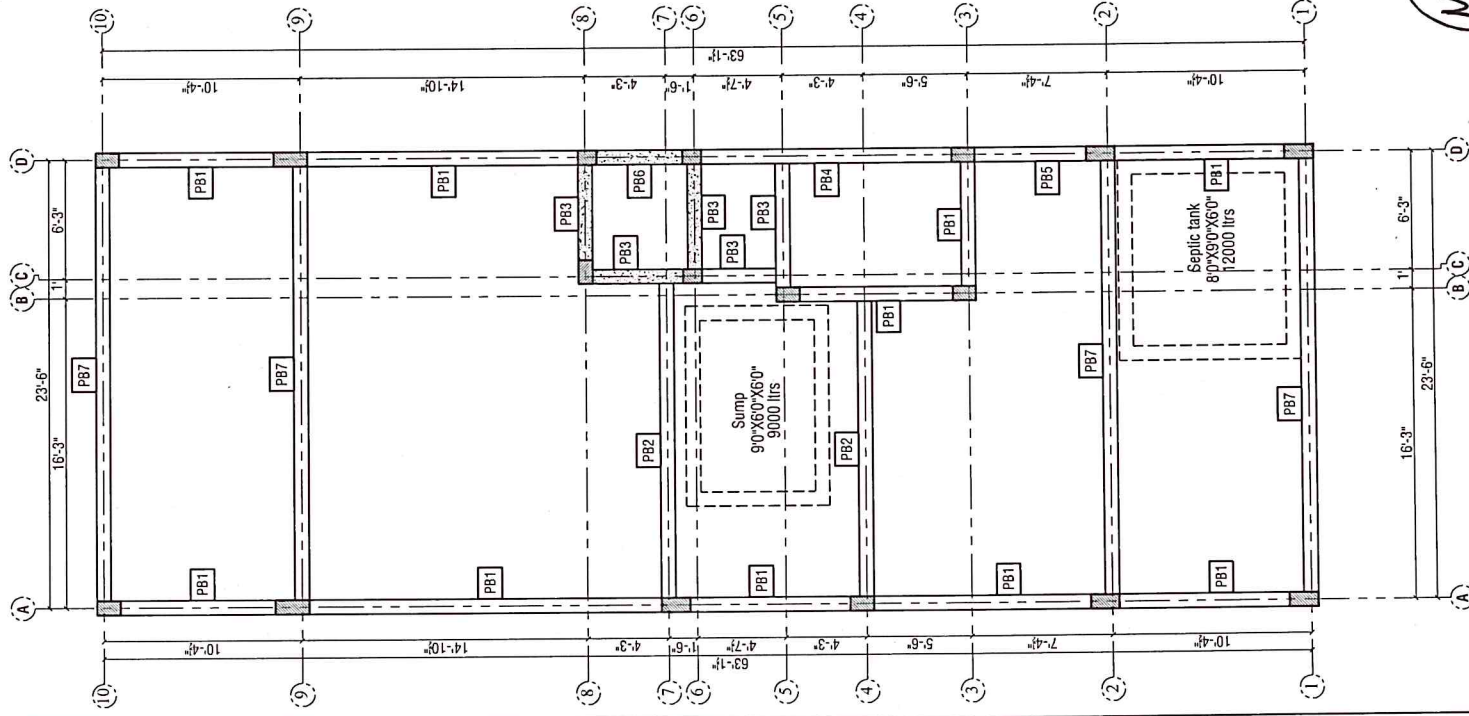
GOOD FOR CONSTRUCTION

PROJECT: RESIDENTIAL APARTMENT AT
LOCATION: PLOT 18, SECTOR 10, CHENNAI

COLUMN LAYOUT AND REINFORCEMENT DETAILS

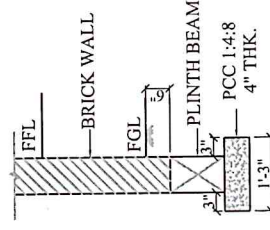
Drawn: BINDHU
Design & Checked: MAGESH

Size: A4 DWG No: DWG-PLOT 18-001



PLINTH BEAM DETAILS

S No	Beam No	Beam Size	C/S of Left End support	C/S of Mid span	C/S of Right End support
1	PB1	9" x 15"	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c
2	PB2	9" x 15"	2 - Y12 + 2 - Y12 • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 • Y8 @ 6"/c
3	PB3	9" x 15"	2 - Y12 • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 • Y8 @ 6"/c
4	PB4	9" x 15"	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c
5	PB5	9" x 15"	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c
6	PB6	9" x 15"	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 + 1 - Y12 (ext) • Y8 @ 6"/c
7	PB7	9" x 18"	2 - Y12 • Y8 @ 6"/c	2 - Y12 • Y8 @ 8"/c	2 - Y12 • Y8 @ 6"/c



TYPICAL WALL SECTION

Amresh

A.N.MAGESH RAJA, M.E., (Structural Engineer)

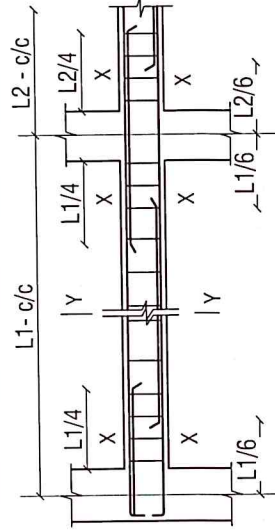
CHDAGCC REGISTERED STRUCTURAL ENGINEER GRADE-(RSE)

CMDA REG.No:SE/GR-I/2022/06325

GCC REG.No:RSE101432021

CELL:97870 72100

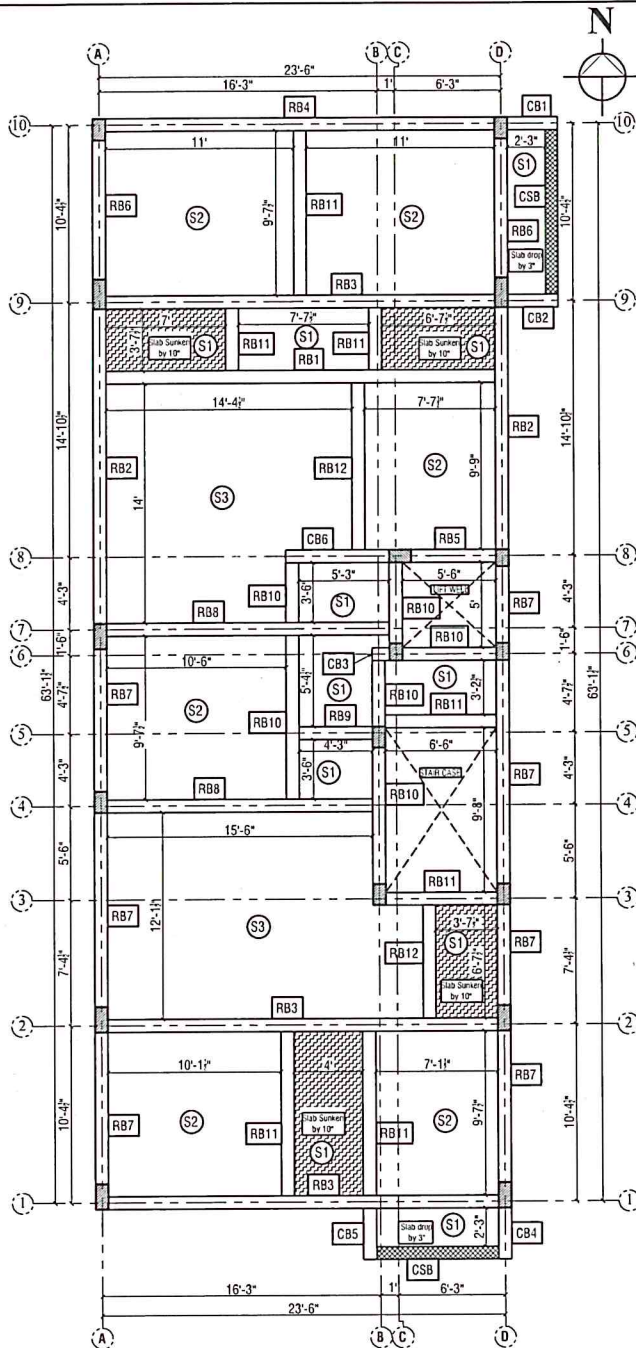
magiststructure@gmail.com



TYPICAL SECTION FOR BEAMS

RO	GOOD FOR CONSTRUCTION	16.05.24
Ref.	Description	Date
REVISIONS		
☐	Advance copy	☒ Good for construction
PLOT 1 to 9, 14 to 19- RESIDENTIAL APARTMENT AT KUNDRAATHUR		
PLINTH BEAM LAYOUT AND REINFORCEMENT DETAILS		
Per No. 3, magesh Palaniathan, Chennai - 600 044	Drawn	BINDHU
Design & Checked	Design	MAGESH
Size	A4	DWG No
DWG-TYPICAL-003		

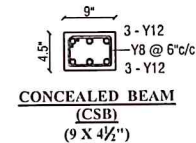
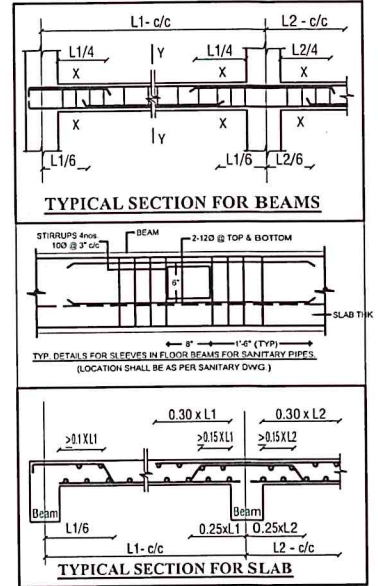
- NOTES
1. Reinforcement should be read along with the section drawings.
 2. All dimensions are in feet and inches.
 3. Y denotes bar go down conforming to IS 4550:2000.
 4. X denotes bar go up conforming to IS 4550:2000.
 5. 100% grade - 1:4:8.
 6. 100% grade - 1:4:8.
 7. 100% grade - 1:4:8.
 8. 100% grade - 1:4:8.
 9. 100% grade - 1:4:8.
 10. 100% grade - 1:4:8.
 11. Development length (L_d) for reinforcement bars in compression - 45d, in tension - 50d.



ROOF BEAM DETAILS

S No	Beam No	Beam Size	C/S of Left End support	C/S of Mid span	C/S of Right End support
1	RB1	9" x 24"	2 - Y16 Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16 + 3 - Y20 (ext) ●	2 - Y16 Y8 @ 6"c/c 2 - Y16
2	RB2	9" x 24"	2 - Y16 Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16 + 1 - Y16 (ext) ●	2 - Y16 + 1 - Y16 (ext) ● Y10 @ 4"c/c 2 - Y16
3	RB3	9" x 21"	2 - Y16 + 1 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16 + 2 - Y20 (ext) ●	2 - Y16 + 1 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y16
4	RB4	9" x 21"	2 - Y16 Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16 + 1 - Y20 (ext) ●	2 - Y16 + 1 - Y16 (ext) ● Y8 @ 6"c/c 2 - Y16
5	RB5	9" x 18"	2 - Y16 + 2 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16	2 - Y16 Y8 @ 6"c/c 2 - Y16
6	RB6	9" x 15"	2 - Y16 + 1 - Y16 (ext) ● Y8 @ 6"c/c 2 - Y12	2 - Y16 Y8 @ 8"c/c 2 - Y12	2 - Y16 Y8 @ 6"c/c 2 - Y12
7	RB7	9" x 15"	2 - Y16 Y8 @ 6"c/c 2 - Y12	2 - Y16 Y8 @ 8"c/c 2 - Y12	2 - Y16 Y8 @ 6"c/c 2 - Y12
8	RB8	9" x 15"	2 - Y16 + 1 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16 + 1 - Y20 (ext) ●	2 - Y16 Y8 @ 6"c/c 2 - Y16
9	RB9	9" x 15"	2 - Y16 Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16	2 - Y16 + 1 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y16
10	RB10	9" x 15"	2 - Y16 Y8 @ 6"c/c 2 - Y16	2 - Y16 Y8 @ 8"c/c 2 - Y16	2 - Y16 Y8 @ 6"c/c 2 - Y16
11	RB11	9" x 15"	2 - Y12 Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y12 (ext) ●	2 - Y12 Y8 @ 6"c/c 2 - Y12
12	RB12	9" x 15"	2 - Y12 Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y16 (ext) ●	2 - Y12 Y8 @ 6"c/c 2 - Y12

13	CB1	9" x 21"	3 - Y16 Y8 @ 6"c/c 2 - Y16
14	CB2	9" x 21"	2 - Y16 + 1 - Y20 ● Y8 @ 6"c/c 2 - Y16
15	CB3	9" x 15"	2 - Y16 Y8 @ 6"c/c 2 - Y16
16	CB4	9" x 15"	2 - Y16 Y8 @ 6"c/c 2 - Y12
17	CB5	9" x 15"	2 - Y12 Y8 @ 6"c/c 2 - Y12
18	CB6	9" x 18"	2 - Y16 + 2 - Y20 ● Y8 @ 6"c/c 2 - Y16



SLAB DETAIL

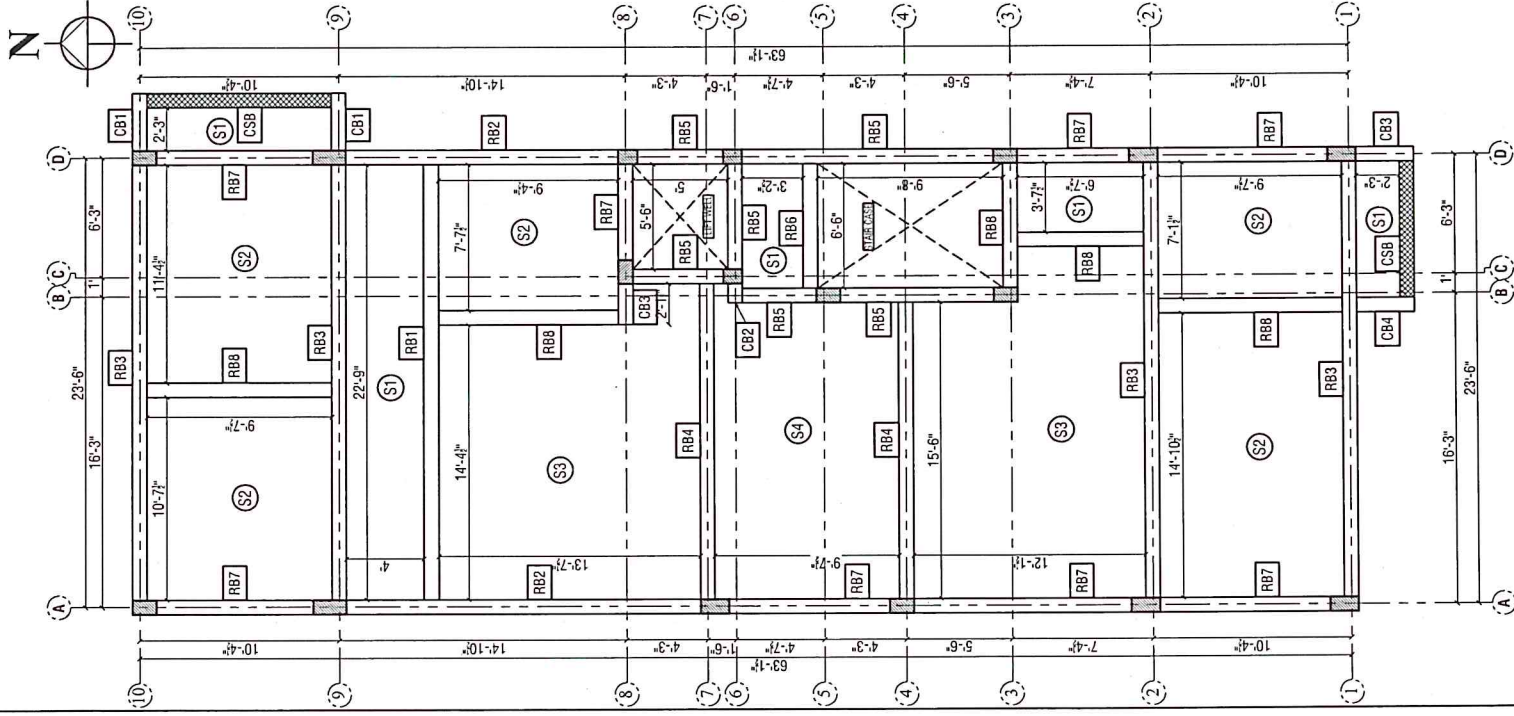
S1 - Y8 @ 8"c/c (4 1/2" Thk. Slab) - TOP & BOTTOM MAT
S2 - Y8 @ 8"c/c (4 1/2" Thk. Slab) - TWO WAY
S3 - Y8 @ 5"c/c (6" Thk. Slab) - Shorter Span
- Y8 @ 8"c/c - Longer Span- TWO WAY

A.N.MAGESH RAJA, M.E., (Structural Engineer)
CMDA/GCC REGISTERED STRUCTURAL ENGINEER GRADE-(RSE)
CMDA REG.No:SE/GR-I/2022/06/325
GCC REG.No:RSE101432021
CELL:97870 72100
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GENERAL NOTES

- This drawing should be read along with architectural drawings.
- Grade of concrete shall be (M20 GR.) design mix conforming to IS 456:2000.
- Y denotes for SD steel conforming to IS 1786 - 1986, grade - Fe550.
- Clear cover to the main steel.
- (a). Beam - 1". (b) Slab - 1/2".
- Lap length shall be 50d (max dia.) for all bars.
- Not more than 40% of reinforcement shall be lapped at any particular junction.
- Spacer bar to be provided in between two layers of reinforcement of same dia at every 1000 c/c.
- All dimensions are in feet and inches.
- Development length (Ld) for reinforcement bars in compression - 45d, in tension - 60d

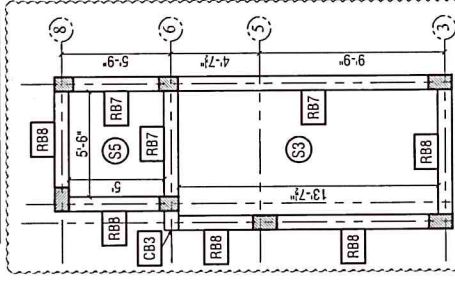
Rev.	Description	Date	Sign
1	FOR CONSTRUCTION	11.05.24	
REVISIONS			
☐ Advance copy ☒ Good for construction			
PLOT 1 to 9, 14 to 19- RESIDENTIAL APARTMENT AT KUNDRAITHUR			
TYPICAL ROOF BEAM LAYOUT AND REINFORCEMENT DETAILS (STILT, FIRST & SECOND)			
		Drawn BINDHU	Design & Checked MAGESH
Size	A4	DWG No	DWG-TYPICAL-004



ROOF BEAM DETAILS

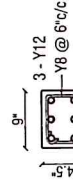
S No	Beam No	Beam Size	C/S of Left End support	C/S of Mid span	C/S of Right End support
1	RB1	9" x 24"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y16 Y8 @ 6"c/c
2	RB2	9" x 24"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y16 Y8 @ 6"c/c
3	RB3	9" x 21"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y16 Y8 @ 6"c/c
4	RB4	9" x 15"	2 - Y16 + 1 - Y16 (ext) Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y16 Y8 @ 6"c/c
5	RB5	9" x 15"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y16 Y8 @ 6"c/c
6	RB6	9" x 15"	2 - Y12 Y8 @ 6"c/c	2 - Y12 Y8 @ 8"c/c	2 - Y12 Y8 @ 6"c/c
7	RB7	9" x 12"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 8"c/c	2 - Y12 Y8 @ 6"c/c
8	RB8	9" x 12"	2 - Y12 Y8 @ 6"c/c	2 - Y12 Y8 @ 8"c/c	2 - Y12 Y8 @ 6"c/c
9	CB1	9" x 18"	2 - Y16 + 1 - Y20 Y8 @ 6"c/c	2 - Y16 Y8 @ 6"c/c	2 - Y12 + 1 - Y12 (ext) Y8 @ 6"c/c
10	CB2	9" x 15"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 6"c/c
11	CB3	9" x 12"	2 - Y16 Y8 @ 6"c/c	2 - Y16 Y8 @ 6"c/c	2 - Y12 Y8 @ 6"c/c
12	CB4	9" x 12"	2 - Y12 Y8 @ 6"c/c	2 - Y12 Y8 @ 6"c/c	2 - Y12 Y8 @ 6"c/c

HEADROOM BEAM LAYOUT

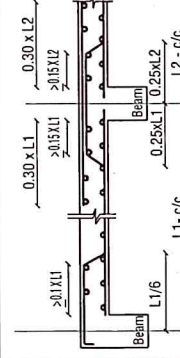


SLAB DETAIL

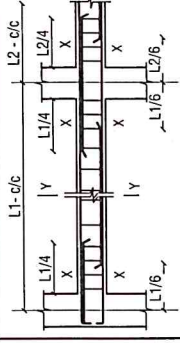
S1 - Y8 @ 8"c/c (4 1/2" Thk. Slab) - TOP & BOTTOM MAT
S2 - Y8 @ 8"c/c (4 1/2" Thk. Slab) - TWO WAY
S3 - Y8 @ 5"c/c (6" Thk. Slab) - Shorter Span
S4 - Y8 @ 6"c/c (4 1/2" Thk. Slab) - Shorter Span
S5 - Y10 @ 6"c/c (6" Thk. Slab) - TOP & BOTTOM MAT



CONCEALED BEAM (CSB) (9" x 4 1/2")



TYPICAL SECTION FOR SLAB



TYPICAL SECTION FOR BEAMS

Signature

A.N. MACESH RAJA, M.E., Structural Engineer

CHONGGC REGISTERED STRUCTURAL ENGINEER (P) 1000-0000

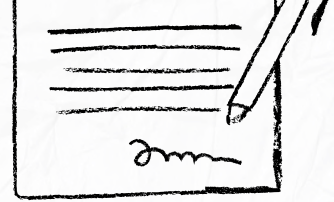
CMDA REG. NO: SE/1000-0000

GCC REG. NO: RST/1000-0000

APARTMENT KUNDATHUR

REINFORCEMENT DETAILS

Project No.	11.05.24
Date	11.05.24
Sign	
Drawn	BIIDHU
Design	MAGESH
Checked	
Size	A4
DWG No	DWG-TYPICAL-005



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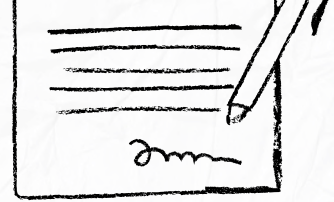
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