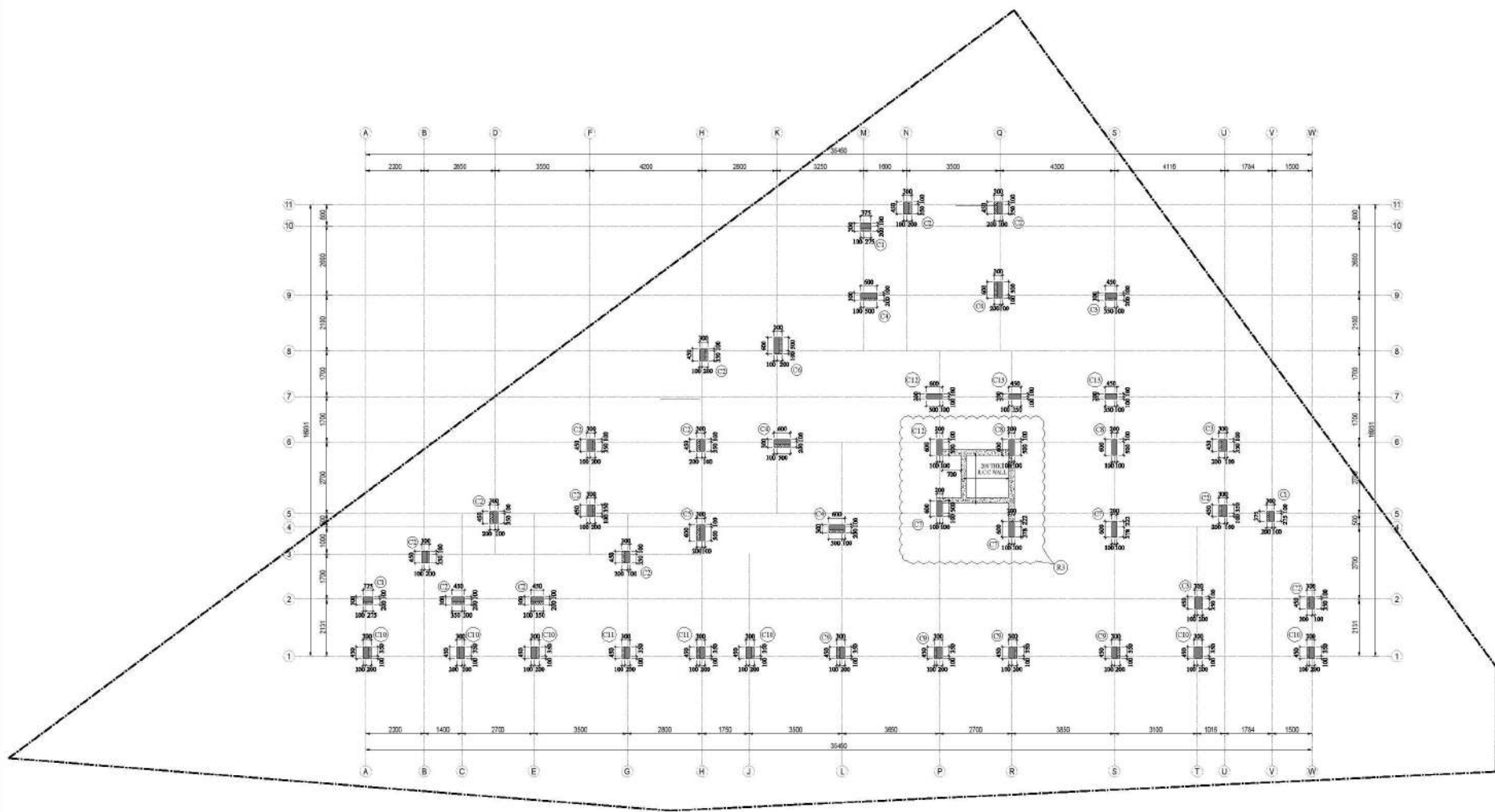




- GENERAL NOTES :**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Steel Grade - For Fe-500
 - 4) Clear cover : Footings - 50,
R.c.c Wall - 25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
Slab - 20
 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 300 intervals
 - 7) The column center should coincide
with center of footing
 - 8) The column & foundation are designed for
Bolt + 4 floors only.
 - 9) Do not scale this drawing and follow
architectural drawing dimensions only
 - 10) No changes shall be made without the
consent of the structural consultant.

GOOD FOR CONSTRUCTION

REVISION	DATE	BY
R1	20-12-2023	VC
R2	10-11-2023	VC
R3	10-11-2023	VC
R4	10-11-2023	VC
R5	10-11-2023	VC
R6	10-11-2023	VC
R7	10-11-2023	VC
R8	10-11-2023	VC
R9	10-11-2023	VC
R10	10-11-2023	VC
R11	10-11-2023	VC
R12	10-11-2023	VC
R13	10-11-2023	VC
R14	10-11-2023	VC
R15	10-11-2023	VC
R16	10-11-2023	VC
R17	10-11-2023	VC
R18	10-11-2023	VC
R19	10-11-2023	VC
R20	10-11-2023	VC
R21	10-11-2023	VC
R22	10-11-2023	VC
R23	10-11-2023	VC
R24	10-11-2023	VC
R25	10-11-2023	VC
R26	10-11-2023	VC
R27	10-11-2023	VC
R28	10-11-2023	VC
R29	10-11-2023	VC
R30	10-11-2023	VC
R31	10-11-2023	VC
R32	10-11-2023	VC
R33	10-11-2023	VC
R34	10-11-2023	VC
R35	10-11-2023	VC
R36	10-11-2023	VC
R37	10-11-2023	VC
R38	10-11-2023	VC
R39	10-11-2023	VC
R40	10-11-2023	VC
R41	10-11-2023	VC
R42	10-11-2023	VC
R43	10-11-2023	VC
R44	10-11-2023	VC
R45	10-11-2023	VC
R46	10-11-2023	VC
R47	10-11-2023	VC
R48	10-11-2023	VC
R49	10-11-2023	VC
R50	10-11-2023	VC
R51	10-11-2023	VC
R52	10-11-2023	VC
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R54	10-11-2023	VC
R55	10-11-2023	VC
R56	10-11-2023	VC
R57	10-11-2023	VC
R58	10-11-2023	VC
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R60	10-11-2023	VC
R61	10-11-2023	VC
R62	10-11-2023	VC
R63	10-11-2023	VC
R64	10-11-2023	VC
R65	10-11-2023	VC
R66	10-11-2023	VC
R67	10-11-2023	VC
R68	10-11-2023	VC
R69	10-11-2023	VC
R70	10-11-2023	VC
R71	10-11-2023	VC
R72	10-11-2023	VC
R73	10-11-2023	VC
R74	10-11-2023	VC
R75	10-11-2023	VC
R76	10-11-2023	VC
R77	10-11-2023	VC
R78	10-11-2023	VC
R79	10-11-2023	VC
R80	10-11-2023	VC
R81	10-11-2023	VC
R82	10-11-2023	VC
R83	10-11-2023	VC
R84	10-11-2023	VC
R85	10-11-2023	VC
R86	10-11-2023	VC
R87	10-11-2023	VC
R88	10-11-2023	VC
R89	10-11-2023	VC
R90	10-11-2023	VC
R91	10-11-2023	VC
R92	10-11-2023	VC
R93	10-11-2023	VC
R94	10-11-2023	VC
R95	10-11-2023	VC
R96	10-11-2023	VC
R97	10-11-2023	VC
R98	10-11-2023	VC
R99	10-11-2023	VC
R100	10-11-2023	VC

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS:
AR+D
ART & DESIGN ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A 4 STOREY BUILDING AT
HOUSING SOCIETY, HOUSING SOCIETY.

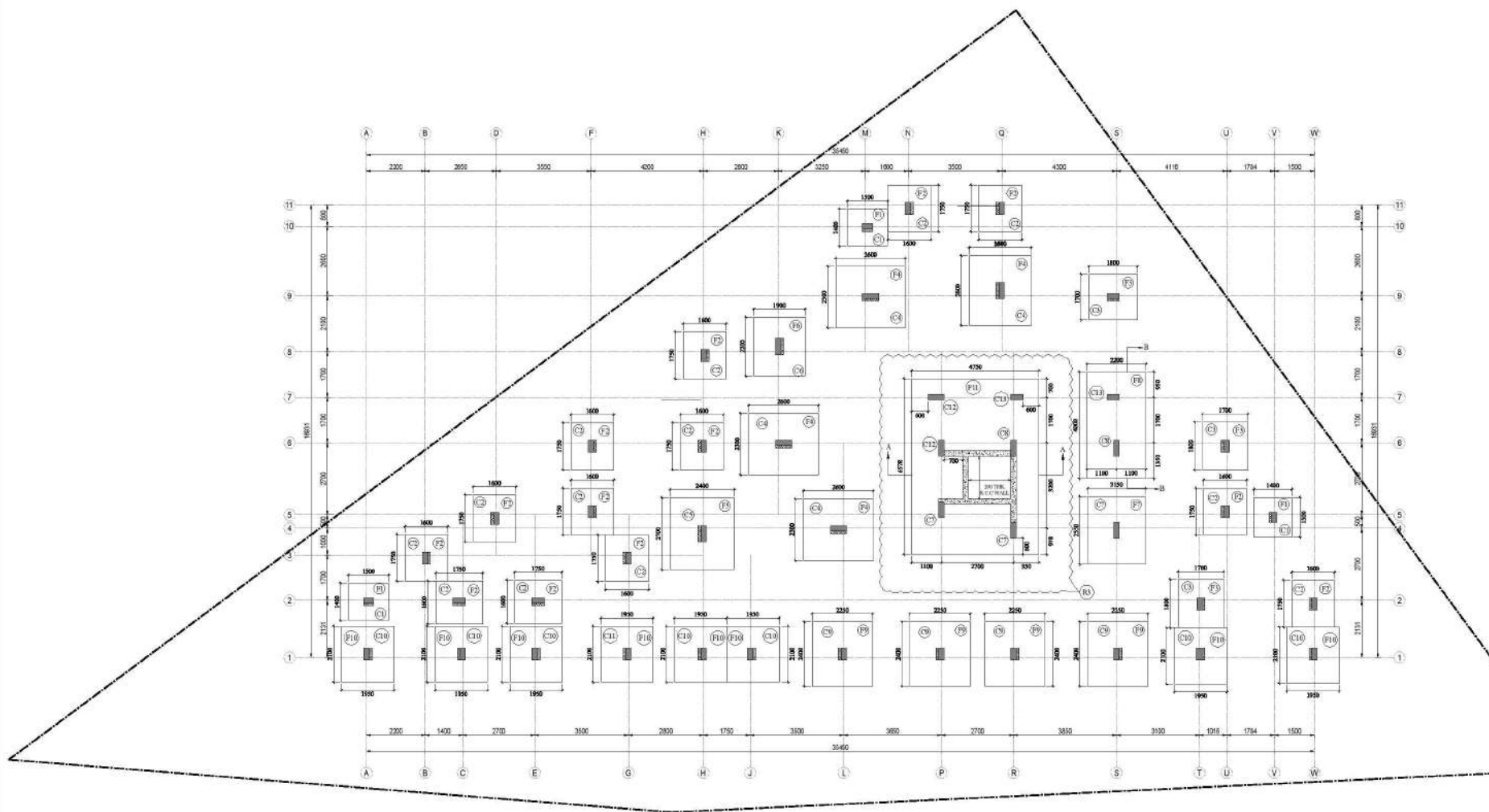
DRAWING TITLE:
COLUMN & BEAM LAYOUT

STRUCTURAL CONSULTANT:

AKR
B. S. ARUNKUMAR, M.E. (Structural) M.L.E.,
Chartered Civil Engineer (M-165213-8)
DTC Regn. No. CGLDST / SEGR-1202511/012
No. 10, 2nd Sector, 9th Street,
K.K. Nagar, Chennai - 600 078.

SCALE: 1:10
SHEET SIZE: A1
APPROVED BY: [Signature]

E. R. Arunkumar
E. R. ARUNKUMAR, M.E. (Structural) M.L.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
DTC Regn. No. CGLDST / SEGR-1202511/012
No. 10, 2nd Sector, 9th Street,
K.K. Nagar, Chennai - 600 078.



- GENERAL NOTES :**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Minimum Cement content - 140kg/m³
 - 4) Steel Grade - For Fe-500
 - 5) Clear cover - Footings=50,
R.c.c Wall = 25,
Column Cover To The Main
Reinforcement = 40,
Beam = 25,
Slab = 20
 - 6) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 7) Provide space bar at every 300 intervals
 - 8) The column center should coincide with center of footing
 - 9) The column & foundation are designed for 4th + 4 floors only.
 - 10) Do not scale this drawing and follow architectural drawing dimensions only
 - 11) No changes shall be made without the consent of the structural consultant.

GOOD FOR CONSTRUCTION

REVISION	DATE	BY
1. LIFT SIZE REDRAWN	20-12-2023	VC
2. CLOURED PORTION REWORK	19-12-2023	VC
3. GENERALLY REWORK	10-11-2023	VC
4. DESCRIPTION	01-11-2023	VC

DRAWING NO. : 6736-ST-S-02 DATE: 05-11-2023

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
AR+D
ARCHITECTS

PROJECT TITLE
PROPOSED CONSTRUCTION OF
A 4 STOREY BUILDING AT
HOUSING SOCIETY, HOUSING SOCIETY

DRAWING TITLE
FOUNDATION LAYOUT

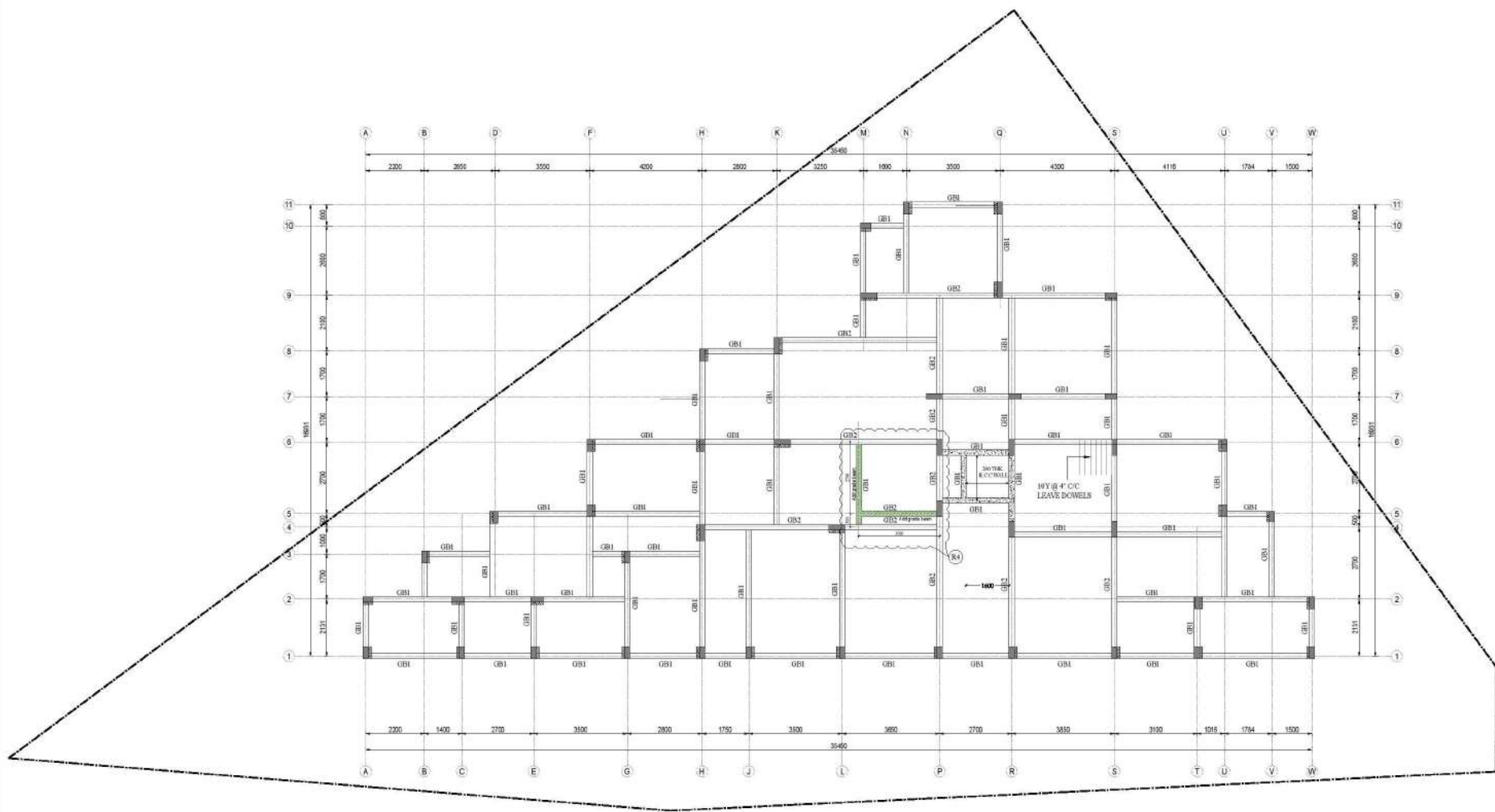
STRUCTURAL CONSULTANT:
AKR
ENGINEERS

PROJECT ADDRESS:
HOUSING SOCIETY,
HOUSING SOCIETY,
HOUSING SOCIETY,
HOUSING SOCIETY

SCALE : 1/10
SHEET SIZE : A1

DRAWN BY : VVC
CHECKED BY : VVC
APPROVED BY : VVC

E.R. Arunkumar
E.R. ARUNKUMAR, M.E. (Structural) M.L.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTC Regn.No.CGLDIST / SE/GR-1202511/012
No. 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



- GENERAL NOTES :**
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 - 2) Concrete Grade - M25
 - 3) Steel Grade - Fe-500
 - 4) Clear cover : Footings-50,
R.c.c Wall - 25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
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 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 300 intervals
 - 7) The column center should coincide
with center of footing.
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Bolt + 4 floors only.
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architectural drawing dimensions only.
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consent of the structural consultant.

GOOD FOR CONSTRUCTION

REVISION	DATE	BY	REASON
R1	20-12-2023	W	1st CORR. DESIGN
R2	10-12-2023	W	2nd CORR. DESIGN
R3	10-12-2023	W	3rd CORR. DESIGN
R4	10-12-2023	W	4th CORR. DESIGN
R5	10-12-2023	W	5th CORR. DESIGN
R6	10-12-2023	W	6th CORR. DESIGN
R7	10-12-2023	W	7th CORR. DESIGN
R8	10-12-2023	W	8th CORR. DESIGN
R9	10-12-2023	W	9th CORR. DESIGN
R10	10-12-2023	W	10th CORR. DESIGN
R11	10-12-2023	W	11th CORR. DESIGN
R12	10-12-2023	W	12th CORR. DESIGN
R13	10-12-2023	W	13th CORR. DESIGN
R14	10-12-2023	W	14th CORR. DESIGN
R15	10-12-2023	W	15th CORR. DESIGN
R16	10-12-2023	W	16th CORR. DESIGN
R17	10-12-2023	W	17th CORR. DESIGN
R18	10-12-2023	W	18th CORR. DESIGN
R19	10-12-2023	W	19th CORR. DESIGN
R20	10-12-2023	W	20th CORR. DESIGN
R21	10-12-2023	W	21th CORR. DESIGN
R22	10-12-2023	W	22th CORR. DESIGN
R23	10-12-2023	W	23th CORR. DESIGN
R24	10-12-2023	W	24th CORR. DESIGN
R25	10-12-2023	W	25th CORR. DESIGN
R26	10-12-2023	W	26th CORR. DESIGN
R27	10-12-2023	W	27th CORR. DESIGN
R28	10-12-2023	W	28th CORR. DESIGN
R29	10-12-2023	W	29th CORR. DESIGN
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R31	10-12-2023	W	31th CORR. DESIGN
R32	10-12-2023	W	32th CORR. DESIGN
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R34	10-12-2023	W	34th CORR. DESIGN
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R47	10-12-2023	W	47th CORR. DESIGN
R48	10-12-2023	W	48th CORR. DESIGN
R49	10-12-2023	W	49th CORR. DESIGN
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R51	10-12-2023	W	51th CORR. DESIGN
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R60	10-12-2023	W	60th CORR. DESIGN
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R63	10-12-2023	W	63th CORR. DESIGN
R64	10-12-2023	W	64th CORR. DESIGN
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R66	10-12-2023	W	66th CORR. DESIGN
R67	10-12-2023	W	67th CORR. DESIGN
R68	10-12-2023	W	68th CORR. DESIGN
R69	10-12-2023	W	69th CORR. DESIGN
R70	10-12-2023	W	70th CORR. DESIGN
R71	10-12-2023	W	71th CORR. DESIGN
R72	10-12-2023	W	72th CORR. DESIGN
R73	10-12-2023	W	73th CORR. DESIGN
R74	10-12-2023	W	74th CORR. DESIGN
R75	10-12-2023	W	75th CORR. DESIGN
R76	10-12-2023	W	76th CORR. DESIGN
R77	10-12-2023	W	77th CORR. DESIGN
R78	10-12-2023	W	78th CORR. DESIGN
R79	10-12-2023	W	79th CORR. DESIGN
R80	10-12-2023	W	80th CORR. DESIGN
R81	10-12-2023	W	81th CORR. DESIGN
R82	10-12-2023	W	82th CORR. DESIGN
R83	10-12-2023	W	83th CORR. DESIGN
R84	10-12-2023	W	84th CORR. DESIGN
R85	10-12-2023	W	85th CORR. DESIGN
R86	10-12-2023	W	86th CORR. DESIGN
R87	10-12-2023	W	87th CORR. DESIGN
R88	10-12-2023	W	88th CORR. DESIGN
R89	10-12-2023	W	89th CORR. DESIGN
R90	10-12-2023	W	90th CORR. DESIGN
R91	10-12-2023	W	91th CORR. DESIGN
R92	10-12-2023	W	92th CORR. DESIGN
R93	10-12-2023	W	93th CORR. DESIGN
R94	10-12-2023	W	94th CORR. DESIGN
R95	10-12-2023	W	95th CORR. DESIGN
R96	10-12-2023	W	96th CORR. DESIGN
R97	10-12-2023	W	97th CORR. DESIGN
R98	10-12-2023	W	98th CORR. DESIGN
R99	10-12-2023	W	99th CORR. DESIGN
R100	10-12-2023	W	100th CORR. DESIGN

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS:
AR+D
ART+D ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A 10000 SQ. FT. BLDG. AT
HOUSING SOCIETY, HOUSING SOCIETY.

DRAWING TITLE:
GRADE 1 PLAN

STRUCTURAL CONSULTANT:
AKR
AKR CONSULTANTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A 10000 SQ. FT. BLDG. AT
HOUSING SOCIETY, HOUSING SOCIETY.

SCALE:
1:100

SHEET NO.: 41

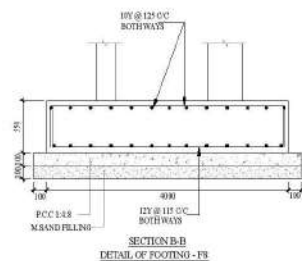
APPROVED BY: [Signature]

E. R. ARUNKUMAR, M.E. (Structural) M.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTC Regn. No. CGLDIST / SE/GR-1202511/012
No. 10, 2nd Sector, 9th Street,
K.K. Nagar, Chennai - 600 078.

COLUMN DETAILS					
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C1	100 x 375 Sub floor		• 6-12Y • 3-12Y		RY @ 150C/C
	100 x 375 Upper floors		• 6-12Y		
C2	100 x 450 Sub floor		• 6-12Y • 3-12Y		RY @ 150C/C
	100 x 450 Upper floors		• 6-12Y		
C3	100 x 450 Sub floor		• 6-16Y • 3-12Y		RY @ 150C/C
	100 x 450 First floor		• 6-16Y		
	100 x 450 Second floor		• 6-16Y • 6-12Y		
	100 x 450 Upper floors		• 6-12Y		
C4	100 x 600 Sub floor		• 10-16Y • 6-12Y		RY @ 150C/C
	100 x 600 First floor		• 10-16Y		
	100 x 600 Second floor		• 6-16Y • 6-12Y		
	100 x 600 Upper floors		• 10-12Y		
C5	100 x 600 Sub floor		• 4-20Y • 6-16Y		RY @ 150C/C
	100 x 600 First floor		• 4-20Y • 6-12Y		

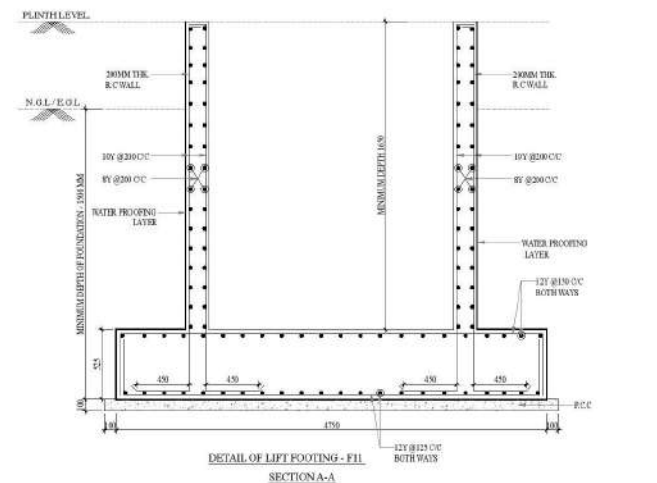
COLUMN DETAILS					
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C5	200 x 600 Sub floor		• 4-20Y • 6-16Y		RY @ 150C/C
	200 x 600 First floor		• 4-20Y • 6-12Y		
C6	200 x 600 Sub floor		• 10-16Y • 3-12Y		RY @ 150C/C
	200 x 600 First floor		• 10-12Y		
C7	200 x 600 Sub floor		• 10-20Y • 6-16Y		RY @ 150C/C
	200 x 600 First floor		• 10-16Y		
	200 x 600 Second floor		• 10-16Y		
	200 x 600 Upper floors		• 10-12Y		
C8	200 x 600 Sub floor		• 10-16Y • 6-12Y		RY @ 150C/C
	200 x 600 First floor		• 10-12Y		

COLUMN DETAILS					
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C9	300 x 450 Sub floor		• 4-20Y • 6-16Y		RY @ 150C/C
	300 x 450 First floor		• 4-20Y • 6-12Y		
C10	300 x 450 Sub floor		• 8-20Y • 3-16Y		RY @ 150C/C
	300 x 450 First floor		• 8-20Y		
C11	300 x 450 Sub floor		• 8-16Y • 3-16Y		RY @ 150C/C
	300 x 450 First floor		• 8-16Y		
	300 x 450 Second floor		• 4-16Y • 6-12Y		
	300 x 450 Upper floors		• 8-12Y		

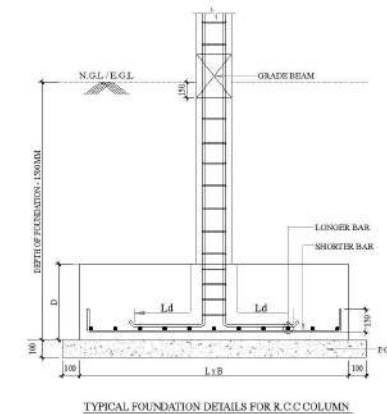


COLUMN DETAILS					
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C12	200 x 600 Sub floor		• 6-16Y • 6-12Y		RY @ 150C/C
	200 x 600 Upper floors		• 10-12Y		
C13	200 x 450 Sub floor		• 4-16Y • 6-12Y		RY @ 150C/C
	200 x 450 Upper floors		• 8-12Y		

FOOTING DETAILS					
TYPE	SIZE LxB	D	REINFORCEMENT		
			BOTTOM		
			SHORTER	LONGER	
F1	1500 x 1400	375	10Y @ 150C/C	10Y @ 150C/C	
F2	1750 x 1600	450	10Y @ 150C/C	10Y @ 150C/C	
F3	1850 x 1700	475	10Y @ 125C/C	10Y @ 125C/C	
F4	2600 x 2300	600	12Y @ 115C/C	12Y @ 115C/C	
F5	2700 x 2400	625	12Y @ 115C/C	12Y @ 115C/C	
F6	2200 x 1900	525	10Y @ 100C/C	10Y @ 100C/C	
F7	2550 x 2150	600	12Y @ 115C/C	12Y @ 115C/C	
F8	4000 x 2200	550	DETAILED SEPARATELY		
F9	2400 x 2250	575	12Y @ 115C/C	12Y @ 115C/C	
F10	2100 x 1950	500	10Y @ 100C/C	10Y @ 100C/C	
F11	6578 x 4750 (LIFT)	525	12Y @ 125C/C AT BOTTOM	12Y @ 150C/C AT TOP	



GRADE BEAM DETAILS					
TYPE	SIZE BxD	AT MIDSPAN		AT SUPPORT	
GB1	200x375		2-12Y 8Y@200C/C 2-12Y+1-16Y		2-12Y+1-16Y 8Y@150C/C 2-12Y+1-16Y
	200x450		2-12Y 8Y@200C/C 2-15Y+1-12Y		2-12Y+1-16Y 8Y@150C/C 2-15Y+1-12Y



GENERAL NOTES :

- All dimensions are in Millimeters.
- Concrete Grade - M25
- Minimum Cement content - 140kg/m³
- Steel Grade - For Fe-500
- Clear cover - Footings - 50, R.C.C. Wall - 25, Column Cover To The Main Reinforcement - 40, Beam - 25, Slab - 20
- Lap length
- Compression (Columns) : 45 Ø
- Tension (Beams & Slab) : 57 Ø
- Provide space bar at every 100mm intervals
- The column center should coincide with center of footing
- The column & foundation are designed for Sub - 4 floors only.
- Do not scale this drawing and follow architectural drawing dimensions only.
- No changes shall be made without the consent of the structural consultant.

GOOD FOR CONSTRUCTION

Dr. R. ARUNKUMAAR, M.E. (Structural), M.I.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-B)
DTCP Regn. No. CGLDIST / SE/GR-1/2025/11/012
No. 10, 2nd Sector, 9th Street,
K.K. Nagar, Chennai - 600 078.

REV	DESCRIPTION	BY	DATE
1	ISSUED FOR PERMIT	AR	05-11-2025
2	FOR CONSTRUCTION	AR	05-11-2025

M/s. S.R. and Co.
HOD/SA,
AR+D
ART & D ARCHITECTS
B-11, 1ST FLOOR, K.K. Nagar, Chennai - 600 078

PROJECT TITLE
PROPOSED CONSTRUCTION OF
A 4-STOREY BUILDING AT
K.K. Nagar, Chennai - 600 078.

DRAWING TITLE
COLUMN & FOUNDATION & GRADE BEAM DETAILS

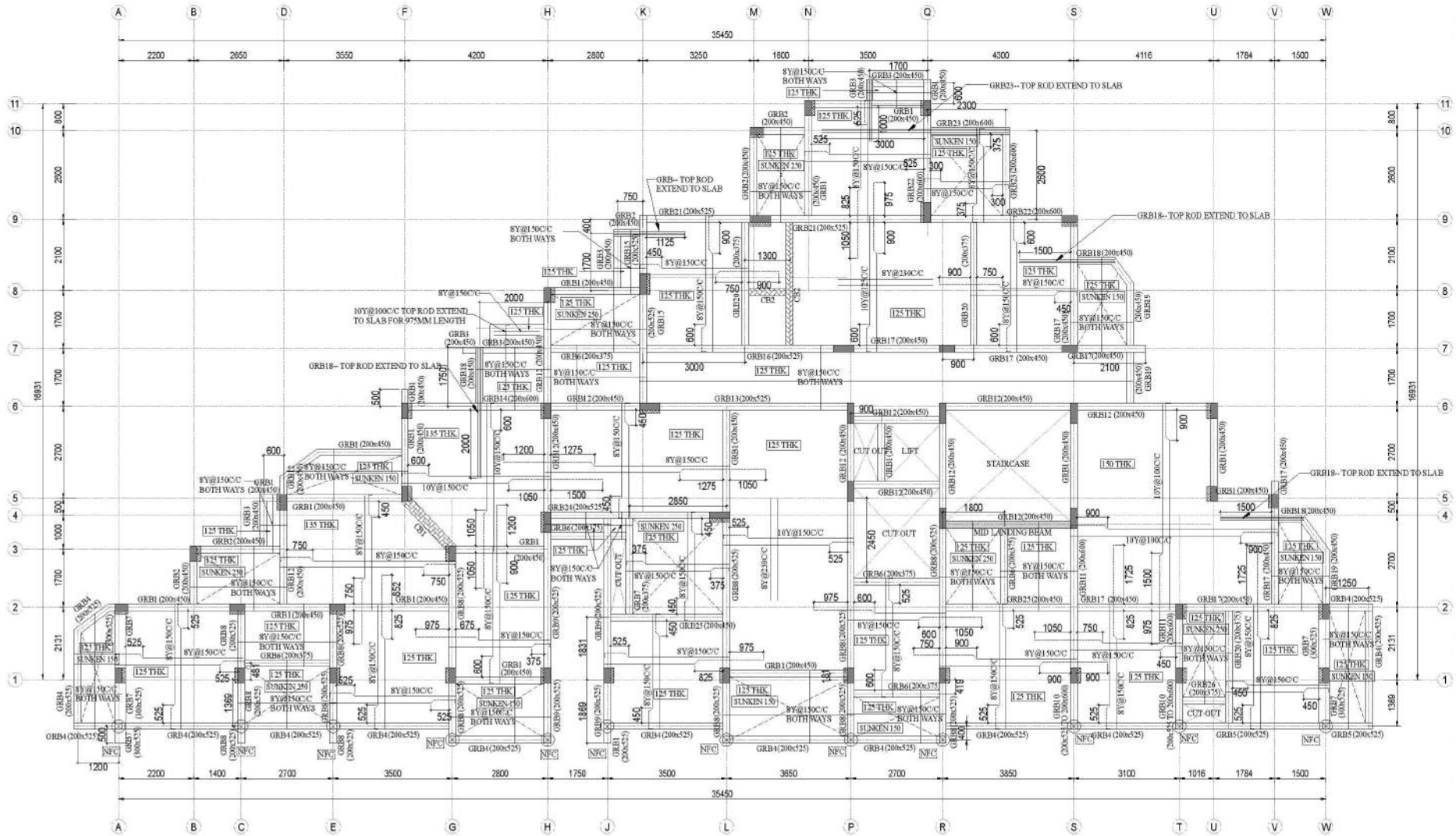
STRUCTURAL CONSULTANT
AKR
B-11, 1ST FLOOR, K.K. Nagar, Chennai - 600 078
ARCHITECTS
60-12, 1ST FLOOR,
2ND CROSS STREET,
CHENNAI - 600 078
Email: ar+@srrandco.com
Phone: +91 9884133262

SCALE
SHEET NO. 42
DRAWN BY: AR
CHECKED BY: AR
APPROVED BY: AR

IR. S. M. 7

Dr. IRARUNKUMAAR, M.E. (Structural), M.I.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-B)
DTCP Regn. No. CCLD/ST / SE/GR-1/2025/11012
No. 10, 2nd Sector, 9th Street,
KK Nagar, Chennai - 600 078

- GENERAL NOTES:**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade = M25
 - 3) Steel Grade: For Fe-500
 - 4) Clear cover: Footings=50,
R.C.C Wall = 25,
Column Cover To The Main Reinforcement = 40,
Beam = 25,
Slab = 20
 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 100mm intervals
 - 7) The column center should coincide with center of footing.
 - 8) The column & foundation are designed for Earthquake only.
 - 9) Do not scale this drawing and follow architectural drawing dimensions only.
 - 10) No changes shall be made without the consent of the structural consultant.
- GOOD FOR CONSTRUCTION**



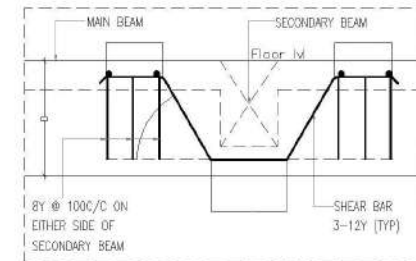
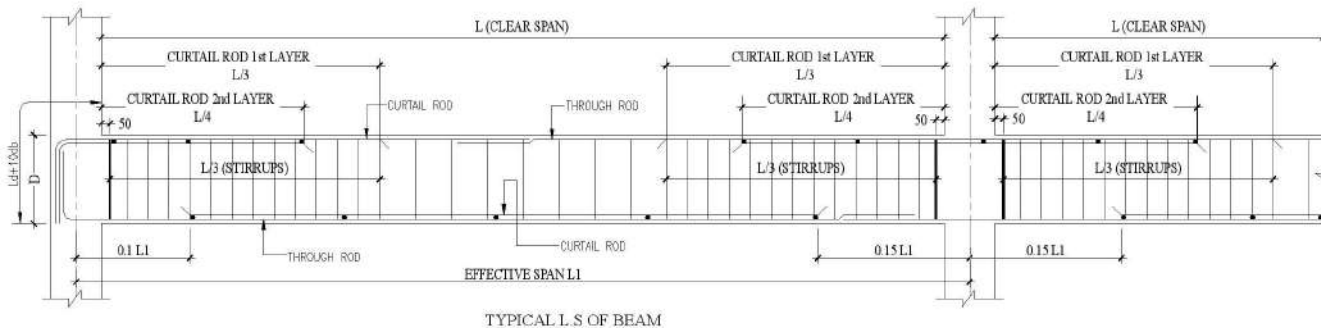
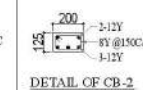
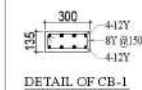
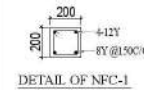
GROUND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB1	200x450		
GRB2	200x450		
GRB3	200x450		
GRB4	200x525		
GRB5	200x525		
GRB6	200x375		
GRB7	300x525		

GROUND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB8	200x525		
GRB9	200x525		
GRB10	200x525 TO 200x600		
GRB11	200x600		
GRB12	200x450		
GRB13	200x525		

E. R. Arunkumar
Dr. R. ARUNKUMAR, M.E., Structural, M.B.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M-165213-81)
 DTCP Regn. No. CGLDIST / SE/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 K.K. Nagar, Chennai - 600 076.

GROUND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB14	200x600		
GRB15	200x525		
GRB16	200x525		
GRB17	200x450		
GRB18	200x450 (TOP ROD EXTEND TO SLAB)		
GRB19	200x450		
GRB20	200x375		

GROUND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB21	200x525		
GRB22	200x600		
GRB23	200x600 (TOP ROD EXTEND TO SLAB)		
GRB24	200x525		
GRB25	200x450		
GRB26	200x375		



- GENERAL NOTES :**
- All dimensions are in Millimeters.
 - Concrete Grade = M25
 - Minimum Cement content = 340kg/m³
 - Steel Grade : For Fe-500
 - Clear cover : Footing - 50,
R.c.c Wall - 25,
Column Cover To The Main Reinforcement - 40,
Beam - 25,
Slab - 20
 - Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - Provide spacer bar at every 30° intervals
 - The column center should coincide with center of footing
 - The column & foundation are designed for Silt + 4 floors only
 - Do not scale this drawing and follow architectural drawing dimensions only
 - No changes shall be made without the Consent of the structural consultant.

GOOD FOR CONSTRUCTION

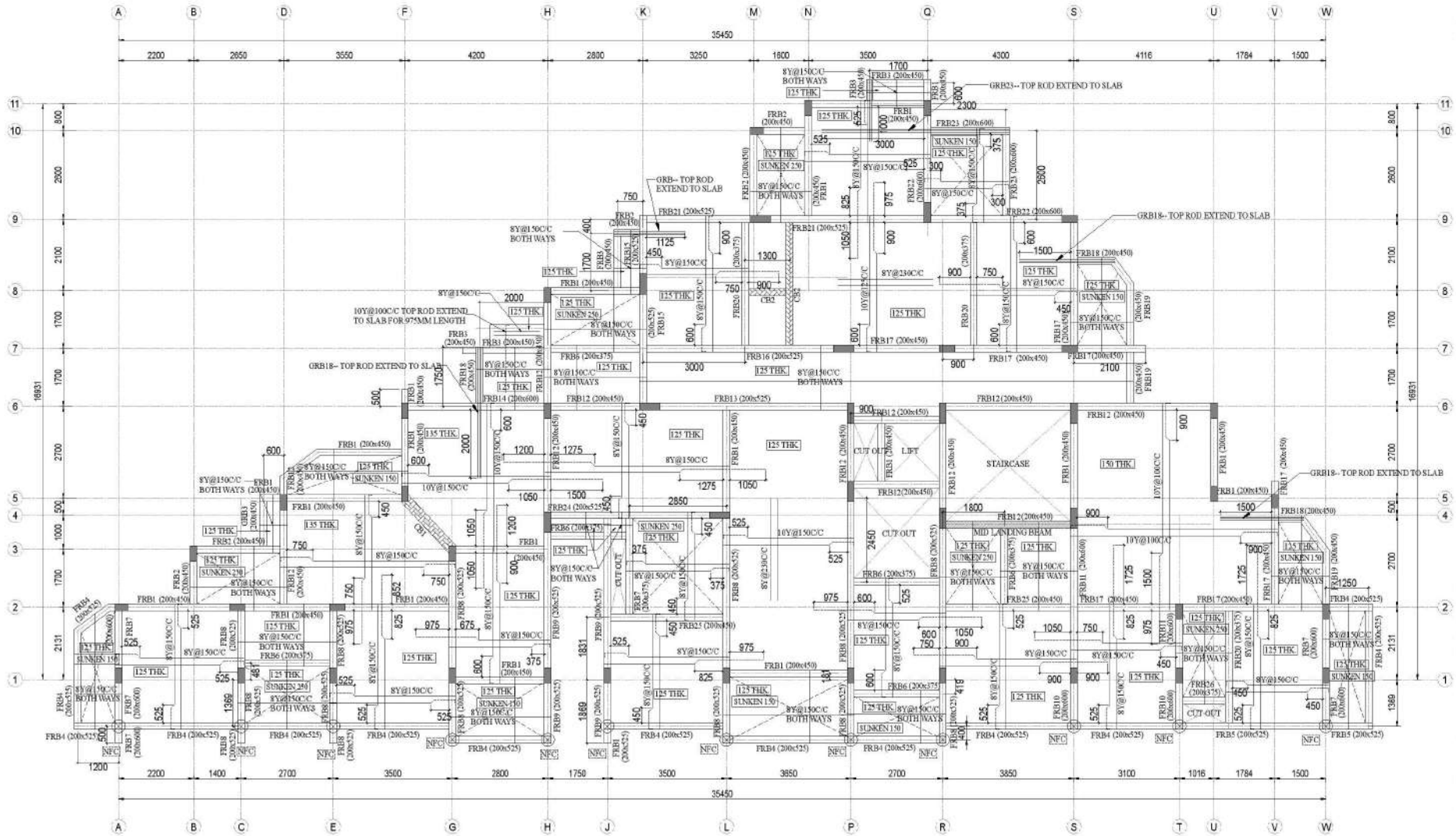
REV	DESCRIPTION	BY	DATE
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CLIENT			
M/S. S R and Co			
Hosur.			
ARCHITECTS			
			
AKR ARCHITECTS			
PROJECT INFORMATION: JESSA BAGAGE CHENNAI - GURUKA			
PROJECT TITLE			
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT WELUPUTHUR TALUK, KODAKKALUR DISTRICT.			
APARTMENT BUILDING AT WELUPUTHUR TALUK, KODAKKALUR DISTRICT.			
DRAWING TITLE			
GROUND FLOOR ROOF BEAM DETAILS			
STRUCTURAL CONSULTANT:			
			
AKR CONSULTANTS			
11/1, 11/2, 11/3, 11/4, 11/5, 11/6, 11/7, 11/8, 11/9, 11/10, 11/11, 11/12, 11/13, 11/14, 11/15, 11/16, 11/17, 11/18, 11/19, 11/20, 11/21, 11/22, 11/23, 11/24, 11/25, 11/26, 11/27, 11/28, 11/29, 11/30, 11/31, 11/32, 11/33, 11/34, 11/35, 11/36, 11/37, 11/38, 11/39, 11/40, 11/41, 11/42, 11/43, 11/44, 11/45, 11/46, 11/47, 11/48, 11/49, 11/50, 11/51, 11/52, 11/53, 11/54, 11/55, 11/56, 11/57, 11/58, 11/59, 11/60, 11/61, 11/62, 11/63, 11/64, 11/65, 11/66, 11/67, 11/68, 11/69, 11/70, 11/71, 11/72, 11/73, 11/74, 11/75, 11/76, 11/77, 11/78, 11/79, 11/80, 11/81, 11/82, 11/83, 11/84, 11/85, 11/86, 11/87, 11/88, 11/89, 11/90, 11/91, 11/92, 11/93, 11/94, 11/95, 11/96, 11/97, 11/98, 11/99, 11/100, 11/101, 11/102, 11/103, 11/104, 11/105, 11/106, 11/107, 11/108, 11/109, 11/110, 11/111, 11/112, 11/113, 11/114, 11/115, 11/116, 11/117, 11/118, 11/119, 11/120, 11/121, 11/122, 11/123, 11/124, 11/125, 11/126, 11/127, 11/128, 11/129, 11/130, 11/131, 11/132, 11/133, 11/134, 11/135, 11/136, 11/137, 11/138, 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SCALE	1 : 60	CHENRI BY	CHENRI
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APPROVED BY			

IRAR

Dr. I. R. ARUNKUMAR, M.E./Structural, M.L.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
DTPC Regn. No. CGLDIST / SEDR-V/2025/11012
No. 10, 2nd Sector, 9th Street,
KK Nagar, Chennai - 600 078.

- GENERAL NOTES:**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Steel Grade - Fe-500
 - 4) Clear cover: Footings-50,
R.C.C. Wall-25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
Slab - 20
 - 5) Lap length
Compression (Column) : 45 D
Tension (Beam & Slab) : 57 D
 - 6) Provide space bar at every 100 intervals
 - 7) The column center should coincide
with center of footing.
 - 8) The column & foundation are designed for
Earth + 4 floors only.
 - 9) Do not scale this drawing and follow
architectural drawing dimensions only.
 - 10) No changes shall be made without the
consent of the structural consultant.

GOOD FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	IRAR	03-07-2025

PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA
PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
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CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA

PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA
PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA

PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA
PROJECT TITLE	PROPOSED CONSTRUCTION OF A MULTISTORY BUILDING AT HOSUR ROAD, SALEM, KARNATAKA DISTRICT.
CLIENT	M/S. S.R. and Co. Hosur.
ARCHITECT	AR+D ARTIST ARCHITECTS BANGALORE, KARNATAKA, INDIA

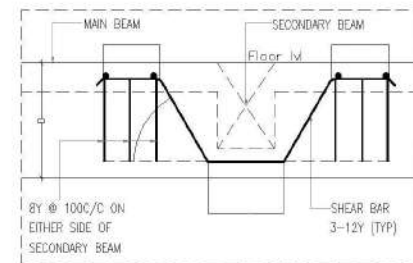
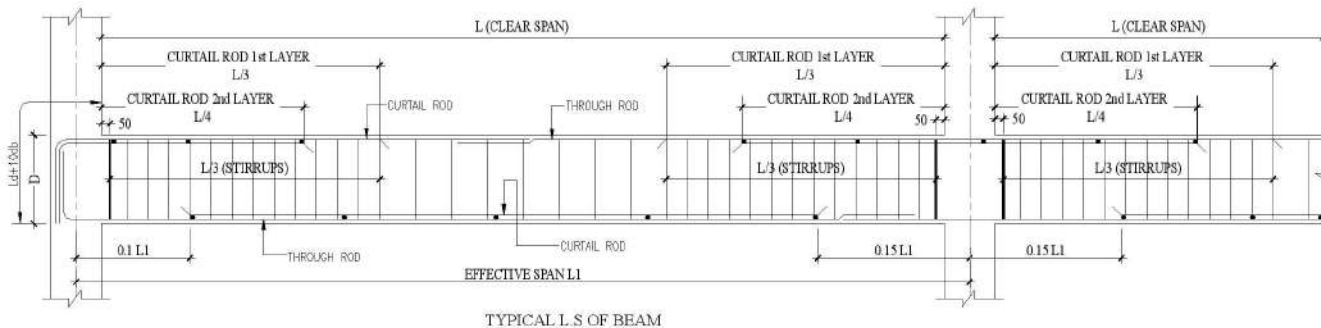
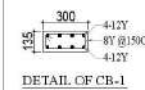
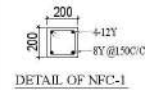
FIRST FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB1	200x450		
FRB2	200x450		
FRB3	200x450		
FRB4	200x525		
FRB5	200x525		
FRB6	200x375		
FRB7	300x525		

FIRST FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB8	200x525		
FRB9	200x525		
FRB10	200x525 TO 200x600		
FRB11	200x600		
FRB12	200x450		
FRB13	200x525		

E.R. Arunkumar
Er. I. R. ARUNKUMAR, M.E. (Structural), M.I.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer 04-165213-80
 DTCP Regn. No. CGLDIST / SE/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 K.K. Nagar, Chennai - 600 078.

FIRST FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB14	200x600		
FRB15	200x525		
FRB16	200x525		
FRB17	200x450		
FRB18	200x450 (TOP ROD EXTEND TO SLAB)		
FRB19	200x450		
FRB20	200x375		

FIRST FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB21	200x525		
FRB22	200x600		
FRB23	200x600 (TOP ROD EXTEND TO SLAB)		
FRB24	200x525		
FRB25	200x450		
FRB26	200x375		



- GENERAL NOTES :**
- All dimensions are in Millimeters.
 - Concrete Grade = M25
 - Minimum Cement content = 340kg/m³
 - Steel Grade : For Fe-500
 - Clear cover : Footing - 50,
R.c.c Wall - 25,
Column Cover To The Main Reinforcement - 40,
Beam - 25,
Slab - 20
 - Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - Provide spacer bar at every 30° intervals
 - The column center should coincide with center of footing
 - The column & foundation are designed for Silt + 4 floors only
 - Do not scale this drawing and follow architectural drawing dimensions only
 - No changes shall be made without the Consent of the structural consultant.

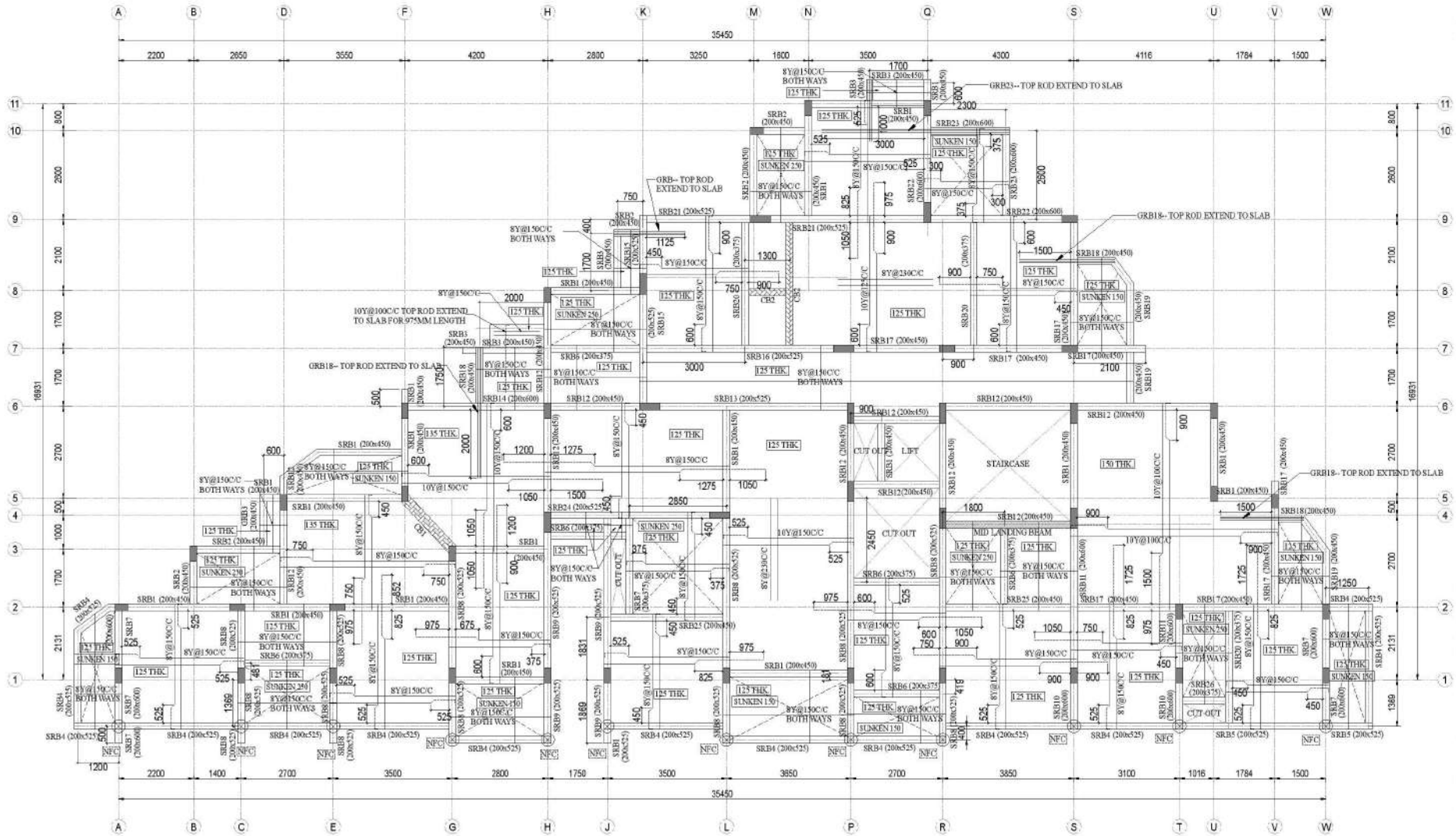
GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE
1	DRAWING NO. : 1026-ST-5-08		DATE : 03-01-2008
2	CLIENT : M/S. S R and Co		
3	PROJECT TITLE : PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT WELUPUTHUR TALUK, KODAKKALUR DISTRICT.		
4	DRAWING TITLE : FIRST FLOOR ROOF BEAM DETAILS		
5	STRUCTURAL CONSULTANT : AKR CONSULTANTS		
6	AKR CONSULTANTS P. J. ARUNKUMAR M.E. (Structural), M.I.E. 10/10, 2nd Sector, 9th Street, K.K. Nagar, Chennai - 600 078.		
7	SCALE : 1 : 50	DRAWN BY : CHANDRU	
8	SHEET SIZE : A2	CHECKED BY : ANR	
9	APPROVED BY : I. R. ARUNKUMAR		


E. J. RARUNKUMAR, M.E. (Structural), M.I.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M-165213-B)
 DTCP Regn. No. CGLDIST / SE/CR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 KKNagar, Chennai - 600 078.

- GENERAL NOTES:**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Steel Grade - Fe-500
 - 4) Clear cover: Footings-50,
R.C.C. Wall-25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
Slab - 20
 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 100 intervals
 - 7) The column center should coincide with center of footing.
 - 8) The column & foundation are designed for B.M. + 4 floors only.
 - 9) Do not scale this drawing and follow architectural drawing dimensions only.
 - 10) No changes shall be made without the consent of the structural consultant.

GOOD FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR PERMIT	AR+ID	03-07-2024

CLIENT: M/s. S.R. and Co.
 ADDRESS: AR+ID
 PROJECT TITLE: PROPOSED CONSTRUCTION OF 4th FLOOR BUILDING AT HOUSING COLONY, SAKINAKA, CHENNAI - 600 078.
 DRAWING TITLE: SECOND FLOOR ROOF BEAMS AND SLAB LAYOUT
 STRUCTURAL CONSULTANT: AR+ID ARCHITECTS
 DRAWN BY: CHIRANJEEV
 CHECKED BY: AR+ID
 APPROVED BY: AR+ID

SECOND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB1	200x450		
SRB2	200x450		
SRB3	200x450		
SRB4	200x525		
SRB5	200x525		
SRB6	200x375		
SRB7	300x525		

SECOND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB8	200x525		
SRB9	200x525		
SRB10	200x525 TO 200x600		
SRB11	200x600		
SRB12	200x450		
SRB13	200x525		

E. R. Arunkumar
Er. I. R. ARUNKUMAR, M.E., (Structural), M.I.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M- 165213-B)
 DTCE Regn. No. CGLDIST / SE/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 K.K.Nagar, Chennai - 600 078.

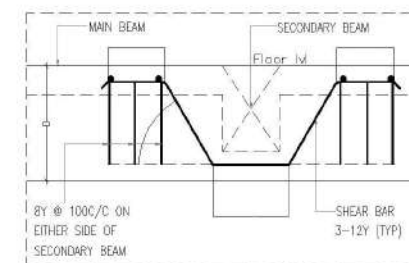
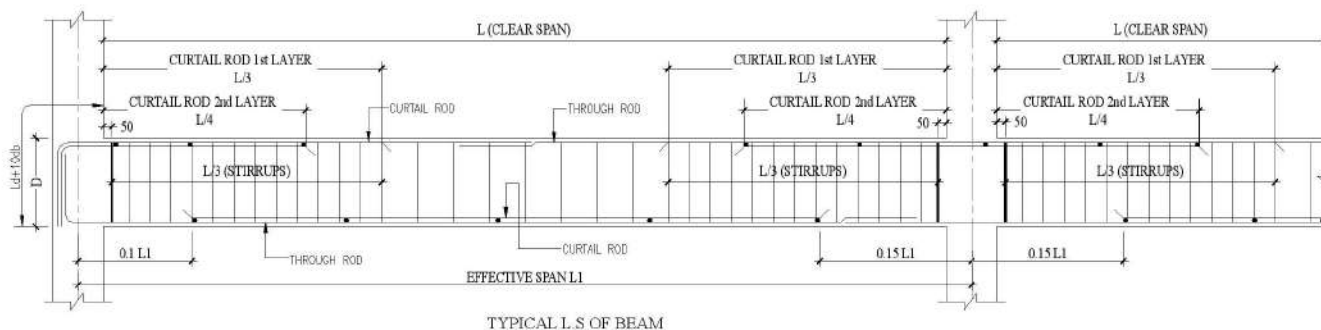
SECOND FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB4	200x600		
SRB5	200x525		
SRB6	200x525		
SRB7	200x450		
SRB8	200x450 (TOP ROD EXTEND TO SLAB)		
SRB9	200x450		
SRB20	200x375		

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB21	200x525		
SRB22	200x600		
SRB23 (TOP ROD EXTEND TO SLAB)	200x600		
SRB24	200x525		
SRB25	200x450		
SRB26	200x375		

GENERAL NOTES:

- 1) All dimensions are in Millimeters.
- 2) Concrete Grade = M25
- 3) Minimum Cement content = 340kg/m³
- 4) Steel Grade: Tor Fe-500
- 5) Clear cover: Footing= 50,
R.C.C Wall= 25,
Column Cover To The Main
Reinforcement = 40,
Beam = 25,
Slab = 20
- 6) Lap length
Compression (Column) : 45 ϕ
Tension (Beam & Slab) : 57 ϕ
- 7) Provide spacer bar at every 20 ϕ intervals
- 8) The column center should coincide
with center of footing
- 9) The column & foundation are designed for
Still & 4 floors only
- 10) Do not scale this drawing and follow
structural dimensions only
- 11) No changes shall be made without the
Consent of the structural consultant.

GOOD FOR CONSTRUCTION

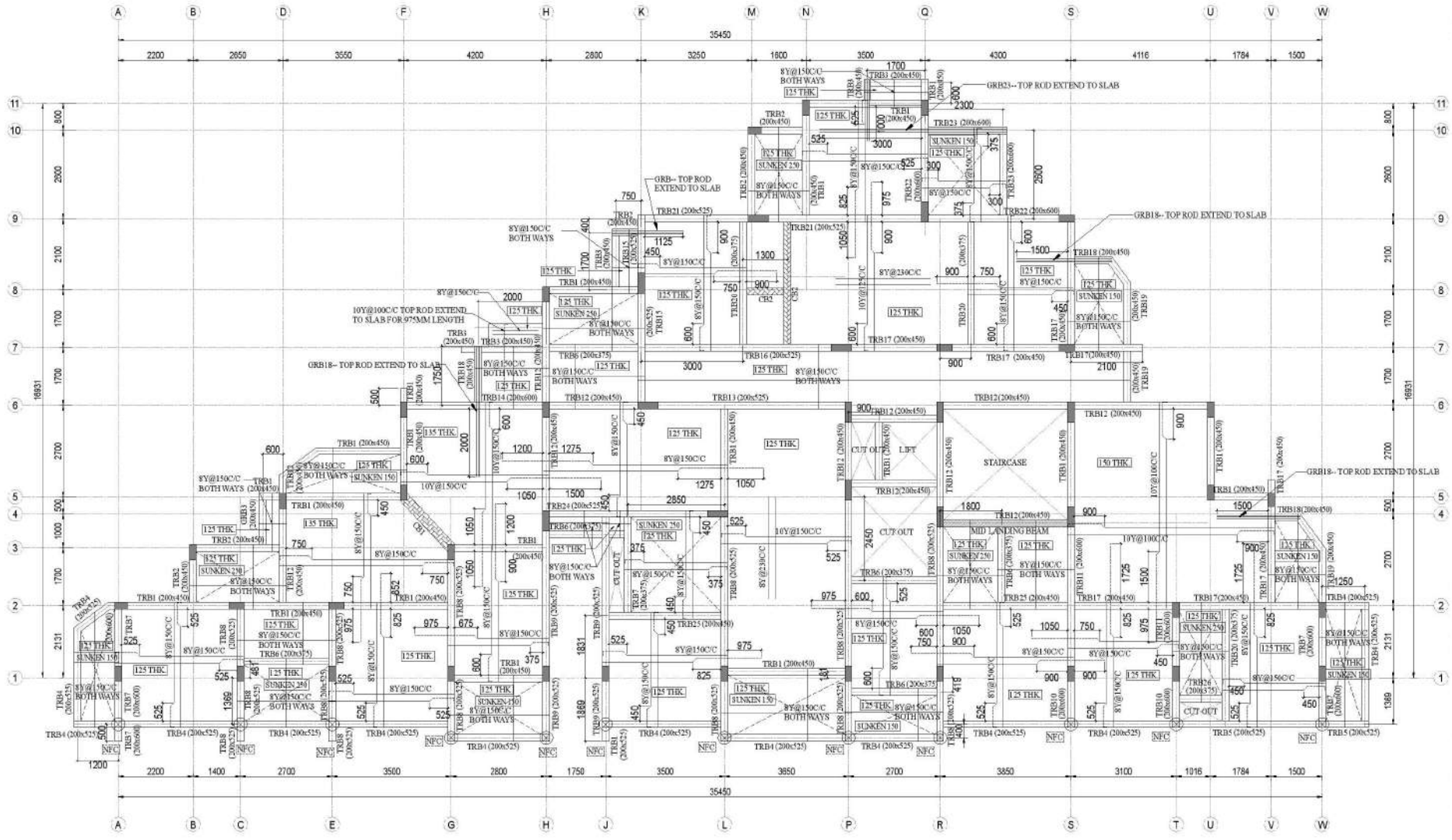


REV	DESCRIPTION	BY	DATE
ISSUANCE NO.	10238-01-23-10	DWG.	13-01-25
CLIENT			
M/S. S R and Co Haver,			
 AR+ID ARCHITECTS			
PLOT: 10238/0000/00, HAVAR, KARNATAKA - 574004			
PROJECT TITLE			
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT WOLFRUM TALKIE, HOSUR NAGAR DISTRICT.			
DRAWING TITLE			
SECOND FLOOR ROOF BEAM DETAILS			
STRUCTURAL CONSULTANT:			
 AKR ENGINEERING & SERVICES			
10/15, 6TH STREET, 2ND FLOOR, 3RD LAYOUT CHENNAI - 600020 MOBILE: 9840900000/9840900000 CDD: +91 9840900000			
SCALE	1 : 60	DRAWN BY	CHIN
SHEET SIZE	A2	CHECKED BY	AKH
DATE			

IR. R. R. R.
Er. I. RARUNKUMAR, M.E. (Structural), M.L.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M-165213-B)
 DTCP Regn. No. CGLD/ST / 52/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 KKNagar, Chennai - 600 078.

- GENERAL NOTES:**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Steel Grade - Fe-500
 - 4) Clear cover: Footings-50,
R.C.C. Wall-25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
Slab - 20
 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 100mm intervals
 - 7) The column center should coincide with center of footing.
 - 8) The column & foundation are designed for Soil + 4 floors only.
 - 9) Do not scale this drawing and follow architectural drawing dimensions only.
 - 10) No changes shall be made without the consent of the structural consultant.

GOOD FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	IR	05-10-2024

CLIENT: M/S. S.R. and Co. Hoist.

PROJECT TITLE: PROPOSED CONSTRUCTION OF A FOURTH FLOOR AT HOUSTON MAIN ST, SPB-4 AND 5 DISTRICT.

DRAWING TITLE: THIRD FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT:

AKR
 ENGINEERS & ARCHITECTS
 8, SPANISH BARRACKS, M.L.E.,
 4th FLOOR, 11th STREET,
 2ND SECTOR, 9TH STREET,
 CHENNAI - 600 078
 WWW.AKRCONSULTANTS.COM
 MOBILE: 9840404040

SCALE: 1:100
 SHEET SIZE: A2
 DRAWN BY: CHIRAL
 CHECKED BY: AKR
 APPROVED BY: IR

THIRD FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB1	200x450		
TRB2	200x450		
TRB3	200x450		
TRB4	200x525		
TRB5	200x525		
TRB6	200x375		
TRB7	300x525		

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB8	200x525		
TRB9	200x525		
TRB10	200x525 TO 200x600		
TRB11	200x600		
TRB12	200x450		
TRB13	200x525		

Er. I. RARUNKUMAAR, M.E. (Structural), M.I.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTPC Regn.No.CGLDIST / SE/GR-1/2025/11/012
No. 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

THIRD FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB14	200x600		
TRB15	200x525		
TRB16	200x525		
TRB17	200x450		
TRB18	200x450 (TOP ROD EXTEND TO SLAB)		
TRB19	200x450		
TRB20	200x375		

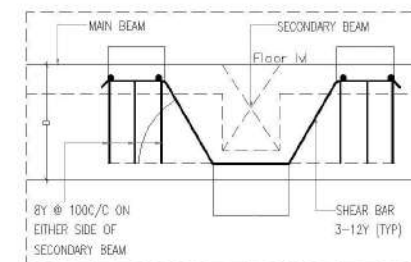
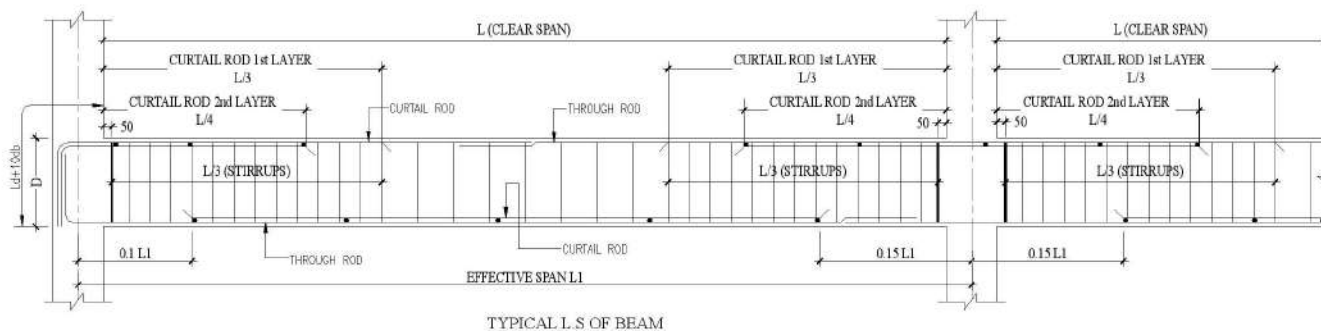
THIRD FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB21	200x525		
TRB22	200x600		
TRB23 (TOP ROD EXTEND TO SLAB)	200x600		
TRB24	200x525		
TRB25	200x450		
TRB26	200x375		

DETAIL OF NFC-1

300
135
4-12Y
8Y @ 150 C/C
4-12Y

DETAIL OF CB-1

200
125
2-12Y
8Y @ 150C/C
3-12Y
DETAIL OF CB-2



GENERAL NOTES:

- 1) All dimensions are in Millimeters.
- 2) Concrete Grade = M25
- 3) Minimum Cement content = 340kg/m³
- 4) Steel Grade: Tor Fe-500
- 5) Clear cover: Footing= 50,
R.C.C Wall= 25,
Column Cover To The Main
Reinforcement = 40,
Beam = 25,
Slab = 20
- 6) Lap length
Compression (Column) : 45 ϕ
Tension (Beam & Slab) : 57 ϕ
- 7) Provide spacer bar at every 20 ϕ intervals
- 8) The column center should coincide
with center of footing
- 9) The column & foundation are designed for
Still & 4 floors only
- 10) Do not scale this drawing and follow
structural dimensions only
- 11) No changes shall be made without the
Consent of the structural consultant.

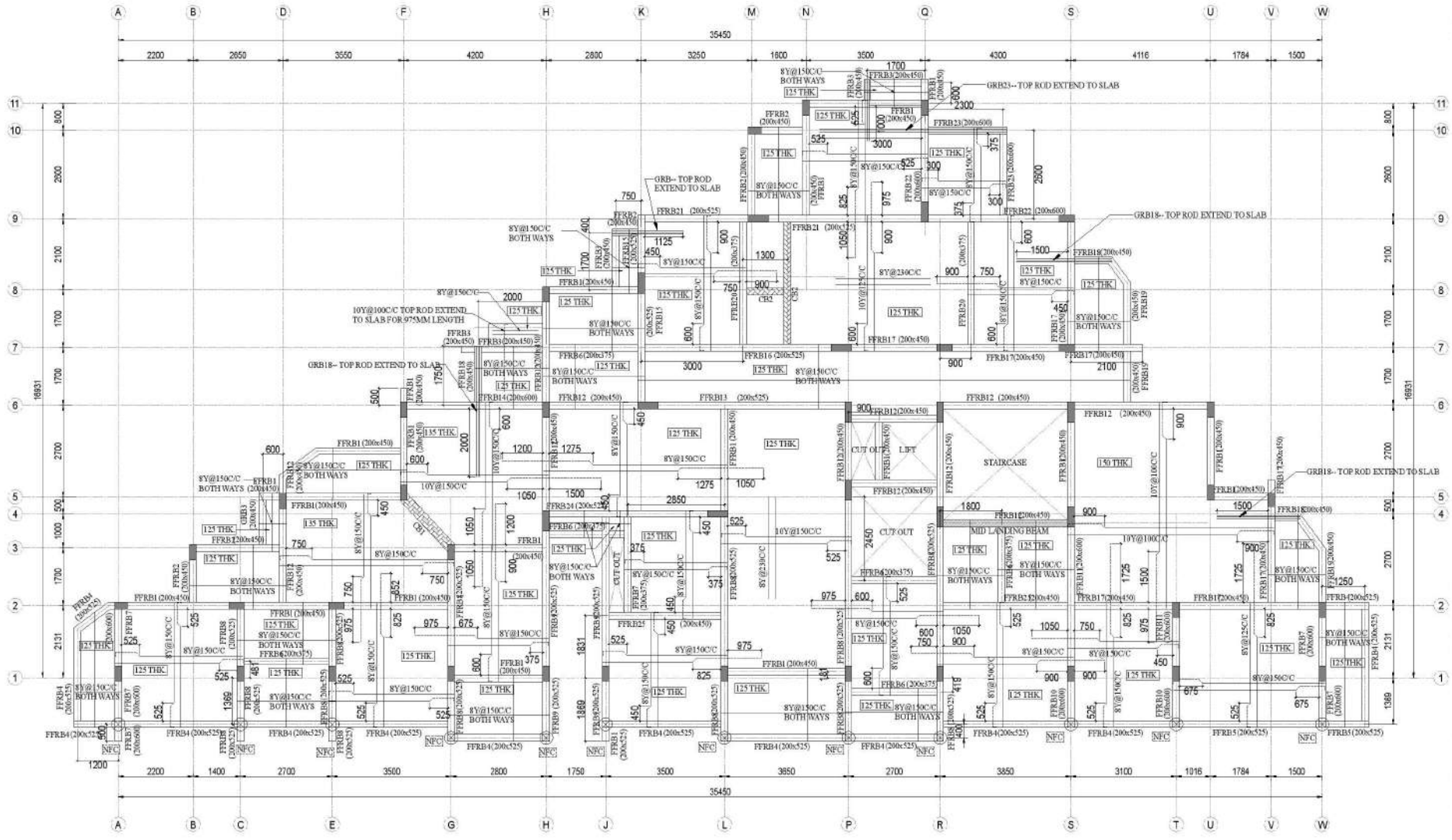
GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE
ISSUED NO	10/28/07-03-12	DATE	03-12-07
CLIENT			
M/S. S R and Co Hawar,			
 AR+ID ARCHITECTS			
PROJECT ADDRESS/PHONE/MAILING ADDRESS/CHESNA/SHAWHAT			
PROJECT TITLE			
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT KOUR TOMA 2 TALL, (KOUR NAJIB) DISTRICT			
DRAWING TITLE			
THIRD FLOOR ROOF BEAM DETAILS			
STRUCTURAL CONSULTANT:			
 AKRA ENGINEERING & CONSULTING			
P/O ARCHITECTURAL ENGINEER			
ARCHITECTURAL ENGINEER			
CHESNA/SHAWHAT			
PROJECT ADDRESS/PHONE/MAILING ADDRESS/CHESNA/SHAWHAT			
SCALE 1 : 60			
DATE	4/2	ISSUED BY	CHAW
4/2/2007/07		10/28/07-03-12	03-12-07

IR. S. M. A. 7
Er. I. RARUNKUMAR, M.E. (Structural), M.L.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M-165213-B)
 DTCP Regn. No. CGLDAST / SE/CR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 KKNagar, Chennai - 600 078.

- GENERAL NOTES:**
- 1) All dimensions are in Millimeters.
 - 2) Concrete Grade - M25
 - 3) Steel Grade - Fe-500
 - 4) Clear cover: Footings-50,
R.C.C. Wall-25,
Column Cover To The Main
Reinforcement - 40,
Beam - 25,
Slab - 20
 - 5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
 - 6) Provide space bar at every 100 intervals
 - 7) The column center should coincide
with center of footing.
 - 8) The column & foundation are designed for
Bolt + 4 Bars only.
 - 9) Do not scale this drawing and follow
architectural drawing dimensions only.
 - 10) No changes shall be made without the
consent of the structural consultant.

GOOD FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR PERMIT	IR	05-03-2025
2	FOR CONSTRUCTION	IR	05-03-2025

CLIENT: M/s. S.R. and Co. Hoasr.

PROJECT TITLE: PROPOSED CONSTRUCTION OF AN ALUMINUM BUILDING AT HOUSTON MALL, KKNAGAR DISTRICT.

DRAWING TITLE: FOURTH FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT: **AKR** ENGINEERS & ARCHITECTS

SCALE: 1:100

SHEET NO: 42

APPROVED BY: *[Signature]*

FOURTH FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB1	200x450		
FFRB2	200x450		
FFRB3	200x450		
FFRB4	200x525		
FFRB5	200x525		
FFRB6	200x375		
FFRB7	300x525		

FOURTH FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB8	200x525		
FFRB9	200x525		
FFRB10	200x525 TO 200x600		
FFRB11	200x600		
FFRB12	200x450		
FFRB13	200x525		

E. R. Arunkumar
Er. I. R. ARUNKUMAR, M.E., (Structural), M.I.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M- 165213-B)
 DTCE Regn. No. CGLDIST / SE/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 K.K.Nagar, Chennai - 600 078.

FOURTH FLOOR ROOF BEAM DETAILS			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFR14	200x600		
FFR15	200x525		
FFR16	200x525		
FFR17	200x450		
FFR18	200x450 (TOP ROD EXTEND TO SLAB)		
FFR19	200x450		
FFR20	200x375		

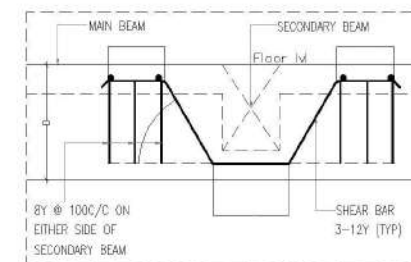
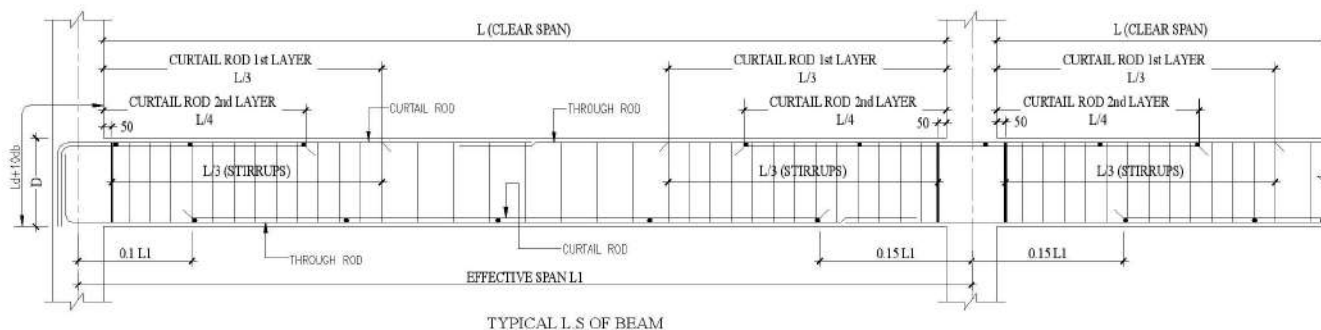
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB21	200x525		
FFRB22	300x600		
FFRB23	200x600 (TOP ROD EXTEND TO SLAB)		
FFRB24	200x525		
FFRB25	200x450		
FFRB26	200x375		

DETAIL OF NFC-1

300
135
4-12Y
8Y @ 150/C
4-12Y

DETAIL OF CB-1

200
125
2-12Y
8Y @ 150C/C
3-12Y
DETAIL OF CB-2



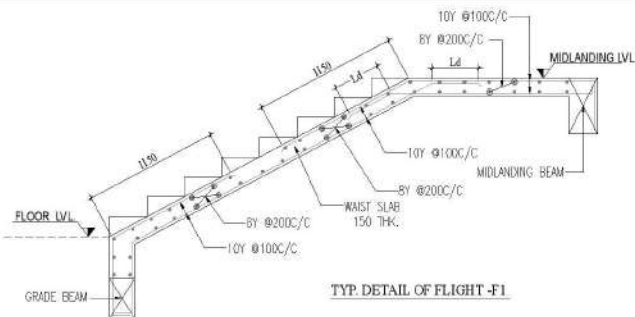
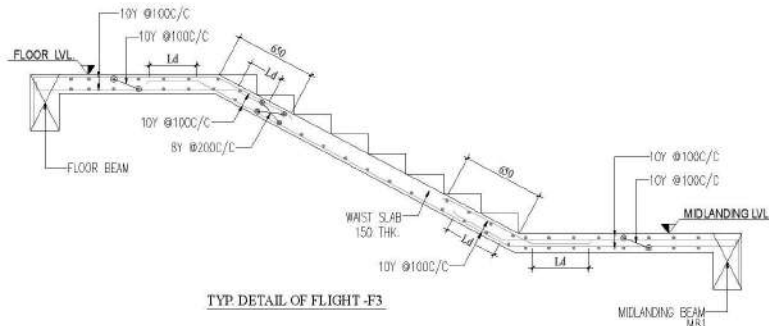
GENERAL NOTES:

- 1) All dimensions are in Millimeters.
- 2) Concrete Grade = M25
- 3) Minimum Cement content = 340kg/m³
- 4) Steel Grade: Tor Fe-500
- 5) Clear cover: Footing= 50,
R.C.C Wall= 25,
Column Cover To The Main
Reinforcement = 40,
Beam = 25,
Slab = 20
- 6) Lap length
Compression (Column) : 45 ϕ
Tension (Beam & Slab) : 57 ϕ
- 7) Provide spacer bar at every 20 ϕ intervals
- 8) The column center should coincide
with center of footing
- 9) The column & foundation are designed for
Still & 4 floors only
- 10) Do not scale this drawing and follow
structural dimensions only
- 11) No changes shall be made without the
Consent of the structural consultant.

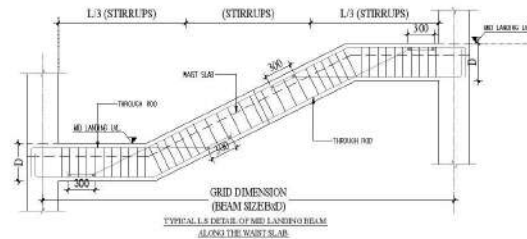
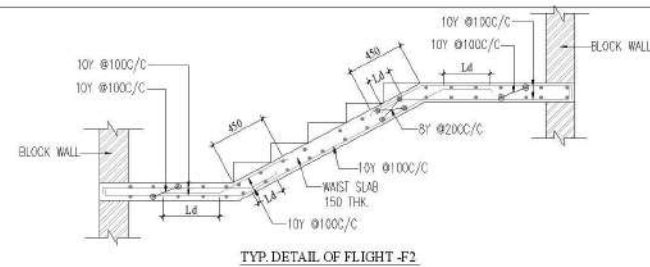
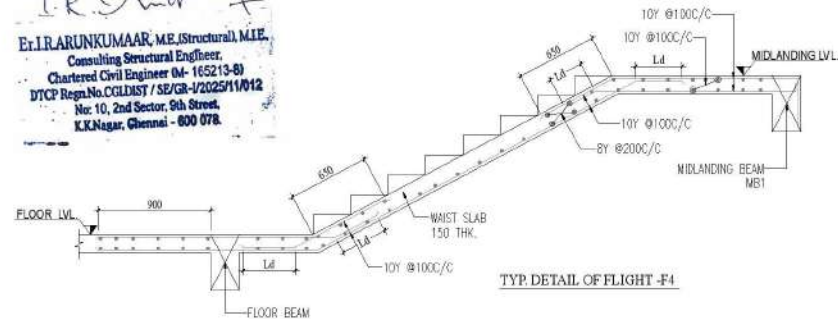
GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE
ISSUING NO.	10238	03-25-1A	
CLIENT	M/S. S R and Co Haver,		
 AR+ID ARCHITECTS RAJAT, ANSHU BHARGAVA, ANISH BHARGAVA CHANDRA - Bangalore			
PROJECT TITLE			
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT WOLFF ROAD 2 TALLUR, (HOSANGANGI DISTRICT)			
DRAWING TITLE			
FOURTH FLOOR ROOF BEAM DETAILS			
STRUCTURAL CONSULTANT:			
 AKR ENGINEERING & CONSULTANTS P 12 AIRAVATHI MAIN E.M.E.E SAP COMBUSTIBLES KOLAR, KR. PREET, SUDHAKAR P. S. JAYAKR CHANDRA - BANGALORE Website: www.akrconsultants.com MOB: +91 98464 44444			
SCALE	1 : 60	DRAWN BY	CHIN
SHEET SIZE	A2	CHECKED BY	AKH
DATE			

MID LANDING BEAM			
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
MB1	200x450		



E. IRARUNKUMAR, M.E. (Structural), M.E.
 Consulting Structural Engineer,
 Chartered Civil Engineer (M-165213-8)
 D/CP Regn. No. CGDMST / SE/GR-1/2025/11/012
 No. 10, 2nd Sector, 9th Street,
 K.K. Nagar, Chennai - 600 078.



GENERAL NOTES :

- All dimensions are in millimeter.
- Concrete Mix : M30 grade
- Raft foundation Concrete Mix : M40 grade
- Steel grade : TMT Bars of Fe500D
- Conforming to IS 1786 - 2008.
Clear cover details :
Column clear cover -40mm,
Footing clear cover -50 mm,
Raft beam clear cover -50mm,
R.C.C wall clear cover -25mm,
Beam clear cover -25mm,
Slab clear cover -20mm.
- Lap length for all bars shall be 46 d where d is the diameter of the bar.
- The center line of column should coincide with center line of footing if not shown specifically.
- The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
- Do not scale this drawing and follow architectural drawing dimensions only.
- No changes shall be made without the consent of the structural consultant.
- The position & size of duct beams, please refer architectural drawing.
- Provide spacer bar at every 900 intervals
- S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

PRELIMINARY DRAWING

REV.	DESCRIPTION	BY	DATE
DRAWING NO :	1536-ST-S-05	DATE :	21-01-2026

CLIENT:

M/s. S R and Co
Hosur.

ARCHITECTS :

ART+ID
ART+ID ARCHITECTS

#A/3g, 15TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 046.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
APARTMENT BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:

STAIRCASE - R.C DETAILS



STRUCTURAL CONSULTANT:

AKR
CONSULTANTS

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SCALE	1 : 85	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			E. IRARUNKUMAR

