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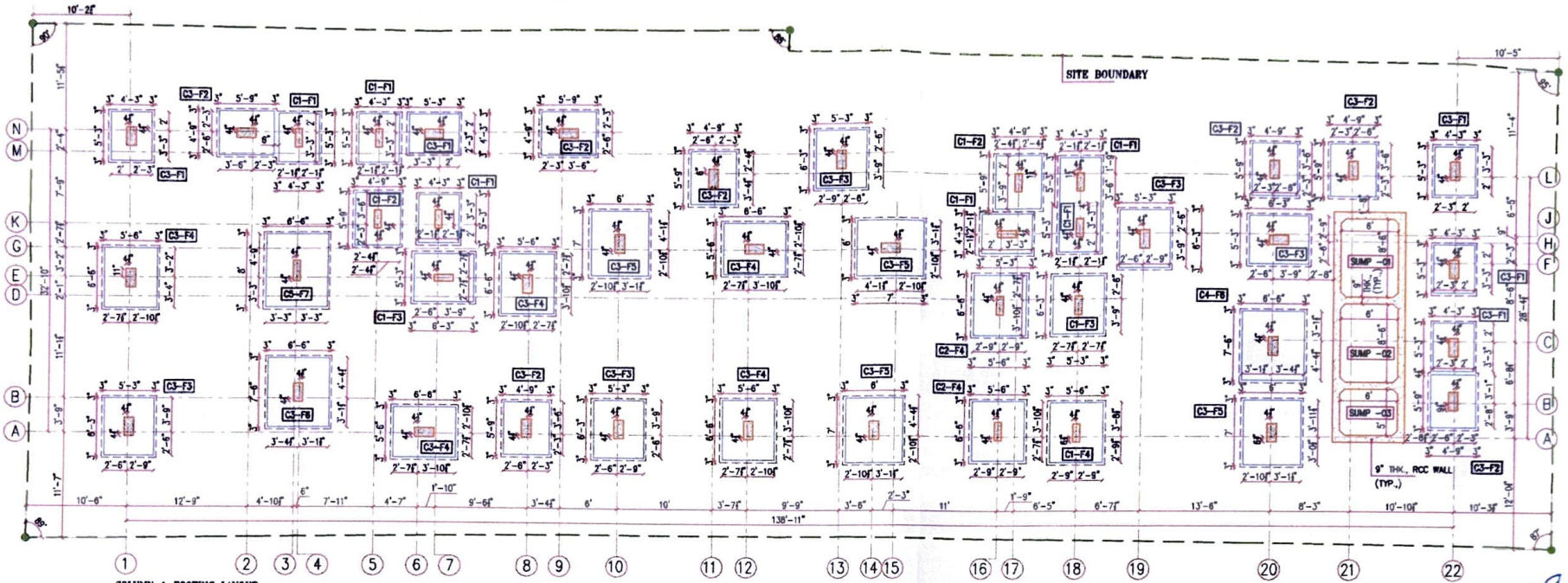
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DESIGN IS CONSIDERED BASED ON SOIL EXPLORATION REPORT (REF: 260 / RB / GMC / 24-25) ISSUED BY GEOMATRIX CONSULTANCY PRIVATE LIMITED, MADURAI, DATED 21.01.2025. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SITE ENGINEER/OWNER OF CONSTRUCTED BUILDING TO ENSURE THE SAME AT SITE BEFORE EXECUTION OF FOUNDATION. IT SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER IMMEDIATELY, IF THERE IS ANY DEVIATION IS OBSERVED AT SITE.



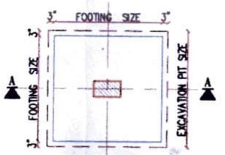
COLUMN & FOOTING LAYOUT

COLUMN DETAILS (CONT.,)

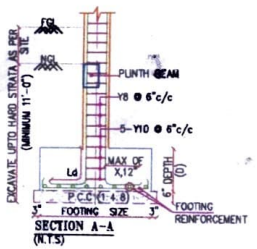
S No	Column No	Column Size	Column Reinforcement Detail	Rings Detail (R-Ring)	Hooks Detail (H-Hook)
1	C1	9" x 24"	8 - Y16 + 4 - Y12 • Y8 @ 6"c/c	R-1, R-2, R-3	H-1
2	C2	9" x 24"	12 - Y16 Y8 @ 6"c/c	R-1, R-2, R-3	H-1

FOOTING DETAILS

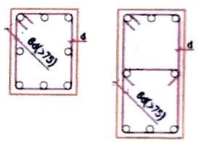
S No	Footing No	Footing Size	Excavation Pit Size	Footing Depth(D)	Footing Rft., Detail
1	F1	5'-3" x 4'-3"	5'-9" x 4'-9"	15"	Y10 @ 6"c/c Both Ways
2	F2	5'-9" x 4'-9"	6'-3" x 5'-3"	18"	Y10 @ 5"c/c Both Ways
3	F3	6'-3" x 5'-3"	6'-9" x 5'-9"	18"	Y10 @ 4"c/c Both Ways
4	F4	6'-6" x 5'-6"	7'-0" x 6'-0"	21"	Y10 @ 5"c/c Both Ways
5	F5	7'-0" x 6'-0"	7'-6" x 6'-6"	21"	Y10 @ 4"c/c Both Ways
6	F8	7'-6" x 6'-6"	8'-0" x 7'-0"	24"	Y10 @ 4"c/c Both Ways
7	F7	8'-0" x 6'-6"	8'-6" x 7'-0"	24"	Y10 @ 4"c/c Both Ways



PLAN -TYPICAL FLAT FOOTING (N.T.S)



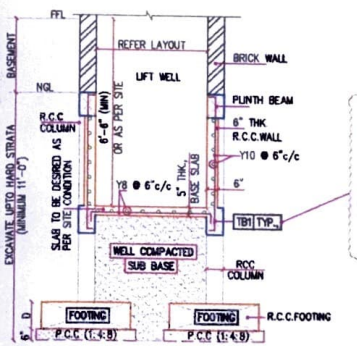
SECTION A-A (N.T.S)



TYPICAL COLUMN HOOK DETAILS

COLUMN DETAILS

S No	Column No	Up To First Floor (Stilt Roof) Column Size	Column Reinforcement Detail	Rings Detail (R-Ring)	Hooks Detail (H-Hook)	From First Floor (Stilt Roof) Column Size	Column Reinforcement Detail	Rings Detail (R-Ring)	Hooks Detail (H-Hook)
3	C3	12" x 24"	13 - Y16 + 4 - Y12 • Y8 @ 6"c/c	R-4, R-1, R-2, R-3	H-1	9" x 24"	8 - Y16 + 4 - Y12 • Y8 @ 6"c/c	R-1, R-2, R-3	H-1
4	C4	12" x 24"	17 - Y16 Y8 @ 6"c/c	R-4, R-1, R-2, R-3	H-1	9" x 24"	12 - Y16 Y8 @ 6"c/c	R-1, R-2, R-3	H-1
5	C5	9" x 27"	8 - Y20 + 6 - Y16 • Y8 @ 6"c/c	R-1, R-2, R-3	H-1, H-2, H-3	9" x 24"	12 - Y16 Y8 @ 6"c/c	R-1, R-2, R-3	H-1, H-2



TYPICAL LIFT WELL SECTION (N.T.S)

BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement Detail
1	TB1	9"x18"	3 - Y16, Y8 @ 6"c/c, 3 - Y16

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN FEET & INCHES
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 500 CONFORMING TO IS:1786
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 2" FOR FOOTINGS, 1½" FOR COLUMNS.
6. S.B.C IS CONSIDERED AS 350kN/Sq.m @ 11'-0" BELOW N.G.L & DESIGNED FOR S+5 FLOORS ONLY.
7. LAP LENGTH SHALL BE Ld FOR ALL BARS.
8. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
9. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED
10. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
11. SUITABLE PRECAUTION SHOULD BE TAKEN CARE IN SITE TO AVOID EARTH SLIDING DURING EARTH WORK EXCAVATION AND EXECUTION OF FOOTING.
12. DURING EXCAVATION, IF ANY LOOSE POCKETS OF THE SOIL ENCOUNTERED IT SHALL BE REMOVED & BACKFILLED WITH A LEVELLING COURSE OF CONCRETE THEN THE CONSTRUCTION OF FOUNDATION CAN BE CARRIED OUT.

Ld FOR VARIOUS DIA OF BAR

DIA OF BAR	10#	12#	16#	20#	25#	32#
TENSION Ld	1'-9"	2'-0"	2'-9"	3'-3"	4'-0"	5'-3"
COMPRESSION Ldc	1'-6"	1'-9"	2'-3"	2'-9"	3'-3"	4'-3"

LEGENDS

- FULL HEIGHT COLUMN
- RCC WALL

ABBREVIATIONS

- N.G.L – NATURAL GROUND LEVEL
- F.G.L – FORMED GROUND LEVEL
- F.F.L – FINISHED FLOOR LEVEL
- Ld – DEVELOPMENT LENGTH

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REF	DESCRIPTION	BY	DATE
R3	REVISED AS PER ARCHITECT COMMENTS.	BK	04.06.25

REVISIONS

CLIENT: BODHI KRUTHAK ARCHITECTS.

PROJECT: SA Homes Apartments at Coimbatore.

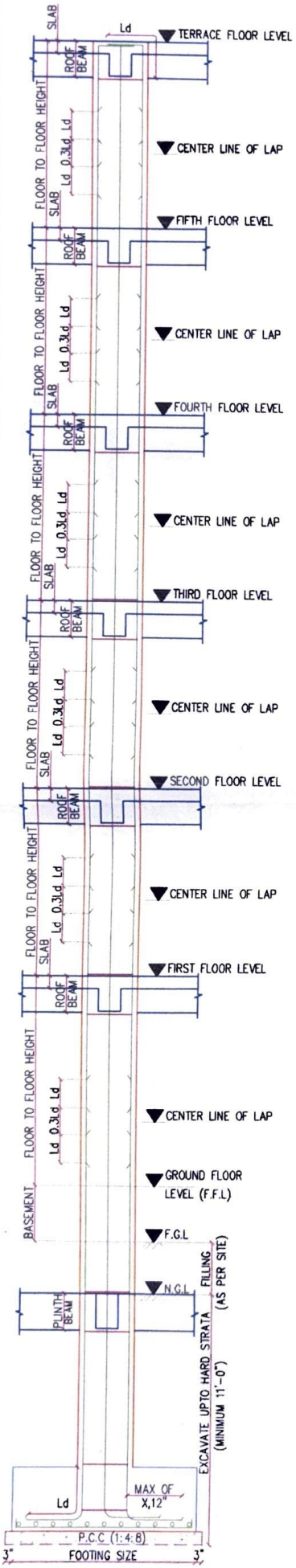
TITLE: Column & Footing Layout and Details (1-3).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
HG	BA	SKAK	SKAK	23.05.25	A2	1"=8"

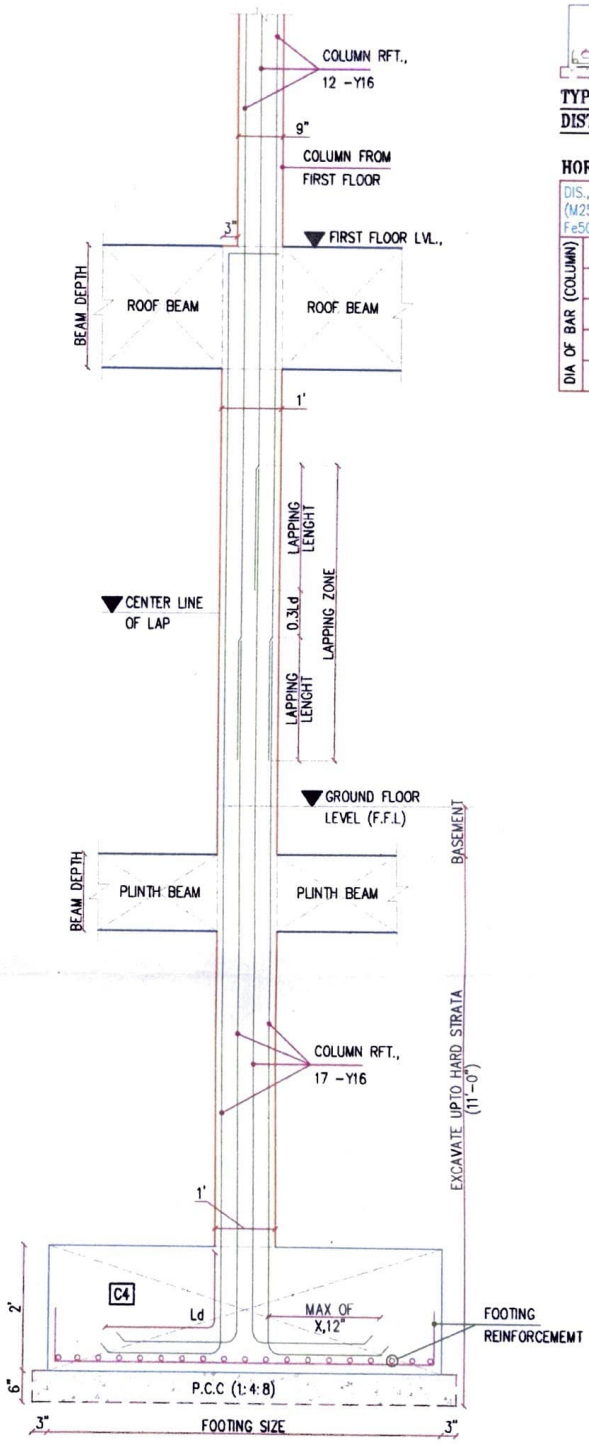
DWG NO: MAHLKRSHEET-STR-SHD

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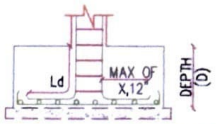
TYPICAL COLUMN SECTION
(N.T.S)



TYPICAL COLUMN REDUCTION DETAIL (C4)
(OTHER DETAILS NOT SHOWN CLARITY)
(N.T.S)

NOTE :

* ALL REINFORCEMENT SHALL BE CHANGED ONLY AT ROOF TO ROOF MIDDLE LEVEL (AT COLUMN LAPPING ZONE).



TYPICAL COLUMN Ld HORIZONTAL DISTANCE (X) SECTION

HORIZONTAL DISTANCE (X) OF COLUMN Ld:

DIS., (X) (M25 & Fe500)		FOOTING DEPTH				
		12"&15"	18"&21"	24"&27"	30"&33"	36"&39"
DIA OF BAR (COLUMN)	12ø	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
	16ø	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"
	20ø	2'-0"	1'-6"	1'-0"	1'-0"	1'-0"
	25ø	2'-6"	2'-0"	1'-6"	1'-0"	1'-0"
	32ø	3'-6"	3'-0"	2'-6"	2'-0"	1'-6"

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REF	DESCRIPTION	BY	DATE
R3	REVISED AS PER ARCHITECT COMMENTS.	BK	04.06.25
R2	TYPICAL COLUMN REDUCTION DETAILS ADDED	MV	30.05.25

REVISIONS

CLIENT:
BODHI KRUTHAK ARCHITECTS.

PROJECT:
SA Homes Apartments at Coimbatore.

TITLE:
Column & Footing Layout and Details (2-3).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
HG	BA	SKAK	SKAK	23.05.25	A2	1":8"

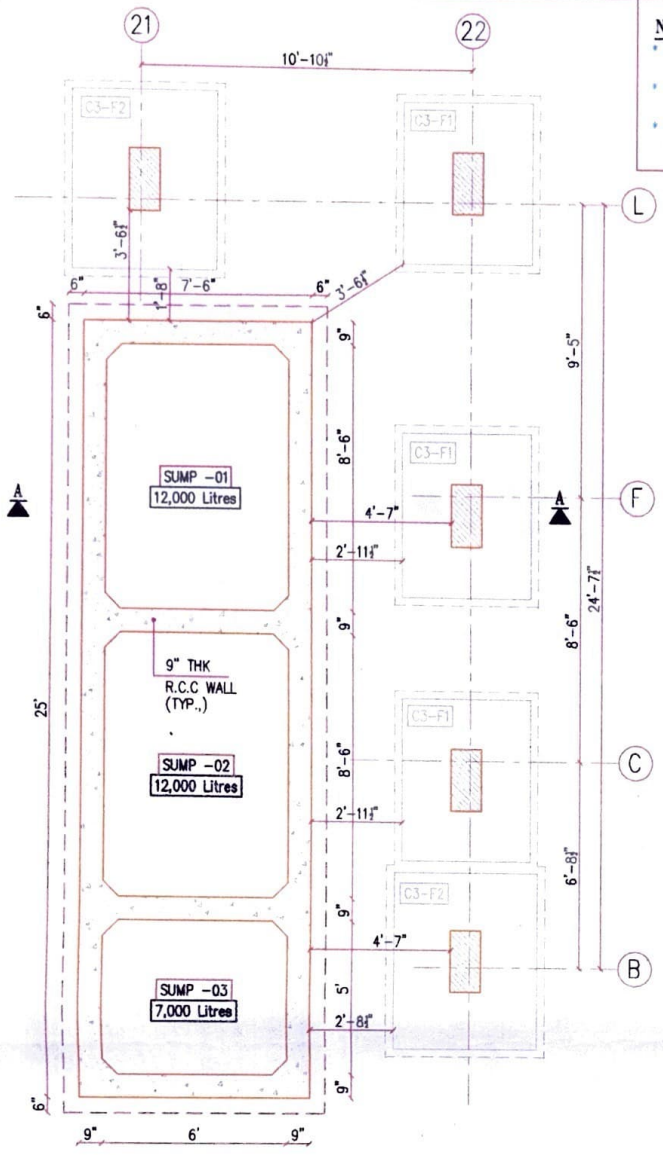
DWG. NO: MATI-ESI-DII-RC-03-R3

STRUCTURAL CONSULTANT

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PLAN
(SCALE 1:50)

NOTE

* INLET, OUTLET PIPE LOCATION SHOWN FOR INDICATION ONLY. IT SHALL BE LOCATED AS PER THE SITE REQUIREMENT.
* SLOPE OF INLET PIPE TO BE MATCH AS PER SITE CONDITION & TANK TO BE LOCATED ACCORGINGLY.
* FOR CLEANING & MAINTENANCE PURPOSE, SHALL BE ACCESSED WITH LADDER ONLY.

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3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 500 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE ½" FOR SLAB ,1" FOR BEAM &1" FOR R.C.C WALL.
6. LAP LENGTH SHALL BE Ld FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. INNER SURFACE OF THE WATER TANK TO BE BE PROVIDED WITH PROTECTIVE COATING.
10. SUITABLE WATER PROOFING CHEMICAL TO BE ADDED WITH CONCRETE, BEFORE CONCRETING.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
12. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 8" C/C.

Ld FOR VARIOUS DIA OF BAR

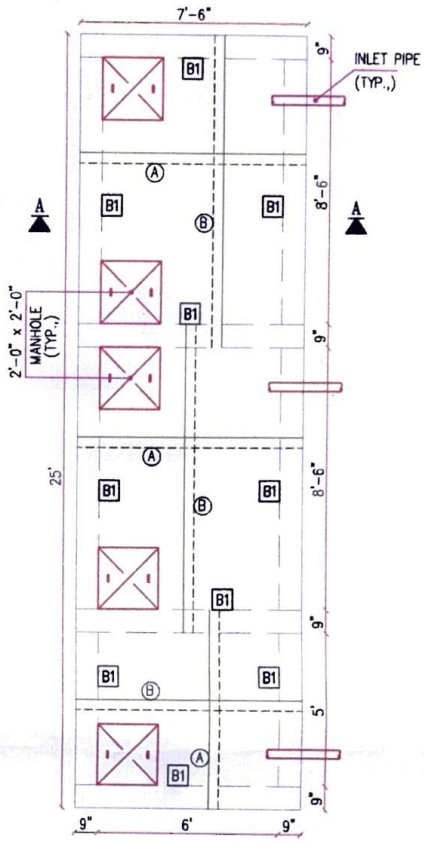
DIA OF BAR	10ø	12ø	16ø	20ø	25ø	32ø
TENSION Ld	1'-9"	2'-0"	2'-9"	3'-3"	4'-0"	5'-3"
COMPRESSION Ldc	1'-6"	1'-9"	2'-3"	2'-9"	3'-3"	4'-3"

LEGENDS

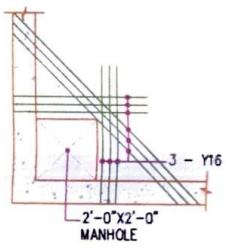
- RCC WALL
- FULL HEIGHT COLUMN
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

ABBREVIATIONS

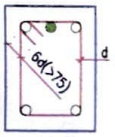
Ld	– DEVELOPMENT LENGTH
N.T.S	– NOT TO SCALE
F.G.L	– FORMED GROUND LEVEL



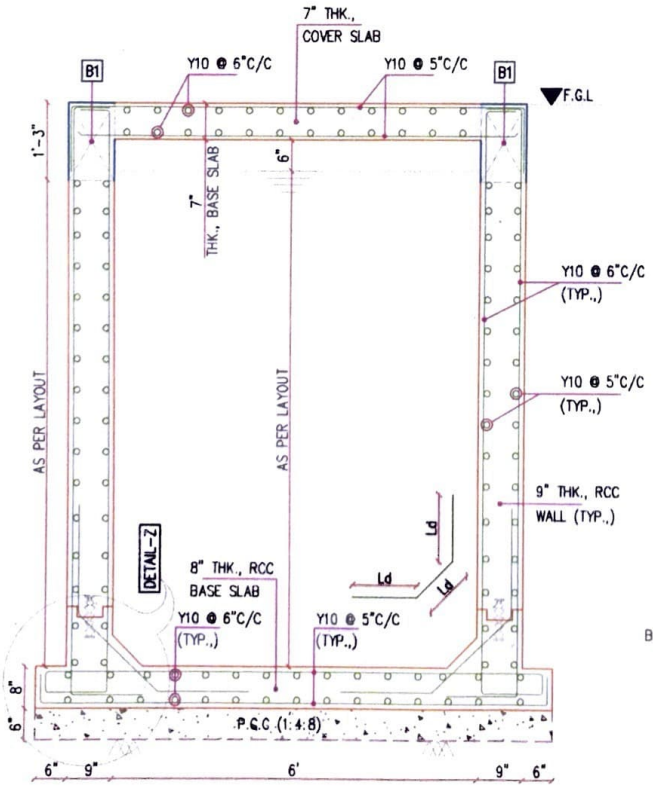
COVER SLAB & BEAM LAYOUT
(SCALE 1:50)



TYPICAL MANHOLE DETAIL
(N.T.S)



TYPICAL BEAM HOOK DETAILS



SECTION A-A
(SCALE 1:25)

COVER SLAB

COVER SLAB THICKNESS : 7"		
A	Y10 @ 5"C/C	
B	Y10 @ 6"C/C	

LIVE LOAD SCHEDULE

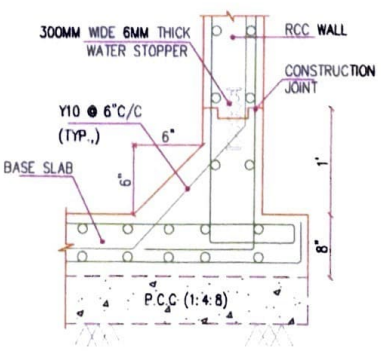
DESCRIPTION	LIVE LOAD (kN/m²)
COVER SLAB	5

CAPACITY

SUMP -01	– 12,000 Litres
SUMP -02	– 12,000 Litres
SUMP -03	– 7000 Litres

BEAM DETAIL

S No	Beam No	Beam Size	Beam Reinforcement
1	B1	9"x15"	3 – Y12 Y8 @ 6"c/c 3 – Y12



DETAIL -Z
(N.T.S)

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REVISIONS		
REF	DESCRIPTION	BY / DATE

CLIENT:
BODHI KRUTHAK ARCHITECTS.

PROJECT:
SA Homes Apartments at Coimbatore.

TITLE:
Column & Footing Layout and Details (3-3).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
HG	BK	SKAK	SKAK	23.05.25	A2	1":8"

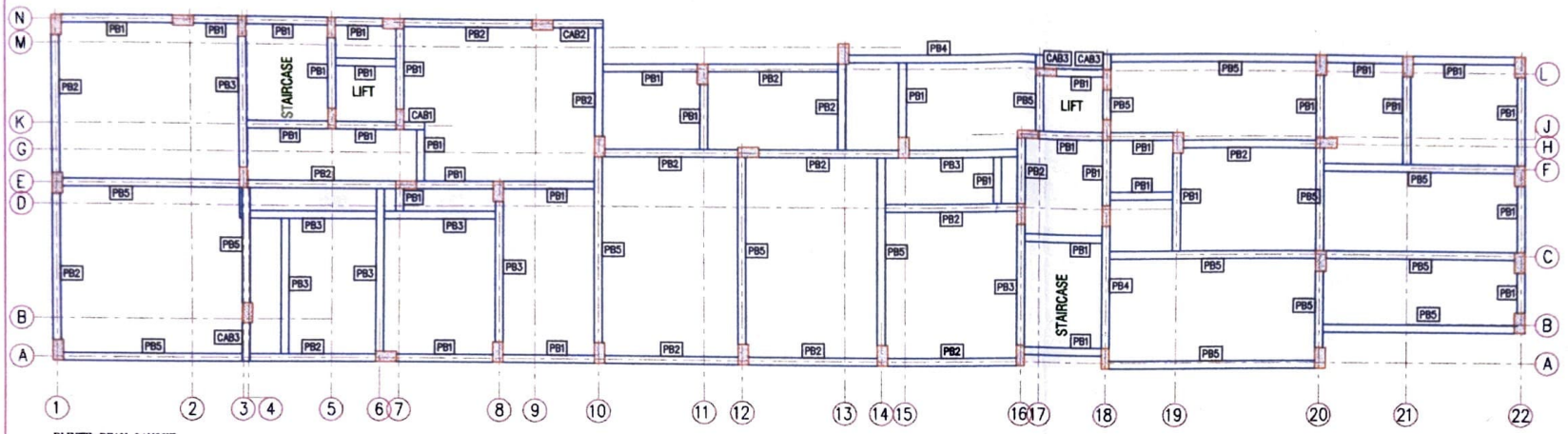
DWG NO: MAH-RS-DH-RC-081-R0

STRUCTURAL CONSULTANT

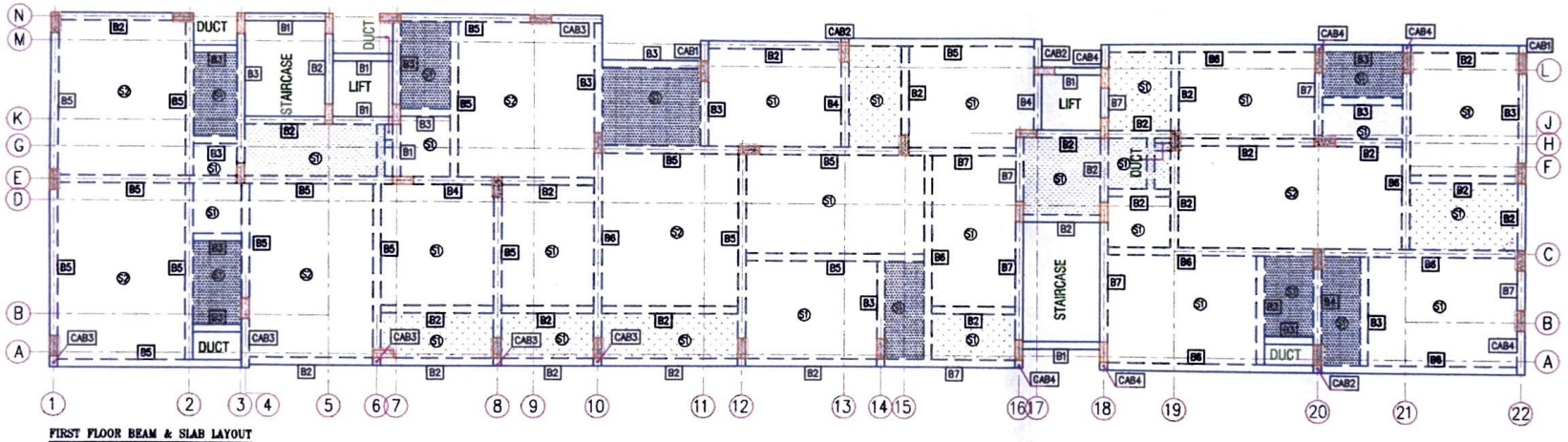
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PLINTH BEAM LAYOUT



FIRST FLOOR BEAM & SLAB LAYOUT

LEGENDS

- FULL HEIGHT COLUMN
- BEAM
- SLAB
- SLAB CUT-OUT
- BRACKET
- CONCEALED BEAM
- INVERTED BEAM
- 12" SUNKEN-TOILET
- 9" SUNKEN-BALCONY&SERVICE
- 2" SUNKEN-LOBBY

NOTE
* CHANGE LIGHT WEIGHT BRICK WALL OR 4½"WALL

CONCRETE GRADE : M25
STEEL GRADE : Fe550

PLINTH BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement		Beam Stirrups
			Main Reinforcement	Extra Reinforcement	
1	PB1/CAB1	9" x 12"	3 – Y12 (TOP) 3 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C
2	PB2/CAB2	9" x 15"	4 – Y12 (TOP) 4 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C
3	PB3	9" x 15"	2 – Y16 (TOP) 2 – Y16 (BOTTOM)	2 – Y12 (TOP END SPAN) 2 – Y12 (BOTTOM MID SPAN)	Y10@ 6" & 8" C/C
4	PB4	9" x 16"	2 – Y16 (TOP) 2 – Y16 (BOTTOM)	2 – Y12 (TOP END SPAN) 2 – Y12 (BOTTOM MID SPAN)	Y10@ 6" & 8" C/C
5	PB5/CAB3	9" x 18"	4 – Y12 (TOP) 4 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C

FIRST FLOOR BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement		Beam Stirrups
			Main Reinforcement	Extra Reinforcement	
1	B1	9" x 12"	3 – Y12 (TOP) 3 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C
2	B2	9" x 15"	2 – Y12 (TOP) 2 – Y12 (BOTTOM)	2 – Y12 (TOP END SPAN) 2 – Y12 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
3	B3/CAB1	9" x 18"	3 – Y12 (TOP) 3 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C
4	B4/CAB2	9" x 18"	4 – Y16 (TOP) 4 – Y16 (BOTTOM)	–N.A.–	Y8@ 5" C/C
5	B5	9" x 18"	3 – Y16 (TOP) 3 – Y16 (BOTTOM)	3 – Y16 (TOP END SPAN) 3 – Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
6	B6	9" x 21"	3 – Y16 (TOP) 3 – Y16 (BOTTOM)	3 – Y16 (TOP END SPAN) 3 – Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
7	B7/CAB4	9" x 21"	4 – Y16 (TOP) 4 – Y16 (BOTTOM)	–N.A.–	Y8@ 5" C/C
8	CAB3	9" x 18"	6 – Y16 (TOP) 4 – Y16 (BOTTOM)	–N.A.–	Y8@ 4" C/C

SLAB DETAIL

S No	Slab No	Slab Thickness	Slab Reinforcement
1	S1	5"	Y8@ 6",7"C/C
2	S2	6"	Y10@ 5",6"C/C

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REF	DESCRIPTION	BY	DATE

REVISIONS

CLIENT: BODHI KRUTHAK ARCHITECTS.

PROJECT: SA Homes Apartments at Coimbatore.

TITLE: Plinth, First Floor Slab, Beam Layout & Details.

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
SP	SP	SKAR	SKAR	30.06.23	A2	1:X

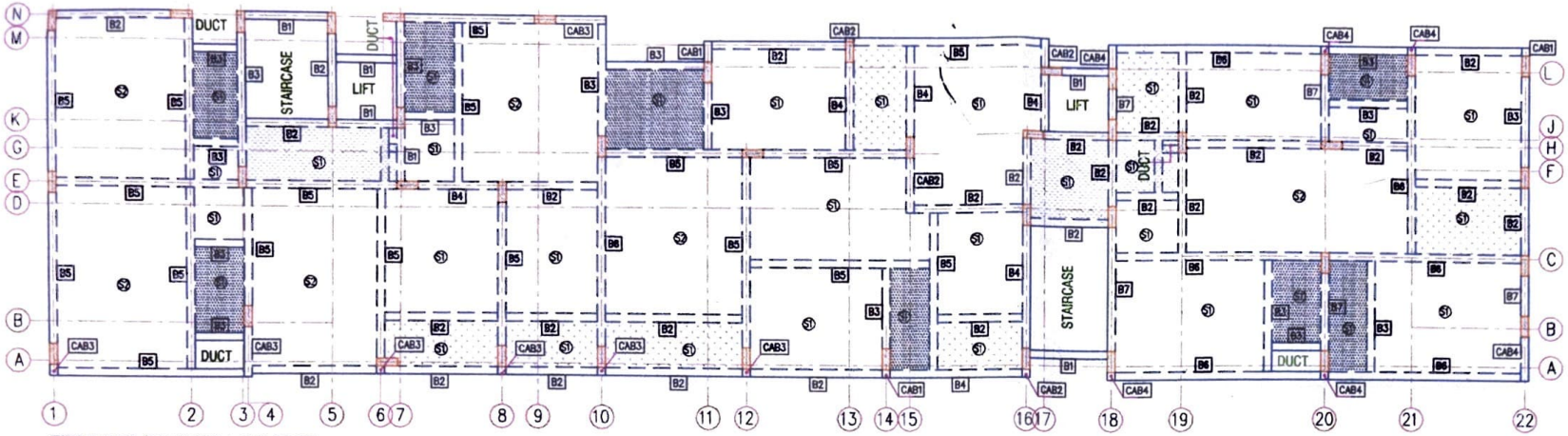
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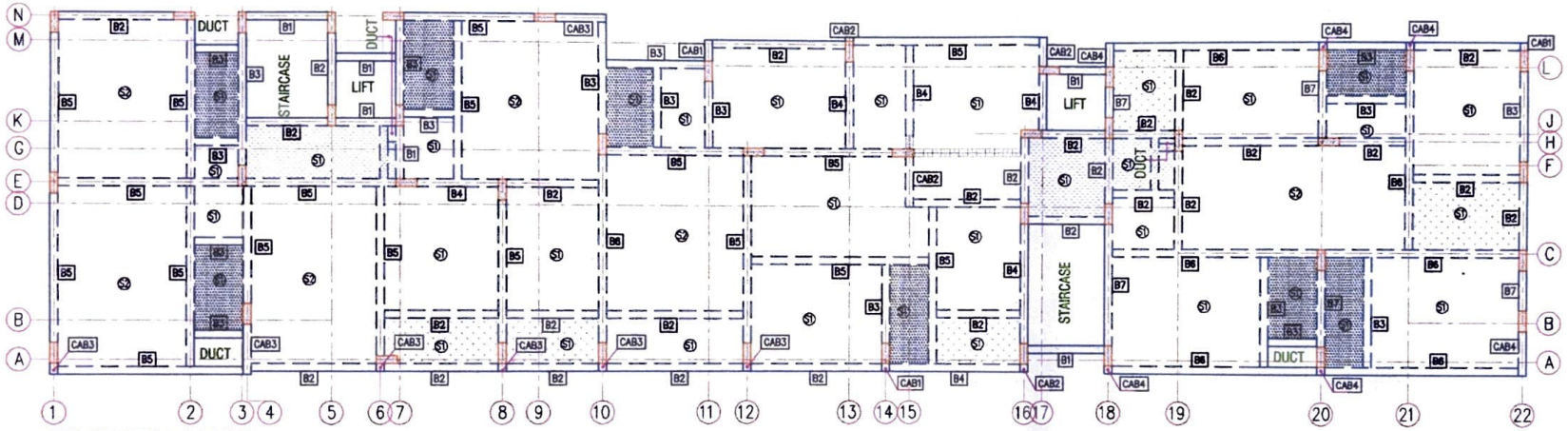
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TYPICAL FLOOR (2,3&4) BEAM & SLAB LAYOUT



FIFTH FLOOR BEAM & SLAB LAYOUT

LEGENDS

- FULL HEIGHT COLUMN
- BEAM
- SLAB
- SLAB CUT-OUT
- BRACKET
- CONCEALED BEAM
- INVERTED BEAM
- 12" SUNKEN-TOILET
- 9" SUNKEN-BALCONY&SERVICE
- 2" SUNKEN-LOBBY

NOTE
* CHANGE LIGHT WEIGHT BRICK WALL OR 4½"WALL

CONCRETE GRADE : M25
STEEL GRADE : Fe550

BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement		Beam Stirrups
			Main Reinforcement	Extra Reinforcement	
1	B1	9" x 12"	3 - Y12 (TOP) 3 - Y12 (BOTTOM)	-N.A.-	Y8@ 6" C/C
2	B2	9" x 15"	2 - Y12 (TOP) 2 - Y12 (BOTTOM)	2 - Y12 (TOP END SPAN) 2 - Y12 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
3	B3/CAB1	9" x 18"	3 - Y12 (TOP) 3 - Y12 (BOTTOM)	-N.A.-	Y8@ 6" C/C
4	B4/CAB2	9" x 18"	4 - Y16 (TOP) 4 - Y16 (BOTTOM)	-N.A.-	Y8@ 5" C/C
5	B5	9" x 18"	3 - Y16 (TOP) 3 - Y16 (BOTTOM)	3 - Y16 (TOP END SPAN) 3 - Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
6	B6	9" x 21"	3 - Y16 (TOP) 3 - Y16 (BOTTOM)	3 - Y16 (TOP END SPAN) 3 - Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
7	B7/CAB4	9" x 21"	4 - Y16 (TOP) 4 - Y16 (BOTTOM)	-N.A.-	Y8@ 5" C/C
8	CAB3	9" x 18"	6 - Y16 (TOP) 4 - Y16 (BOTTOM)	-N.A.-	Y8@ 4" C/C

SLAB DETAIL

S No	Slab No	Slab Thickness	Slab Reinforcement
1	S1	5"	Y8@ 6",7"C/C
2	S2	6"	Y10@ 5",6"C/C

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REF	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT:
BODHI KRUTHAK ARCHITECTS.

PROJECT:
SA Homes Apartments at Coimbatore.

TITLE:
Second, Third, Fourth & Fifth Floor Slab, Beam Layout & Details.

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
SP	SP	SKAK	SKAK	30.06.25	A2	1" = 8"

DWG. NO: SA-HOMES-APTS-STR-S1-S2-S3-S4-S5

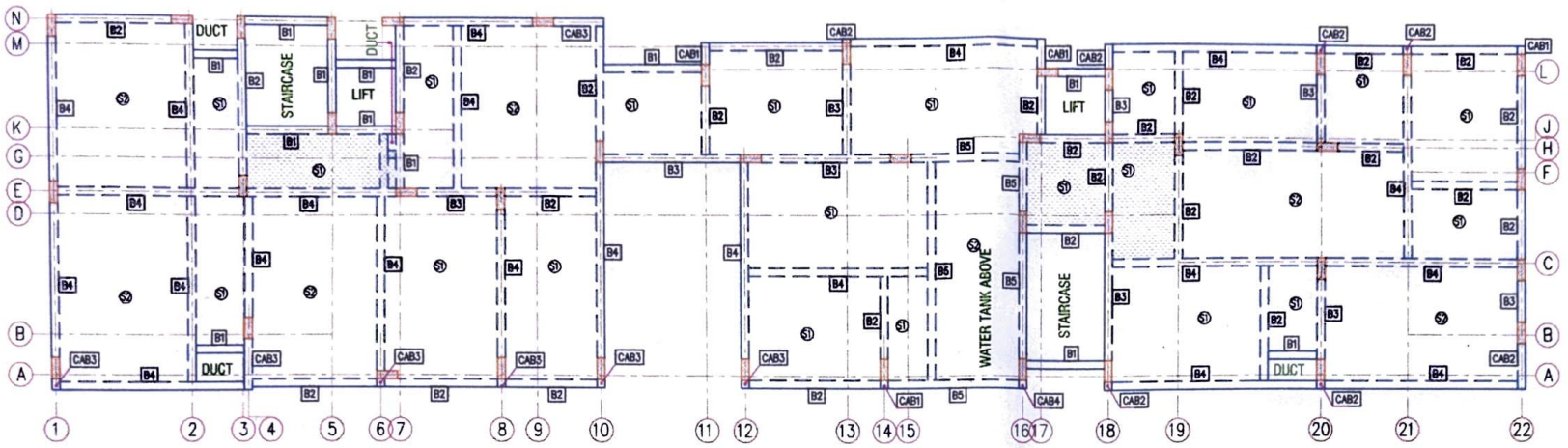
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TERRACE FLOOR BEAM & SLAB LAYOUT

LEGENDS
- FULL HEIGHT COLUMN
- BEAM
- SLAB
- SLAB CUT-OUT
- BRACKET
- CONCEALED BEAM
- INVERTED BEAM
- 12" SUNKEN-TOILET
- 9" SUNKEN-BALCONY&SERVICE
- 2" SUNKEN-LOBBY

NOTE
* CHANGE LIGHT WEIGHT BRICK WALL OR 4½" WALL

CONCRETE GRADE : M25
STEEL GRADE : Fe550

BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement		Beam Stirrups
			Main Reinforcement	Extra Reinforcement	
1	B1	9" x 12"	3 – Y12 (TOP) 3 – Y12 (BOTTOM)	–N.A.–	Y8@ 6" C/C
2	B2	9" x 15"	2 – Y12 (TOP) 2 – Y12 (BOTTOM)	2 – Y12 (TOP END SPAN) 2 – Y12 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
3	B3/CAB2	9" x 18"	4 – Y12 (TOP) 4 – Y12 (BOTTOM)	–N.A.–	Y8@ 5" C/C
4	B4	9" x 18"	2 – Y16 (TOP) 2 – Y16 (BOTTOM)	2 – Y16 (TOP END SPAN) 2 – Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
5	B5	9" x 21"	3 – Y16 (TOP) 3 – Y16 (BOTTOM)	2 – Y16 (TOP END SPAN) 2 – Y16 (BOTTOM MID SPAN)	Y8@ 5" & 6" C/C
6	CAB1	9" x 15"	4 – Y12 (TOP) 4 – Y12 (BOTTOM)	–N.A.–	Y8@ 4" C/C
7	CAB3	9" x 18"	4 – Y16 (TOP) 4 – Y16 (BOTTOM)	–N.A.–	Y8@ 5" C/C
8	CAB4	9" x 21"	5 – Y16 (TOP) 5 – Y16 (BOTTOM)	–N.A.–	Y8@ 5" C/C

SLAB DETAIL

S No	Slab No	Slab Thickness	Slab Reinforcement
1	S1	5"	Y8@ 6",7"C/C
2	S2	6"	Y10@ 5",6"C/C

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REF	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT: BODHI KRUTHAK ARCHITECTS.

PROJECT: SA Homes Apartments at Coimbatore.

TITLE: Terrace Floor Slab, Beam Layout & Details.

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
SP	SP	SKAR	SKAR	30.06.25	A2	1" = 8"

DWG NO: [illegible]

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N

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Legal & Documentation Services

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Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

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Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

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