

2.2 LOADS ARE BASED ON IS: 875

I) DEAD LOAD

a) SELF WEIGHT: AS PER DRAWING. b) FLOOR FINISH: 125Kg/Sqm

c) NO LANDSCAPE LOAD ON THE TERRACE

d) EQUIPMENT LOADS: AS PER ARCHITECTURAL/SERVICES DRG.

II) LIVE LOAD - 200Kg/sqm or 300kg/sqm as per DBR

2.3 WIND LOADS ARE BASED ON IS:875 PART III AND ARE AS FOLLOWS:

BASIC WIND SPEED 47 M/SEC 2.4 SEISMIC LOAD

ZONE

: ||| ZONE FACTOR : 0.16

IMPORTANCE FACTOR : 1.2

3. CONCRETE

3.1 GRADE OF CONCRETE FOUNDATION & RET. WALL (M30) COLUMN (AS PER SCHEDULE) GR. FLOOR BEAM & SLAB (M35) 1ST. FLOOR BEAM & SLAB (M35)

2ND. FLOOR BEAM & SLAB (M35) 3RD. FLOOR BEAM & SLAB (M35) TYP. FLOOR BEAM & SLAB (M30)

3.2 MAXIMUM SIZE OF AGGREGATE SHALL PREFERABLY BE 20mm AND SHALL BE GRADED

3.3 PLAIN CEMENT CONCRETE SHALL HAVE CUBE STRENGTH OF 15 N/mm² AT 28 DAYS.

3.4 ALL CONCRETE SHALL BE OF DESIGN MIX AND ARE TO BE OBTAINED FROM REPUTED TESTING LABORATORIES AND APPROVED BY CONSULTANTS. THE MATERIALS THAT ARE PROPOSED TO BE USED IN THE PROJECT SHALL BE TESTED AND TEST CERTIFICATE FURNISHED BEFORE USE OF MATERIAL

AT SITE. 3.5 PILE CONCRETE:

a) SLUMP VALUE FOR PILE CONCRETE SHOULD BE 150-180MM AS PER IS 2911-(PART I / SEC I)-2010 AS PER CLAUSE 7.3.2 PAGE 7. b) MINIMUM GRADE OF CONCRETE M25 & MINIMUM CEMENT CONTENT 400 KG/CUM. AS PER CLAUSE 7.3.3 OF IS 2911-(PART I / SEC I)-2010 PAGE 7.

4. REINFORCING STEEL

4.1 ALL REINFORCING STEEL SHALL CONFIRM TO IS:1786-2008 HAVING MIN. YIELD STRENGTH OF 500 N/mm² DENOTED AS --- '\pa'

5. SOIL DATA

1) SOIL CAPACITY AS PER SOIL TEST REPORT

7. EXCAVATION

7.1 100THK BLINDING SHALL BE

PROVIDED UNDER RAFT, INDEPENDENT AND COMBINED FOOTINGS.

7.2 EXCAVATION SHALL BE DONE BEYOND THE FOOTING/BASEMENT AS INDICATED IN THE DRAWINGS.

7.3 LOOSE POCKETS OF ENCOUNTERED SHALL BE REMOVED AND FILLED WITH PLUMB CONCRETE.

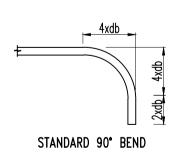
7.4 A LEVELING COURSE OF CONCRETE SHALL BE LAID USING P.C.C 1:2:4 PRIOR TO FOUNDATION S REQUIRED.

7.5 FOUNDATION SHALL BE LAID BELOW TOP WEAK ZONE IN WEATHERED ROCK STRATA.

8. DEVELOPMENT AND ANCHORAGE LENGTHS

8.1 DEVELOPMENT LENGTH (Ld) FOR REINFORCEMENT STEEL BARS SHALL BE i) M30-46D,M35-40D,Fe500

(D IS DIA OF THE BAR) (GENERALLY 50D FOLLOWED FOR SITE CONVENIENCE)



8.2 LAPS FOR REINFORCEMENT IN COMPRESSION SHALL BE ACCOUNTED ONLY AS STRAIGHT LENGTHS AND NO HOOKS OR BENDS ARE ACCOUNTED FOR COMPRESSION

LAPS OR ANCHORAGES. 8.3 STANDARD HOOKS OR BENDS SHALL BE PROVIDED WHERE NECESSARY IN TENSION REINFORCEMENTS IN BEAMS, COLUMNS, SLABS, ETC.

8.4 MECHANICAL ANCHORAGES OF APPROVED MANUFACTURERS SHALL BE USED FOR COLUMN SPLICES FOR 25mm DIA AND ABOVE AND ARE TO BE AS PER DESIGN DRAWINGS AND SHALL HAVE YEILD STRENGTH OF 125% MORE THAN GRADE OF MAIN STEEL.

8.5 LAPS SHALL BE STAGGERED AS INDICATED IN DRAWINGS.

9. WATER PROOFING

9.1 WATER PROOFING SHALL BE DONE FOR: SUMP TANKS, OVERHEAD TANK, BASEMENT WALLS, TOILET SLABS, TERRACE. AS PER SPECIFICATIONS.

OVER 6.0M: 21 DAYS

c. WALL/BEAM/COLUMN VERTICAL FACES: 1 DAY

11.2 SHUTTERING CAN BE RELEASED EARLIER THAN SPECIFIED ABOVE PROVIDED THE PROPS ARE RETAINED AT REASONABLE SPACINGS AND CONCRETE ATTAINS THE FULL STRENGTH AT THE TIME OF DESHUTTERING AS PER IS 456 - 2000. DE SHUTTERING SHALL BE DONE BY PROVIDING DAMPENING MATERIAL BELOW IN ORDER TO REDUCE THE IMPACT AT THE LOWER LEVEL.

11.3 SIMPLY SUPPORTED AND CONTINUOUS SPANS SHALL BE DESHUTTERED FROM MID SPAN TOWARDS SUPPORTS.

CANTILEVERS SHALL BE DESHUTTERED FROM FREE END TOWARDS SUPPORTS 11.4 SLAB/BEAMS SHALL BE REPROPPED UNTIL THE NEXT LEVEL SLAB IS CAST AND DESHUTTERED.

12. CONSTRUCTION JOINTS

12.1 SLABS : AT MIDDLE ONE THIRD OF THE SPAN. 12.2 BEAMS : AT MIDDLE ONE THIRD OF THE SPAN. IF ANY CROSS BEAMS ARE LOCATED IN THIS REGION THE JOINT SHALL BE LOCATED TWO TIMES THE WIDTH OF THE BEAM AWAY FROM THE BEAM.

12.3 RETAINING WALL : AT THE JUNCTION OF THE WALL AND FOOTING WITH A KEY JOINT AND AT MIDDLE OF VERTICAL SPAN, VERTICAL JOINTS TO BE AVOIDED.

12.4 RAFT SLAB : AT MIDDLE ONE THIRD OF THE SPAN.

12.5 CONSTRUCTION JOINTS SHALL BE STRAIGHT 12.6 CANTILEVERS: CONSTRUCTION JOINT SHALL NOT BE PROVIDED

13. ADMIXTURE

IN CANTILEVERS.

13.1 CONCRETE ADMIXTURES OF APPROVED MAKE SHALL BE USED TO IMPROVE WORKABILITY AND STRENGTH AS PER TENDER SPECIFICATIONS.

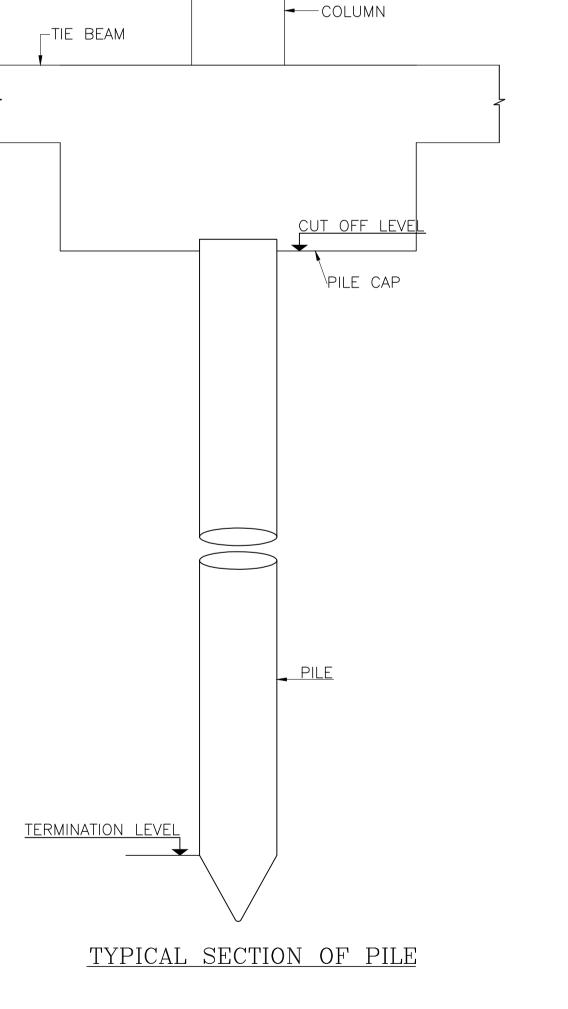
13.2 CONCRETE ADMIXTURES OF APPROVED MAKE SHALL BE USED FOR WATER PROOFING AS PER TENDER SPECIFICATIONS.

14. CONSULTANTS APPROVAL

14.1 CONSULTANTS SHALL APPROVE THE CONCRETING SURFACE AFTER INSPECTION AND REMEDIAL MEASURES IF ANY TO BE DONE BEFORE ANY PLASTERING WORK IS TAKEN UP ON CONCRETE SURFACE. HOWEVER THIS DOES NOT DEVOLVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR GETTING THE REQUIRED STRENGTH OF CONCRETE.

15. CAMBER FOR CANTILEVERS

FOR UP TO 1.5M CANTILEVERS --- 10MM FROM 1.5M TO 2.5M CANTILEVERS -- 15MM



SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF STRUCTURAL REVIEWER

CERTIFICATE OF LBS/ARCHITECT

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CERTIFICATE OF GEO-TECHNICAL ENGINEER

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SIGNATURE OF GEO TECHNICAL ENGINEER

SIGNATURE OF OWNER

GENERAL NOTE

PROJECT

PROPOSED B+G+X (35.5 M.) PREDOMINANT RESIDENTIAL AND PARTLY COMMERCIAL (BELLOW 25%) BUILDING AT MOUZA-PARBATIPUR, JL NO.- 214, L.R. DAG NO.- 925,

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ARCHITECT



ADROIT:

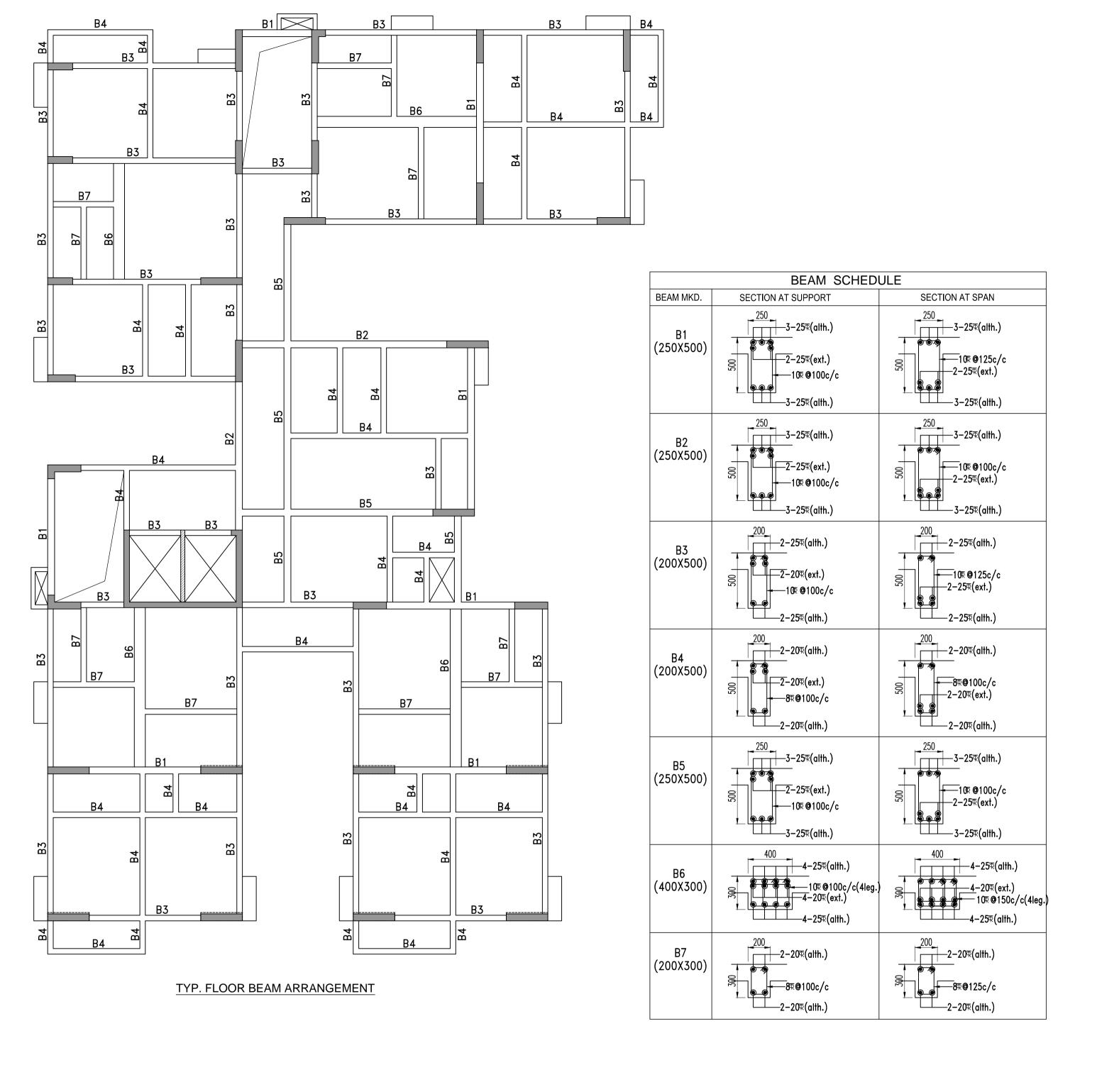
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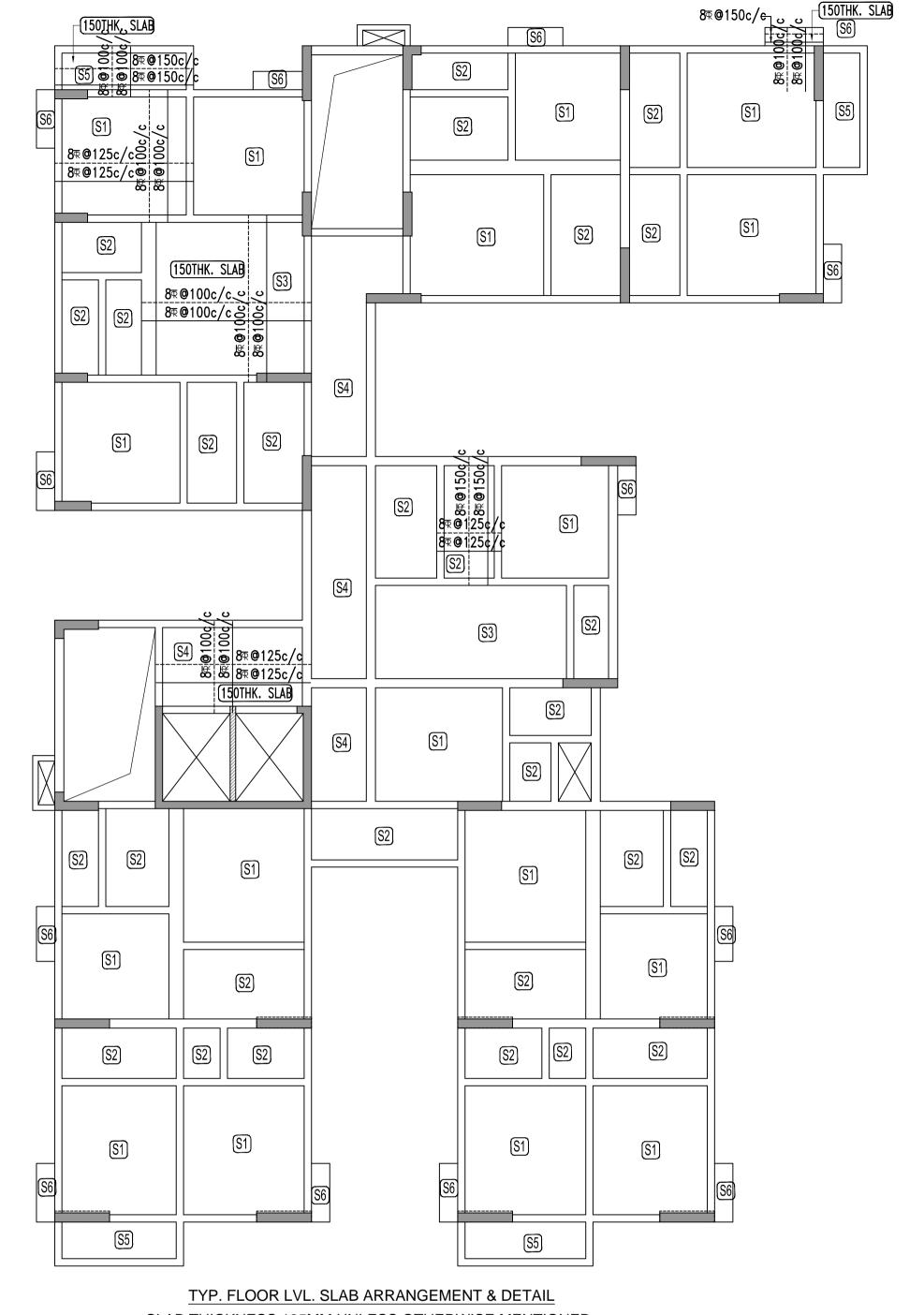
SCALE:- N:T:S

DRAWN BY:- SM

DATE:- 25.11.2024

RAJ AGRAWAL & ASSOCIATES





SLAB THICKNESS 125MM UNLESS OTHERWISE MENTIONED

<u>LEGEND</u> TOP BARS BOTT. BARS-

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TYP. FLOOR BEAM, SLAB ARRANGEMENT & SCHEDULE

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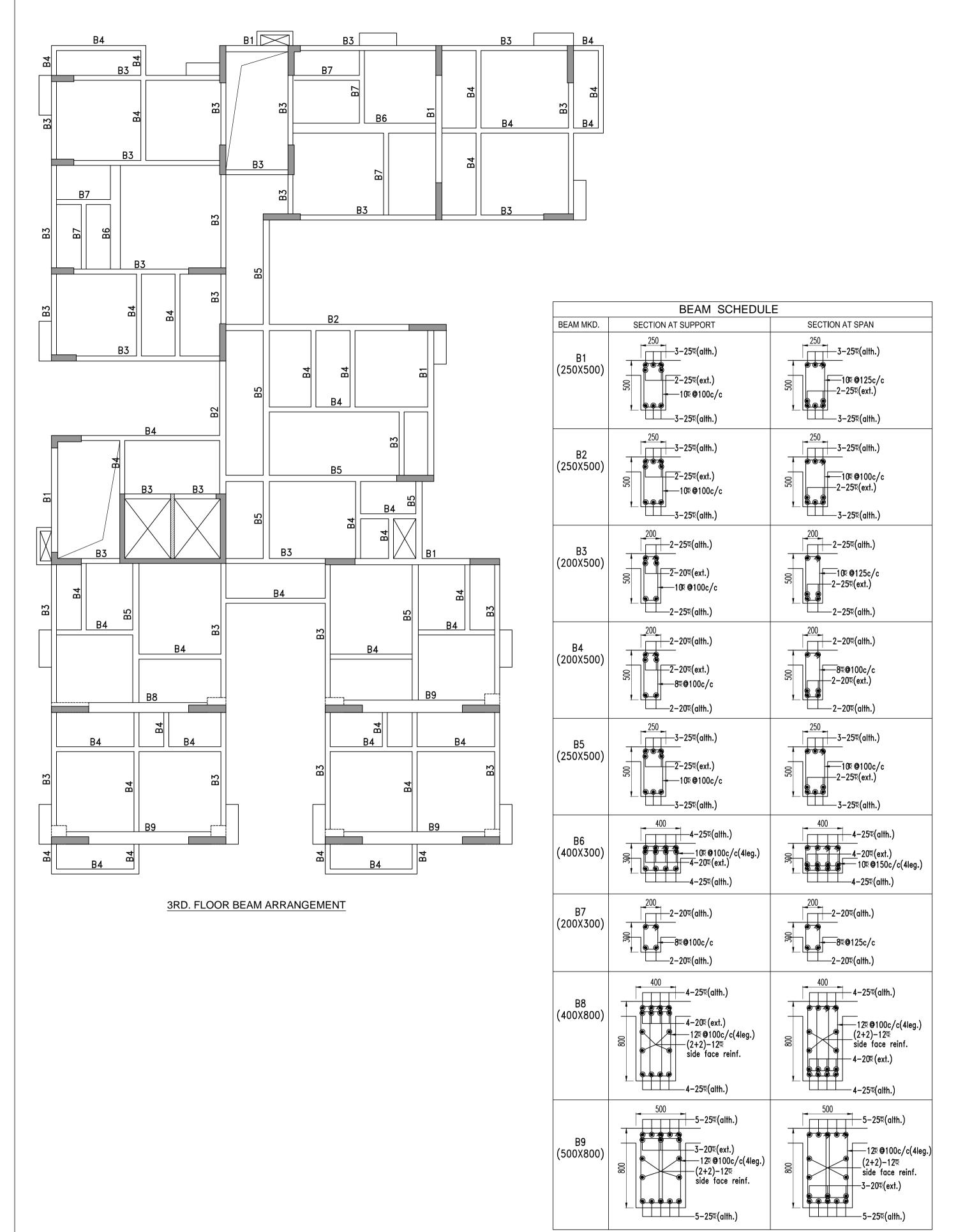
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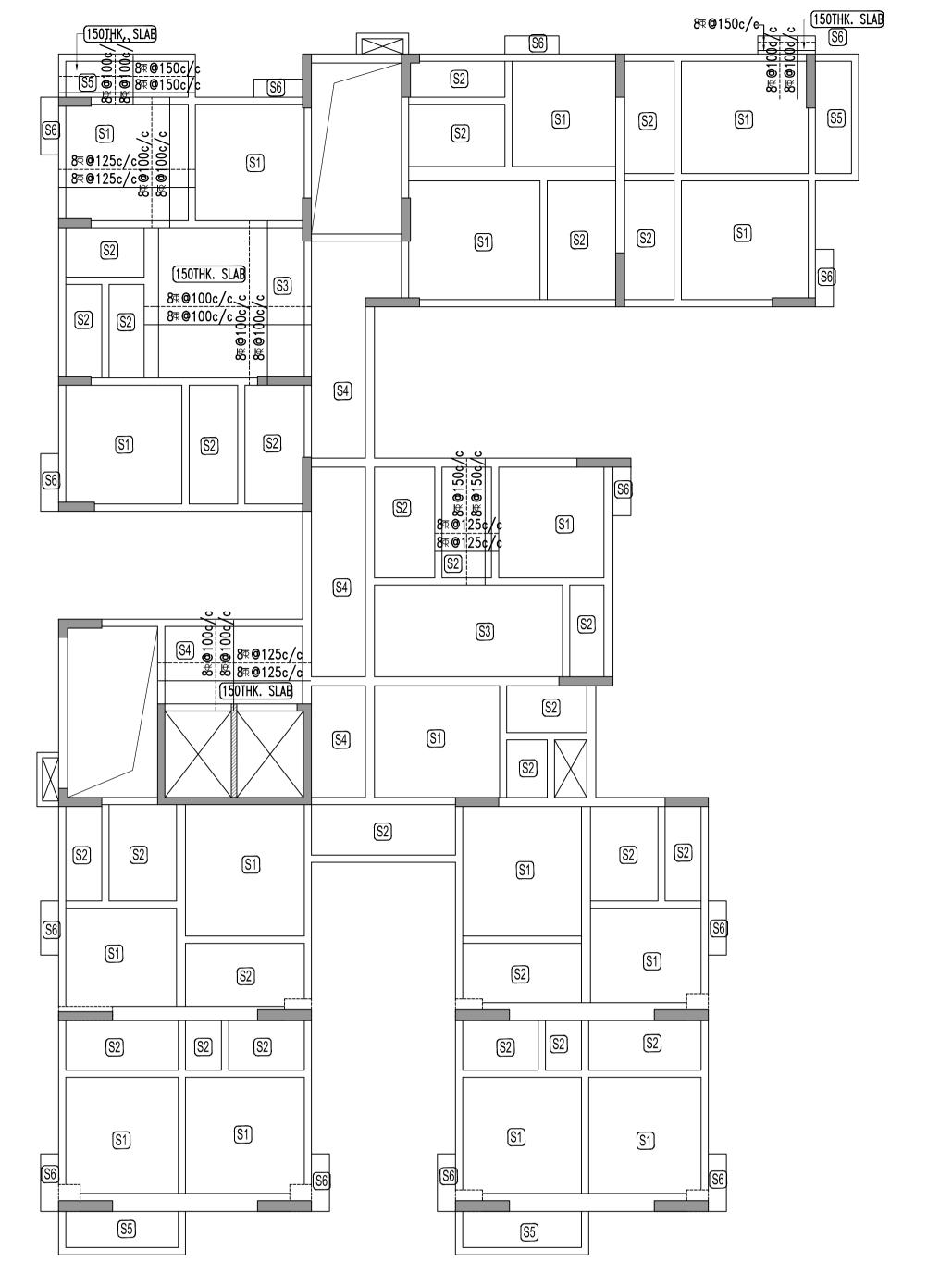


SIGNATURE OF GEO TECHNICAL ENGINEER

APPROVED BY:- MM | DRG. NO:- E

DRAWN BY:- SM | SCALE:- 1:100,25 | DATE:- 25.11.2024





3RD. FLOOR LVL. SLAB ARRANGEMENT & DETAIL SLAB THICKNESS 125MM UNLESS OTHERWISE MENTIONED

<u>LEGEND</u> TOP BARS -----BOTT. BARS-

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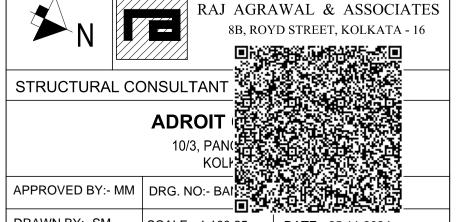
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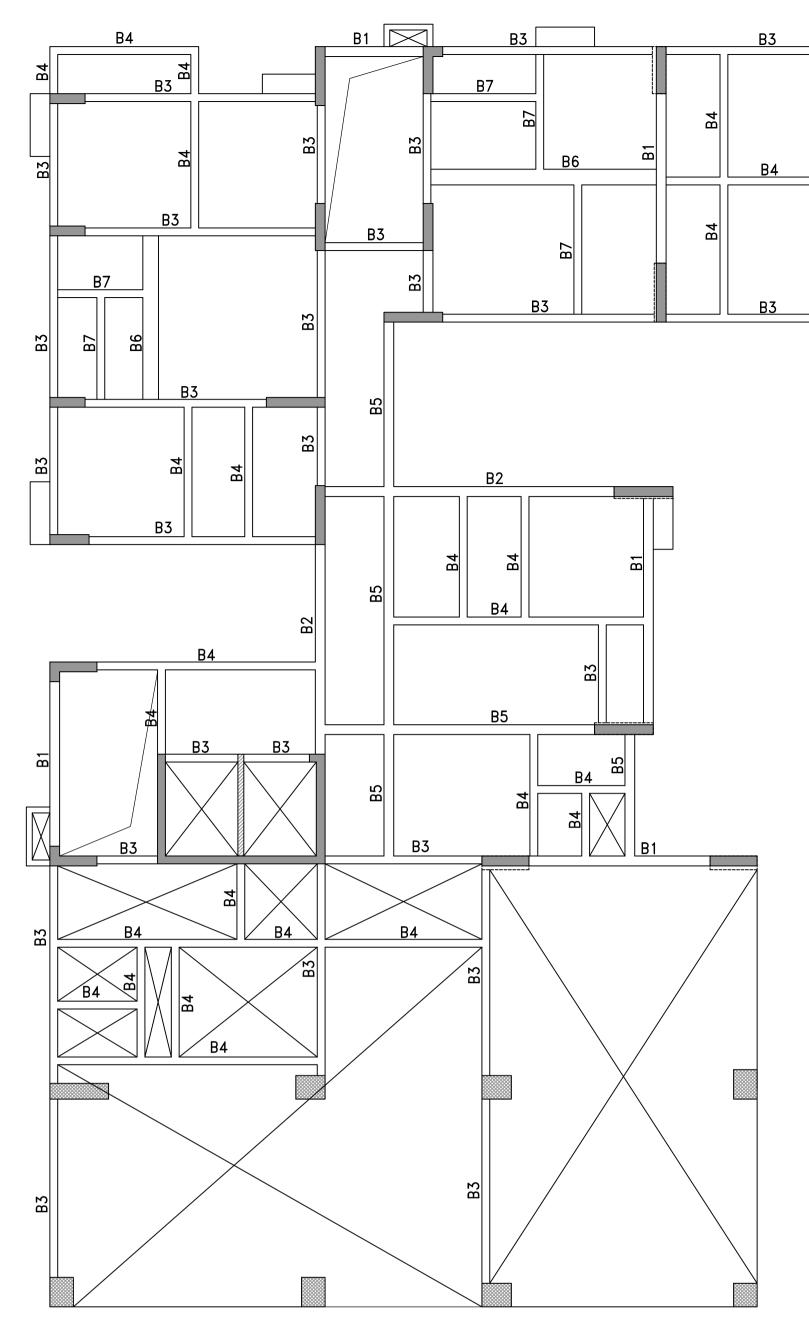
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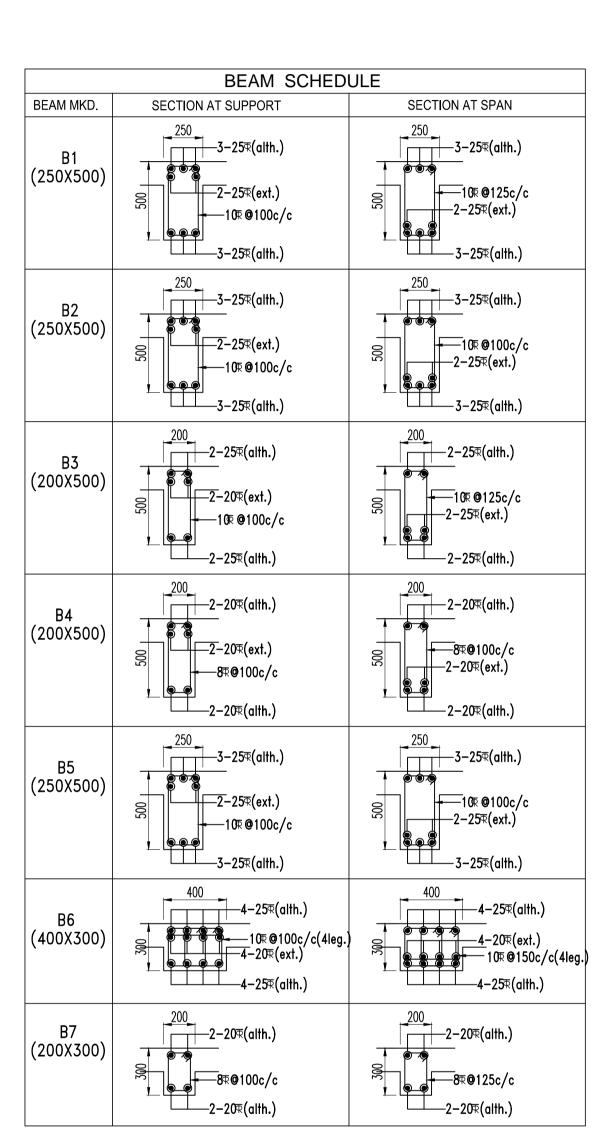
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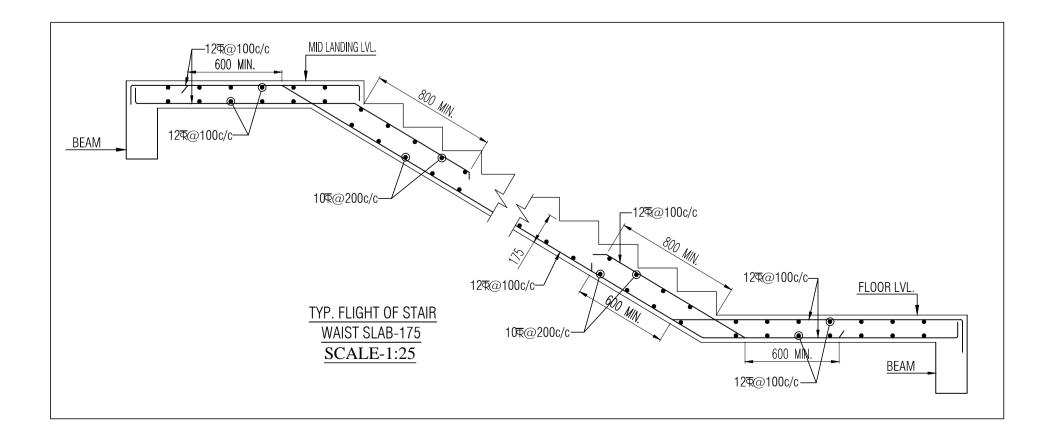
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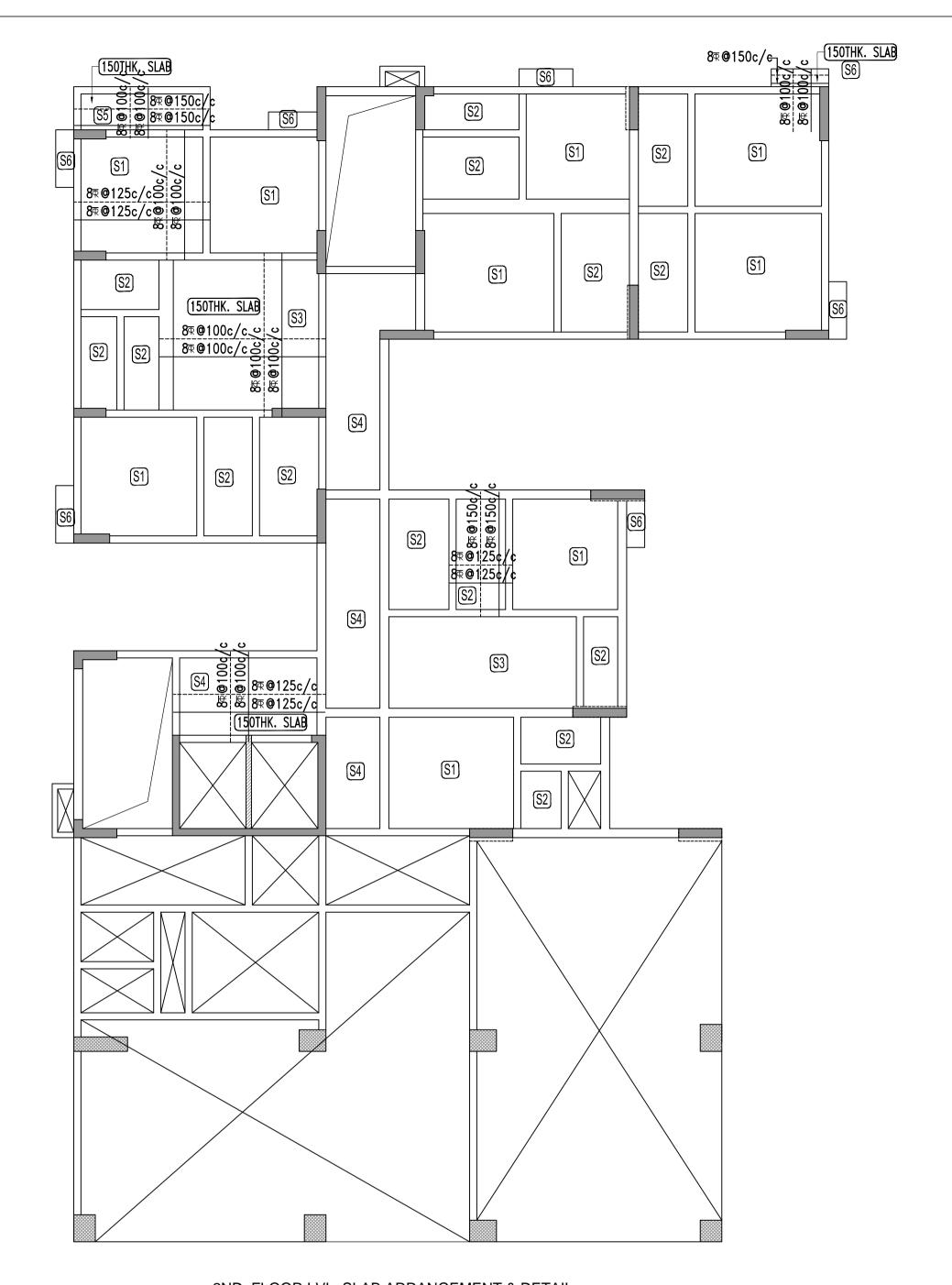
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SIGNATURE OF OWNER

TITLE- 2ND. FLOOR BEAM, SLAB ARRANGEMENT & SCHEDULE TYP. STAIR DETAIL

PROJECT

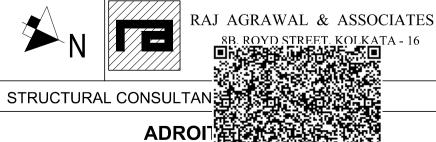
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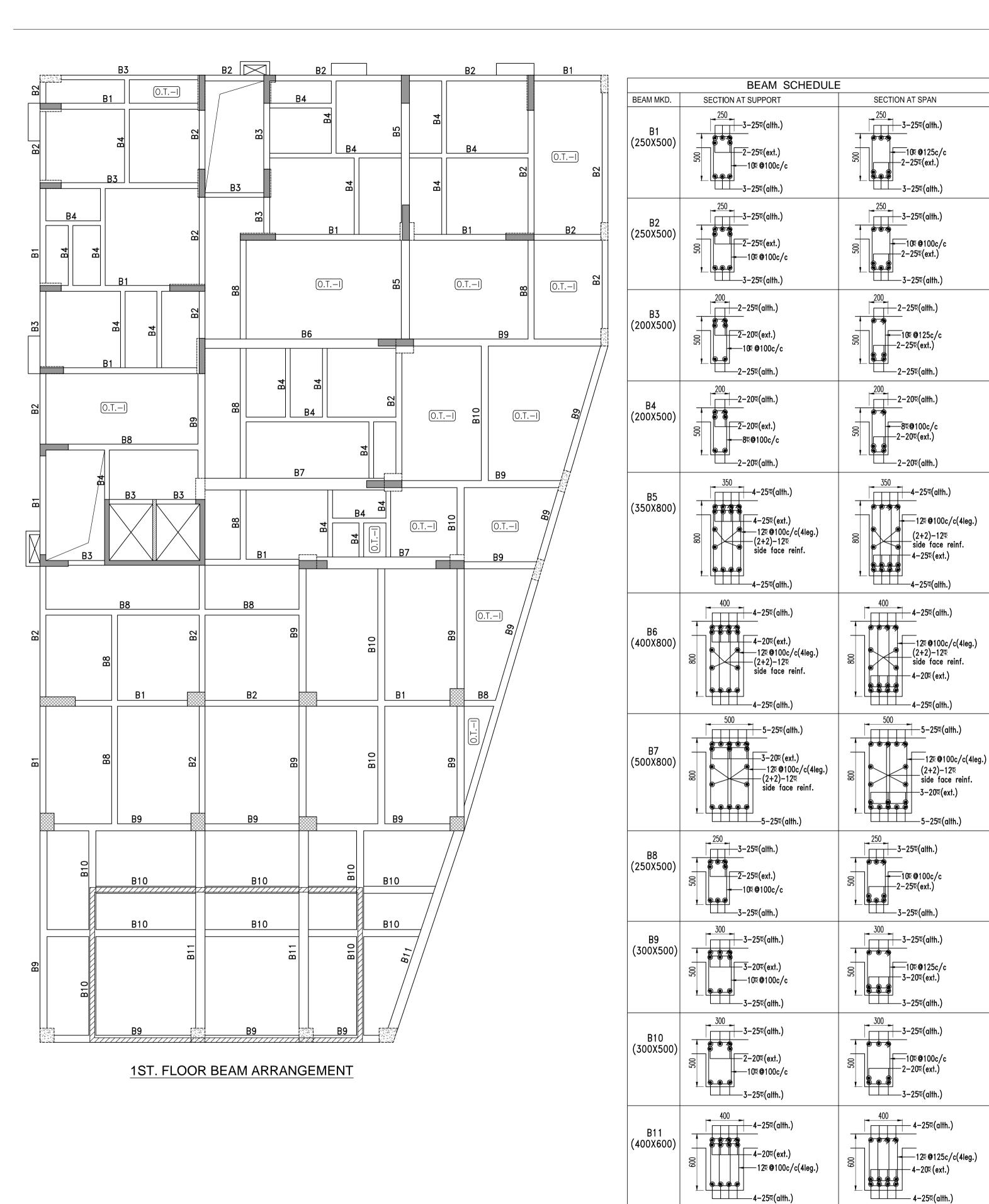
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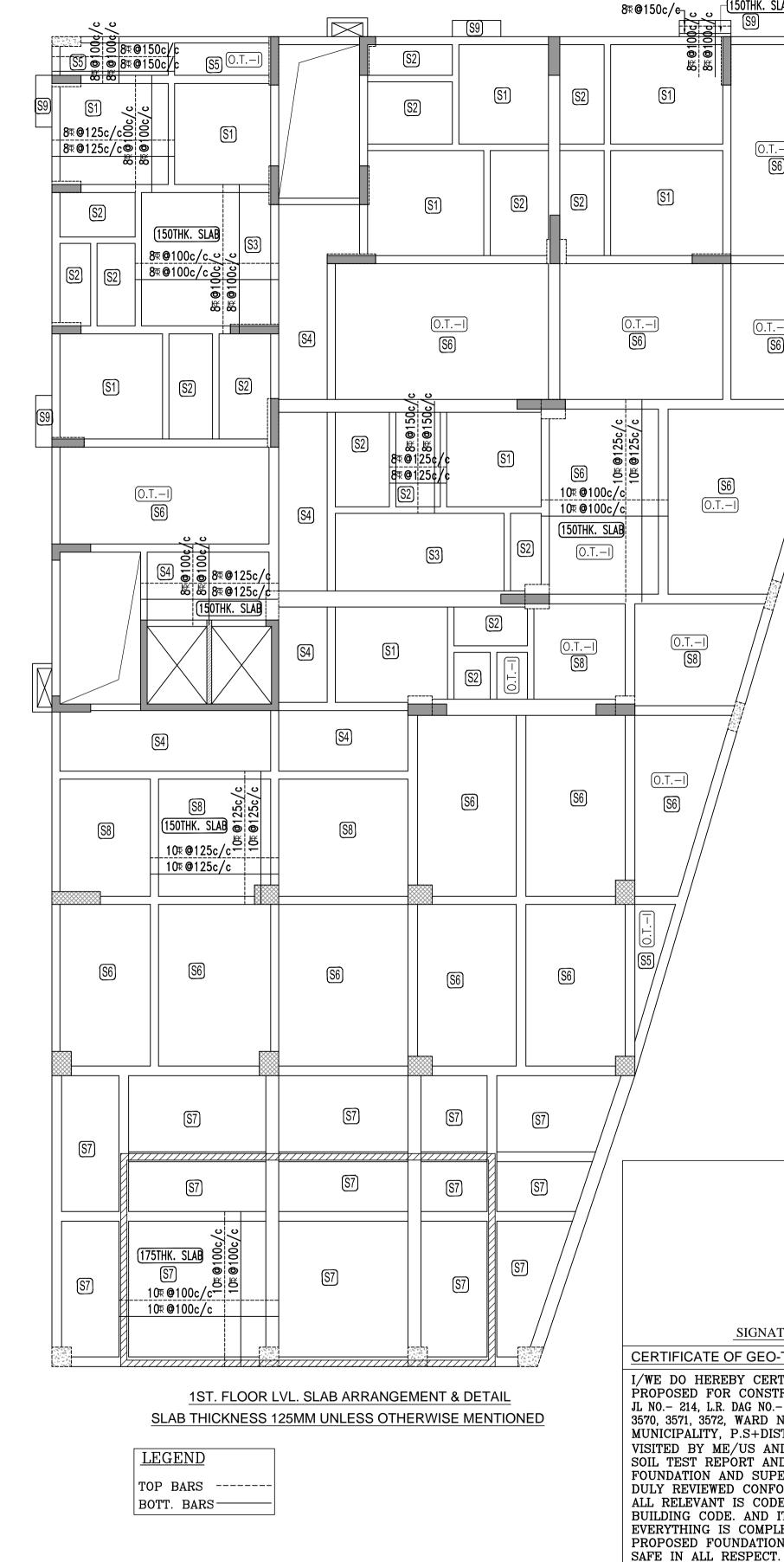
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SCALE:- 1:100,25





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AND SECTIONS AND OTHER STRUCTURAL DETAILS OF THE PROPOSED BUILDING ON MOUZA-PARBATIPUR, JL NO.- 214, L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572, WARD NO - 13, UNDER BANKURA MUNICIPALITY, P.S + DIST - BANKURA HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVENT PROVISIONS UNDER THE WEST BENGAL MUNICIPAL BUILDING RULES, 2007. THIS ALSO TO CERTIFY THAT ALL RELEVANT 'NO OBJECTION' CERTIFICATES FROM THE RESPECTIVE AUTHORITY SUCH AS, FIRE AND EMERGENCY SERVICES DEPARTMENT, AIRPORT AUTHORITY, POLLUTION CONTROL BOARD, TELECOMMUNICATION DEPARTMENT ETC. AS APPLICABLE IN THIS REGARD, ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT OF THE BUILDING ON THE SAID PLOT.

SIGNATURE OF ARCHITECT / L.B.S.

SIGNATURE OF OWNER CERTIFICATE OF GEO-TECHNICAL ENGINEER

I/WE DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION ON MOUZA-PARBATIPUR, JL NO.- 214, L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572, WARD NO - 13, UNDER BANKURA MUNICIPALITY, P.S+DIST. - BANKURA HAS BEEN VISITED BY ME/US AND ALL THE DESIGNS, DRAWING, SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPER STRUCTURE HAVE BEEN DULY REVIEWED CONFORMING TO STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE. AND IT IS FOUND THAT EVERYTHING IS COMPLETELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPERSTRUCTURE ARE

TITLE- 1ST. FLOOR BEAM, SLAB ARRANGEMENT & SCHEDULE

PROJECT

PROPOSED B+G+X (35.5 M.) PREDOMINANT RESIDENTIAL AND PARTLY COMMERCIAL(BELLOW 25%) BUILDING AT MOUZA-PARBATIPUR, JL NO.- 214,

L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572, WARD NO- 13, UNDER BANKURA MUNICIPALITY, P.S+DIST-BANKURA.





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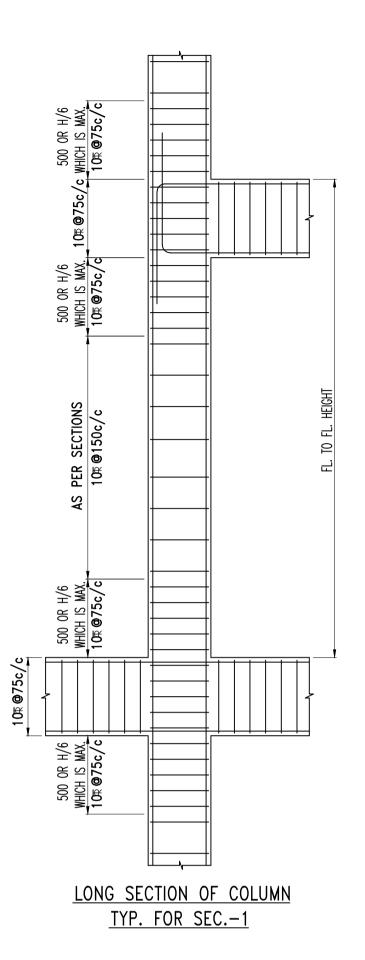
SIGNATURE OF GEO TECHNICAL ENGINEER

APPROVED BY:- MM | DRG. NO DRAWN BY:- SM

C	200	SIZE		250X1500	500X250+ 250X1200		900X250	250X1200	1500X250	1000X250	250X1500	1200X250+ 250X500				AS IN LAYOUT
	വ	STEEL		32-20T	12-25T+16-20T		8-25T+10-20T	8-20T+16-16T	12-25T+16-20T	20-20T	12-25T+18-20T	28-20T				32-20T+140-16T
11001	M30:F6	LINKS		SEC-1	SEC-1		SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1				SEC-1
	200	SIZE		250X1500	500X250+ 250X1200		900X250	250X1200	1500X250	1000X250	250X1500	1200X250+ 250X500				AS IN LAYOUT
1ST. FL. TO 5TH. FL.	M35:Fe 5	STEEL		12-25T+20-20T	- 28-25T		12-25T+6-20T	16-20T+8-16T	12-25T+16-20T	8-25T+12-20T	20-25T+10-20T	8-25T+20-20T				100-20T+72-16T
01111121	M3	LINKS		SEC-1	SEC-1		SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1				SEC-1
	200	SIZE	900X300	300X1500	500X300+ 300X1200	300X750	900X350	300X1200	1500X300	1000X300	350X1500	1200X250+ 250X500	300X900	600X600	800/600X600	AS IN LAYOUT
	M35:Fe 5	STEEL	20-20T	22-25T	28-25T	8-25T+10-20T	18-25T	8-25T+16-20T	12-25T+16-20T	12-25T+8-20T	20-25T+10-20T	20-25T+8-20T	20-20T	12-25T+8-20T	12-25T+8-20T	196-20T
	M3	LINKS	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1
COLUMN MARKIN		(ING	C1	C2,C5,	C3	C6,C14,C20	C7,C8,C15,	C9,C10,C13	C11,C16	C17	C18	C21,C24	C23,C27	C36,C37,C38	C39	LIFT
	OOLOWN WIN															

	500	SIZE	250X1200	250X1500	1500X250	1200X250	1200X250	
5TH. FL. TO ROOF	M30:Fe 5	STEEL	24-25T	24-25T+8-20T	12-25T+16-20T	12-25T+12-20T	12-25T+14-20T	
	M3(LINKS	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	
	500	SIZE	250X1200	250X1500	1500X250	1200X250	1200X250	
2ND. FL. TO 5TH. FL.	M35:Fe 5	STEEL	24-25T	32-25T	20-25T+8-20T	20-25T+4-20T	20-25T+4-20T	
	M3	LINKS	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	
	500	SIZE	350X1200	300X1500	1500X300	1200X350	1200X350	
1ST. FL. TO 2ND. FL.	M35:Fe 5	STEEL	26-25T	32-25T	28-25T	20-25T+6-20T	26-25T	
	M3	LINKS	SEC-1	SEC-1	SEC-1	SEC-1	SEC-1	
	200	SIZE	350X1200	600X750	750X750	750X600	600X600	
FOUNDATION TO 1ST. FL.	M35:Fe 5	STEEL	26-25T	26-25T	24-25T	26-25T	24-25T	
	Mä	LINKS	SEC-1	SEC-1	SEC-1 SEC-1		SEC-1	
COLUM	N MARK	(ING	C4	C12,C19	C22	C25	C26	

	500	SIZE	1500X250	1500X250	1500X250	
5TH. FL. TO ROOF	M30:Fe 5	STEEL 32-20T 8-25T+20-20		8-25T+20-20T	16-25T+12-20T	
	M3(LINKS	SEC-1	SEC-1	SEC-1	
	500	SIZE	1500X250	1500X250	1500X250	
4TH. FL. TO 5TH. FL.	M35:Fe 5	STEEL	32-20T	12-25T+16-20T	20-25T+8-20T	
	M3	LINKS	SEC-1	SEC-1	SEC-1	
	500	SIZE	1500X250	1500X300	1500X300	
3RD. FL. TO 4TH. FL.	M35:Fe 5	STEEL	32-20T	20-25T+8-20T	20-25T+8-20T	
	M3	LINKS	SEC-1	SEC-1	SEC-1	
	500	SIZE	1500X400	750X600	600X600	
FOUNDATION TO 3RD. FL.	M35:Fe 5	STEEL	12-25T+20-20T	26-25T	20-25T	
	M3	LINKS	SEC-1	SEC-1	SEC-1	
COLUM	N MARK	ING	C28	C29,C30,C31, C32,C33,C34	C35	



I/WE DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION ON MOUZA-PARBATIPUR, JL NO.- 214, L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572, WARD NO - 13, UNDER BANKURA MUNICIPALITY, P.S+DIST. - BANKURA HAS BEEN VISITED BY ME/US AND ALL THE DESIGNS, DRAWING, SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPER STRUCTURE HAVE BEEN DULY REVIEWED CONFORMING TO STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE. AND IT IS FOUND THAT EVERYTHING IS COMPLETELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPERSTRUCTURE ARE SAFE IN ALL RESPECT.

SIGNATURE OF STRUCTURAL REVIEWER

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CERTIFICATE OF LBS/ARCHITECT

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SIGNATURE OF OWNER

CERTIFICATE OF GEO-TECHNICAL ENGINEER

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SIGNATURE OF ARCHITECT / L.B.S.

TITLE- COLUMN SCHEDULE

PROJECT

PROPOSED B+G+X (35.5 M.) PREDOMINANT RESIDENTIAL AND PARTLY MOUZA-PARBATIPUR, JL NO.- 214,

L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572,

ARCHITECT





RAJ AGRAWAL & ASSOCIATES 8R ROYD STREET. KOLKATA - 16

STRUCTURAL CONSULTAN

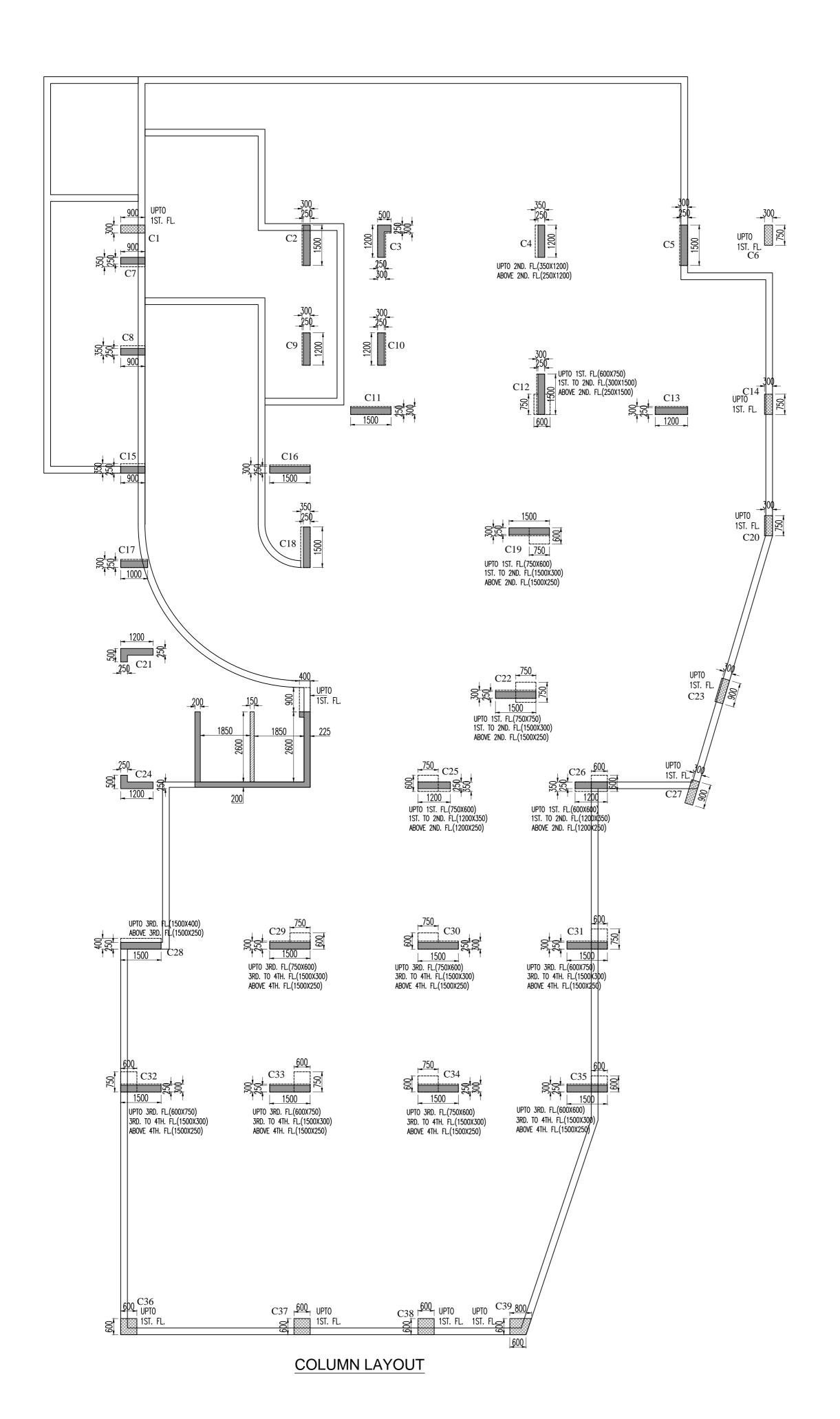
APPROVED BY:- MM | DRG. NO:- E

SIGNATURE OF GEO TECHNICAL ENGINEER

DRAWN BY:- SM

DATE:- 25.11.2024





COLUMN LEGEND:-NON STR. WALL ABOVE 1ST. FL. UPTO 1ST. FL. FDN. TO 1ST. FL. ** OTHER COLUMN SPECIFICALLY MENTIONED IN COLUMN SIZE.

SIGNATURE OF OWNER

CERTIFICATE OF GEO-TECHNICAL ENGINEER

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SIGNATURE OF ARCHITECT / L.B.S.

TITLE-**COLUMN LAYOUT**

PROJECT

SAID PLOT.

PROPOSED B+G+X (35.5 M.) PREDOMINANT RESIDENTIAL AND PARTLY COMMERCIAL(BELLOW 25%) BUILDING AT MOUZA-PARBATIPUR, JL NO.- 214, L.R. DAG NO.- 925, L.R. KH. NO- 1839, 3569, 3570, 3571, 3572,

WARD NO- 13, UNDER BANKURA MUNICIPALITY, P.S+DIST-BANKURA. ARCHITECT



RAJ AGRAWAL & ASSOCIATES 8B, ROYD STREET, KOLKATA - 16

STRUCTURAL CONSULTANT:-

ADROIT CONSULTANT

10/3, PANCHANANTALA ROAD KOLKATA 700029

APPROVED BY:- MM | DRG. NO:- BANKURA/CORP./ ST-03 DRAWN BY:- SM DATE:- 25.11.2024

SCALE:- 1:100

