

SCHEDULE OF RAFT FOUNDATION

BEAM MARKING	SIZE (MM)	(RAFT SLAB THK.) (MM)	REINFORCEMENT TO RAFT BEAM		REINFORCEMENT TO RAFT SLAB
			AT SUPPORT	AT MID-SPAN	
ALL RAFT BEAM	750 x 750	250 MM	6 x 25T -TOP 6 x 25T -BOTTOM	6 x 25T -TOP 6 x 25T -BOTTOM	16T @150 C/C (BOTH WAYS & FACES)
			10T - 4L- @ 150 C/C	10T - 4L- @ 150 C/C	

SCHEDULE OF R.C.C. COLUMNS

COLUMN MARKING	SIZE	REINFORCEMENT					
		UP TO 1ST FLOOR LEV. + LAP LENGTH	UP TO 2ND FLOOR LEV. + LAP LENGTH	UP TO 3RD FLOOR LEV. + LAP LENGTH	UP TO 4TH FLOOR LEV. + LAP LENGTH	UP TO ROOF LEV. + LAP LENGTH	ABOVE ROOF LEV. (where ever is applicable)
ALL OTHER COLUMN	300 x 500	8 x 25T + 4 x 20T	8 x 25T + 4 x 20T	8 x 20T + 4 x 16T	8 x 20T + 4 x 16T	8 x 20T + 4 x 16T	12 x 16T
C7,C8,C9, C10,C11, C12,C14,C15 C20,C21	300 x 500	12 x 25T	12 x 25T	8 x 25T + 4 x 20T	8 x 25T + 4 x 20T	8 x 25T + 4 x 20T	12 x 16T

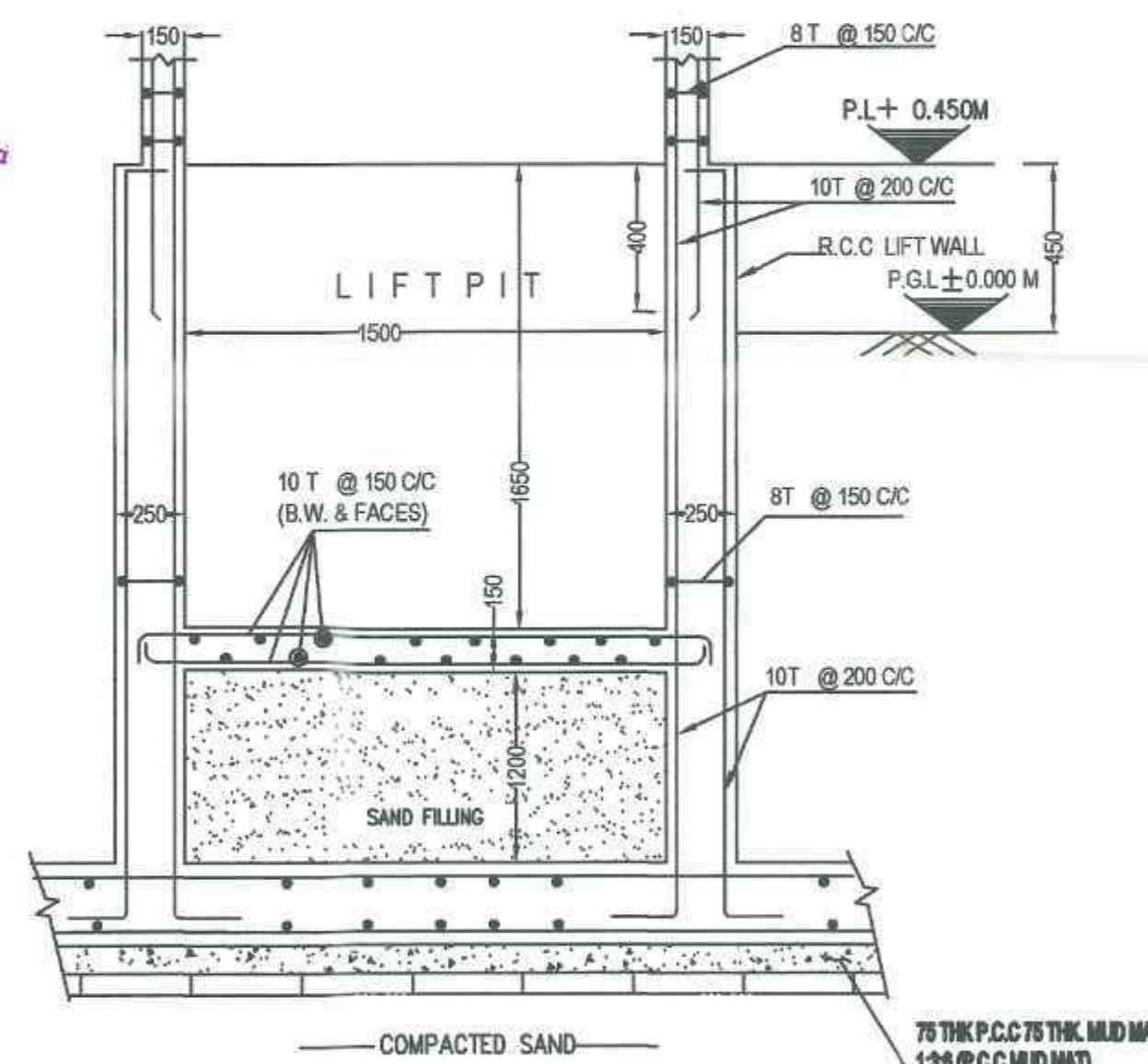
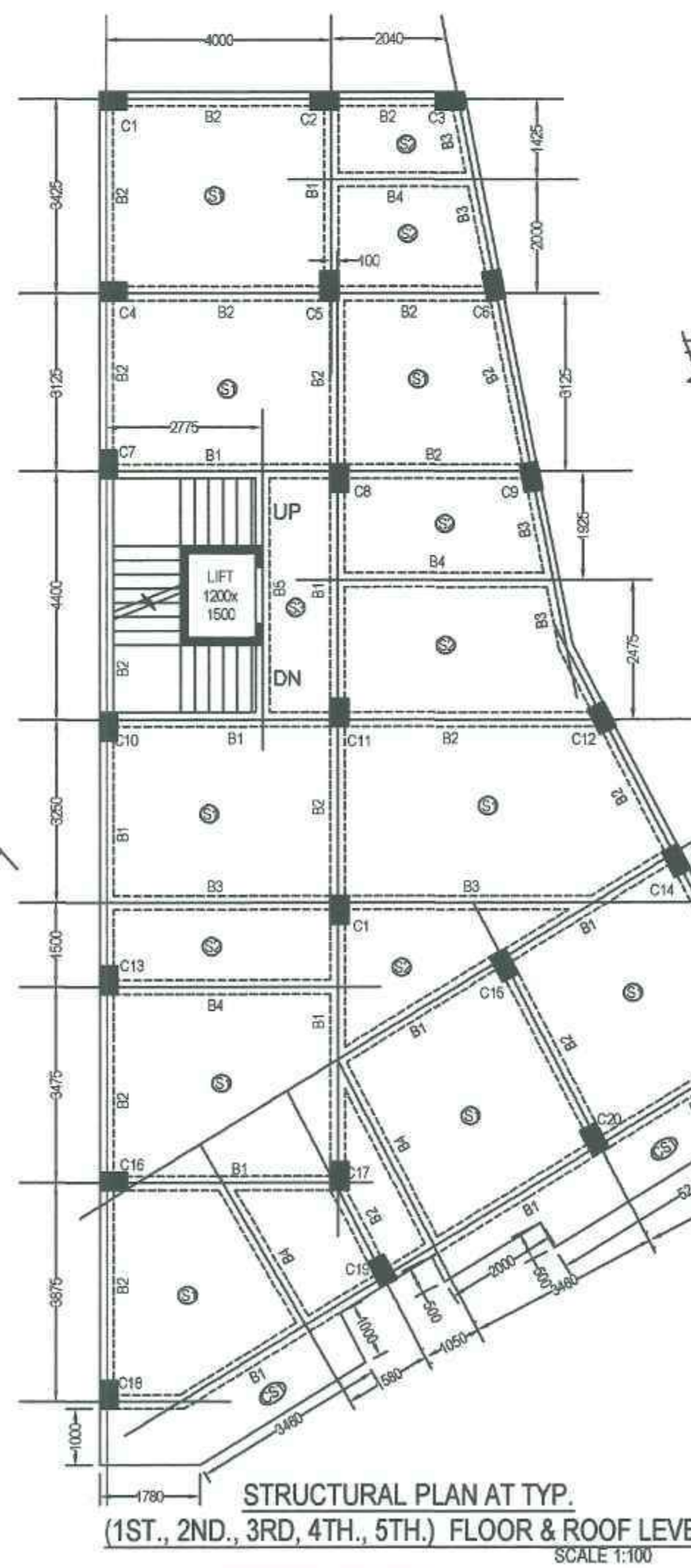
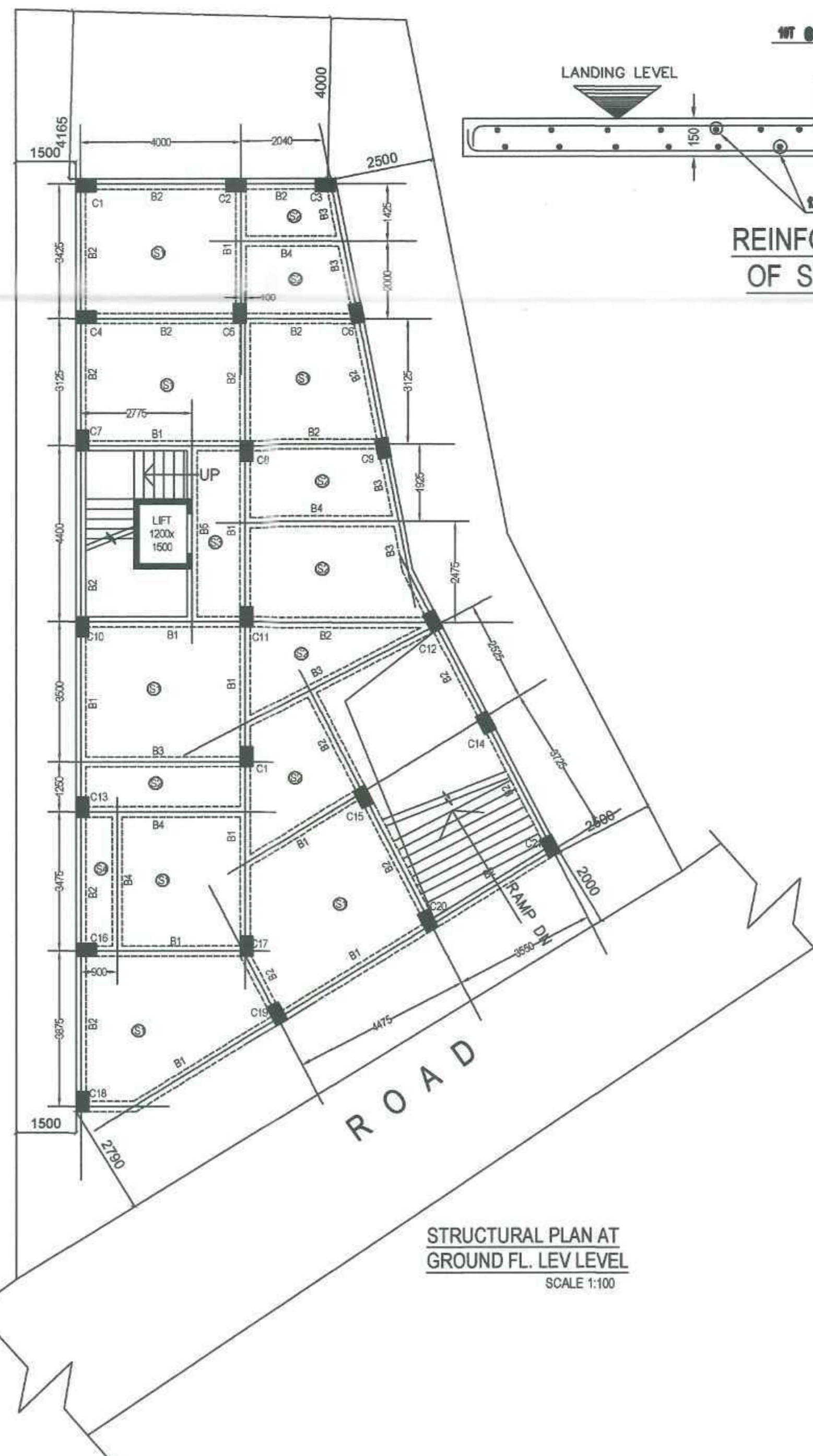
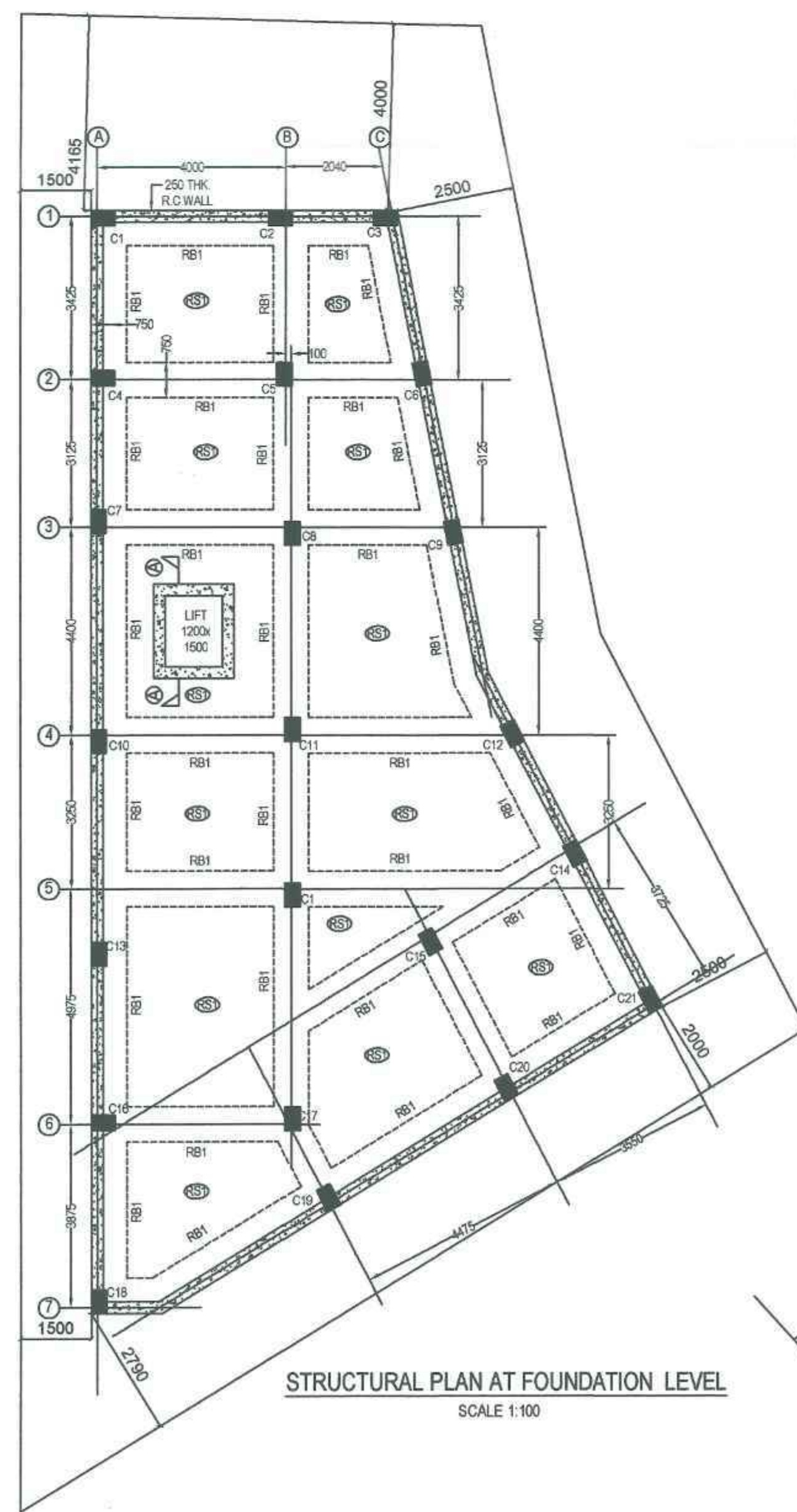
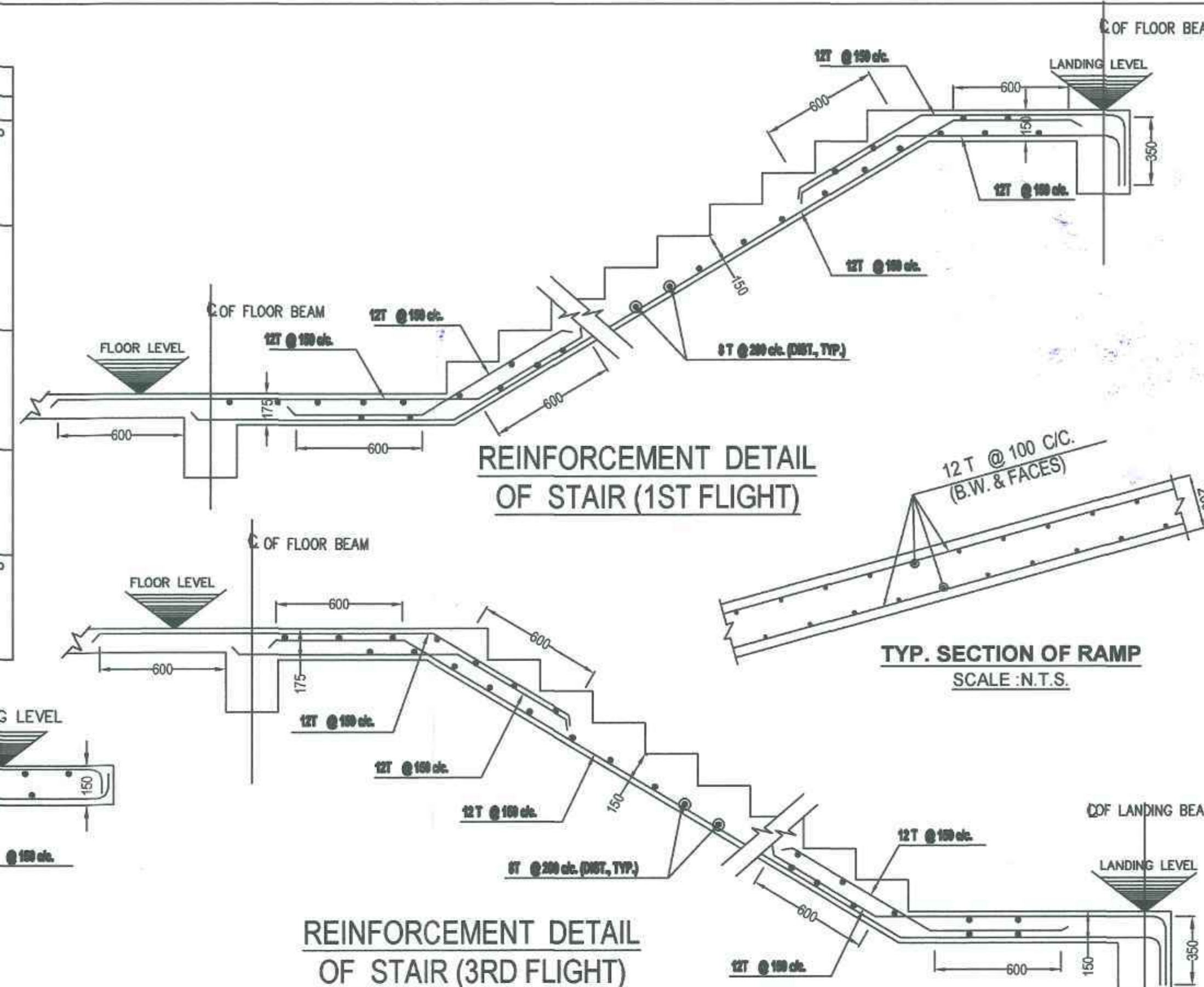
NOTE:- ALL HORIZONTAL BINDERS ARE 8T - 4L- @ 125 C/C

SCHEDULE OF R.C.C FLOOR & ROOF SLABS

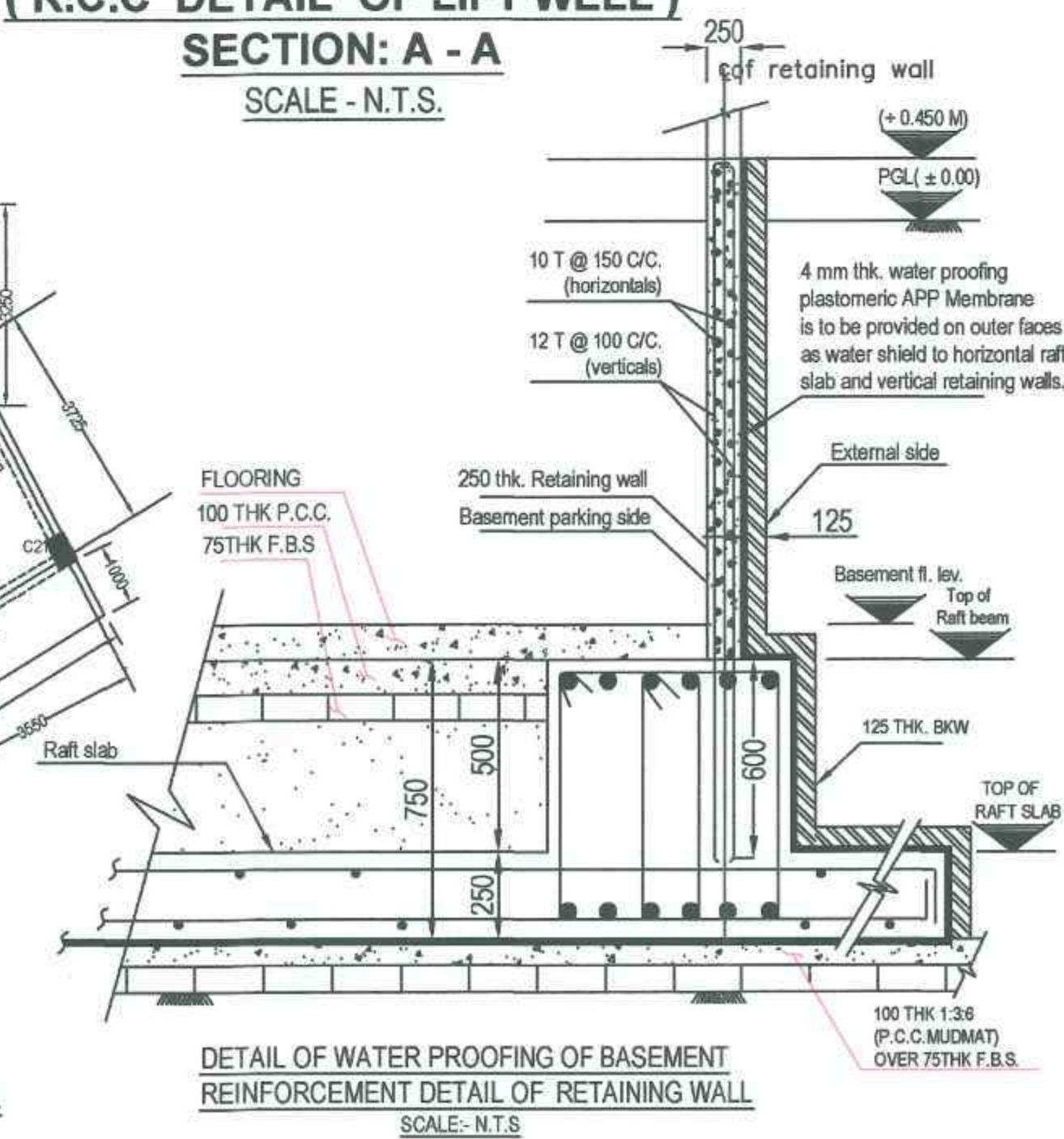
SLAB MARKING	SLAB THICKNESS (IN MM.)	LOCATION	REINFORCEMENT			
			SHORTER		LONGER	
			SPACING & DIA	SPACING & DIA	SPACING & DIA	SPACING & DIA
			AT SUPPORT	AT MID SPAN	AT SUPPORT	AT MID SPAN
S1	175	TOP	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C
		BOTTOM	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C
S2	150	TOP	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C
		BOTTOM	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C
S3	175	TOP	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C
		BOTTOM	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C	8T @ 125 C/C
S4	150	TOP	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C
		BOTTOM	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C	8T @ 150 C/C
CS1	150	TOP	8T @ 100 C/C	8T @ 100 C/C	8T @ 100 C/C	8T @ 100 C/C
		BOTTOM	8T @ 100 C/C	8T @ 100 C/C	8T @ 100 C/C	8T @ 100 C/C

SCHEDULE OF R.C.C FLOOR & ROOF BEAMS

BEAM MARKING	SIZE	REINFORCEMENT	
		AT SUPPORT	AT MID-SPAN
B1	250 x 550	3 x 20T + 2 x 16T -TOP 3 x 20T + 2 x 16T - BOTTOM 8T - 2L- @ 100 C/C	3 x 20T + 2 x 16T -TOP 3 x 20T + 2 x 16T - BOTTOM 8T - 2L- @ 100 C/C
B2	250 x 500	4 x 20T -TOP 4 x 20T - BOTTOM 8T - 2L- @ 100 C/C	4 x 20T -TOP 4 x 20T - BOTTOM 8T - 2L- @ 100 C/C
B3	250 x 600	4 x 25T -TOP 4 x 25T - BOTTOM 8T - 2L- @ 100 C/C	4 x 25T -TOP 4 x 25T - BOTTOM 8T - 2L- @ 100 C/C
B4	250 x 450	3 x 16T -TOP 3 x 16T - BOTTOM 8T - 2L- @ 150 C/C	3 x 16T -TOP 3 x 16T - BOTTOM 8T - 2L- @ 150 C/C
B5	250 x 450	3 x 16T + 2 x 12T -TOP 3 x 16T + 2 x 12T - BOTTOM 8T - 2L- @ 100 C/C	3 x 16T + 2 x 12T -TOP 3 x 16T + 2 x 12T - BOTTOM 8T - 2L- @ 100 C/C



(R.C.C DETAIL OF LIFT WELL) SECTION: A - A SCALE: N.T.S.



STRUCTURAL ENGINEER DECLARATION

CERTIFIED THAT I HAVE BEEN ENGAGED AS LICENSED BUILDING SURVEYOR-I FOR THE BUILDING AT THIS PREMISES BY THE OWNERS/LESSEES FOR PLANNING, DESIGNING, SUPERVISION & COMPLETION OF THE WORK AS PER THE WEST BENGAL MUNICIPAL (BUILDING) RULES, 2007 (AMENDED). I WILL BE INDIVIDUALLY RESPONSIBLE FOR ENSURING THE SAFETY OF THE BUILDING AS A WHOLE.

I HEREBY CERTIFY THAT AS A STRUCTURAL ENGINEER, ANY STRUCTURAL FAILURE OF THE BUILDING IS NOT LIABLE OF THE SURI MUNICIPALITY.

Tuhin Ghosh
TUHIN GHOSH
EMPANELLED LMS-I
UNDER SURI MUNICIPALITY
LICENSE NO.-01/04/SUR-1001/2021-22
DANGALPARA, SURI, BIRBHUM
CONTACT NO.- 8436427755

Nilay Mallick
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B.Tech, M.Tech (I.T. & Structural),
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Master in Civil Engineering
Dum Dum Municipality
License No.-P.W.D/A/135 (STRUCT-III)
Suri Birbhum
SIGNATURE OF STRUCTURAL ENGINEER.

TITLE:-
STRUCTURAL PLAN OF (B+G+5) STORED RESIDENTIAL BUILDING OF PURNENDU BHATTACHARJEE & BIKASH BHATTACHARJEE DEVELOPED BY USSAN LAND DEVELOPMENT & CONSTRUCTION PVT. LTD. AT R.S PLOT NO. -1555 & L.R PLOT NO. -2196, HOLDING NO. -555/139, MOUZA- ANANDA PUR, J.L NO. - 103, P.S- SURI, DIST- BIRBHUM UNDER SURI MUNICIPALITY.

- CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF WORK
- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE MENTIONED.
- ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
- DEPTH OF FOUNDATION OF SEMI UNDERGROUND WATER RESERVOIR SHOULD NOT EXCEED THE DEPTH OF FOUNDATION OF THE BUILDING.
- GRADE OF STEEL USED IS Fe 500 TMT BAR AND GRADE OF CONCRETE USED IS M25.
- CLEAR COVER TO MAIN REINFORCEMENT TO (i) FLOOR SLAB IS 20 MM. (ii) BEAM IS 30 MM. (iii) COLUMN IS 40 MM ABOVE GROUND LEVEL AND 50 MM BELOW GROUND LEVEL. (iv) FOUNDATION AND THE BEAM IS 50 MM.
- LAP LENGTH TO BE CONSIDERED

DIA OF BAR	LAP LENGTH
6	300
8	400
10	500
12	600
16	800
20	1000
25	1250

8. SBC OF THE SOIL HAS BEEN CONSIDERED AS PER SOIL INVESTIGATION REPORT. AND THE ENGINEER - IN - CHARGE MUST ENSURE THIS SBC DURING CONSTRUCTION.

9. THE SUPERVISION DURING CONSTRUCTION MUST BE DONE WITH THE HELP OF THE EXPERTS OF THE RELATED FIELDS.

10. THIS DRAWING IS THE SOLE PROPERTY OF THE CONSULTANT & NO COPY OF IT SHOULD BE MADE WITHOUT THE WRITTEN PERMISSION OF THE CONSULTANT.

**TITLE :
STRUCTURAL DRAWING**

SCALE = 1 : 100 or as mentioned
DATE = 10.09.2023