

**COLUMN SCHEDULE**  
GRADE OF CONCRETE - M25

ABOVE FIFTH FLOOR LEVEL	8-20 # + 6-16 #	14-20 #	8-20 # + 6-16 #	12-16 #	8-20 # + 12-16 #	10-20 #	20-16 #	24-20 #
THIRD TO FIFTH FLOOR LEVEL	12-20 #	4-20 # + 10-20 #	14-20 #	4-20 # + 6-16 #	18-20 #	8-20 # + 12-20 #	10-20 #	12-20 #
FIFTH TO THIRD FLOOR LEVEL	8-20 # + 6-16 #	8-20 # + 6-16 #	4-20 # + 6-16 #	8-20 # + 6-16 #	8-20 # + 6-16 #	12-20 # + 6-16 #	20-20 #	18-20 #
FOUNDATION TO FIRST FLOOR LEVEL	12-20 #	14-20 #	8-20 # + 6-16 #	12-20 #	12-20 #	18-20 #	14-20 # + 6-16 #	4-16 #

LINK: 8 # 150 C/C

RTCC: 250x750, 250x750, 250x750, 250x800, 250x900, 300x200, 300x200, 250x500, 250x250

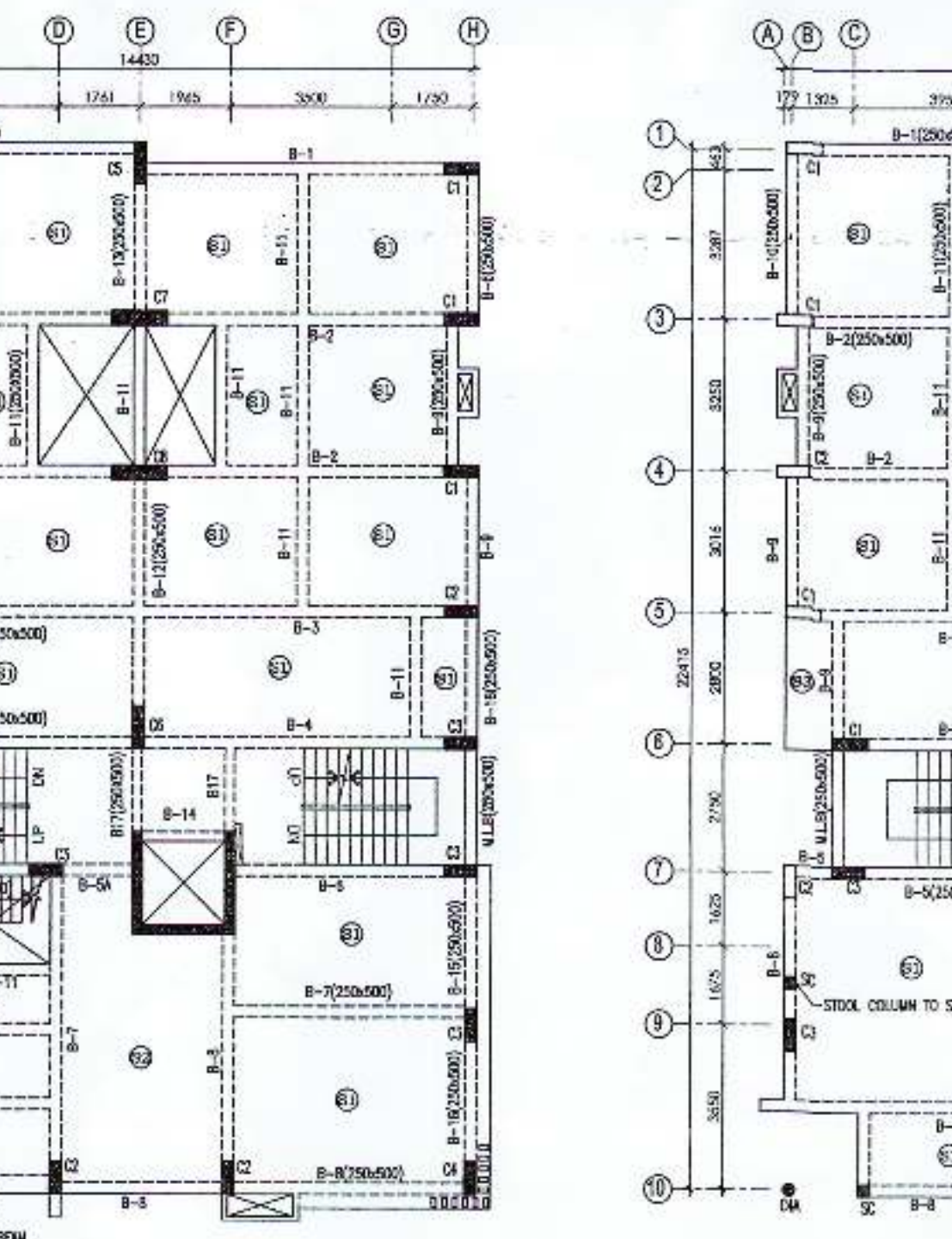
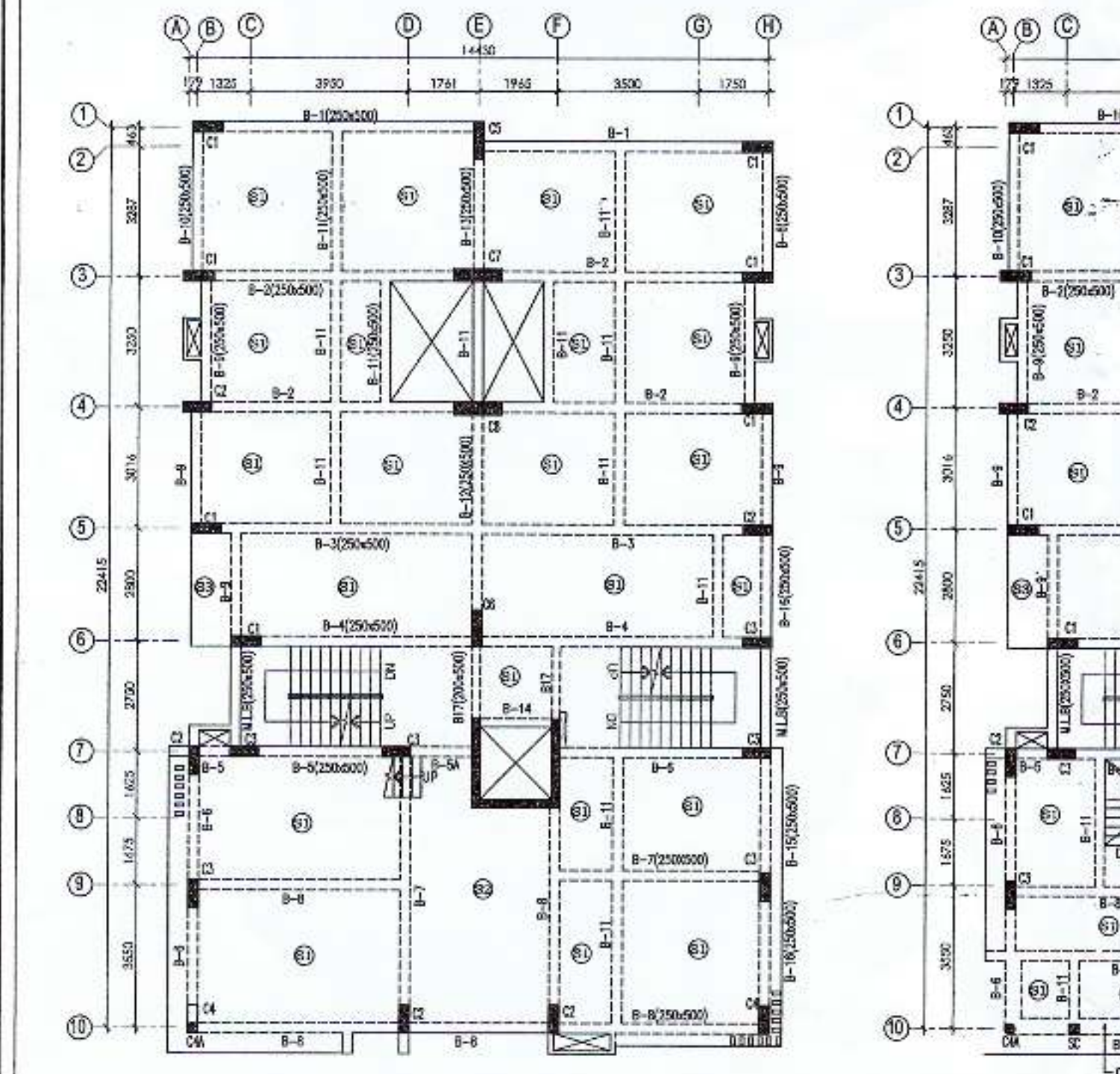
COLUMN MARKED: C1, C2, C3, C4, C5, C6, C7, C8, C9, C10

**BEAM SCHEDULE**  
GRADE OF CONCRETE - M25

SL. NO.	BEAM MARKED	BEAM SIZE	SUPPORT		SPAN		STIRRUPS		
			TOP	BOTTOM	TOP	BOTTOM	SIZE	SPACING	
1	B-1	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
2	B-2	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
3	B-3	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
4	B-4	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
5	B-5	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
6	B-5A	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
7	B-6	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
8	B-7	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
9	B-8	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
10	B-9	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
11	B-10	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
12	B-11	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
13	B-12	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
14	B-13	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
15	B-14	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
16	B-15	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
17	B-16	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
18	B-17	250 x 300	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C

- NOTES:-**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
  - SUPER STRUCTURE: SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
  - GRADE OF CONC. M-25, OTHERWISE MENTIONED.
  - ALL MATERIALS SHALL CONFORM TO RELEVANT IS CODES.
  - FOR STEEL GRADE F450 AS PER IS 1786-1973.
  - LAPS, SPICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
  - FOUNDATION & PLINTH: BROCKWORK IN FOUNDATION AND PLINTH SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
  - ALL DISTRIBUTION BARS ARE 8 TOR @ 200 C/C AND TO BE PROVIDED WHEREVER REQUIRED.
  - ALL SPACER BARS ARE 25 TOR @ 200 C/C AND TO BE PROVIDED WHEREVER REQUIRED.
  - MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:
 

MEMBER	TOP	BOTTOM	SIDE
a. FOUNDATION	50	50	50
b. COLUMN	25	25	25
c. FLOOR BEAM	25	25	25
d. THE BEAM	25	25	25
e. FLOOR SLAB	20	20	20
  - THE PILE CAPACITY HAS BEEN TENTATIVELY TAKEN AS 400TON IT IS SUBJECT TO CONVERSION AFTER INITIAL LOAD TEST ON PILE.



**BEAM SCHEDULE (1ST FLOOR)**  
GRADE OF CONCRETE - M25

SL. NO.	BEAM MARKED	BEAM SIZE	SUPPORT		SPAN		STIRRUPS		
			TOP	BOTTOM	TOP	BOTTOM	SIZE	SPACING	
1	18-1	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
2	18-2	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
3	18-3	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
4	18-4	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
5	18-5	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
6	18-5A	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
7	18-6	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
8	18-7	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
9	18-8	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
10	18-9	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
11	18-10	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
12	18-11	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
13	18-12	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
14	18-13	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
15	18-14	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
16	18-15	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
17	18-16	250 x 500	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C
18	18-17	250 x 200	2-20 # + 2-16 #	2-16 #	2-20 #	2-16 #	2-16 #	2-8 # 150 C/C	2-8 # 150 C/C

**PILE CAP SCHEDULE**  
GRADE OF CONCRETE - M25

TYPE	SIZE	DEPTH	REINFORCEMENT IN LONGER DIRECTION	REINFORCEMENT IN SHORTER DIRECTION
1P	800x800	800	10 # 150 C/C (T)	10 # 150 C/C (B)
2P	AS PER DRG.	800	12 # 150 C/C (T)	10 # 150 C/C (B)
3P	2300x2300	900	12 # 150 C/C (T)	12 # 150 C/C (B)
4P	2300x3300	1050	12 # 150 C/C (T)	12 # 150 C/C (B)
5P	2300x3800	1200	12 # 150 C/C (T)	12 # 150 C/C (B)
6P	2300x3800	1200	12 # 150 C/C (T)	12 # 150 C/C (B)
7P	5400x900	1600	16 # 150 C/C (T)	20 # 125 C/C (B)
8P	3800x3800	1500	12 # 150 C/C (T)	12 # 150 C/C (B)
17P	5400x900	1600	16 # 150 C/C (T)	20 # 125 C/C (B)
24P	5300x3500	1600	16 # 150 C/C (T)	20 # 125 C/C (B)

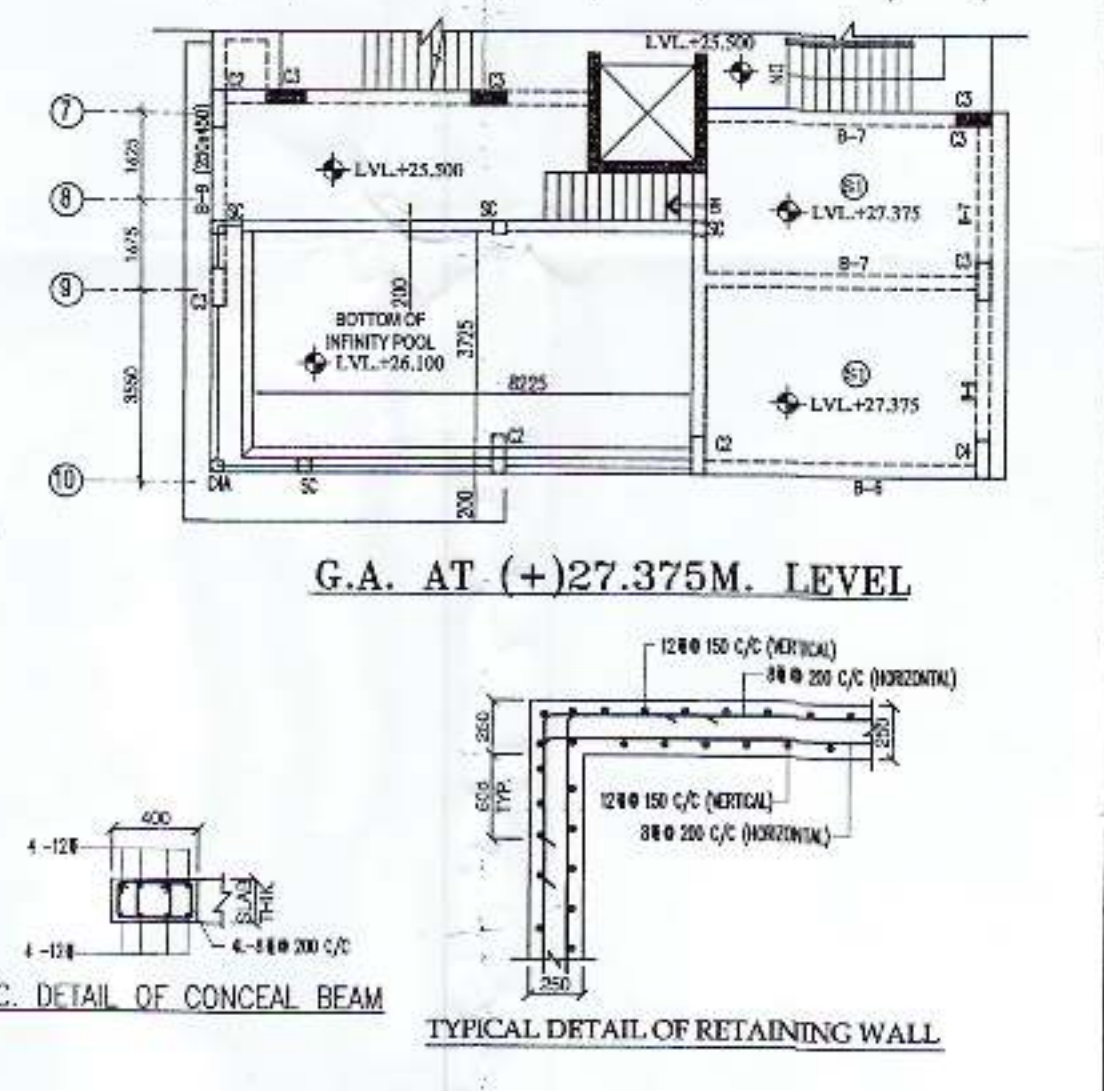
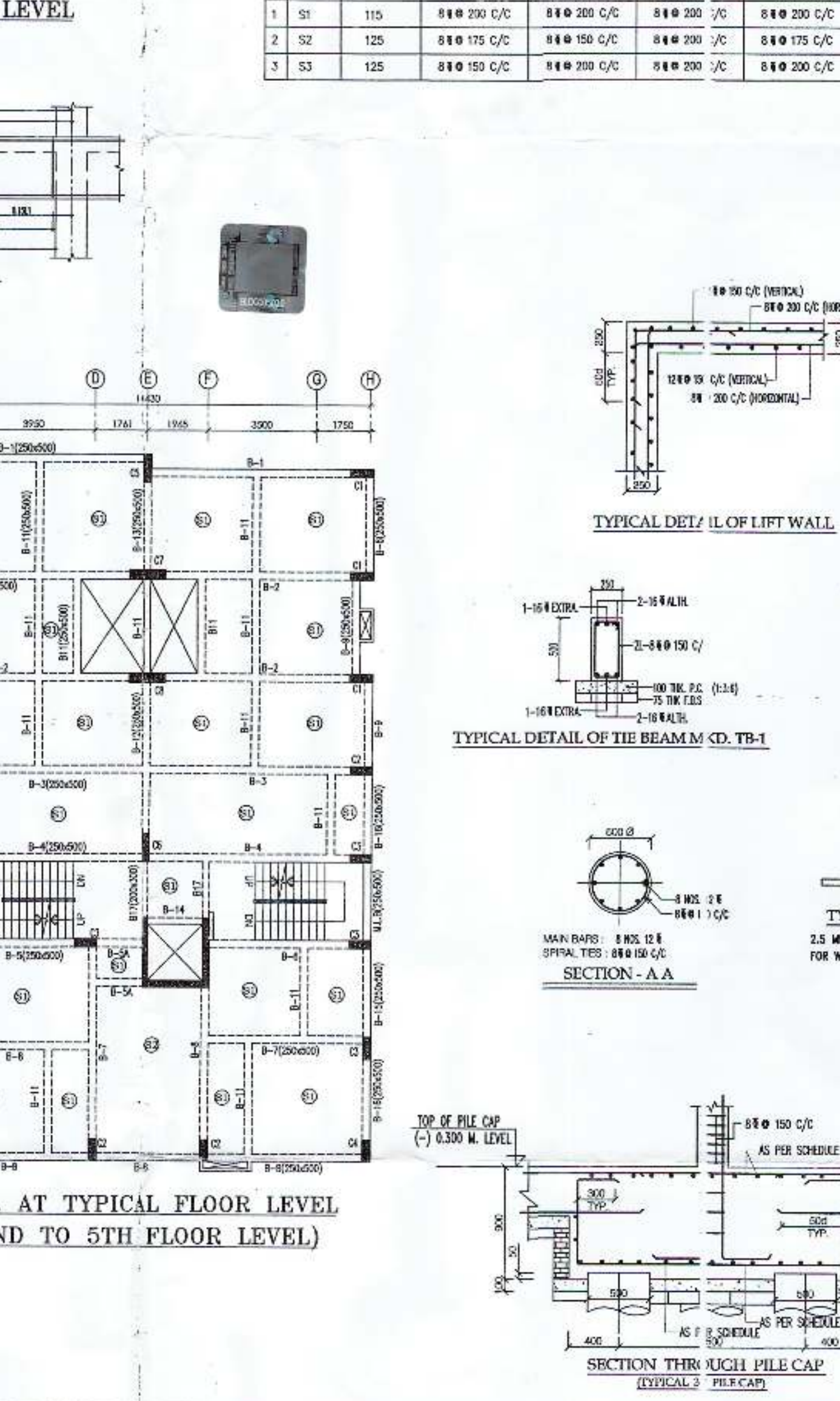
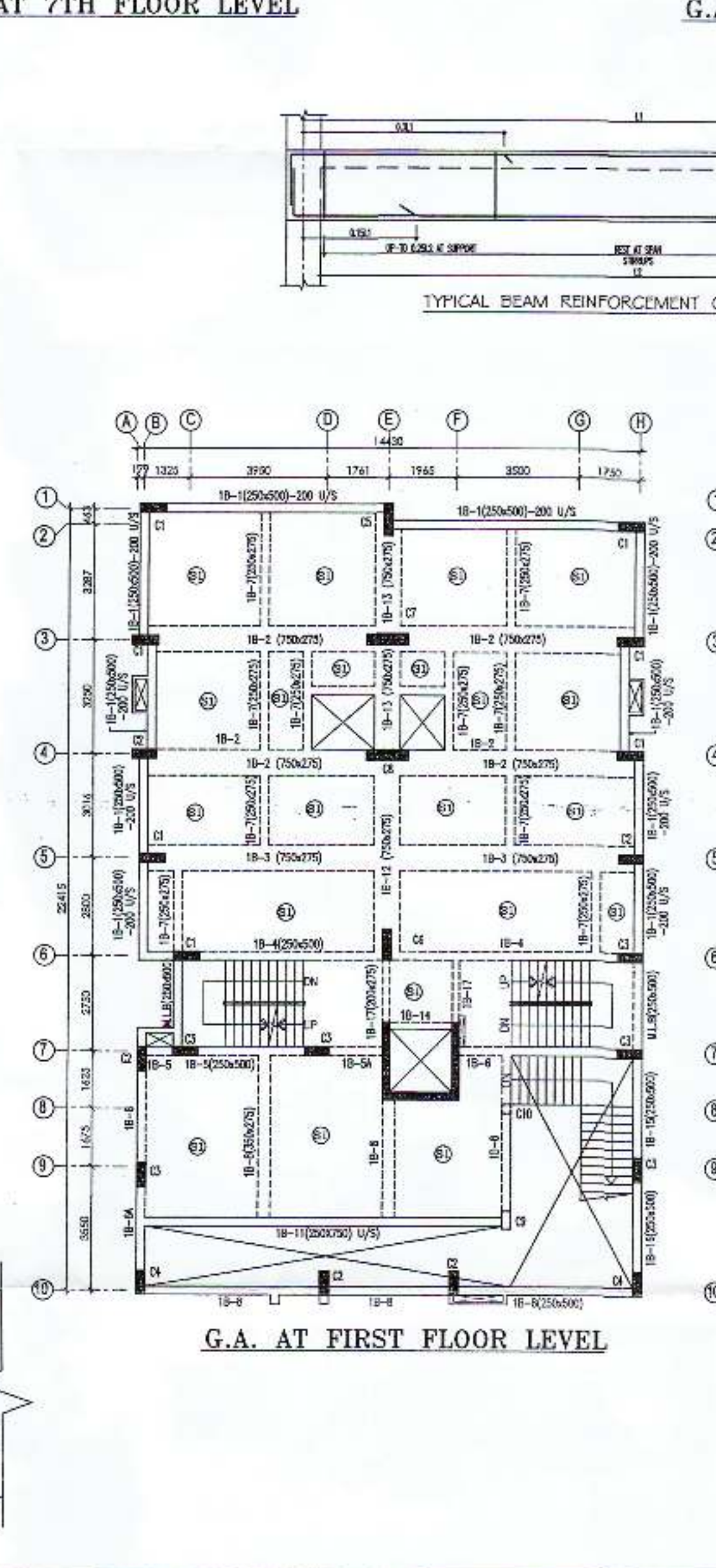
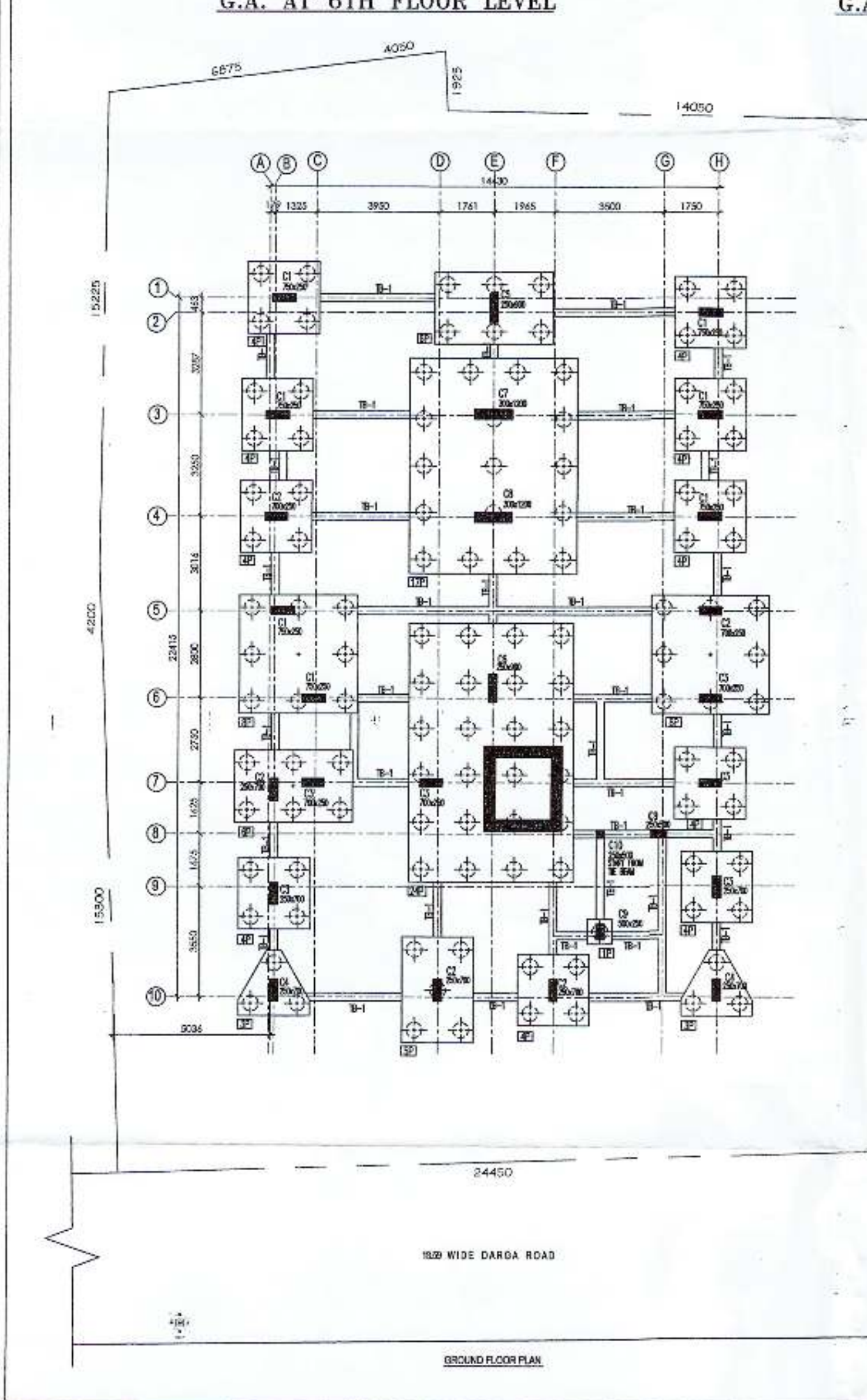
**CERTIFICATE OF STRUCTURAL ENGINEER.**

THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECTS.

*Soma Kazi*  
Soma Kazi  
E.S.E. 1-271  
Kolkata Municipal Corporation  
REGISTERED CIVIL ENGINEER  
NO. 61900

*Prajanta Kumar Ghosh*  
Prajanta Kumar Ghosh  
REGISTERED CIVIL ENGINEER  
NO. 61900

Mr. Soma Kazi  
SIGNATURE OF STRUCTURAL ENGINEER.

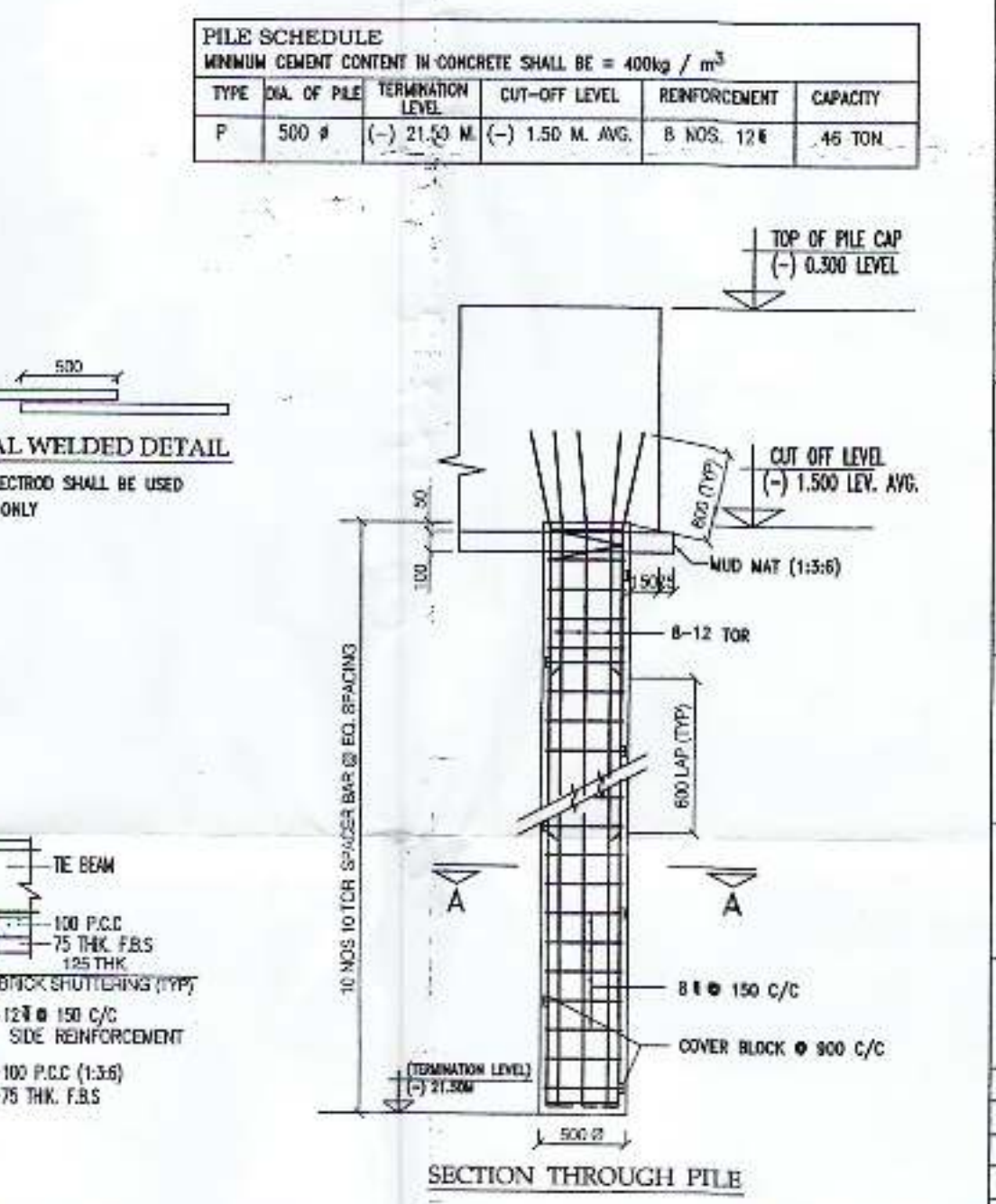
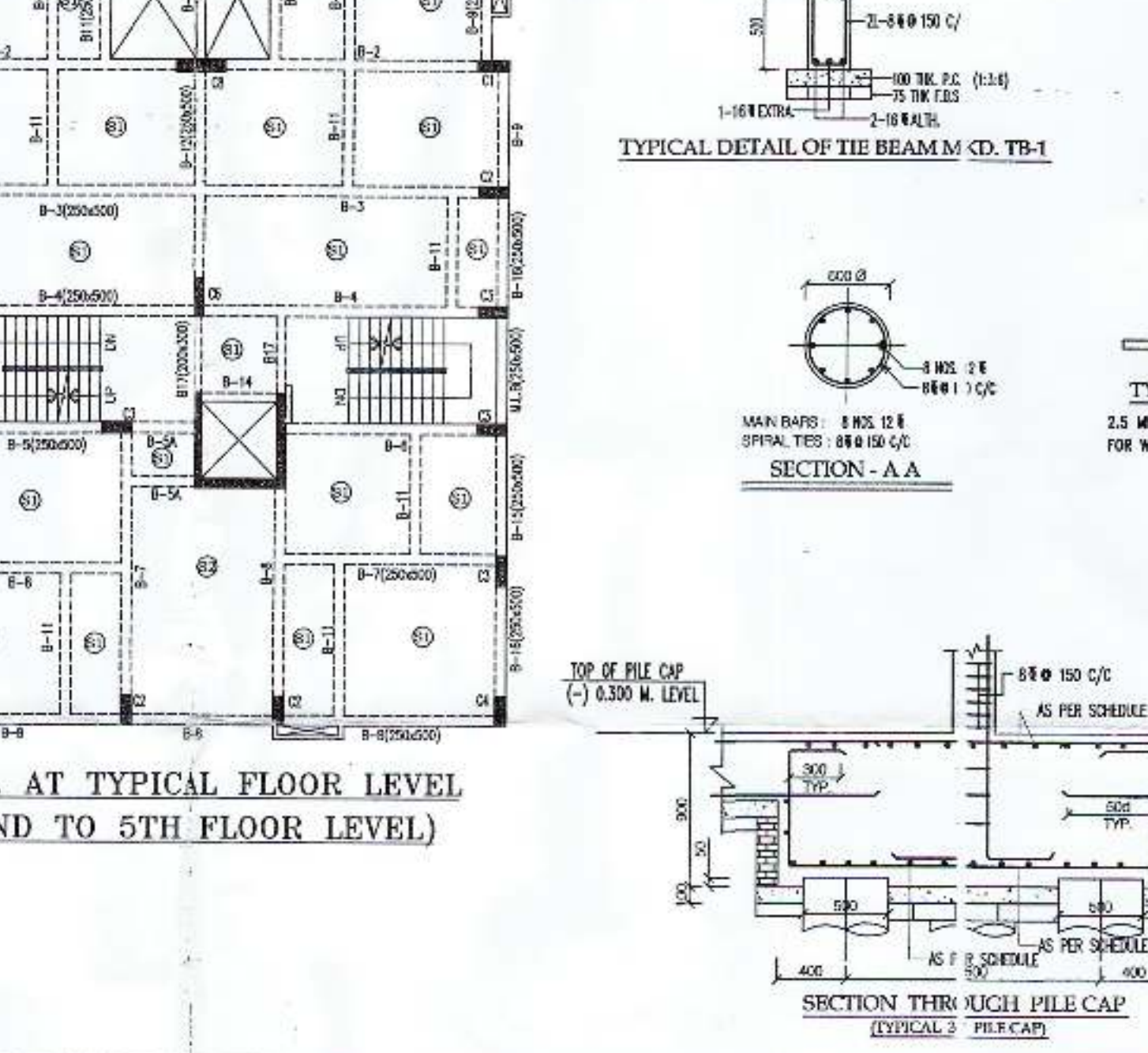
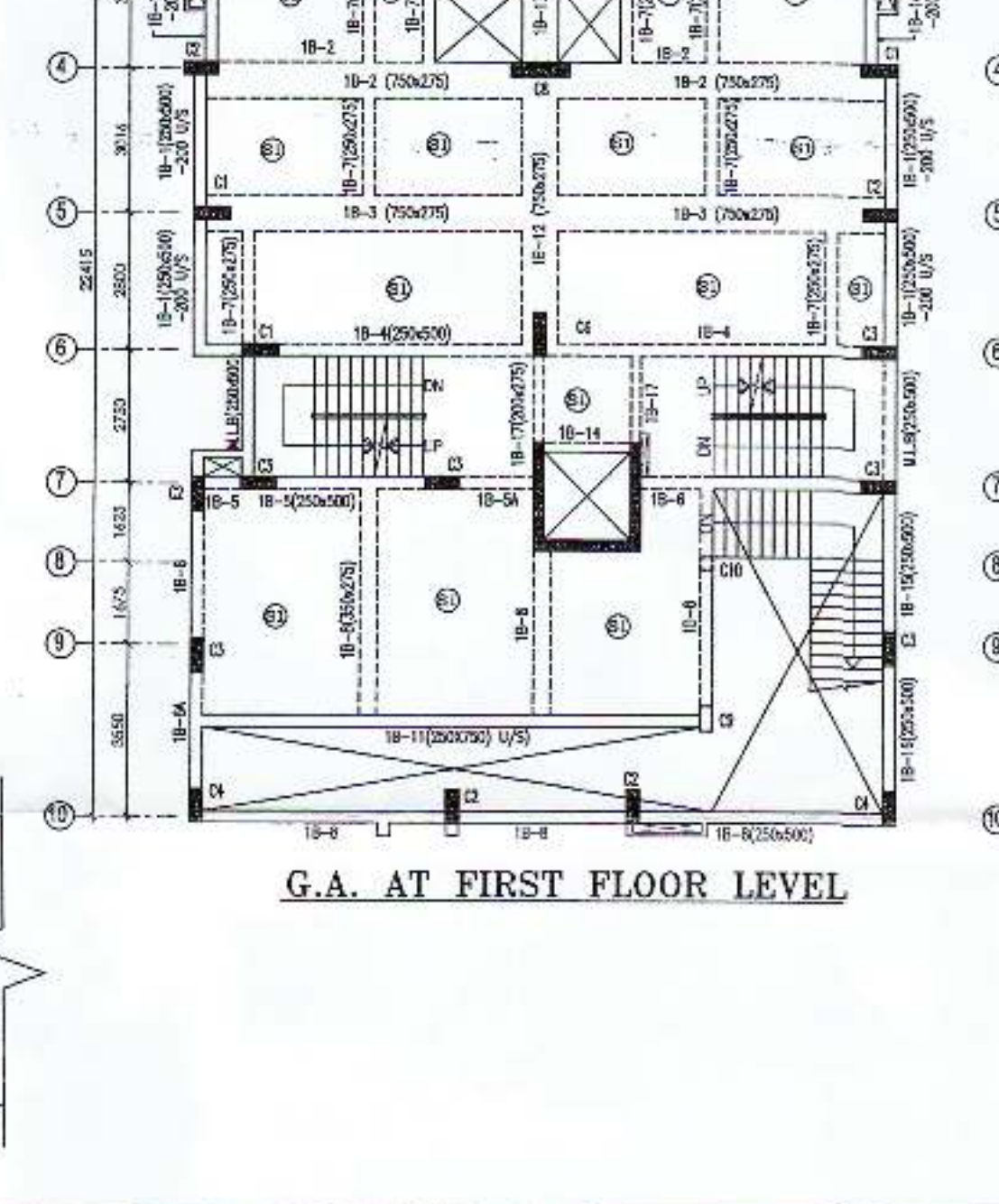
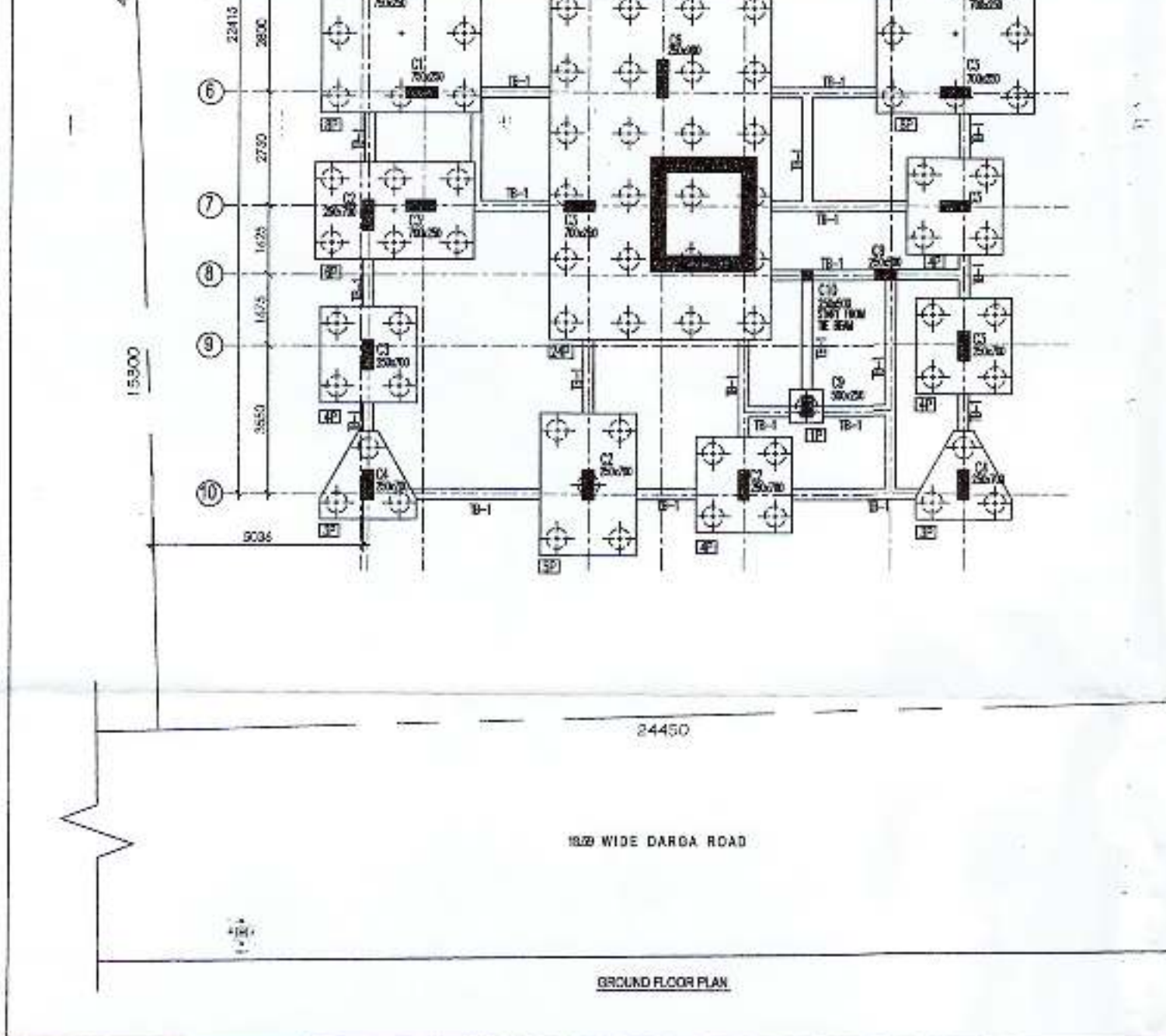


**CERTIFICATE OF ARCHITECT.**

CERTIFIED WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN AS PROVISION OF K.M.C. RULE, 1990 ARRANGED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR FILLED UP-TANK.

*Andam Ghosh*  
Andam Ghosh  
CA / 2007 / 41093

Mr. Andam Ghosh  
SIGNATURE OF ARCHITECT.



**PILE SCHEDULE**  
MINIMUM CEMENT CONTENT IN CONCRETE SHALL BE = 400kg / m<sup>3</sup>

TYPE	NO. OF PILES	REINFORCEMENT	CUT-OFF LEVEL	REINFORCEMENT	CAPACITY
P	500 #	(-) 21.50 M	(-) 1.50 M. AVG.	6 NOS. 12 #	46 TON

**REVISION**

REV NO	DATE	DESCRIPTION

**PROJECT:**  
PROPOSED GROUND-FLOOR STORED RESIDENTIAL BUILDING PLAN (BT: 25.5 M AT PILE NO. 25C, DARGA ROAD, WARD-64, KOLKATA - 700017 (HOW R.N.M.H.N AS 031 64-N.E.M.E. 75) PREPARED UNDER SECTION 393A OF K.M.C. ACT 1990 AND BUILDING RULES 2009.

**PROJECT ARCHITECTS:**  
**GEOMETRICS**  
ARCHITECTURE & INTERIORS

**STRUCTURAL ENGINEER:**  
**POSEIDON ENGINEERING SERVICES**  
32, PANDEITA ROAD  
KOLKATA - 700009  
E-Mail: somakazi@yahoo.co.in

**TITLE:**  
STRUCTURAL DRAWING

**DRAWN BY:** SUKANTA      **DATE:** 06.09.2018      **SHEET NO.:** 01  
**CHECKED BY:** SOMA KAZI      **SCALE:** 1:100, 1:25      **REVISION:** 0  
**JOB NO.:** 2016 / 10 / GEOMETRICS / INVENT  
**DRG. NO.:** 2016 / 10 / GEOMETRICS / INVENT / CS 01  
**STATUS:** TENDER      APPROVAL      CORP.