

BEAM SCHEDULE

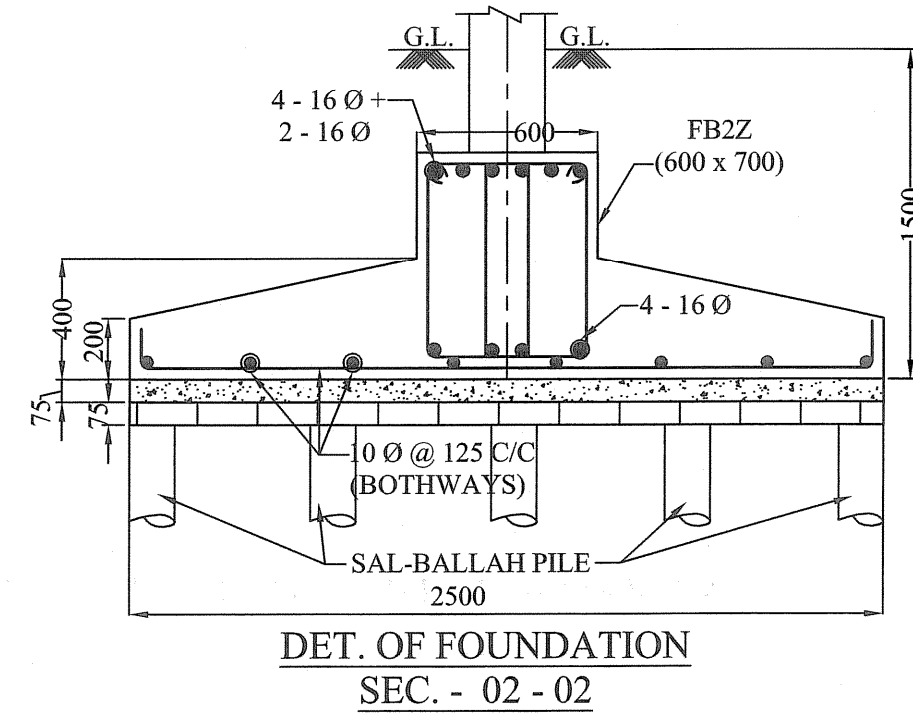
TYPE	SL. NO.	BEAM SECTION	END SUPPORT		INTERIOR SUPPORT		ENDSPAN		INTERIOR SPAN		STIRRUPS
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
FLOOR BEAM	1.	B1	250 x 400	3 - 16 Ø	2 - 16 Ø	4 - 16 Ø	2 - 16 Ø	3 - 16 Ø	2 - 16 Ø	3 - 16 Ø	8 Ø (2L) @ 150 TO 200 C/C
	2.	B2	250 x 400	2 - 20 Ø	2 - 12 Ø	3 - 20 Ø	2 - 20 Ø	2 - 12 Ø + 2 - 16 Ø	-	-	8 Ø (2L) @ 150 TO 175 C/C
	3.	B3	250 x 400	3 - 16 Ø	2 - 12 Ø	-	-	2 - 16 Ø	2 - 12 Ø + 2 - 16 Ø	-	8 Ø (2L) @ 150 C/C
	4.	B4	250 x 450	4 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø	2 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø	-	8 Ø (2L) @ 125 TO 200 C/C
	5.	B5	250 x 450	4 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø + 2 - 20 Ø (D.L.)	2 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø	-	8 Ø (2L) @ 150 TO 200 C/C
	6.	B6	250 x 400	3 - 16 Ø	2 - 16 Ø	4 - 16 Ø	2 - 16 Ø	2 - 16 Ø	3 - 16 Ø	2 - 16 Ø	8 Ø (2L) @ 150 TO 200 C/C
	7.	B7	250 x 400	4 - 16 Ø	2 - 16 Ø	4 - 16 Ø	2 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø	2 - 16 Ø	8 Ø (2L) @ 150 TO 200 C/C
	8.	B8	250 x 450	3 - 20 Ø	2 - 20 Ø	4 - 20 Ø + 2 - 16 Ø (D.L.)	2 - 20 Ø	2 - 20 Ø	4 - 20 Ø	-	8 Ø (2L) @ 125 TO 175 C/C
	9.	B9	250 x 400	4 - 16 Ø	2 - 16 Ø	2 - 16 Ø + 2 - 20 Ø	2 - 16 Ø	2 - 16 Ø	4 - 16 Ø	-	8 Ø (2L) @ 150 TO 200 C/C
	10.	B10	250 x 450	3 - 20 Ø	2 - 20 Ø	-	-	2 - 20 Ø	4 - 20 Ø	-	8 Ø (2L) @ 100 TO 175 C/C
	11.	B11	250 x 400	3 - 16 Ø	2 - 12 Ø	4 - 16 Ø	2 - 12 Ø	2 - 16 Ø	2 - 12 Ø + 2 - 16 Ø	-	8 Ø (2L) @ 150 TO 200 C/C
FOUNDATION BEAM	1.	FB1X	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø	4 - 16 Ø + 3 - 16 Ø + 3 - 16 Ø (D.L.)	4 - 16 Ø	4 - 16 Ø + 3 - 16 Ø	4 - 16 Ø + 3 - 16 Ø + 3 - 16 Ø (D.L.)	10 Ø (4L) @ 150 TO 200 C/C
	2.	FB2X	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø + 3 - 20 Ø	4 - 16 Ø + 3 - 20 Ø + 2 - 20 Ø (D.L.)	4 - 16 Ø + 3 - 20 Ø	4 - 16 Ø	4 - 16 Ø + 3 - 16 Ø + 2 - 16 Ø (D.L.)	10 Ø (4L) @ 125 TO 200 C/C
	3.	FB3X	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø	4 - 16 Ø + 3 - 16 Ø	6 - 16 Ø	4 - 16 Ø	4 - 16 Ø	10 Ø (4L) @ 175 C/C
	4.	FB4X	600 x 700	4 - 16 Ø	6 - 16 Ø	-	-	4 - 16 Ø + 3 - 20 Ø	4 - 16 Ø	-	10 Ø (4L) @ 150 TO 200 C/C
	5.	FB1Z	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø + 2 - 20 Ø	4 - 16 Ø	4 - 16 Ø + 2 - 20 Ø	10 Ø (4L) @ 150 TO 200 C/C
	6.	FB2Z	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø	4 - 16 Ø + 2 - 20 Ø + 2 - 16 Ø (D.L.)	4 - 16 Ø + 2 - 16 Ø	4 - 16 Ø	-	8 Ø (4L) @ 150 TO 200 C/C
	7.	FB3Z	600 x 700	4 - 16 Ø	6 - 16 Ø	-	-	4 - 16 Ø + 3 - 20 Ø	4 - 16 Ø	-	10 Ø (4L) @ 150 TO 200 C/C
	8.	FB4Z	600 x 700	4 - 16 Ø	6 - 16 Ø	4 - 16 Ø	4 - 16 Ø + 3 - 20 Ø + 3 - 16 Ø (D.L.)	4 - 16 Ø + 3 - 20 Ø	4 - 16 Ø	4 - 16 Ø	10 Ø (4L) @ 125 TO 175 C/C

COLUMN SCHEDULE

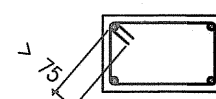
GROUP MKD.	COLUMN MARKED	COLUMN SECTION	COLUMN REINFORCEMENT			LINKS
			GROUND TO 2ND. FL. LVL.	2ND. FL. LVL TO 4TH. FL. LVL.	4TH. FL. LVL TO ROOF & L/M RM.	
1	C1,C2,C3,C5,C6,C9,C10,C11,C12,C13,C14,C15,C16,C19,C20,C21,C25,C27,C31,C32,C33,C35,C36	250 x 450	8 - 16 Ø	4 - 16 Ø + 4 - 12 Ø	8 - 12 Ø	8 Ø (2L) & (4L) @ 200 C/C
2	C4,C7,C8,C28,C34	250 x 450	4 - 16 Ø + 4 - 20 Ø	8 - 16 Ø	4 - 16 Ø + 4 - 12 Ø	
3	C17,C18,C22,C24,C26,C29,C30	250 x 500	4 - 16 Ø + 4 - 20 Ø	4 - 16 Ø + 4 - 20 Ø	8 - 16 Ø	
4	C23	250 x 500	10 - 20 Ø	6 - 20 Ø + 4 - 16 Ø	10 - 16 Ø	

FLOOR SLAB SCHEDULE

LEGEND	SLAB STEEL
a	8 Ø @ 150 c/c (BOT.)
b	8 Ø @ 175 c/c (BOT.)
c	8 Ø @ 125 c/c (BOT.)
d	8 Ø @ 125 c/c (TOP)
f	8 Ø @ 300 + 10 Ø 300 c/c (ALT.) (TOP.)
g	10 Ø @ 150 (TOP) + 8 Ø 150 c/c (BOT.)
h	8 Ø @ 150 c/c (TOP)
	SHOWN AS TOP LAYER STEEL
	SHOWN AS BOTTOM LAYER STEEL



TYP. SECTION OF LEGGED STIRRUP



SPACING OF THIS NOT MORE THEN D/4 BUT NEED NOT BE LESS THEN 75 M.M. NOR MORE THEN 100 M.M.

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TYPICAL DETAIL SHOWING PLACING OF VERTICAL BARS AND CLOSED TIES IN COLUMNS-COLUMN ENDS AND LAP LENGTH. (TO BE PROTECTED WITH CLOSELY SPACED TIES).

GENERAL SPECIFICATIONS:

- # ALL DIMENSIONS ARE IN M.M.
- # GRADE OF CONCRETE IS M-20
- # GRADE OF STEEL : Fe 500
- # COVER TO STEEL: 50 M.M. (FOUNDATION), 40 M.M. (COLUMN), 25 M.M. (FL. BEAM), 20 M.M. (SLAB)
- # ALL FOUNDATION ARE LAID OVER 75 THK. P.C.C. (1:2:4) OVER 75 THK.B.F.S.
- # 25 Ø @ 750 C/C STEEL ARE USED AS SPACER BAR AT DOUBLE LAYER
- # STRENGTH OF CONC. TO BE TESTED BY AVAILABLE DESTRUCTIVE AND NON DESTRUCTIVE TESTS AS PER I.S. SPECIFICATIONS.

SPECIFICATION OF SAL-BALLAH PILING AS PER GEOTEST VIDE SOIL REPORT NO.- GT/SP/77

- SAL-BALLAH 150 Ø AT TOP & 100 Ø AT BOTTOM, OF LENGTH 5.0 m AT DEPTH (+) 1.65 m B.G.L. WITH TERMINATION DEPTH 6.65 m B.G.L. @ 600 mm C/C.
- QUALITY OF TIMBER IS EXTREMELY IMPORTANT FOR SUCCESSFUL TIMBER PILING JOB.
- UNDERSIZED TIMBER PILES (DIA./LENGTH) SHOULD NEVER BE USED.
- SPACING OF TIMBER PILES CAN NOT BE INCREASED MORE THAN 600 mm.
- LOAD TEST TO BE DONE TO VERIFY THE IMPROVED BEARING CAPACITY.

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA AND BASIS OF SOIL INVESTIGATION REPORT BY GEOTEST ENGINEERS PVT. LTD. (MR. ALOK ROY) 6A, MILAN PARK, KOLKATA-700084, CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

Sankar Das
Sankar Das
B.E. (CAL), M.E. (CAL), M.I.E.
Consulting Structural Engineer
The Kolkata Municipal Corporation
Empanelment No.: E.S.E. 1/12

(SANKAR DAS E.S.E.-1/12) SIG. OF STRUCTURAL ENGINEER

DECLARATION OF ARCHITECT.

CERTIFIED THAT THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS DRAWN UP AS PER PROVISION OF K.M.C. BUILDING RULES 2009, AS AMENDED FROM TIME TO TIME AND THE SITE CONDITION INCLUDING THE ABUTTING ROAD IS CONFORM WITH THE PLAN. IT IS A BUILDABLE SITE NOT A TANK OR FILLED UP TANK. THERE IS AN EX STRUC. TO BE DEMOLISHED BEFORE COMMENCEMENT OF WORK IT IS FULLY OCCUPIED BY THE OWNER. THERE IS NO TENENT.

Anjan Ukil
ANJAN UKIL
Architect
C.O.A. Regn. No.- CA/84/16721
L.B.A. A-271

(ANJAN UKIL L.B.A A-271) SIG. OF ARCHITECT.

I DO HERE BY DECLARE WITH FULL RESPONSIBILITY THAT, I SHALL ENGAGE L.B.A & ESE DURING CONSTRUCTION. I SHALL FOLLOW THE INSTRUCTION OF L.B.A & E.S.E. DURING CONSTRUCTION OF THE BUILDING (AS PER PLAN) K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE BUILDING & ADJOINING STRUCTURE IF ANY SUBMITTED DOCUMENT ARE FAKE. THE K.M.C AUTHORITY WILL REVOKE THE SANCTION PLAN. THE CONSTRUCTION OF U.G.W.R. & SEPTIC TANK TAKEN UNDER THE GUIDENCE OF LBS/EBE BEFORE STARTING OF BUILDING FOUNDATION.

For CHANDRA DEWAI AJOBIA
SONIA AJOBIA
As Consulting Architect

SATWIK RULA (C.A)
SIGNATURE OF OWNER

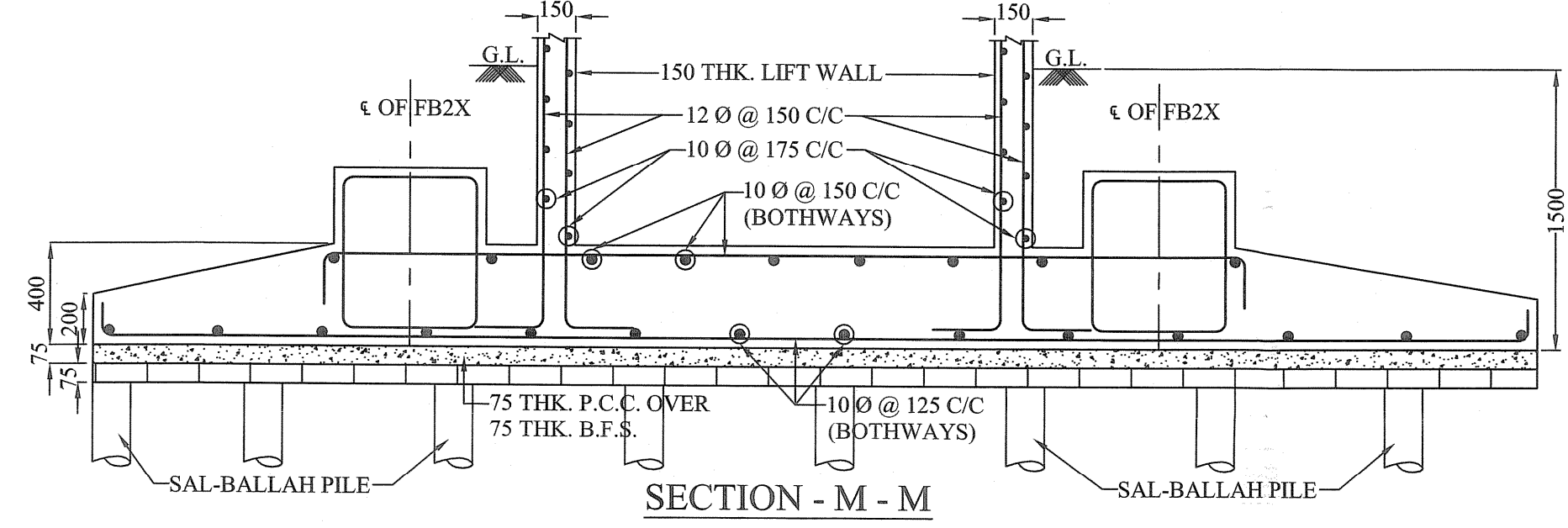
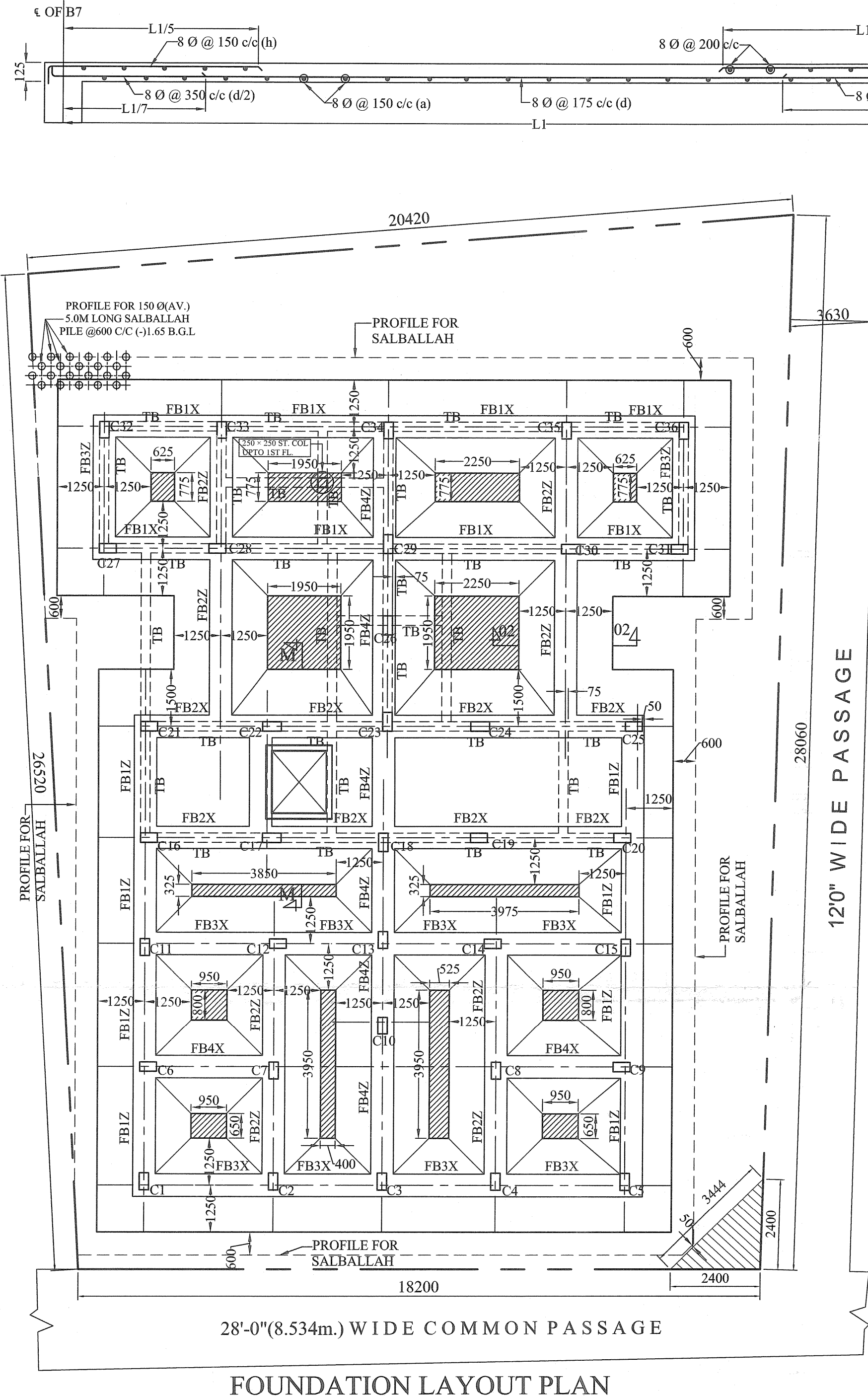
PROJECT.

PROPOSED G+IV STORIED (HT.-15.47SMT.) RESIDENTIAL BUILDING U/S 393 A OF K.M.C. ACT 1980 AT- 1A/33, KUSTIA ROAD, KOLKATA- 700039, MOUZA-KUSTIA, BOROUGH NO.-VII, WARD NO.-66.

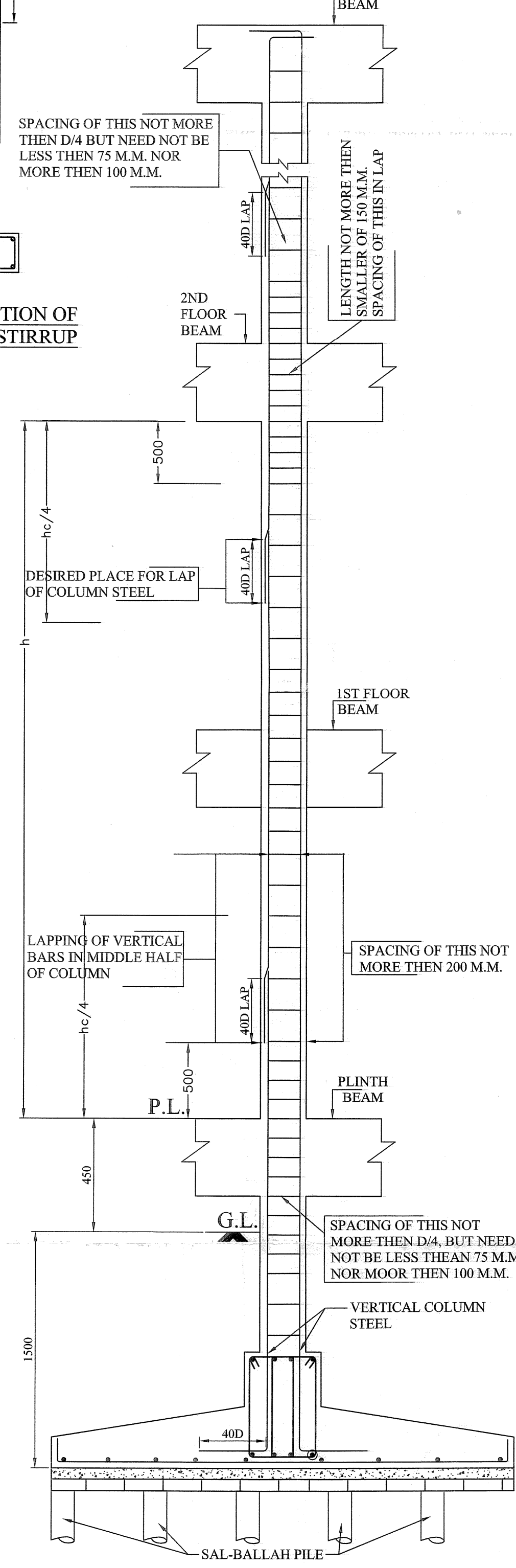
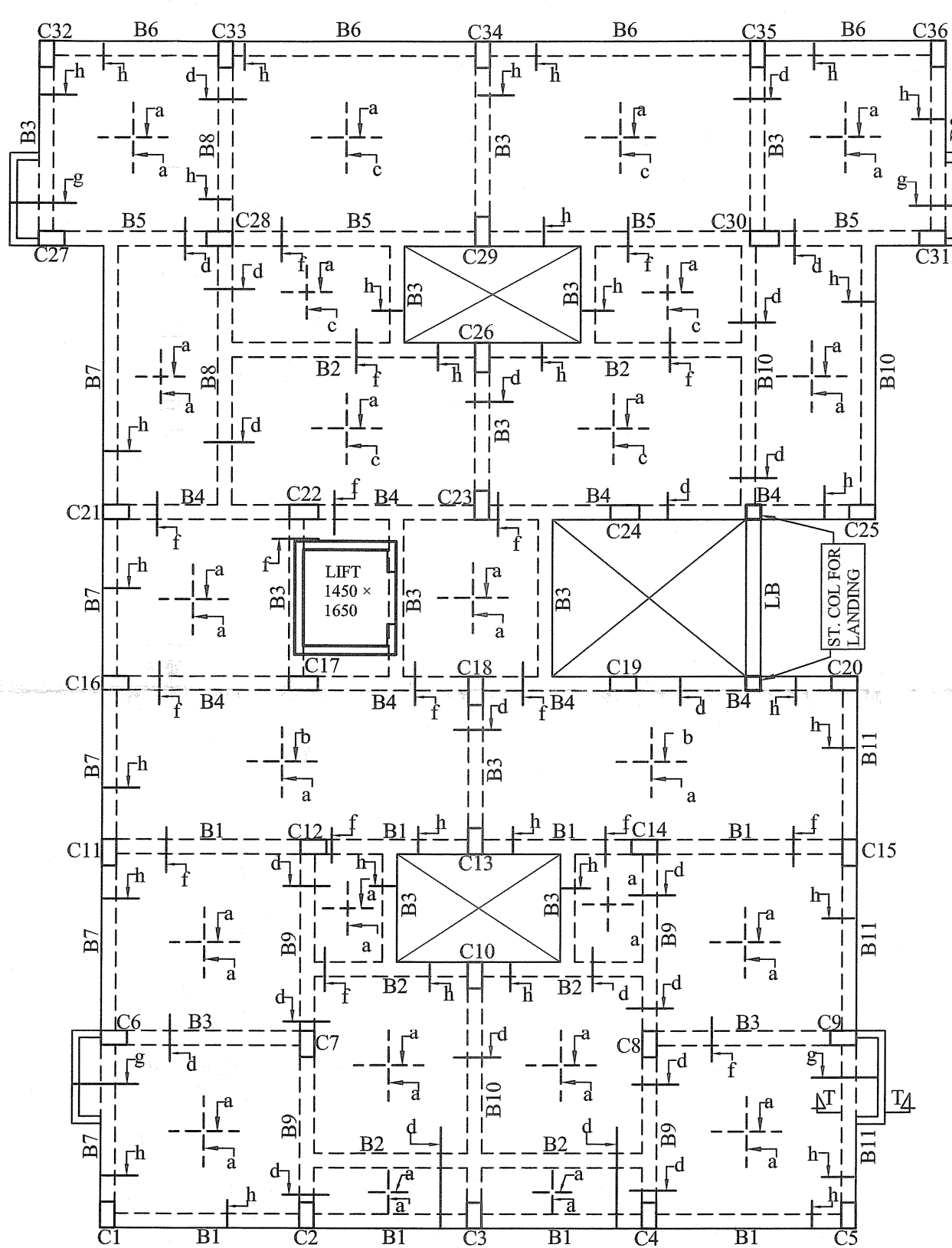
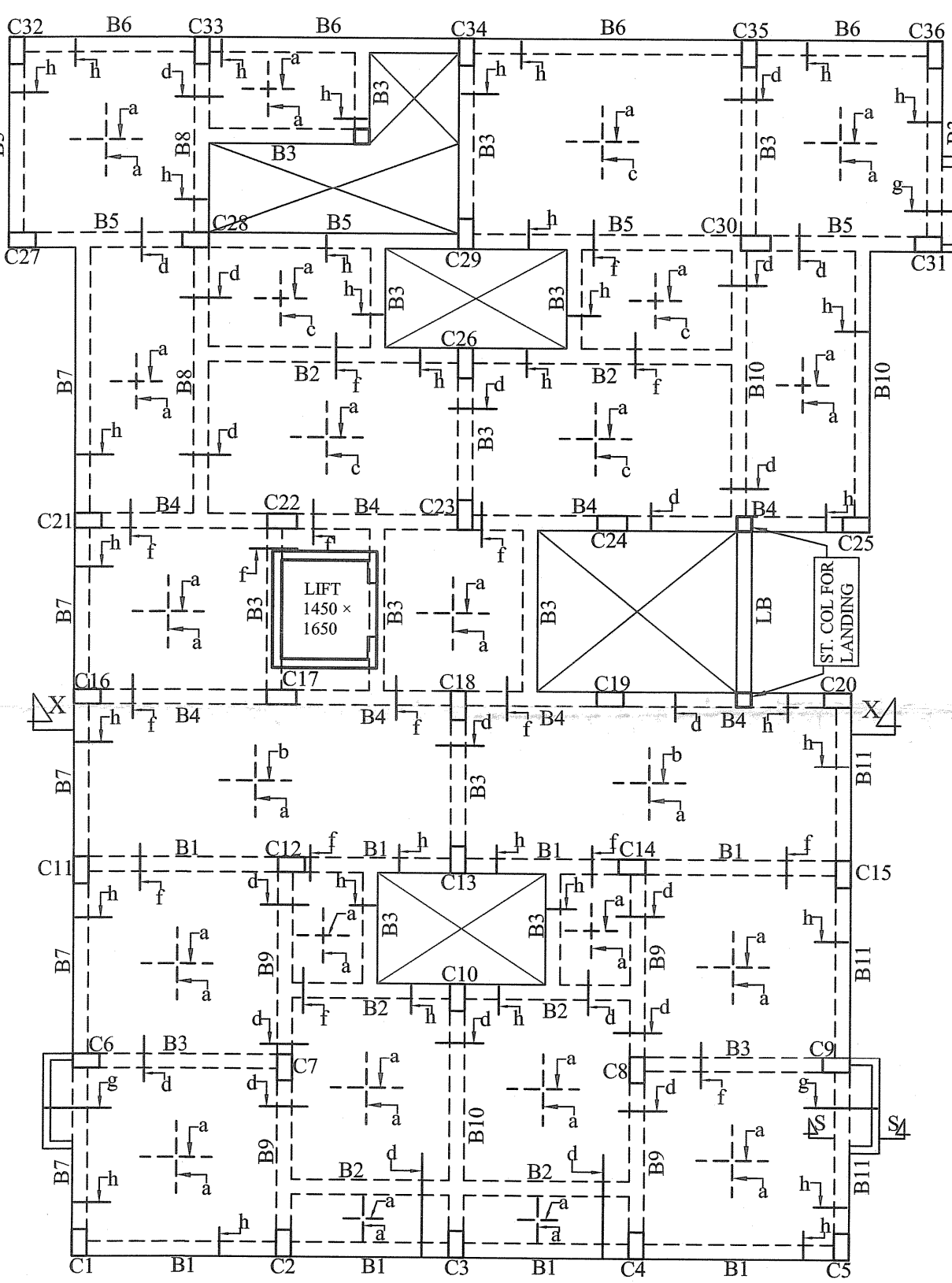
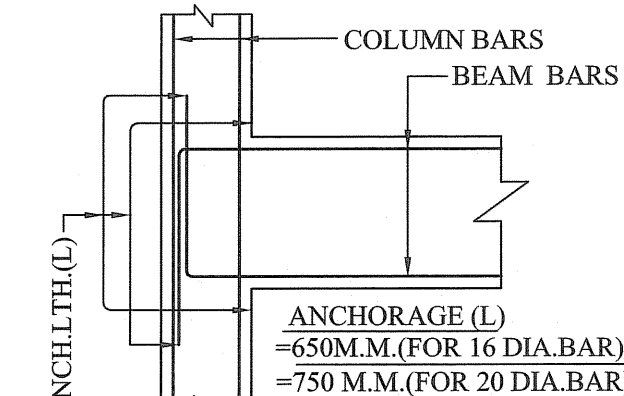
JOB NO.	C/2358	DATE : 27.09.2016
DRG. NO. -	01	
SCALE : -	1 : 100, 1:25 (UNLESS OTHERWISE SPECIFIED)	
TITLE :	STRUCTURAL DETAIL.	
DRAWN BY.	P.C.M.	

STRUCTURAL CONSULTANT

TETragon ENGINEERING CONSULTANCY (P) LTD. 2T CORNFIELD ROAD, KOLKATA - 700019.
PHONE NO 033 4072 8600.
E-mail : tetp.kolkata@gmail.com



ANCHORAGE OF BEAM BARS IN EXTERIOR JOINTS



18/89

CERTIFIED COPY

KOLKATA MUNICIPAL CORPORATION
BUILDING DEPARTMENTS
CERTIFIED COPY OF B.S. PLAN
No. 2016070043 Dt. 21/06/16
Borough No. VII
Assistant Engineer
Dy. Ch. Engr. (C)
Bldg. Br. VII
K.M.C.

Structural plan and design calculation as submitted by the structural engineer have been kept with B.P. No. 2016070043.....Date 21/06/16 for record of the Kolkata Municipal Corporation without verification No. deviation from the submitted structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form, necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of human life during construction.

EXECUTIVE ENGINEER/ASST. ENGINEER
BOROUGH NO. VII

OFFICE OF THE EXECUTIVE ENGINEER
BUILDING BOROUGH - VII
DATE 22/11/16
THE KOLKATA MUNICIPAL CORPORATION