

FLOOR BEAM SCHEDULE

TYPE OF BEAM	S.L. NO	BEAM MKD.	BEAM SECTION	END SUPPORT		INTERIOR SUPPORT		END SPAN		INTERIOR SPAN		STIRRUPS
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
FLOOR BEAM	1	BX1	300 x 450	2-16 Ø + 2-20 Ø + 3-20 (D.L.)	2-16 Ø + 2-20 Ø	2-16 Ø + 2-20 Ø + 3-16 (D.L.)	2-16 Ø + 1-20 Ø	2-16 Ø	2-16 Ø + 2-20 Ø + 2-16 Ø (D.L.)	-	-	8 Ø (2L) @ 125 TO 200 C/C
	2	BX2	300 x 450	4-20 Ø + 4-20 (D.L.)	4-20 Ø + 3-16 (D.L.)	-	-	2-20 Ø	4-20 Ø + 3-16 Ø (D.L.)	-	-	8 Ø (2L) @ 100 TO 150 C/C
	3	BX3	300 x 450	4-16 Ø	2-16 Ø	-	-	2-16 Ø	2-16 Ø + 2-20 Ø	-	-	8 Ø (2L) @ 125 TO 175 C/C
	4	BX4	300 x 450	3-16 Ø	4-16 Ø	-	-	3-16 Ø	4-16 Ø	-	-	8 Ø (2L) @ 150 C/C
	5	BX5	300 x 450	3-20 Ø	2-16 Ø	-	-	2-20 Ø	4-16 Ø	-	-	8 Ø (2L) @ 150 TO 200 C/C
	6	BX6	300 x 450	3-16 Ø + 3-16 (D.L.)	2-16 Ø	2-16 Ø + 2-20 Ø + 3-20 Ø (D.L.)	4-16 Ø	2-16 Ø	4-16 Ø + 3-16 Ø (D.L.)	-	-	8 Ø (2L) @ 125 TO 175 C/C
	7	BY1	300 x 450	4-16 Ø	2-20 Ø	2-16 Ø + 2-20 Ø + 3-20 Ø (D.L.)	3-20 Ø	2-16 Ø	3-20 Ø	2-16 Ø	4-20 Ø + 2-20 Ø (D.L.)	8/10 Ø (2L) @ 125 TO 175 C/C
	8	BY2	300 x 450	3-20 Ø	2-16 Ø	-	-	2-20 Ø	4-16 Ø	-	-	8 Ø (2L) @ 125 TO 175 C/C
	9	BY3	250 x 450	2-16 Ø + 2-20 Ø	2-16 Ø	2-16 Ø + 2-20 Ø	4-16 Ø	2-16 Ø + 2-20 Ø	4-16 Ø	2-16 Ø	4-16 Ø	8 Ø (2L) @ 150 TO 200 C/C
	10	BY4	300 x 450	4-16 Ø	3-20 Ø	-	-	2-16 Ø	3-20 Ø + 3-16 Ø (D.L.)	-	-	8 Ø (2L) @ 100 TO 150 C/C
	11	BY5	250 x 450	4-20 Ø	4-20 Ø	-	-	2-20 Ø	3-20 Ø	-	-	8/10 Ø (2L) @ 125 TO 150 C/C
	12	BY6	300 x 450	3-20 Ø + 2-20 (D.L.)	2-20 Ø	3-20 Ø + 2-20 (D.L.)	3-20 Ø	2-20 Ø	3-20 Ø	2-20 Ø	3-20 Ø + 2-20 (D.L.)	8 Ø (2L) @ 125 TO 175 C/C
	13	BY7	300 x 450	4-16 Ø	2-16 Ø	4-16 Ø + 3-16 (D.L.)	3-16 Ø	2-16 Ø	4-16 Ø	-	-	8 Ø (2L) @ 150 TO 200 C/C
	14	BY8	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 + 2-16 Ø (D.L.)	2-16 Ø	2-16 Ø + 2-20 Ø + 2-16 Ø (D.L.)	8 Ø (2L) @ 125 TO 175 C/C

COLUMN SCHEDULE

GROUP MKD.	COLUMN MARKED	COLUMN SECTION	COLUMN REINFORCEMENT	
			GROUND & 2ND FL. LEV.	2ND FL. TO ROOF & LIFT M/C LVL.
1	C3,C4,C7, C20,C21,C23	300 x 450	4-16 Ø + 4-20 Ø	8-16 Ø
2	C1,C2,C6, C10,C11, C13,C15,C18	300 x 450	8-20 Ø	4-20 Ø + 4-16 Ø
3	C5,C14,C16, C17,C19	300 x 500	10-20 Ø	6-20 Ø + 4-16 Ø
4	C8	300 x 475	8-16 Ø	4-16 Ø + 4-12 Ø
5	C9	250 x 450	4-20 Ø + 4-16 Ø	8-16 Ø
5A	C12	550	16-16 Ø	12-16 Ø + 4-12 Ø
6	C22	300 x 927	14-16 Ø	10-16 Ø + 4-12 Ø
LINKS			8 Ø (4L) & (2L) @ 200 C/C	

SPECIFICATIONS:
 # ALL DIMENSIONS ARE IN M.M.
 # GRADE OF CONCRETE IS M-25(NOMINAL MIX-3:1.5:1)
 # GRADE OF STEEL:
 # COVER TO STEEL: 30 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. 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.
 # FOUNDATION OF F1 & F3 TO BE LAID OVER 150 Ø 6.0 M. LONG SAL-BALLAH PILES @ 600 C/C AT DEPTH (-) 1.5 M. B.G.L.

CERTIFICATE OF GEO-TECHNICAL ENGINEER

UNDERSIGNED HAS INSPECTED THE SITE & WILL CARRY OUT THE SOIL INVESTIGATION THEREIN, IT IS CERTIFIED THAT EXISTING SOIL OF THE SITE IS ABLE TO CARRY OUT THE LOAD FROM THE PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM THERE IN WILL BE SAFE & STABLE IN ALL RESPECT FROM GEO-TECHNICAL POINT OF VIEW.

ALOKE ROY G.T.E. - I/11
 NAME OF GEO-TECHNICAL ENGINEER

CERTIFICATE OF STRUCTURAL ENGINEER

THIS IS TO CERTIFY THAT THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPER STRUCTURE 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 CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECTS. THE SOIL TEST REPORT HAS BEEN DONE BY ALOKE ROY (G.T.E. - I/11) OF GEOTECH ENGINEERS PVT. LTD. 6A, MILAN PARK, KOLKATA-700084. THE RECOMMENDATION OF SOIL TEST REPORT HAS BEEN CONSIDERED DURING STRUCTURAL CALCULATION.

SANKAR DAS (I/12)
 NAME OF STRUCTURAL ENGINEER

DECLARATION OF ARCHITECT

CERTIFIED ON 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 TENANT.

ANJAN UKIL (CA/94/16721)
 NAME OF ARCHITECT.

DECLARATION OF OWNER / APPLICANT

I DO HERE BY DECLARE WITH FULL RESPONSIBILITY THAT, I SHALL ENGAGE L.B.A & E.S.E 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 UNDER THE GUIDANCE OF LBA/EBE BEFORE STARTING OF BUILDING FOUNDATION.

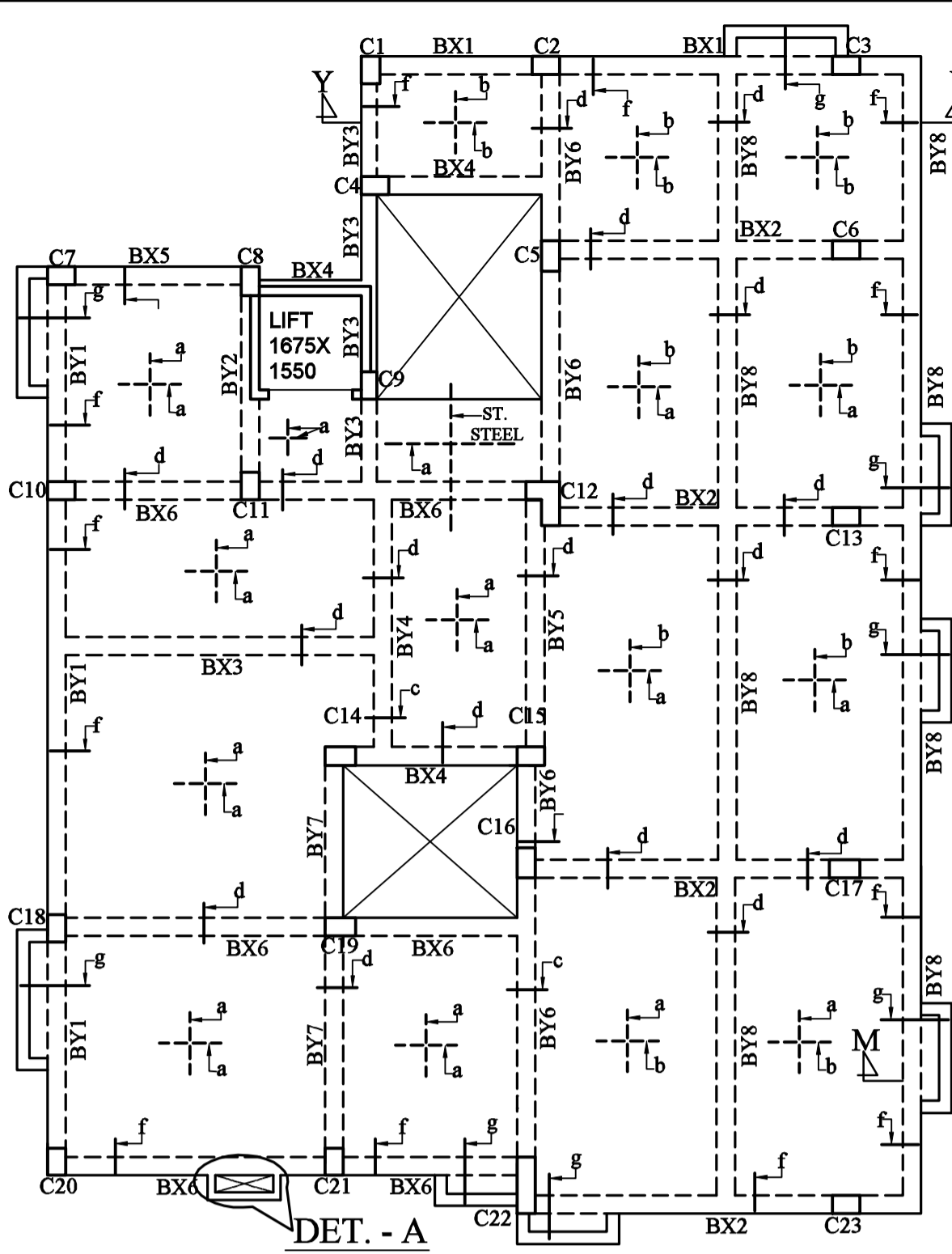
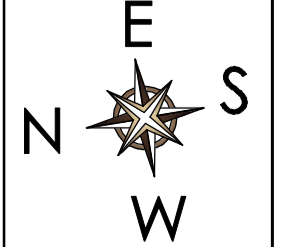
MR. SATWIC VIVEK RUIA,
 C.A. OF PALLAB KUMAR BOSE.
 BIPLAB BOSE,
 JYOTI BOSE,
 NANDITA BASU,
 SUJATA BOSE.
 SIGNATURE OF OWNER/APPLICANT.

PROJECT,
 PROPOSED G+ IV STORIED (HT.-15.475M)
 RESIDENTIAL BUILDING U/S 393A OF KMC ACT 1980, KMC BUILDING RULE 2009, AT PREMISES NO. 19, SCHOOL ROW, KOLKATA-700 025, WARD NO-71 BR. NO-IX,P.S.-BHOWANIPUR.

• Anjan Ukil
architect

JOB NO.	C / 2382	DATE - 16.12.2021
DRG. NO. -	CA/01	REV. 0
SCALE: -	1 : 100,1:25 (UNLESS OTHERWISE MENTIONED)	
TITLE	STRUCTURAL DETAILS PLAN	
DRAWN BY.	P.C.M	

STRUCTURAL CONSULTANT
TETRAGON ENGINEERING CONSULTANCY PVT.LTD.
 2T CORNFIELD ROAD, KOLKATA - 700019.
 PHONE NO. 33 3551 4457
 E-mail : tecpl.kolkata@gmail.com

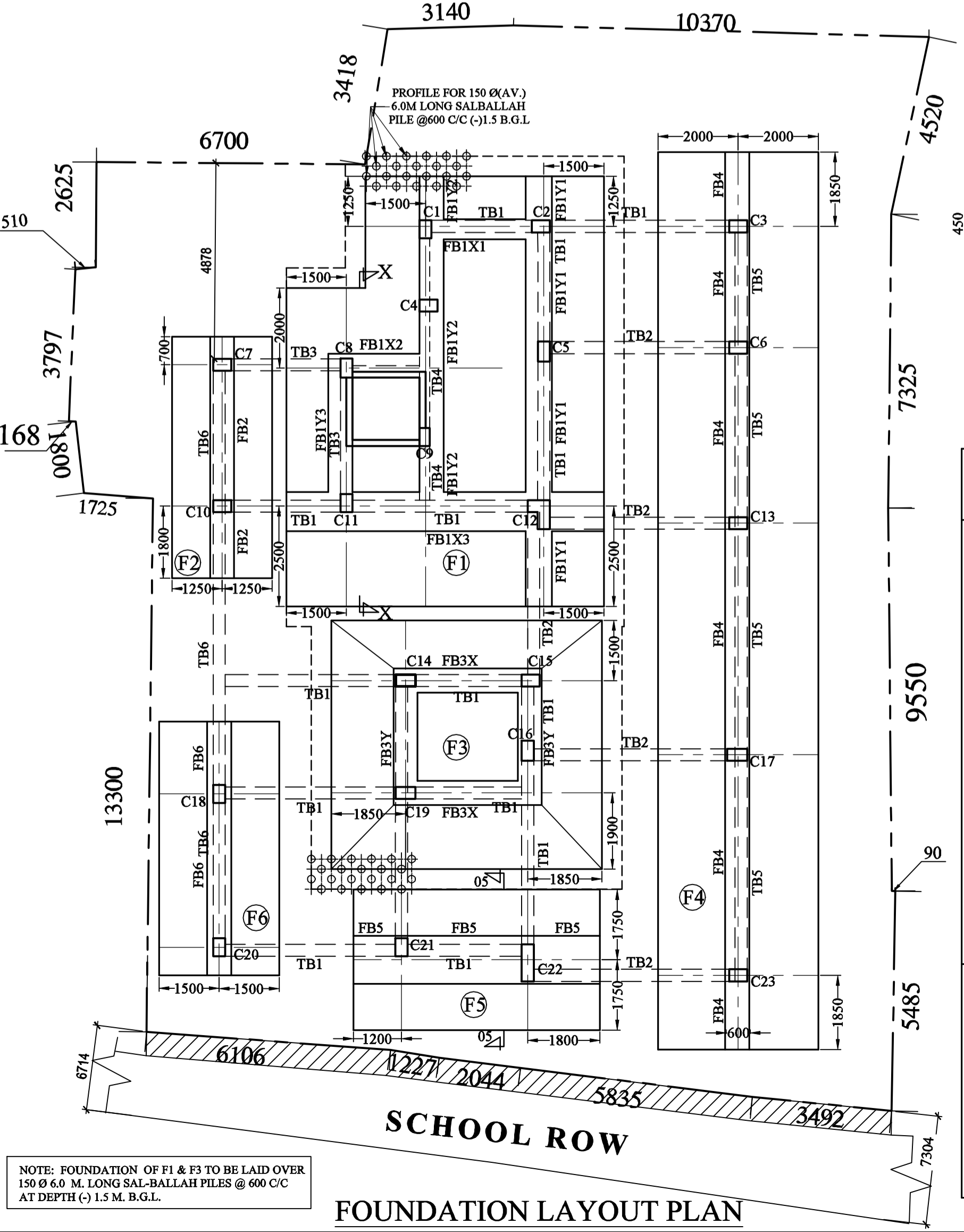
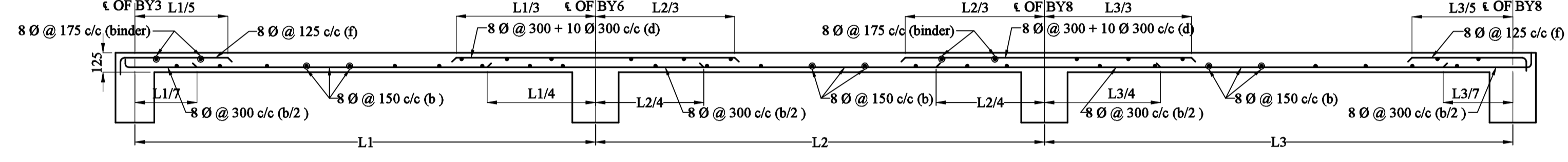
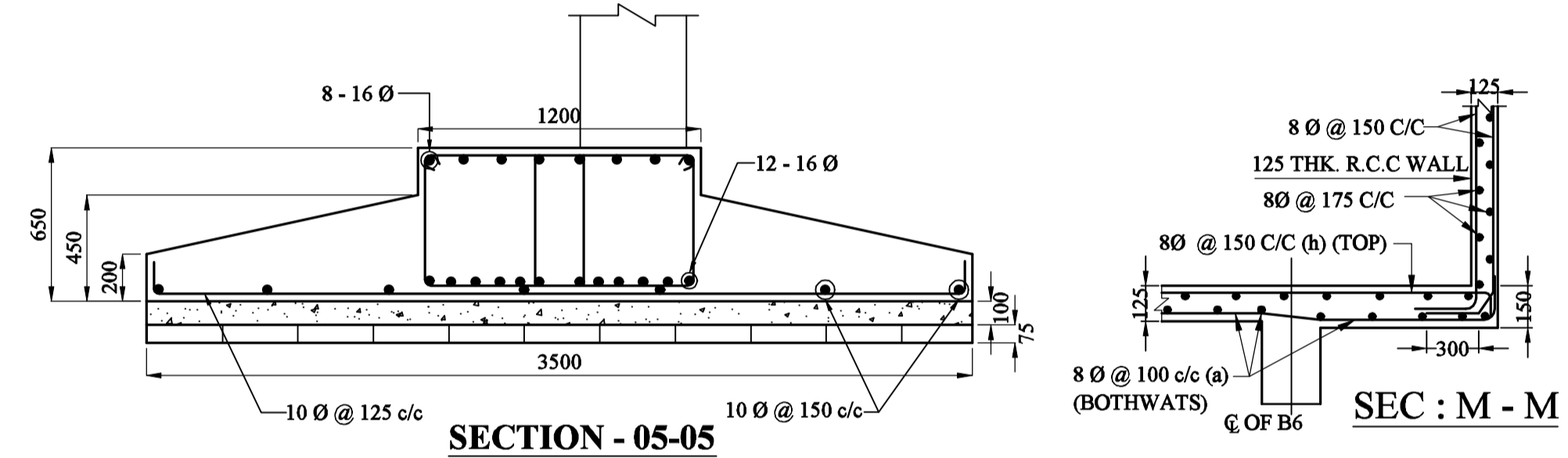


TYPICAL FLOOR BEAM LAYOUT PLAN (1ST TO 4TH)

FLOOR SLAB SCHEDULE

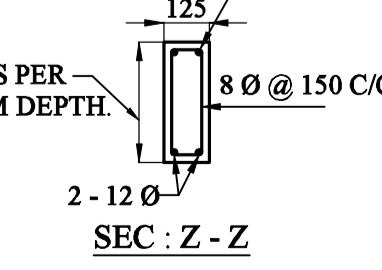
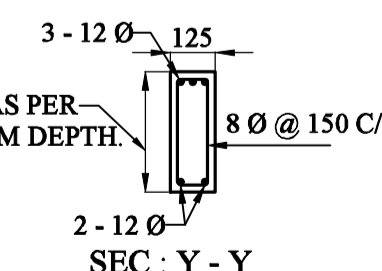
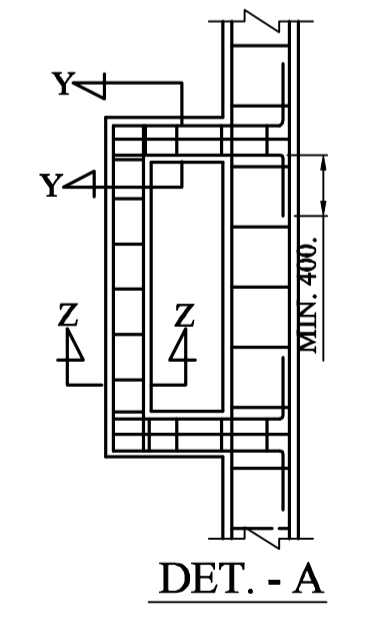
SLAB THICKNESS- 125 M.M.

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



BEAM SCHEDULE

TYPE OF BEAM	S.L. NO	BEAM MKD.	BEAM SECTION	END SUPPORT		INTERIOR SUPPORT		END SPAN		INTERIOR SPAN		STIRRUPS
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
FOUNDATION BEAM	1	FB1X1	500 x 750	3-20 Ø	3-20 Ø	-	-	5-20 Ø	3-20 Ø	-	-	10 Ø (4L) @ 125 C/C
	8	FB1X2	500 x 750	3-20 Ø	3-20 Ø	-	-	5-20 Ø	3-20 Ø	-	-	10 Ø (4L) @ 125 C/C
	9	FB1X3	975 x 750	5-20 Ø	5-20 Ø	-	-	5-20 Ø + 4-20 Ø	5-20 Ø	-	-	10 Ø (4L) @ 100 TO 150 C/C
	10	FB1Y1	650 x 750	3-20 Ø	3-20 Ø + 2-16 Ø	3-20 Ø	3-20 Ø + 4-20 Ø + 3-16 Ø (D.L.)	3-16 Ø + 4-20 Ø	3-20 Ø	-	-	10Ø (4L) @ 125 TO 175 C/C
	11	FB1Y2	500 x 750	5-16 Ø	5-16 Ø + 3-16 (D.L.)	5-16 Ø	3-16 Ø	5-16 Ø	5-16 Ø + 3-16 (D.L.)	5-16 Ø + 3-16 (D.L.)	3-16 Ø	10Ø (4L) @ 150 TO 225 C/C
	12	FB1Y3	650 x 750	3-20 Ø	3-20 Ø + 2-16 Ø	3-20 Ø	3-20 Ø	3-16 Ø + 4-20 Ø	3-20 Ø	-	-	10Ø (4L) @ 125 TO 175 C/C
TIE BEAM	1	TB1	250 x 450	4-16 Ø	4-16 Ø	2-16 Ø + 2-20 Ø	2-16 Ø + 2-20 Ø	2-16Ø	2-16Ø	-	-	8 Ø (2L) @ 125 TO 175 C/C
	2	TB2	250 x 450	4-20 Ø	4-20 Ø	-	-	2-20Ø	3-20Ø	-	-	8 Ø (2L) @ 125 TO 175 C/C
	3	TB3	250 x 450	3-16 Ø	3-16 Ø	-	-	3-16Ø	3-16Ø	-	-	8 Ø (2L) @ 150 C/C
	4	TB4	250 x 450	4-16 Ø	4-16 Ø	4-16 Ø	4-16 Ø	4-16Ø	4-16Ø	2-16Ø	2-16Ø	8 Ø (2L) @ 150 C/C
	5	TB5	250 x 450	3-16 Ø	3-16 Ø	4-16 Ø	4-16 Ø	2-16Ø	2-16Ø	2-16Ø	4-16Ø	8 Ø (2L) @ 150 TO 200 C/C
	6	TB6	250 x 450	4-16 Ø	4-16 Ø	2-16 Ø + 2-20 Ø + 2-20 (D.L.)	2-16 Ø + 2-20 Ø	2-16Ø	2-16Ø	2-16Ø	2-16Ø	2-16 Ø + 2-20 Ø



NOTE: FOUNDATION OF F1 & F3 TO BE LAID OVER 150 Ø 6.0 M. LONG SAL-BALLAH PILES @ 600 C/C AT DEPTH (-) 1.5 M. B.G.L.