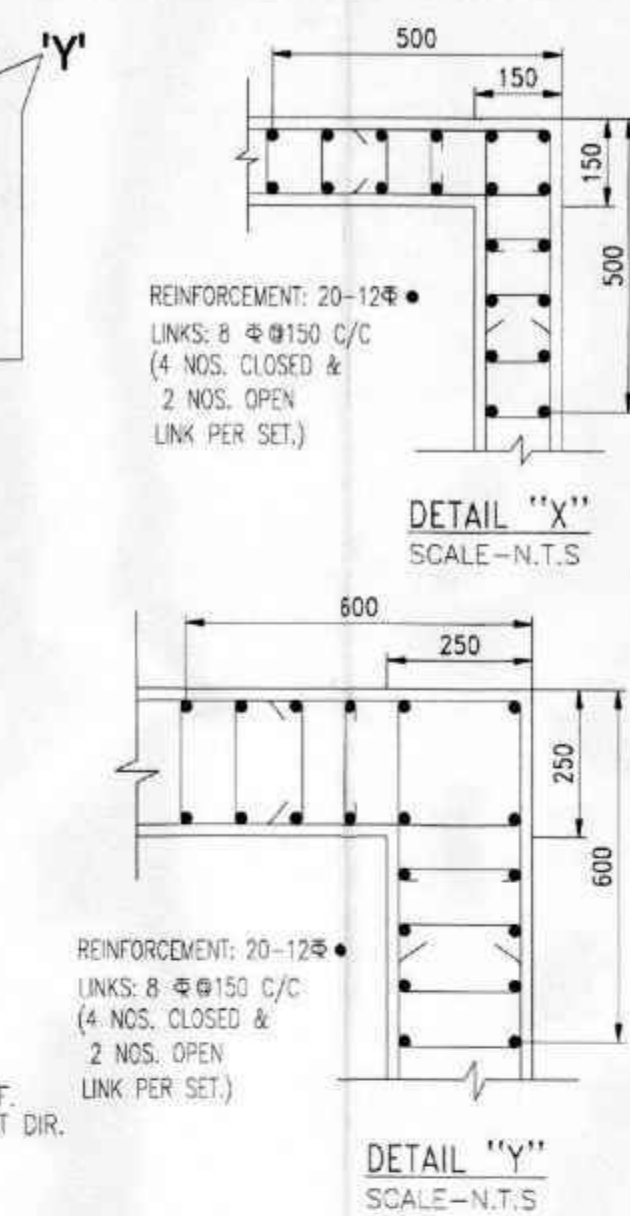
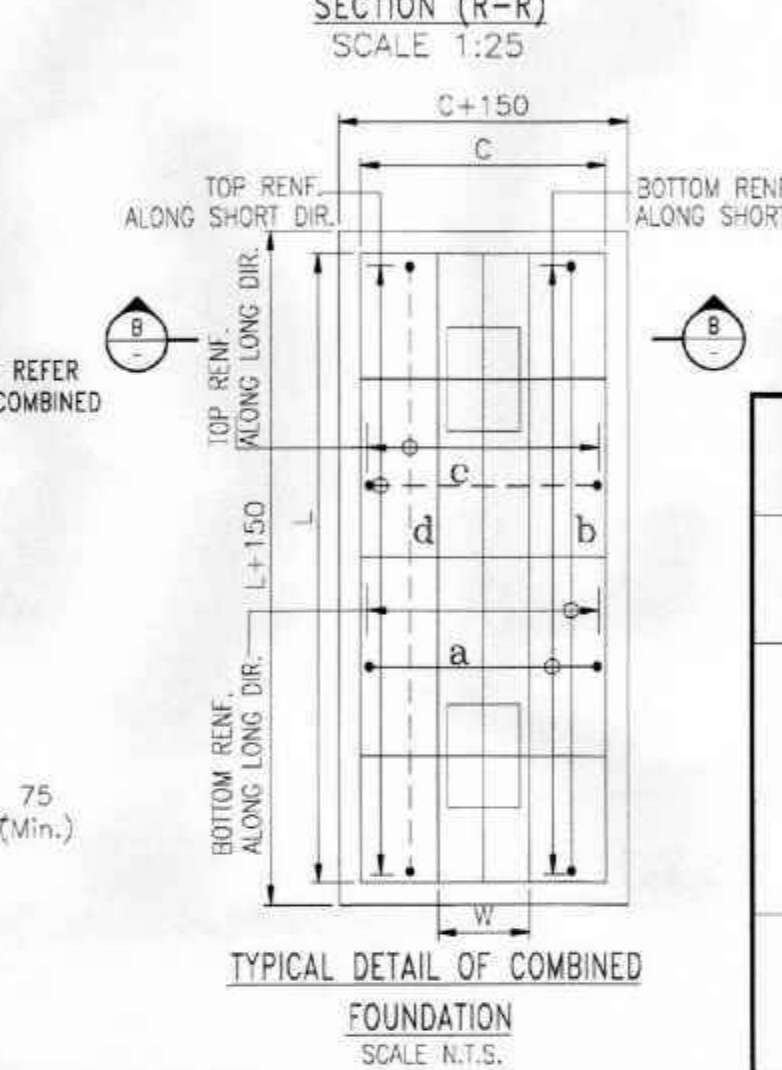
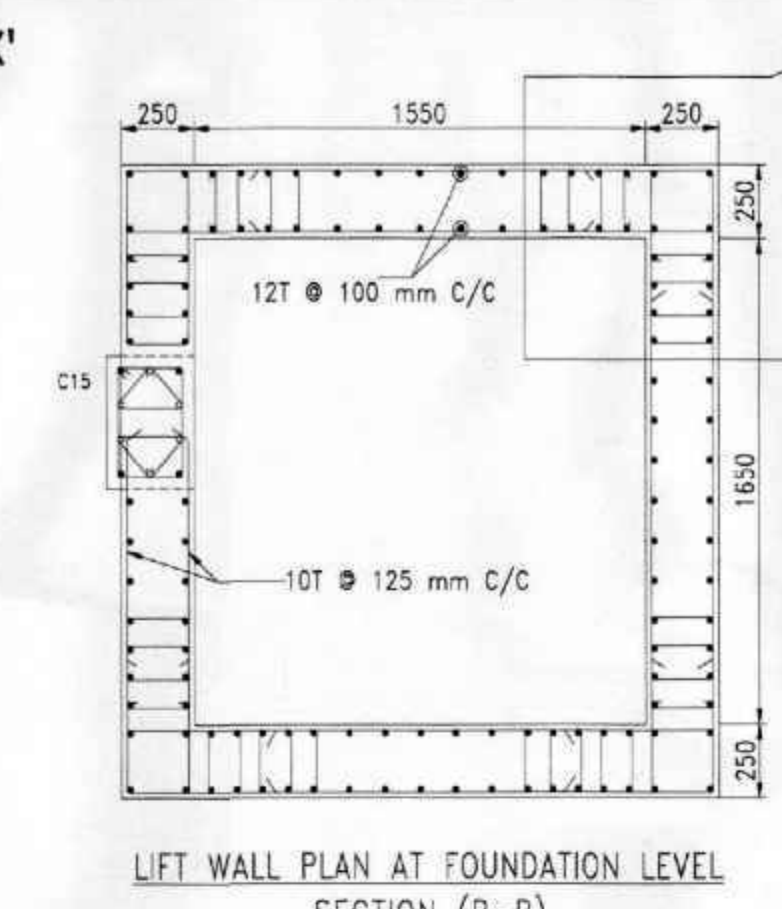
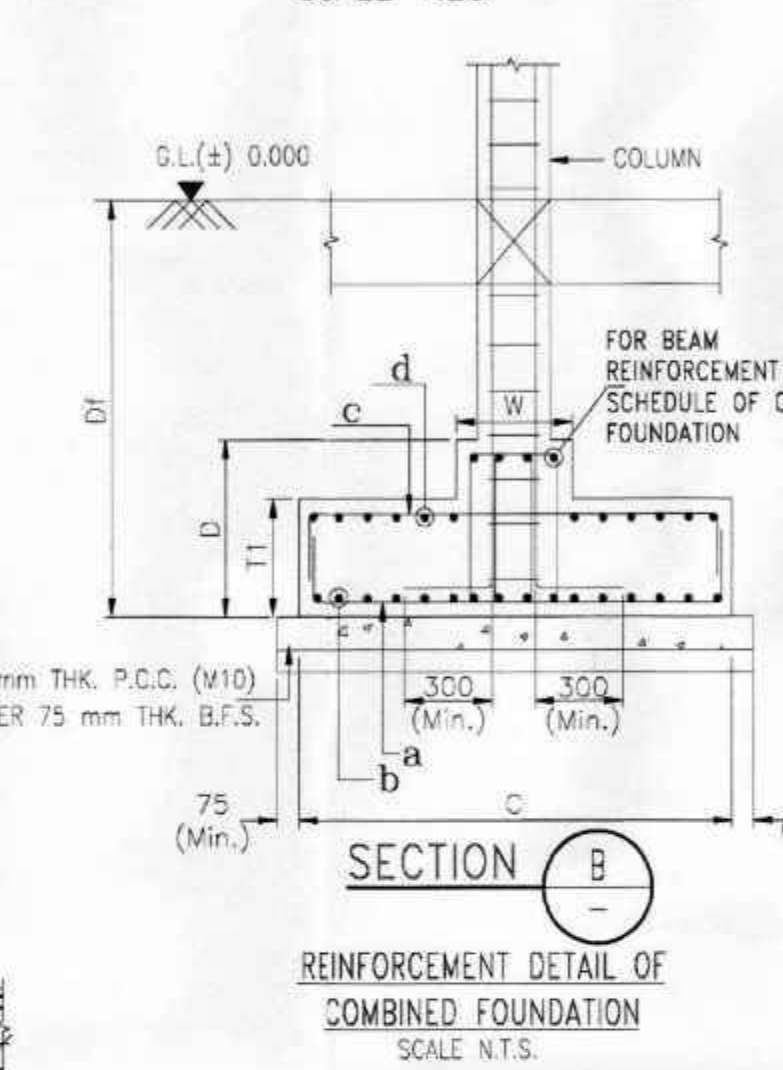
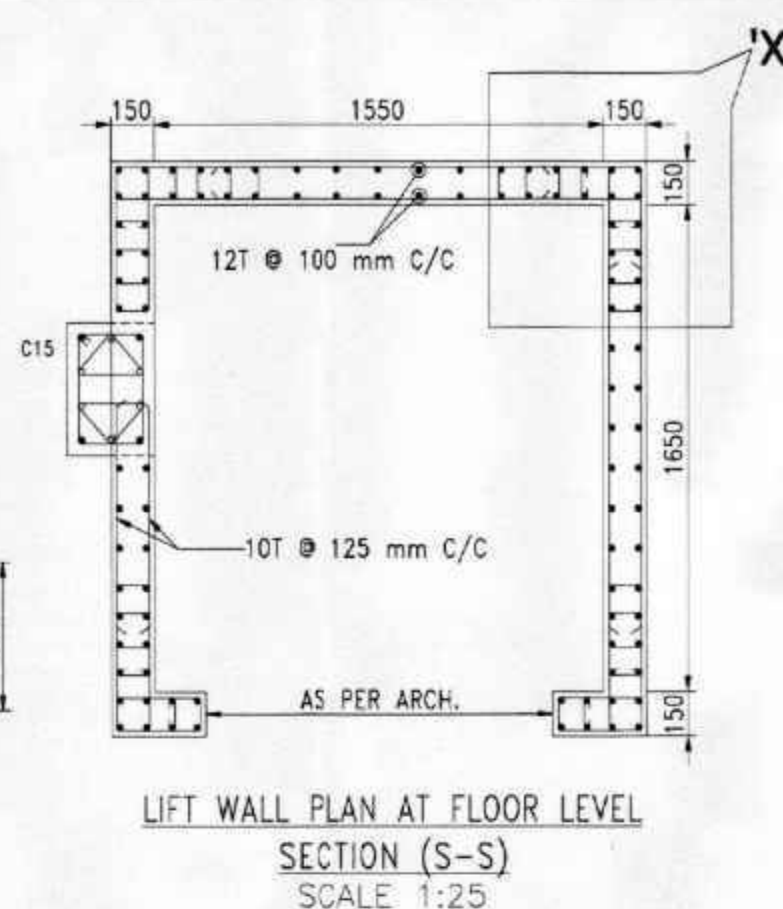
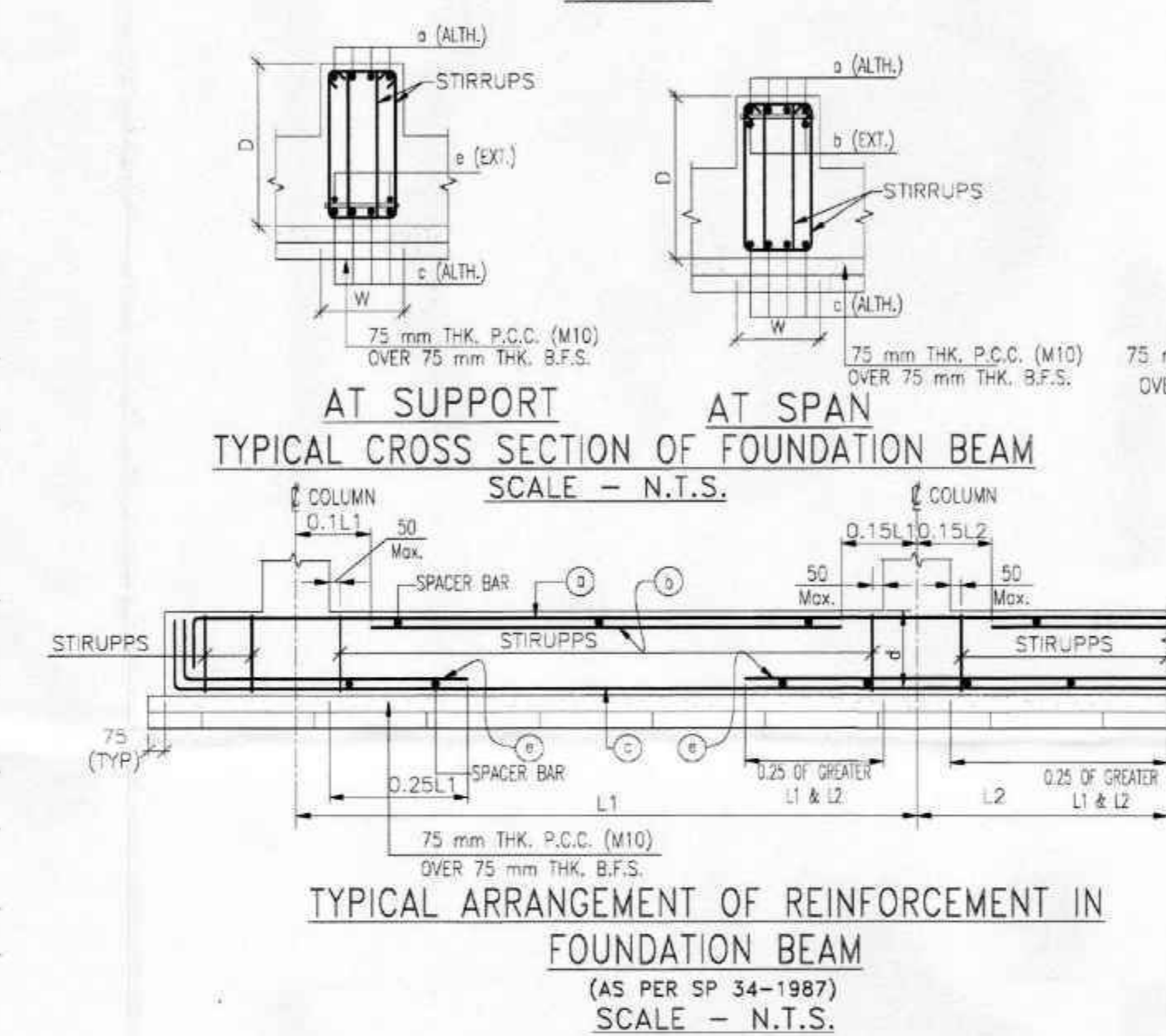
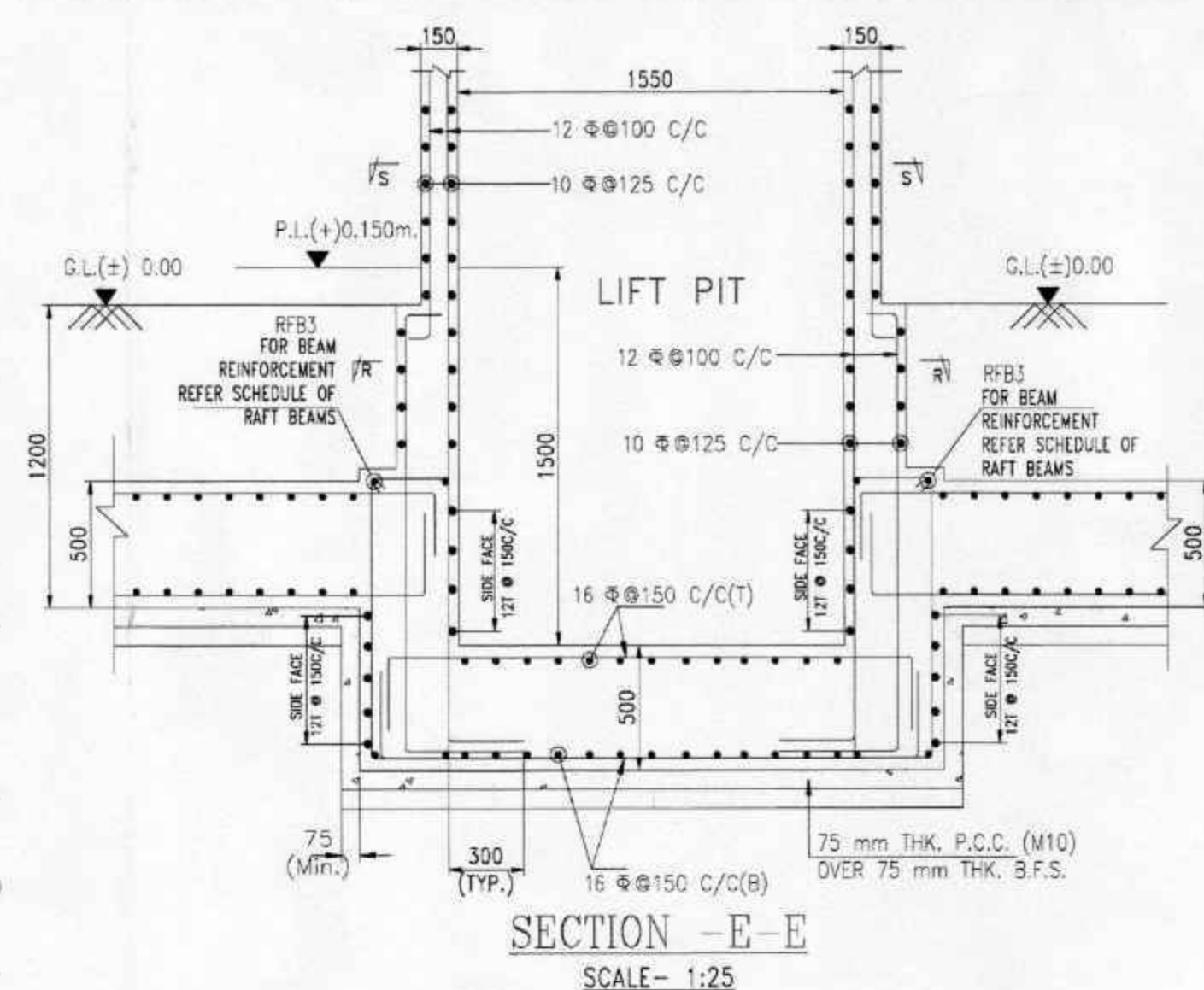
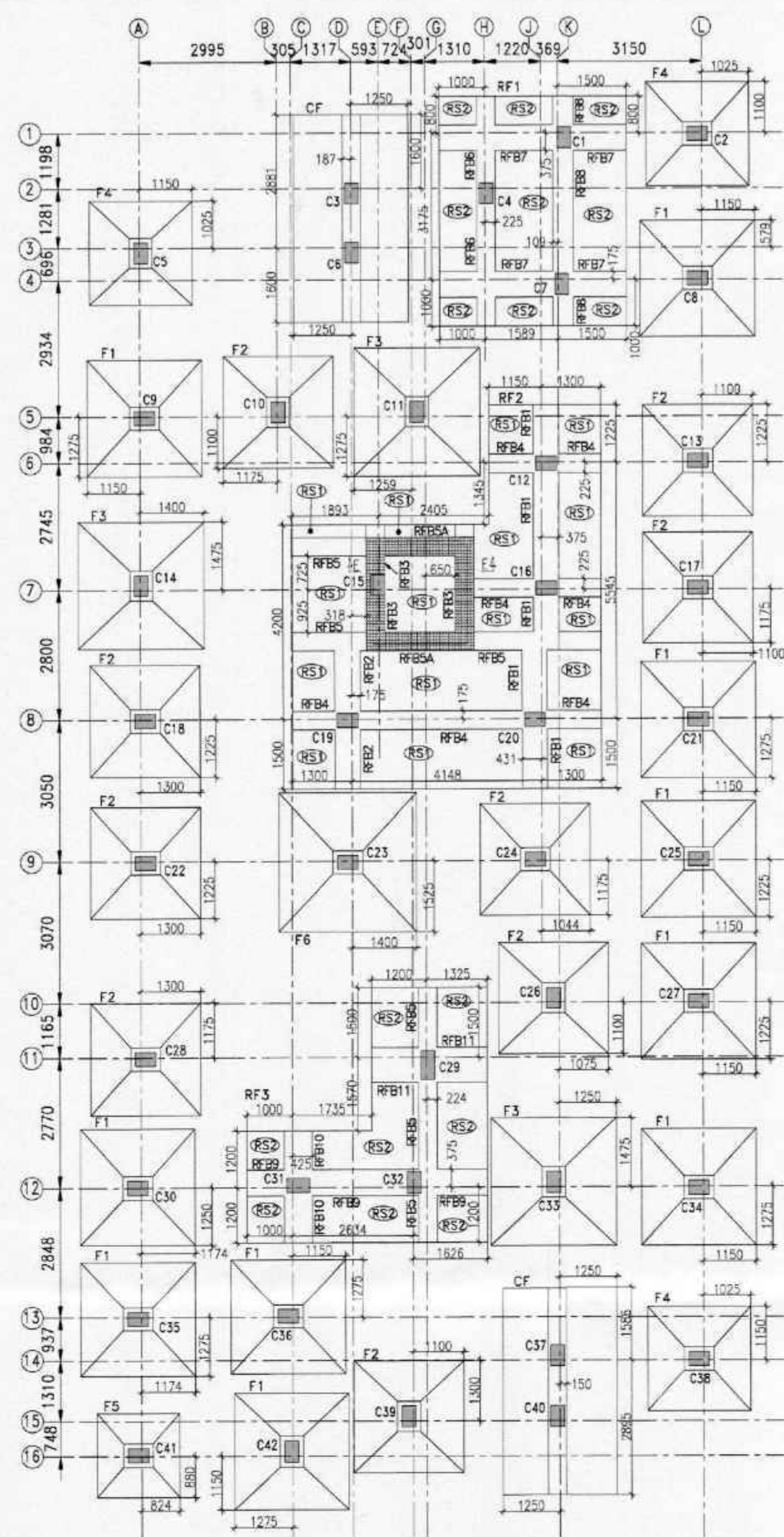




NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION			
TYPE OF FOUNDATION	FND. MARK	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	F1	2.50m x 2.50m.	14.2
	F2	2.40m x 2.40m.	14.4
	F3	2.75m x 2.75m.	14.1
	F4	2.25m x 2.25m.	14.5
	F5	1.80m x 1.80m.	14.7
	F6	3.00m x 3.00m.	14.0
RAFT	RF1	AS SHOWN IN DRAWING	11.1
	RF2	AS SHOWN IN DRAWING	10.0
	RF3	AS SHOWN IN DRAWING	11.3
COMBINED	CF	AS SHOWN IN DRAWING	11.8

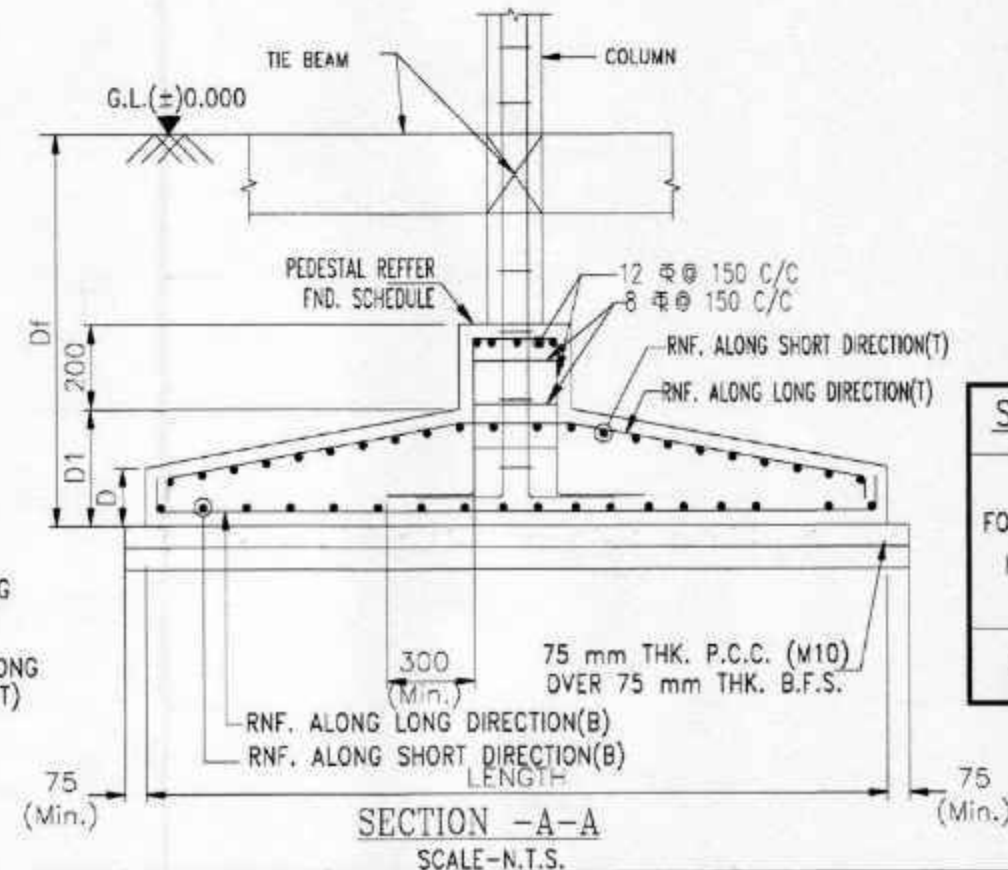
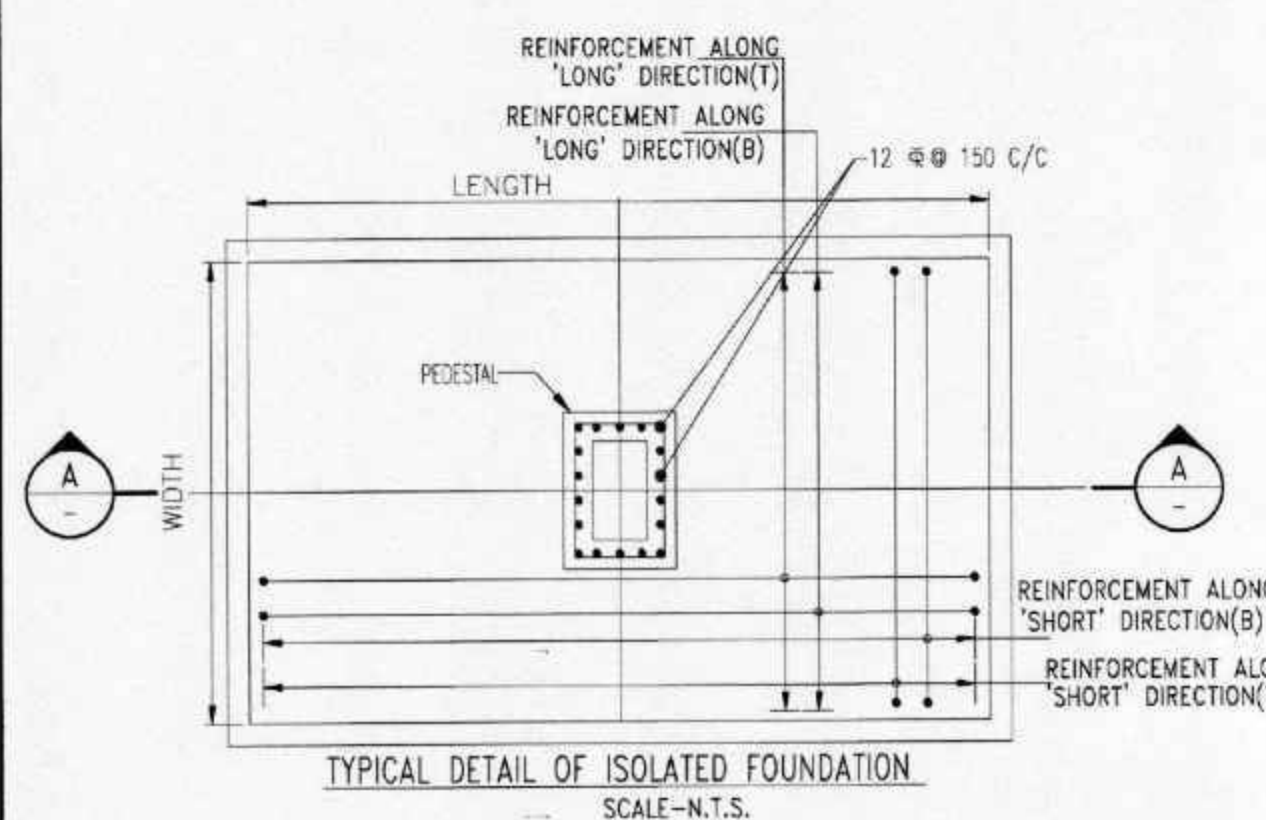
SPECIAL NOTE:-
THIS DESIGN WILL NOT BE VALID IF THE BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

SCHEDULE OF RAFT SLAB					
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION	REINFORCEMENT ALONG LONGER DIRECTION	REINFORCEMENT ALONG LONGER DIRECTION	REINFORCEMENT ALONG LONGER DIRECTION
RS1	500	16 ϕ 150 C/C	16 ϕ 150 C/C	16 ϕ 150 C/C	16 ϕ 150 C/C
RS2	500	16 ϕ 200 C/C	16 ϕ 200 C/C	16 ϕ 200 C/C	16 ϕ 200 C/C

SCHEDULE FOR ISOLATED FOUNDATION											
UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				
			WIDTH (m)	LENGTH (m)	THICKNESS		DEPTH	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
					D1 (mm)	D (mm)		Dt (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION
C8,C9,C21, C25,C27,C30, C34,C35,C36,C42	F1	10	2.5	2.5	550	350	1200	10 ϕ 100 C/C	10 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C10,C13,C17, C18,C22,C24, C26,C28,C29	F2	09	2.4	2.4	550	350	1200	12 ϕ 125 C/C	12 ϕ 125 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C11,C14,C33	F3	03	2.75	2.75	550	350	1200	12 ϕ 100 C/C	12 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C25,C38	F4	03	2.25	2.25	550	350	1200	10 ϕ 100 C/C	10 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C41	F5	01	1.8	1.8	500	350	1200	10 ϕ 150 C/C	10 ϕ 150 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C23	F6	01	3.0	3.0	600	400	1200	12 ϕ 100 C/C	12 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C

SCHEDULE OF RAFT BEAMS							
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SIDE FACE
	WIDTH (mm)	DEPTH (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	
			(a)	(b)	(c)	(d)	
RFB1	550	550	5-16 ϕ	-	5-16 ϕ	3-16 ϕ	4L-8 ϕ 150 C/C
RFB2	550	550	5-16 ϕ	-	2-20 ϕ +3-16 ϕ	2-16 ϕ	4L-8 ϕ 200 C/C
RFB3	400	1200	4-16 ϕ +2-16 ϕ	-	4-16 ϕ +3-16 ϕ	-	4L-8 ϕ 200 C/C
RFB4	400	550	4-16 ϕ	-	4-16 ϕ	2-16 ϕ	4L-8 ϕ 200 C/C
RFB5	400	550	4-16 ϕ	2-16 ϕ	4-20 ϕ	2-16 ϕ	4L-8 ϕ 200 C/C
RFB6	400	1200	4-16 ϕ +2-16 ϕ	-	4-20 ϕ +2-16 ϕ	-	4L-8 ϕ 200 C/C
RFB7	550	550	4-16 ϕ	-	4-20 ϕ	4-20 ϕ	4L-8 ϕ 100 C/C
RFB8	450	550	4-16 ϕ	-	4-16 ϕ	-	4L-8 ϕ 200 C/C
RFB9	550	550	5-16 ϕ	-	5-20 ϕ	2-16 ϕ	4L-8 ϕ 200 C/C
RFB10	600	550	5-16 ϕ	-	5-16 ϕ	-	4L-8 ϕ 150 C/C
RFB11	750	550	6-16 ϕ	-	6-16 ϕ	-	4L-8 ϕ 200 C/C

SCHEDULE FOR COMBINED FOUNDATION									
FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS			
		TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
						ALONG SHORT DIRECTION (a)	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (c)	ALONG LONG DIRECTION (d)
CF	02	4481	2500	500	1200	12 ϕ 100 C/C	10 ϕ 150 C/C	8 ϕ 150 C/C	8 ϕ 150 C/C



- NOTES :
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES.
 - ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE AS MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH) AS RELEVANT ARCHITECTURAL DRAWINGS.
 - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT SHALL BE OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
 - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
 - CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
i) ISOLATED FOUNDATION : 50 mm
ii) RAFT BEAM & SLAB : 50 mm
iii) SHEAR WALL : 20 mm
iv) COMBINED FOUNDATION : 50 mm
 - GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
 - DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987.
 - THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED, COMBINED & STRIP FOOTINGS AT DEPTH (-) 1.2m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
 - THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
 - THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1893(PART-1)-2015 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE -
STRUCTURAL DRAWING OF PROPOSED G+5 STORIED RESIDENTIAL (APARTMENT) BUILDING OF "SRI. SUKANTA MUKHERJEE & SRI. MRITYUNJOY MUKHERJEE & SMT. SRIJANI MUKHERJEE OVER R.S. PLOT NO.- 1649, L.R. PLOT NO. - 2002, KHATIAN NO.- 6187,7179,7180, MOUZA - BIRBHANPUR, J.L. NO- 91, P.S. - COKE OVEN, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT

SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT,
GROUND FLOOR
98B, KALIKATPUR ROAD,
KOLKATA - 700 099
Email-structconenterprise@gmail.com
Ph.-9007714478, 7003201735

DRAWING TITLE

FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN

DATE-08.09.2023

SHEET NO. - 1 OF 4

SHEET SIZE - A1