



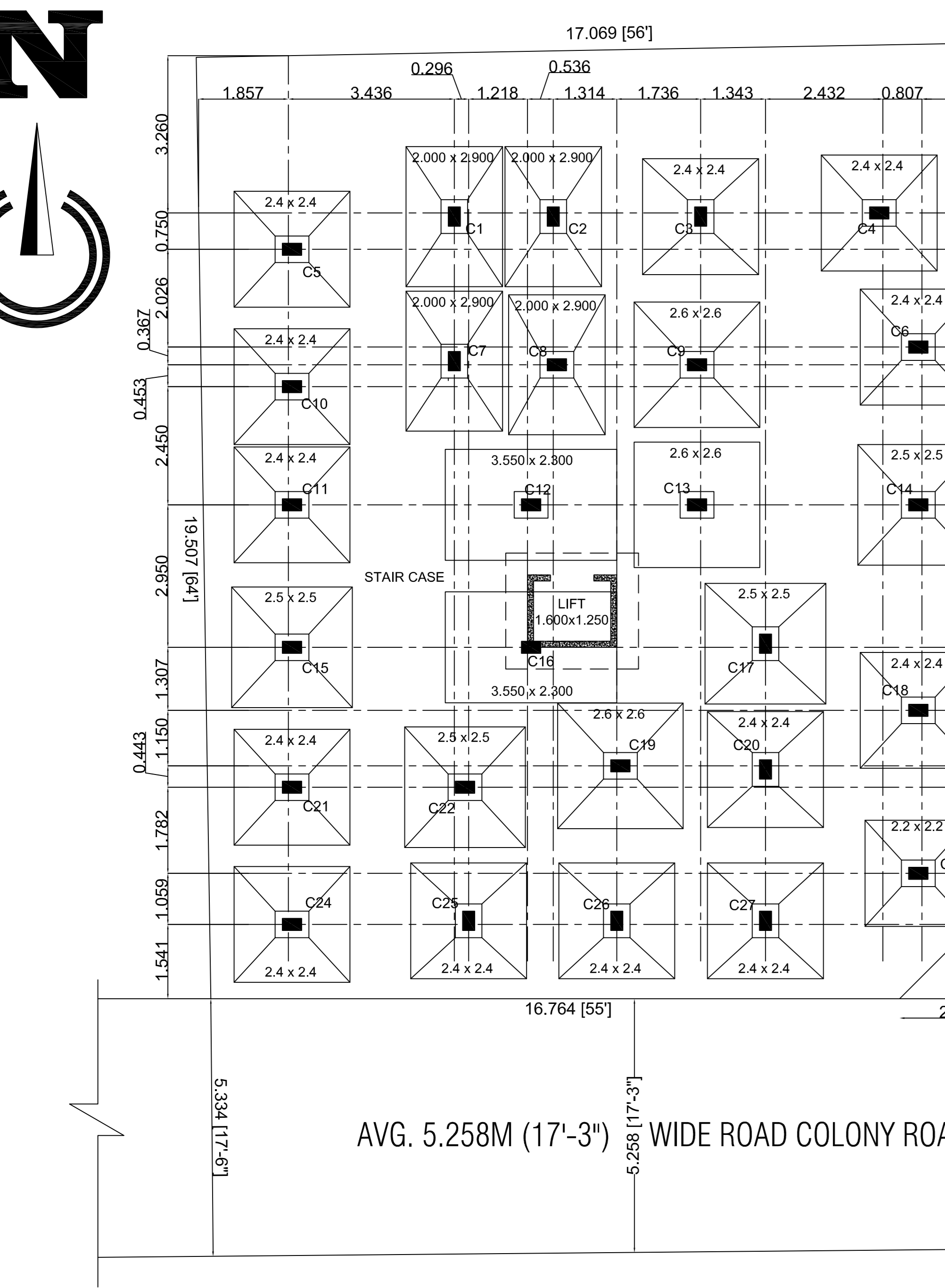
SCHEDULE OF FOUNDATION :-

GRADE	FOUNDATION UNDER COLUMN MKD.	TYPE AND SIZE sqm	DEPTH		REINFORCEMENT	
			AT EDGE (D1) m	AT COLUMN SUPPORT (D3)	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION
I	C3, C4, C5, C6; C10, C11; C18, C20, C21, C24, C25, C26, C27.	2.4 x 2.4	0.200	1.425	12 TOR @ 0.100 C/C	12 TOR @ 0.100 C/C
II	C14, C15, C17, C22.	2.55 x 2.55	0.250	1.375	12 TOR @ 0.100 C/C	12 TOR @ 0.100 C/C
III	C9, C13, C19.	2.6 x 2.6	0.250	1.375	12 TOR @ 0.100 C/C	12 TOR @ 0.100 C/C
IV	C1, C2, C7, C8.	2.0 x 2.9	0.300	1.325	16 TOR @ 0.150 C/C	12 TOR @ 0.100 C/C
V	C12, C16.	3.55 x 2.3	0.400	1.225	16 TOR @ 0.150 C/C	12 TOR @ 0.100 C/C
VI	C23.	2.2 x 2.2	0.250	1.375	12 TOR @ 0.100 C/C	12 TOR @ 0.100 C/C

SCHEDULE OF SLAB :-

SLAB MKD	THICKNESS (m)	REINFORCEMENT AT SUPPORT				REINFORCEMENT AT SPAN			
		ALONG LONGER DIR.		ALONG SHORTER DIR.		ALONG LONGER DIR.		ALONG SHORTER DIR.	
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM
S	0.125	8 TOR @ 0.125 C/C	8 TOR @ 0.250 C/C	8 TOR @ 0.125 C/C	8 TOR @ 0.250 C/C	8 TOR @ 0.125 C/C	8 TOR @ 0.125 C/C	8 TOR @ 0.125 C/C	8 TOR @ 0.125 C/C
CS	0.150	8 TOR @ 0.0625 C/C	8 TOR @ 0.125 C/C	8 TOR @ 0.0625 C/C	8 TOR @ 0.125 C/C	—	—	—	—

TORSIONAL REINFORCEMENT AS PER IS:456 2000 WILL BE PROVIDED



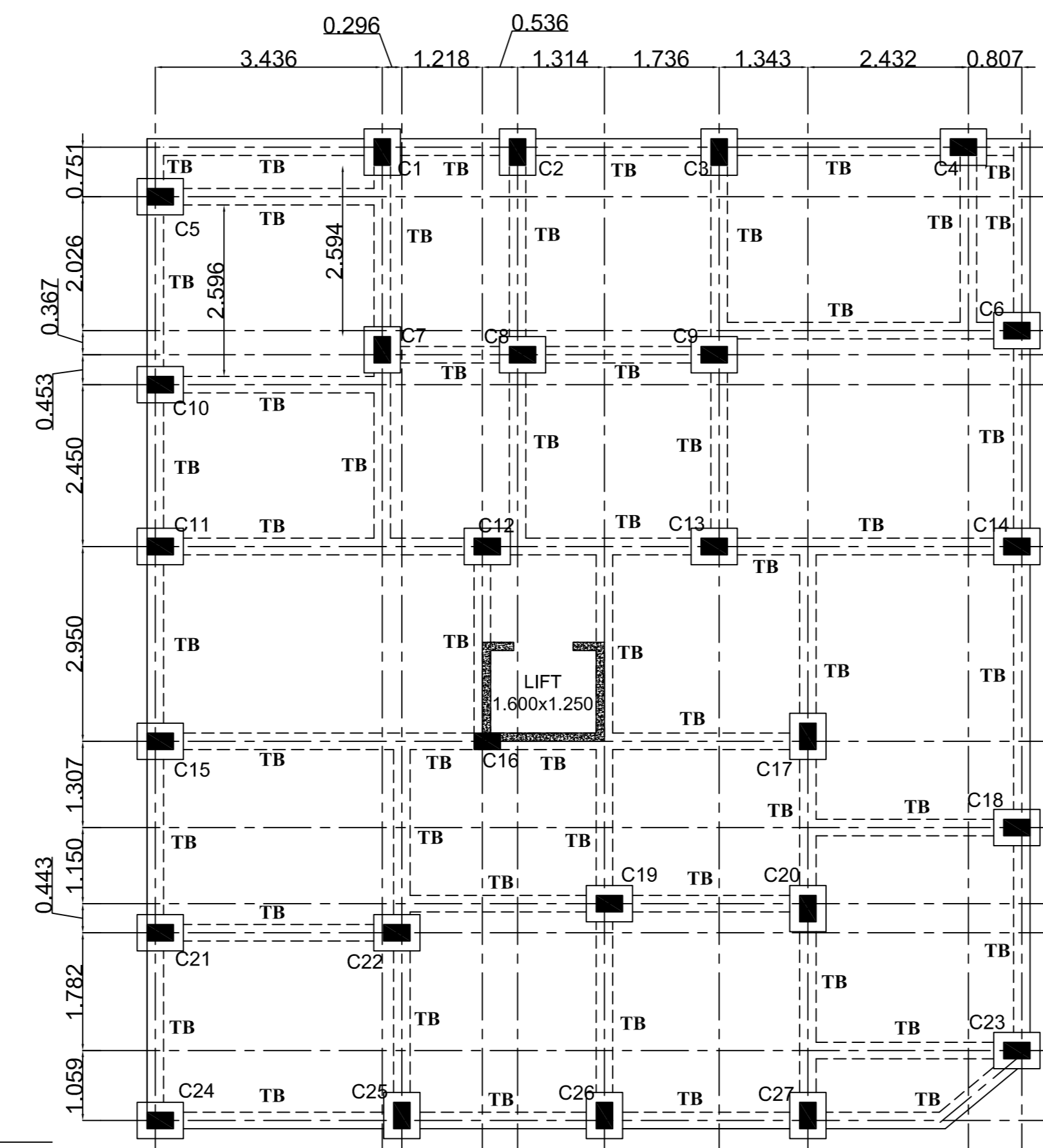
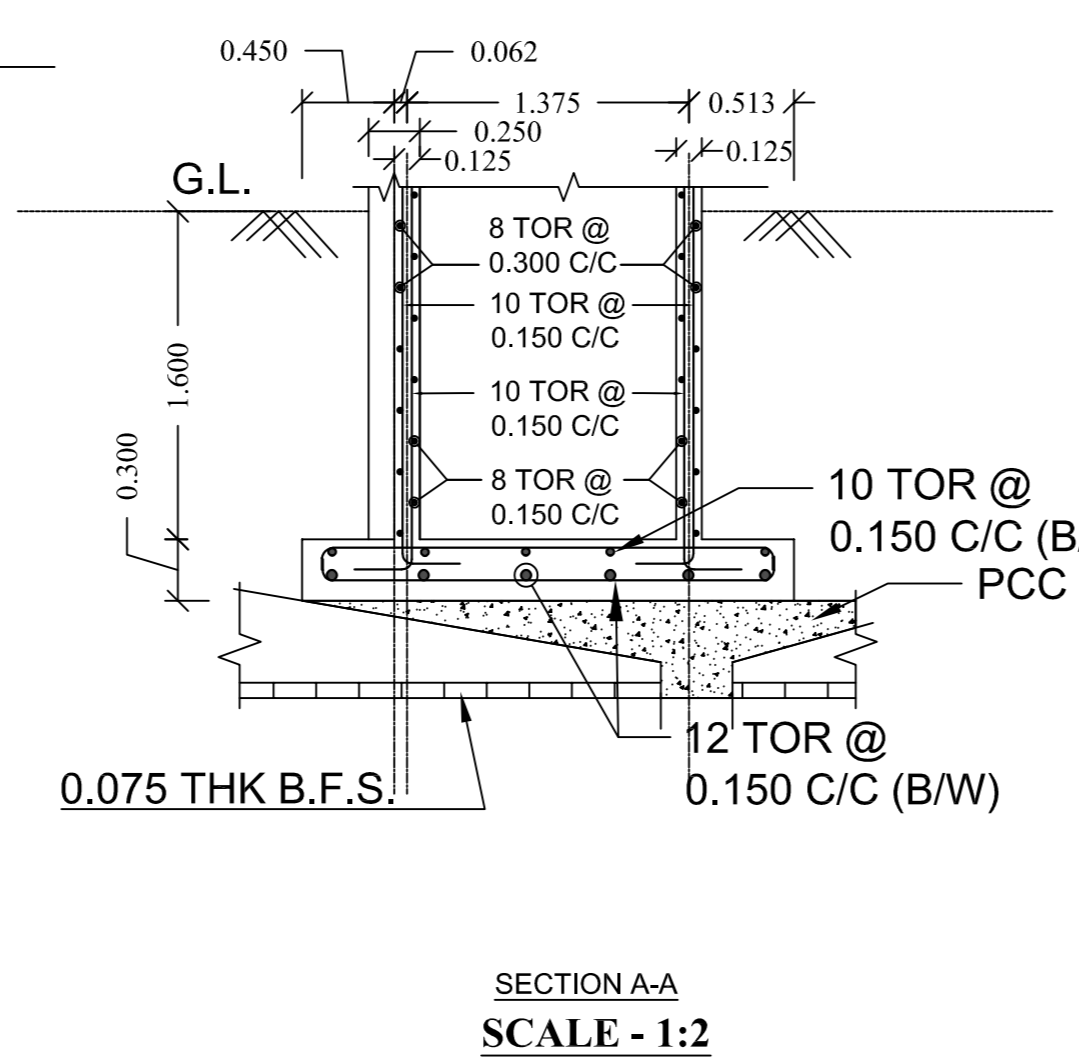
COLUMN & FOUNDATION LAYOUT PLAN SCALE - 1:1

SCHEDULE OF COLUMN :-

COLUMN MARKED	REINFORCEMENT UPTO 2ND ROOF			REINFORCEMENT FROM 2ND ROOF		
	SIZE (M)	LONGITUDINAL	TIES	SIZE (M)	LONGITUDINAL	TIES
C4, C5, C24.	0.250 x 0.400	8 - 16 TOR	2L- 8 TOR @ 0.200 C/C	0.250 x 0.400	4 - 16 TOR + 4 - 12 TOR	2L- 8 TOR @ 0.200 C/C
C1, C2, C3, C6, C10, C14, C18, C21, C23, C25, C26, C27.	0.250 x 0.400	10 - 16 TOR	2L- 8 TOR @ 0.200 C/C	0.250 x 0.400	4 - 16 TOR + 6 - 12 TOR	2L- 8 TOR @ 0.200 C/C
C7, C8, C9, C11, C12, C13, C15, C19, C22.	0.250 x 0.400	12 - 16 TOR	2L- 8 TOR @ 0.200 C/C	0.250 x 0.400	4 - 16 TOR + 8 - 12 TOR	2L- 8 TOR @ 0.200 C/C
C16, C17, C20.	0.250 x 0.400	4 - 20 TOR + 8 - 16 TOR	2L- 8 TOR @ 0.200 C/C	0.250 x 0.400	4 - 20 TOR + 8 - 12 TOR	2L- 8 TOR @ 0.200 C/C

SCHEDULE OF TIE BEAM :-

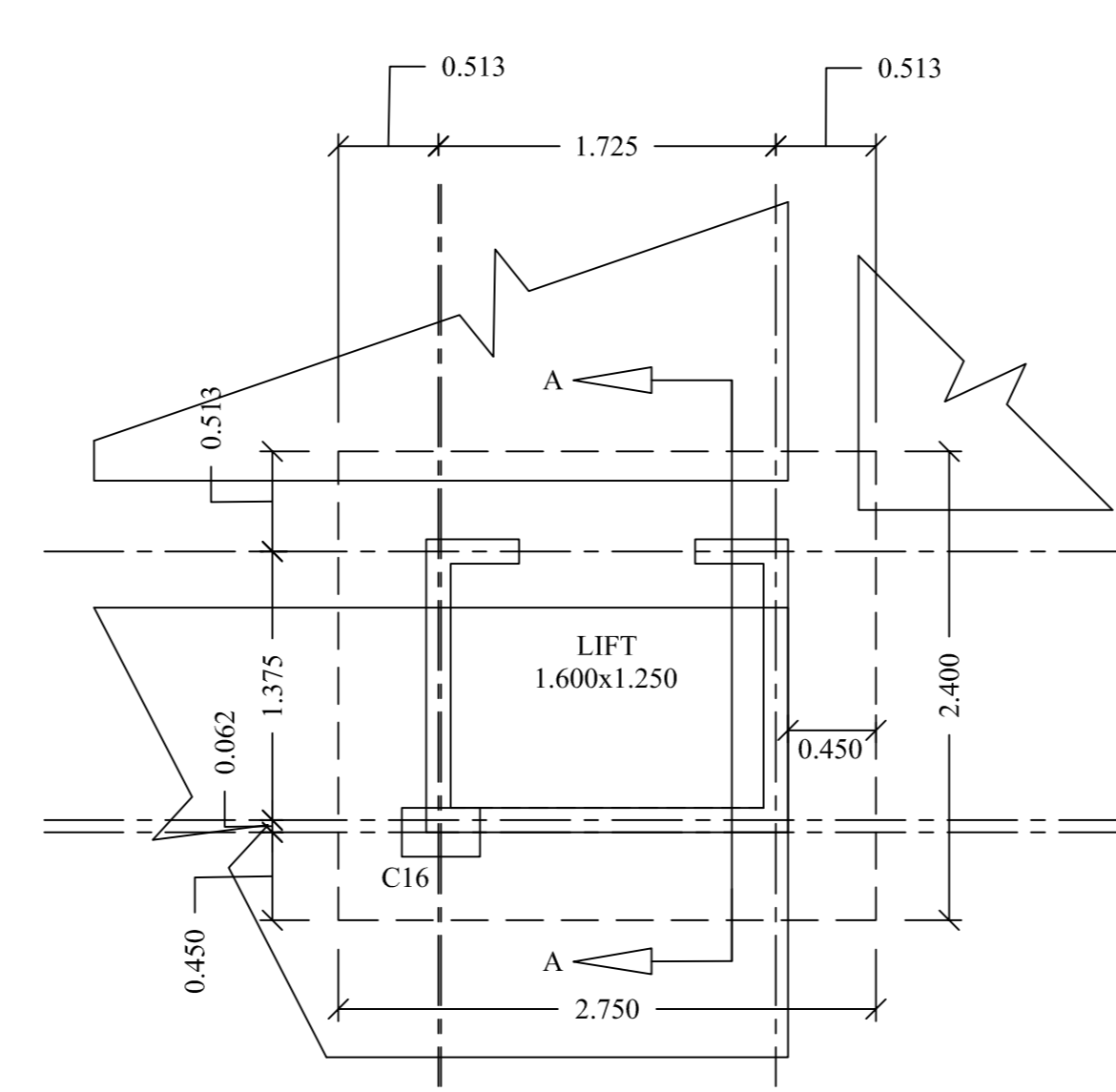
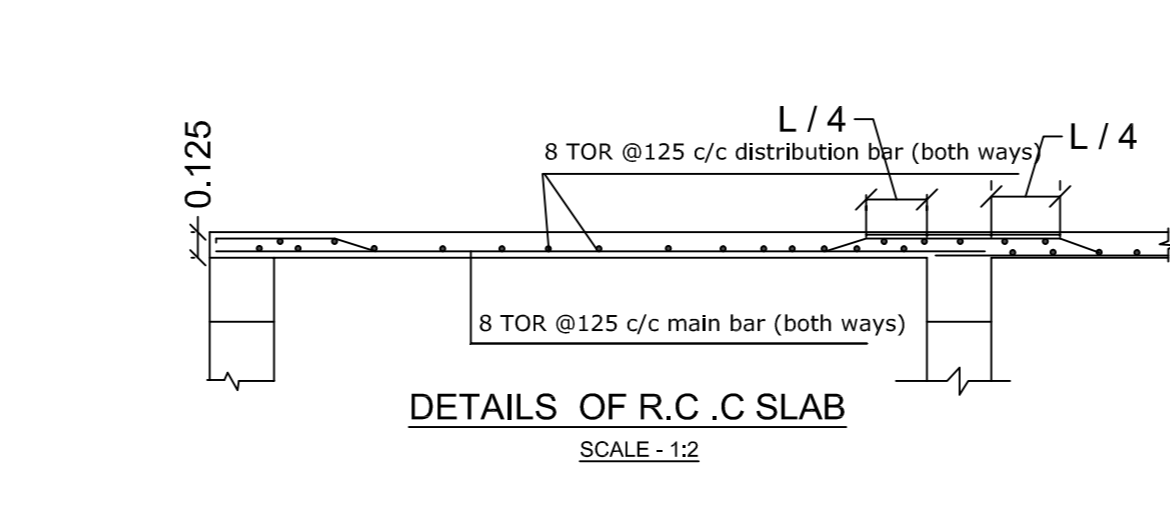
BEAM MARKED	SIZE OF BEAM	AT SUPPORT REINFORCEMENT			AT SPAN REINFORCEMENT		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
TB	0.250 x 0.400	3 - 16 TOR	3 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.150 C/C	3 - 16 TOR	3 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.200 C/C



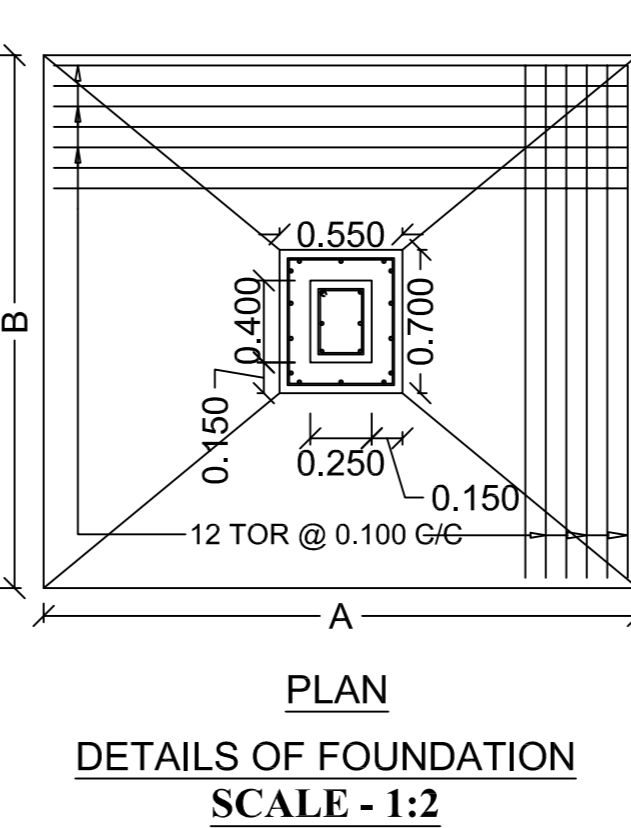
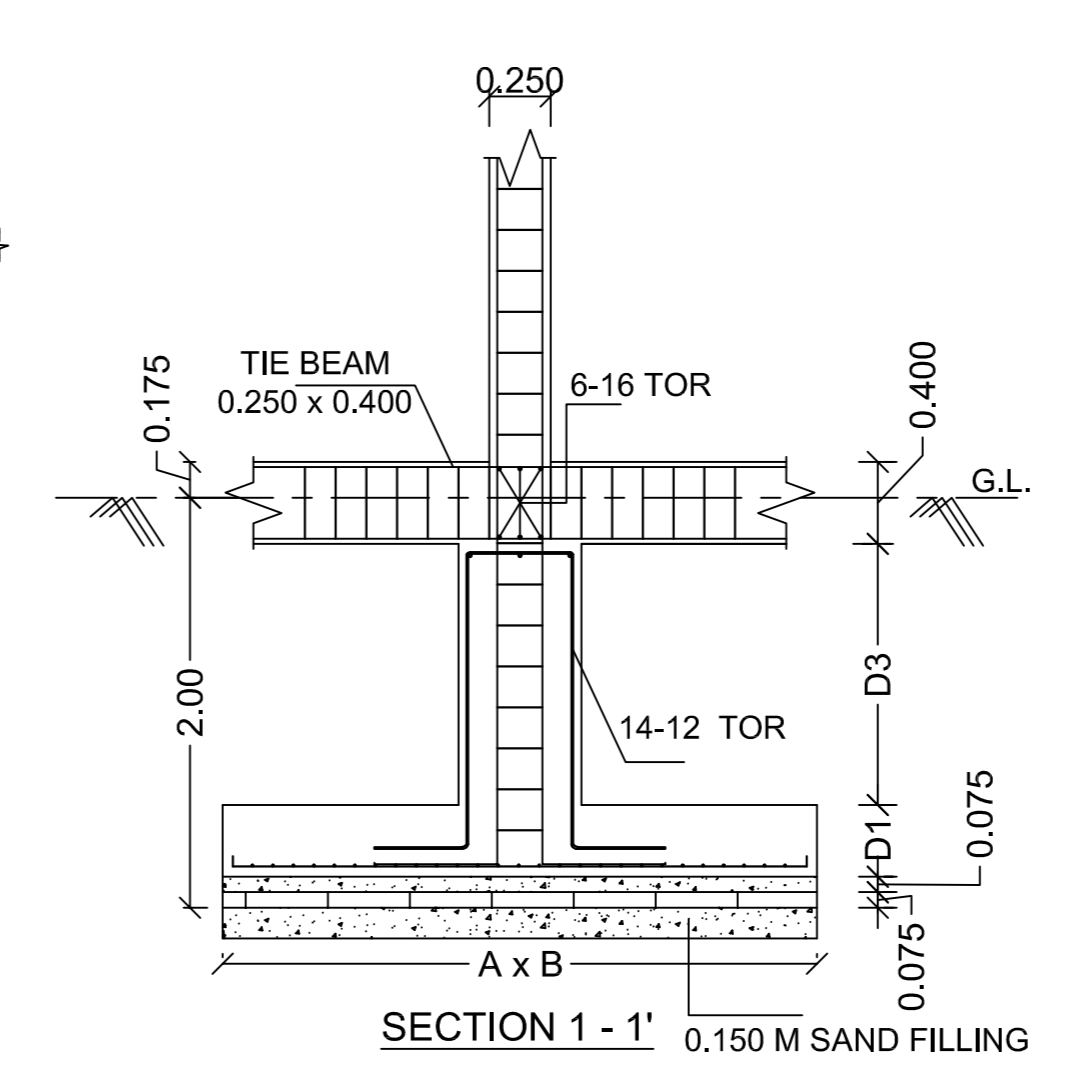
TIE BEAM LAYOUT PLAN SCALE - 1:1

SCHEDULE OF ROOF BEAM :-

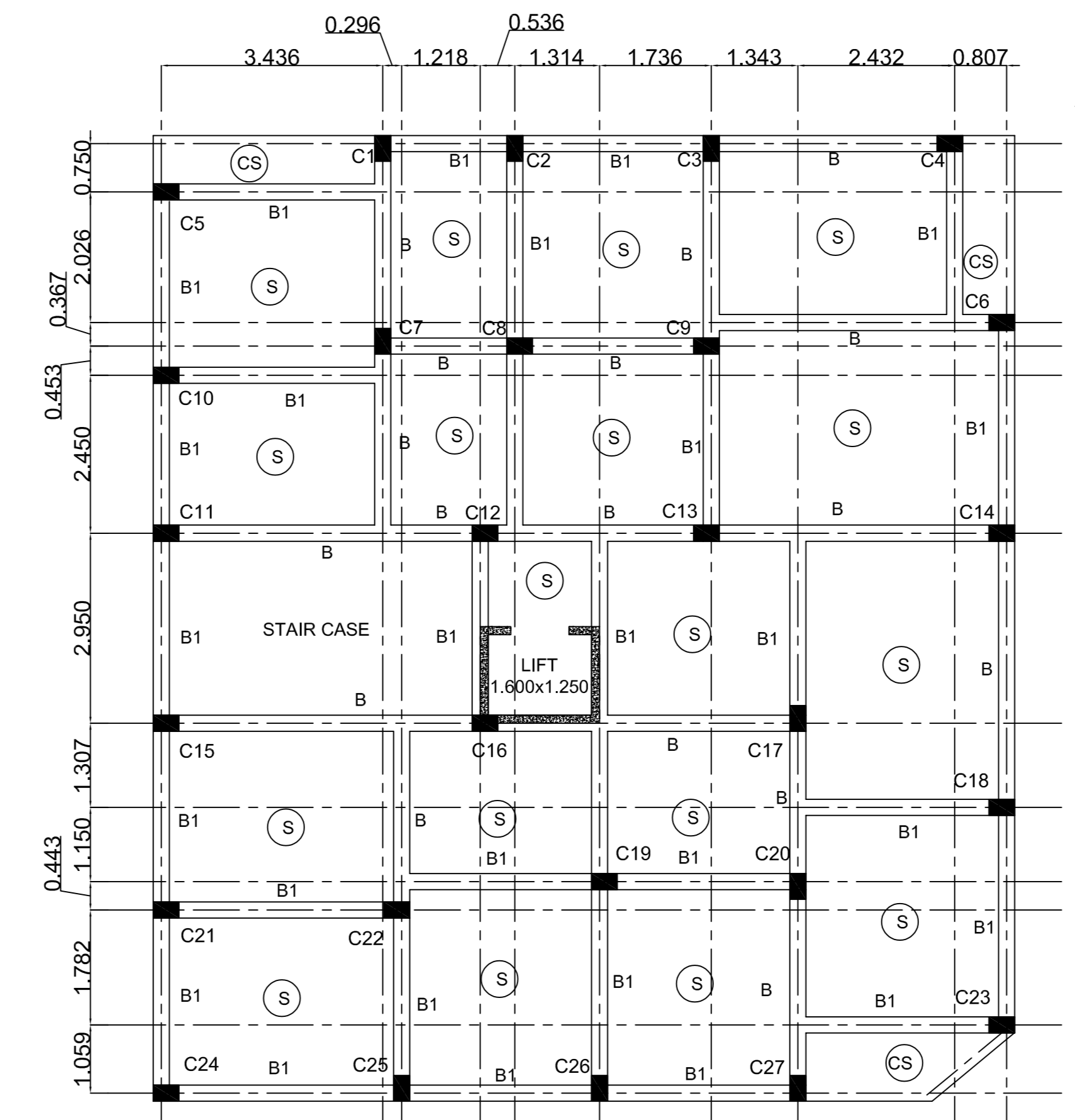
BEAM MARKED	SIZE OF BEAM	AT SUPPORT REINFORCEMENT			AT SPAN REINFORCEMENT		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
B	0.250 x 0.400	3 - 16 TOR	3 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.150 C/C	3 - 16 TOR	3 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.200 C/C
B1	0.250 x 0.400	2 - 16 TOR	2 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.150 C/C	2 - 16 TOR	2 - 16 TOR	2 ¹ / ₂ - 8 TOR @ 0.200 C/C



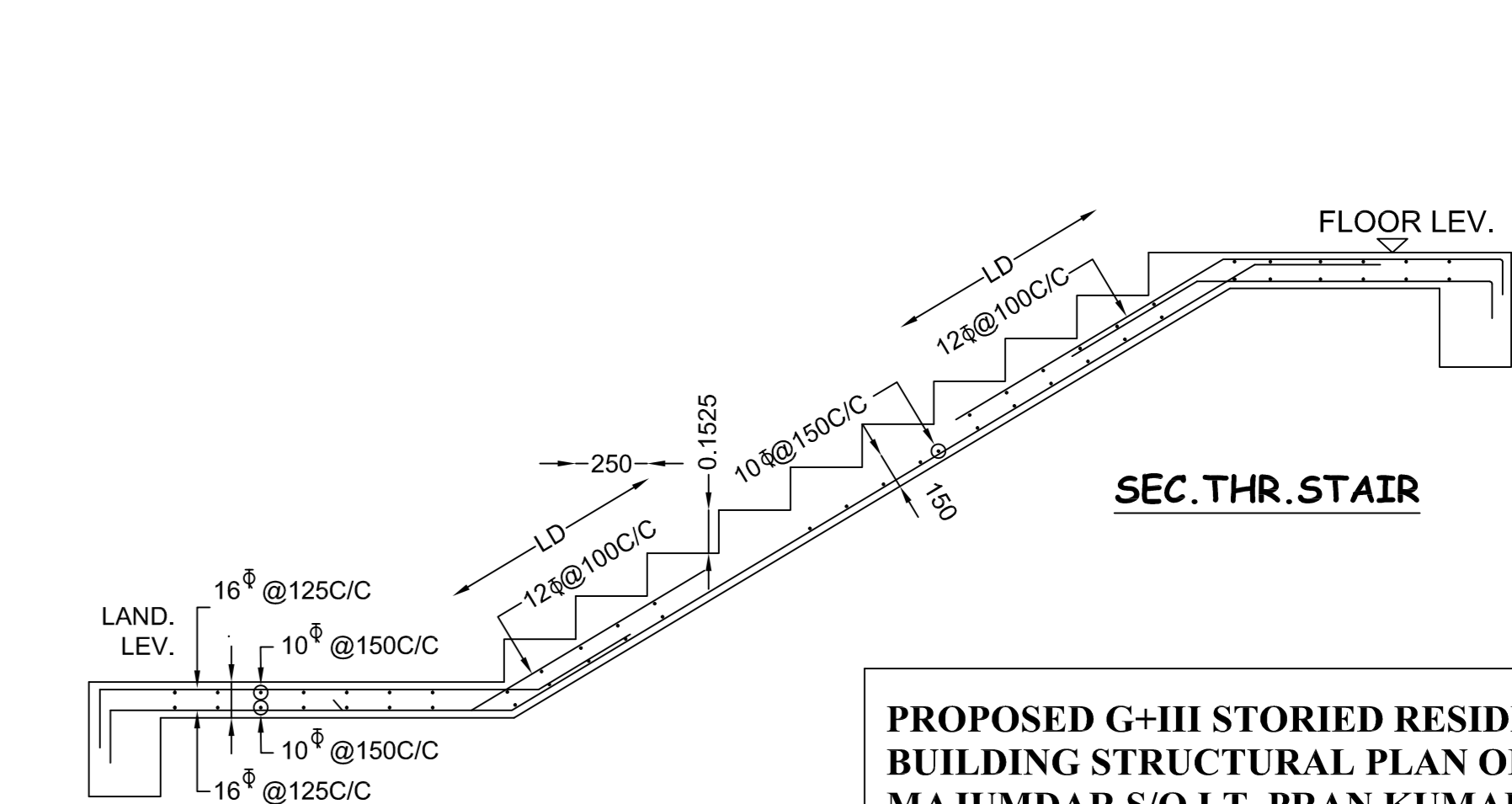
PLAN FIG - 3 SCALE - 1:2



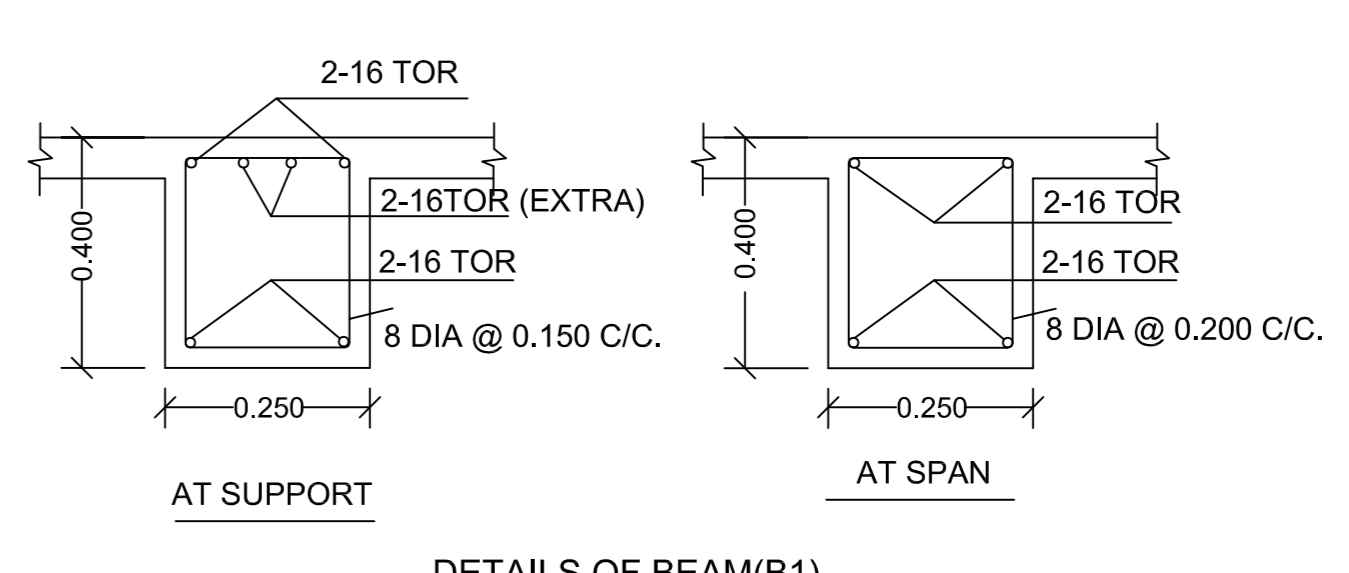
PLAN DETAILS OF FOUNDATION SCALE - 1:2



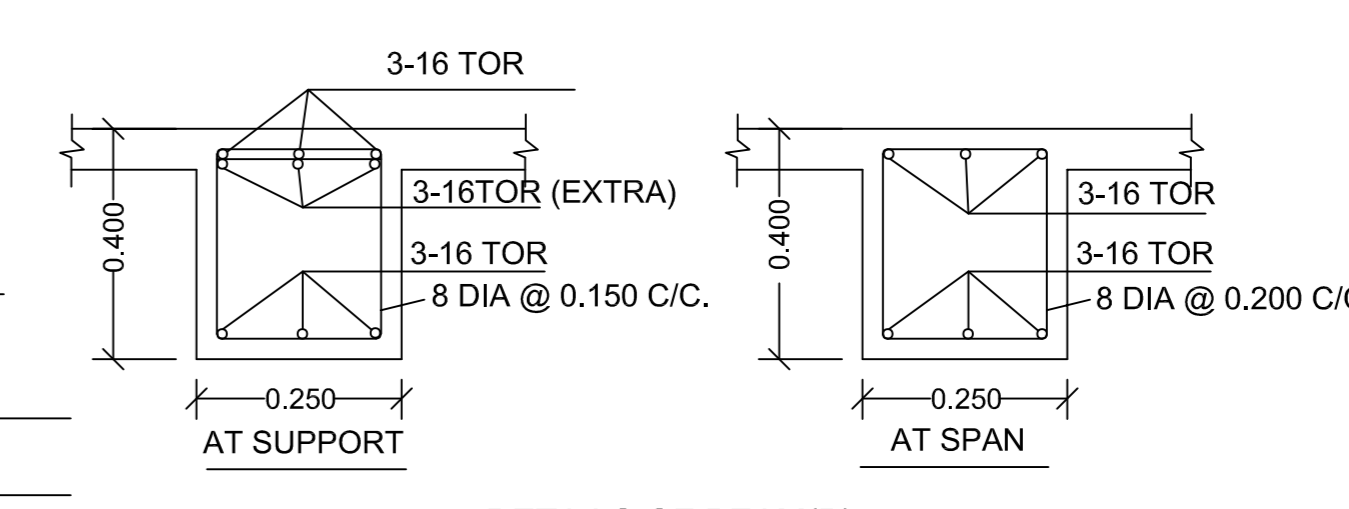
ROOF BEAM & SLAB LAYOUT PLAN SCALE - 1:1



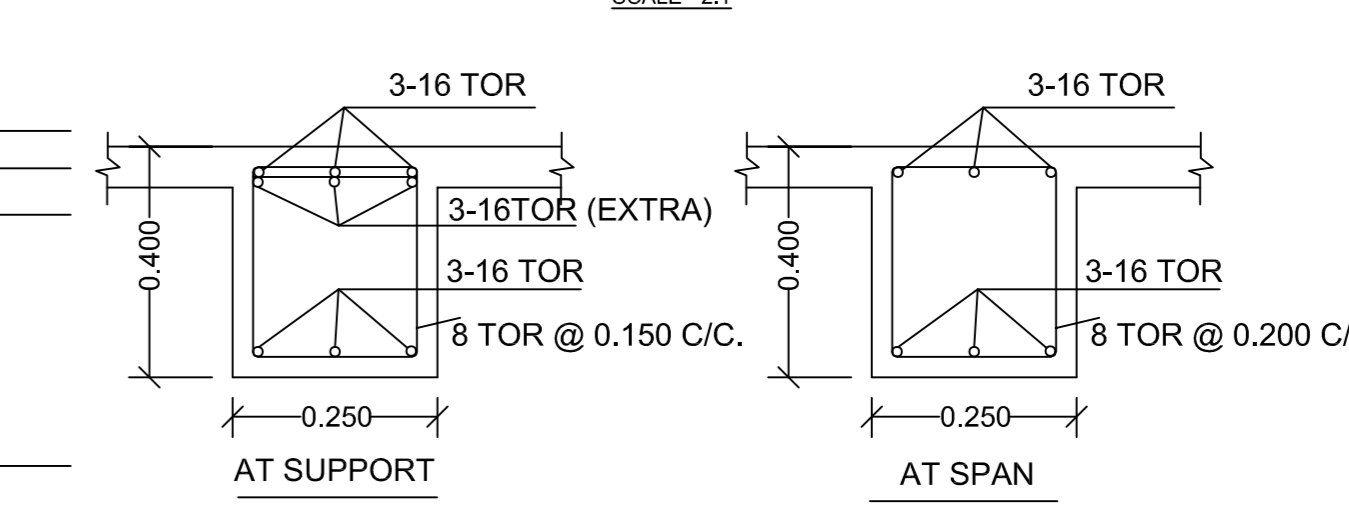
SEC. THR. STAIR



DETAILS OF BEAM (B1) SCALE - 2:1



DETAILS OF BEAM (B) SCALE - 2:1



DETAILS OF BEAM (TB) SCALE - 2:1

PROPOSED G+III STORIED RESIDENTIAL BUILDING STRUCTURAL PLAN OF GOUTAM MAJUMDAR S/O LT. PRAN KUMAR MAJUMDAR, AT MOUZA-BALIDANGA, J.L. NO.- 35, L.O.P. NO.- 200, C.S. PLOT NO.- 1046, 1056(P), R.S. PLOT NO.- 1046/2367, L.R. PLOT NO.- 2557, R.S. KHATIAN NO.- 1134, L.R. KHATIAN NO.- 7346, WARD NO.- 13, MAHALLA- CHOTONILPUR SOUTH PARA, HOLDING NO.- 96, UNDER BURDWAN MUNICIPALITY, P.S. BARDHAMAN, DIST. PURBA BARDHAMAN.

- Note :**
- All dimensions are in Meter. Unless otherwise mentioned.
 - Written dimensions are to be followed.
 - This drawing is to be read in conjunction with relevant architectural drawing.
 - Grade of concrete is M20 (mix not leaner than 1:1.5:3)
 - Grade of reinforcement is Tor Steel, Grade - Fe-500
 - Clear cover to main reinforcement
 - Footling = 50 mm
 - Column = 40 mm
 - Tie Beam = 25 mm
 - Beam = 25 mm
 - Slab = 20 mm
 - Lap length = 50 X Diameter of bar
 - All distribution bar is 8 tor @ 250 C/C
 - Used IS Codes :
 - IS:456-2000
 - IS:875 (Part II & III -1987)
 - IS:1893 - 2016
 - SP-16 & SP-34

CERTIFICATE OF ENGINEER :-
 CERTIFIED THAT THE FOUNDATION & SUPERSTRUCTURE OF THE BUILDING HAVE BEEN SO DESIGNED BY ME IS SAFE IN ALL RESPECT INVOLVING THE CONSIDERATION OF BEARING CAPACITY & SETTLEMENT OF SOIL ETC. AS PER I.S. STANDARD & N.B CODE. CERTIFIED THAT THE PLAN HAS BEEN DESIGNED & DRAWN UP STRICTLY ACCORDING TO THE BUILDING RULES FOR DUM DUM MUNICIPALITY

SRI ASHIM KUMAR SAHA
 NAME OF STRUCTURAL ENGINEER