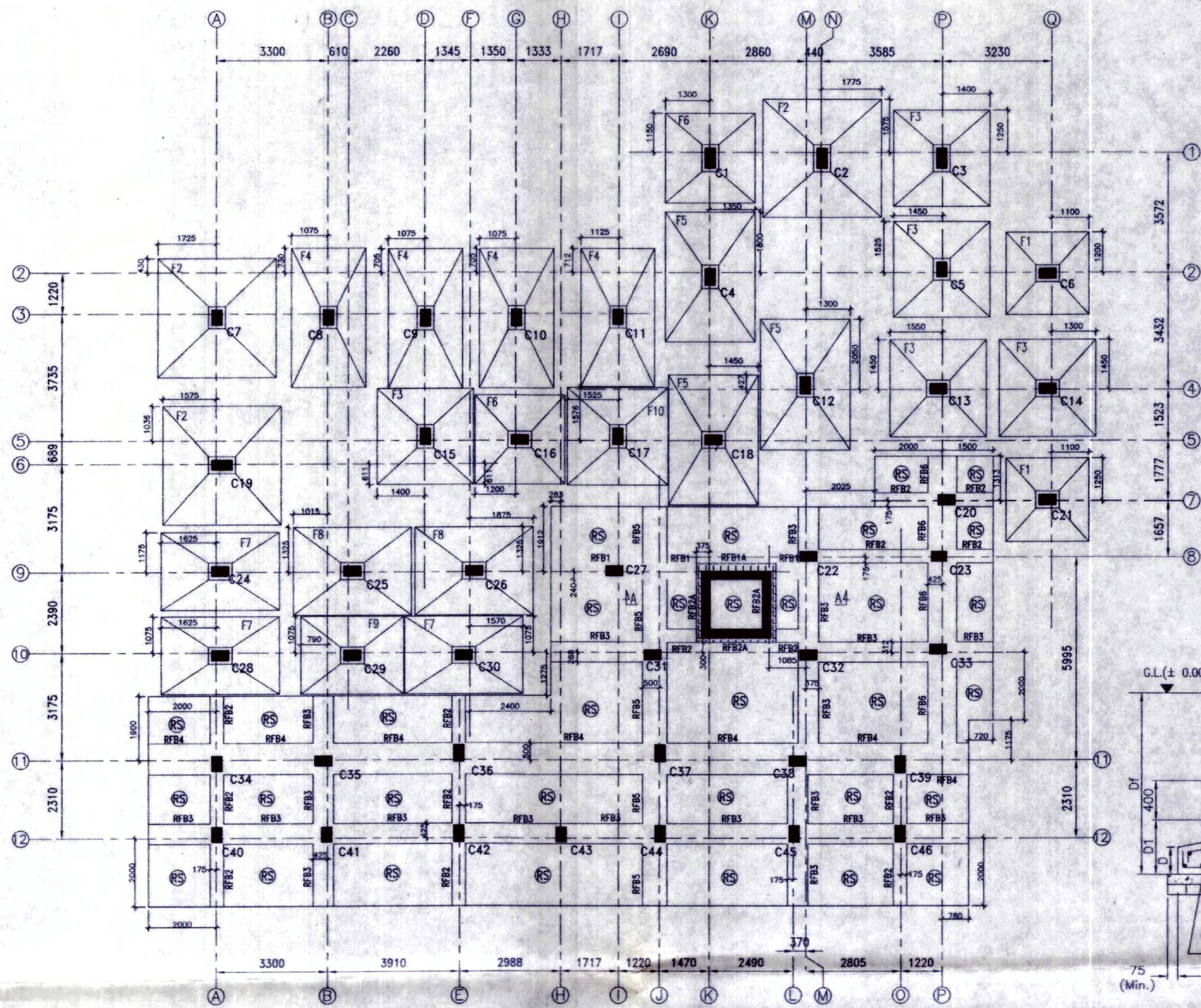




FOUNDATION LAYOUT PLAN
RS MARKED SLAB 550mm THK.
SCALE-1:100

IMPORTANT NOTE:
THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A
COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

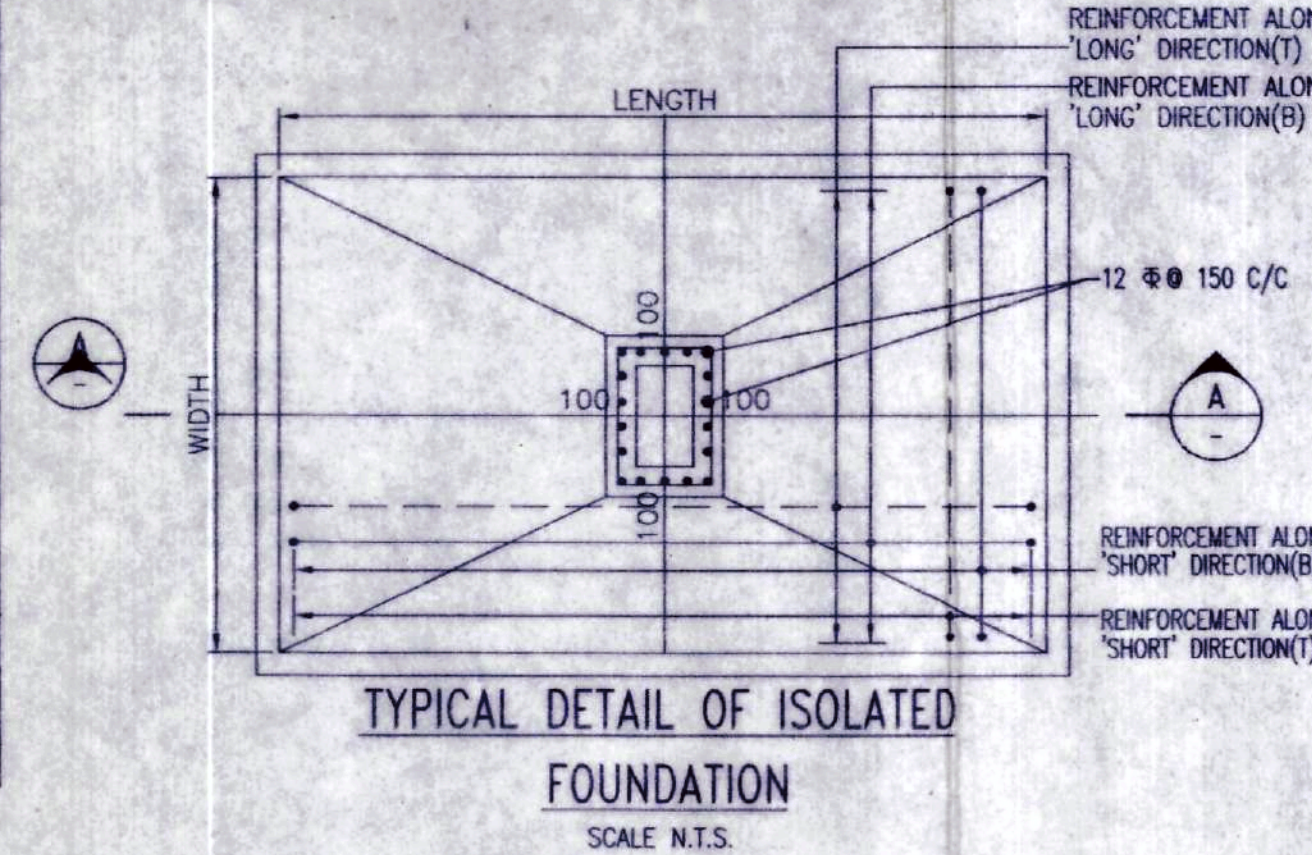
SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	550	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C

NET SAFE BEARING CAPACITIES
CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/W)
ISOLATED	2.45m x 2.45m	13.70
	3.5m x 3.5m	13.50
	2.85m x 2.85m	13.50
	4.1m x 2.20m	13.50
	3.85m x 2.65m	13.50
	2.65m x 2.65m	13.70
	3.50m x 2.30m	13.70
	3.50m x 2.60m	13.70
	3.05m x 2.30m	13.70
	3.00m x 2.90m	13.50
RAFT	AS SHOWN	9.00

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



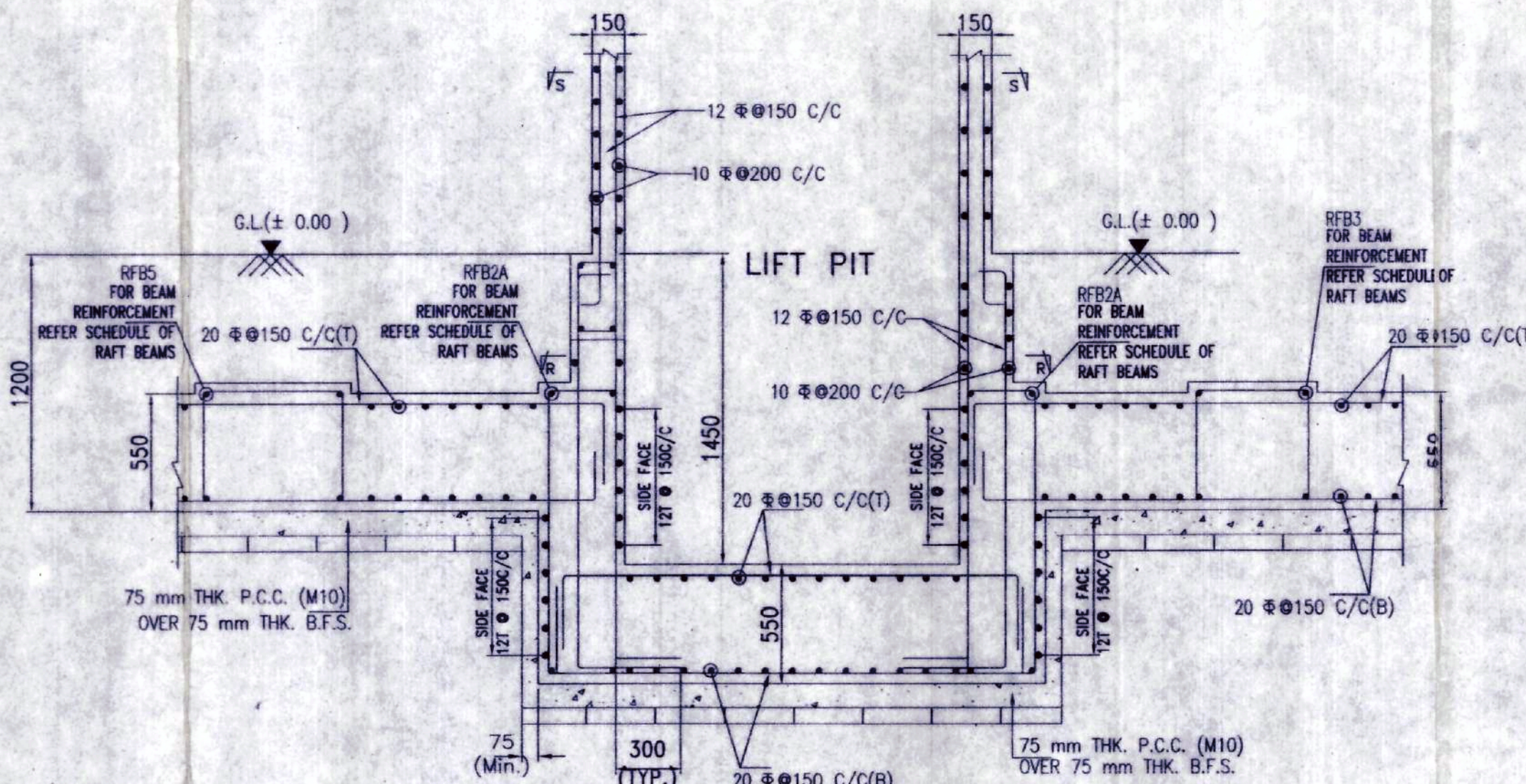
TYPICAL DETAIL OF ISOLATED
FOUNDATION
SCALE N.T.S.

SCHEDULE FOR ISOLATED FOUNDATION

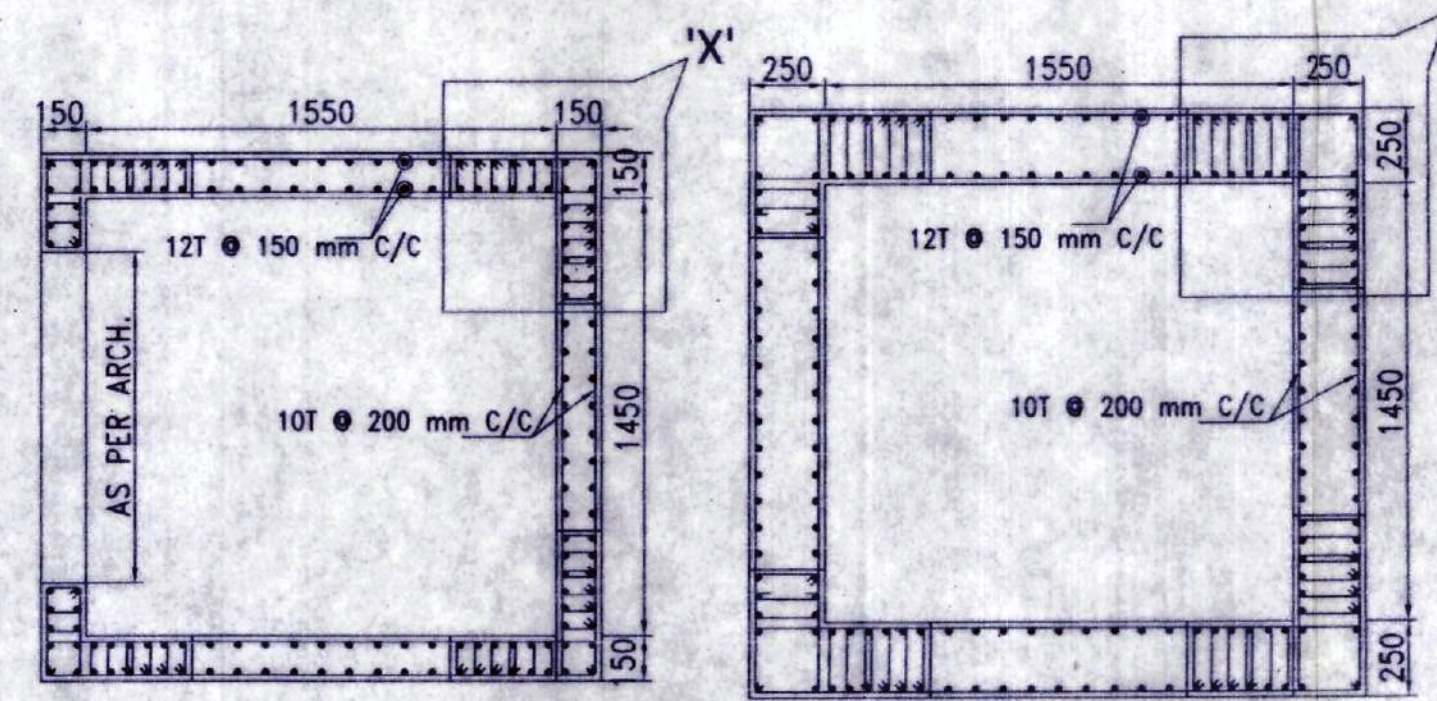
UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS			
			LENGTH (m)	WIDTH (m)	THICKNESS (mm)	DEPTH (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION
C6,C21	F1	02	2.45	2.45	500	400	16 ϕ 200 C/C	16 ϕ 200 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C2,C7,C19	F2	03	3.5	3.5	650	550	16 ϕ 150 C/C	16 ϕ 150 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C3,C5,C13,C14,C15	F3	05	2.85	2.85	550	400	16 ϕ 200 C/C	16 ϕ 200 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C8,C9,C10,C11	F4	04	4.1	2.2	650	550	16 ϕ 150 C/C	20 ϕ 150 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C4,C12,C18	F5	03	3.85	2.65	600	500	16 ϕ 150 C/C	16 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C1,C16	F6	02	2.85	2.65	500	350	16 ϕ 200 C/C	16 ϕ 200 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C24,C28,C30	F7	03	3.5	2.30	500	350	16 ϕ 200 C/C	16 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C25,C26	F8	02	3.5	2.60	500	350	16 ϕ 200 C/C	16 ϕ 100 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C29	F9	01	3.05	2.30	500	350	16 ϕ 200 C/C	16 ϕ 150 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C
C17	F10	01	3.0	2.90	500	350	16 ϕ 150 C/C	16 ϕ 150 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	SIDE FACE
		THROUGH	EXTRA AT SPAN	THROUGH	EXTRA AT SUPPORT		
RFB1	500 600	5-16 ϕ	2-16 ϕ	5-16 ϕ	4-16 ϕ	4L-8 ϕ 100 C/C	-
RFB1A	500 1400	5-20 ϕ +5-20 ϕ	2-16 ϕ	5-20 ϕ +5-20 ϕ	3-16 ϕ	4L-8 ϕ 100 C/C	12 ϕ 150 C/C
RFB2	400 600	4-16 ϕ	-	4-16 ϕ	-	4L-8 ϕ 200 C/C	-
RFB2A	400 1400	4-20 ϕ +4-20 ϕ	2-16 ϕ	4-20 ϕ +4-20 ϕ	4-16 ϕ	4L-8 ϕ 200 C/C	12 ϕ 150 C/C
RFB3	600 600	6-16 ϕ	2-16 ϕ	6-16 ϕ	4-16 ϕ	4L-8 ϕ 100 C/C	-
RFB4	925 600	7-16 ϕ	-	7-16 ϕ	4-16 ϕ	6L-8 ϕ 200 C/C	-
RFB5	725 600	6-16 ϕ	3-16 ϕ	6-16 ϕ	5-16 ϕ	4L-8 ϕ 200 C/C	-
RFB6	650 600	7-16 ϕ	2-16 ϕ	7-16 ϕ	4-16 ϕ	6L-8 ϕ 200 C/C	-

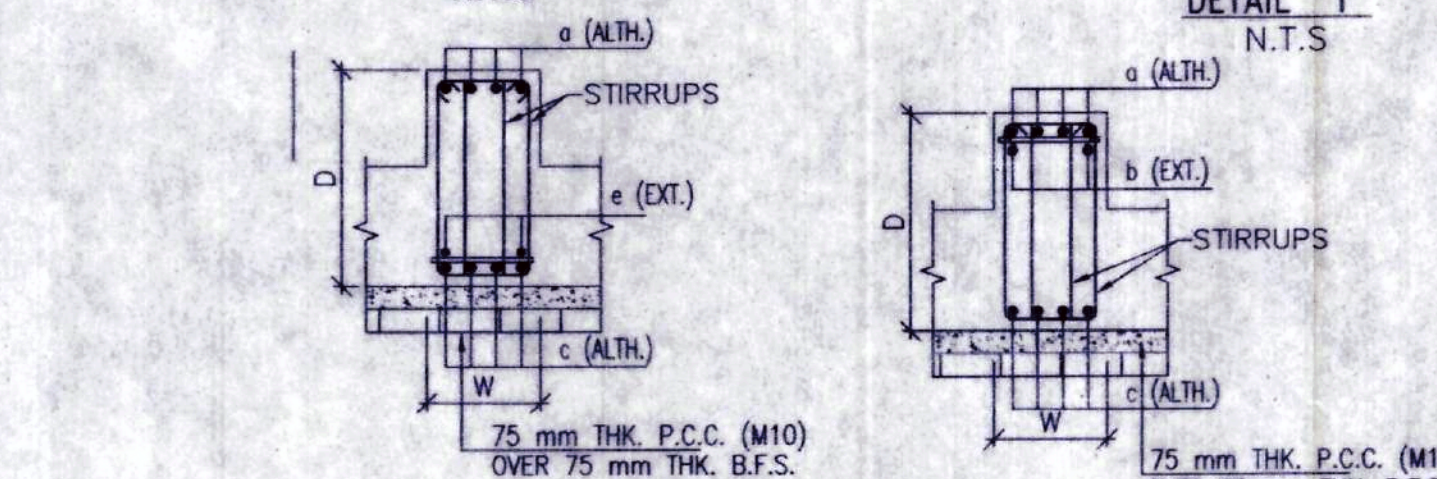
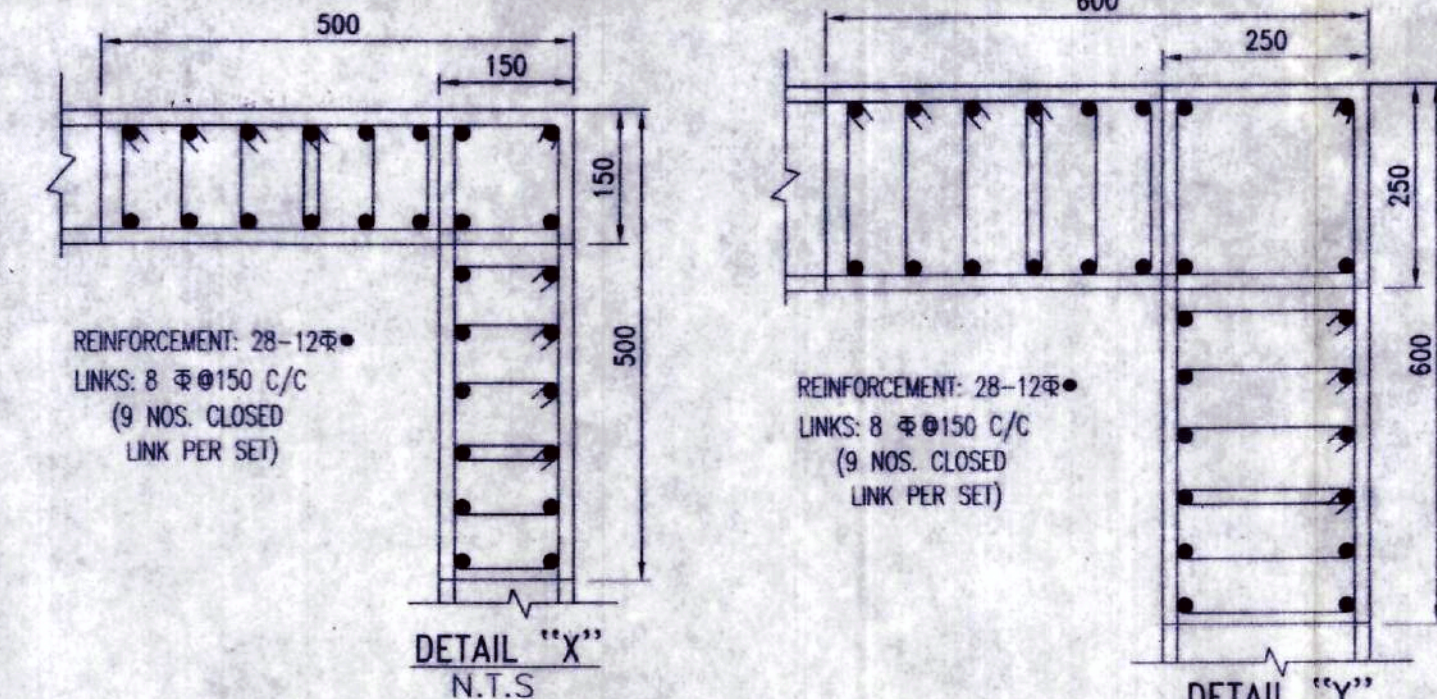


SECTION - A-A
SCALE- 1:25

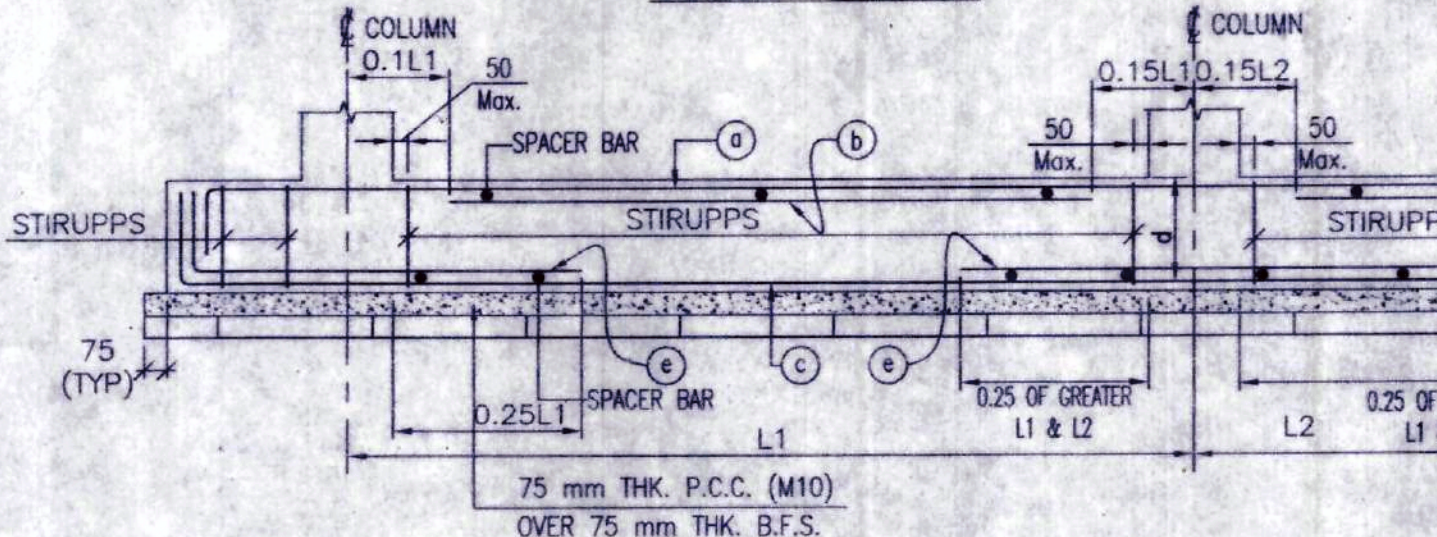


LIFT WALL PLAN AT FLOOR LEVEL
SECTION (S-S)
SCALE 1:25

LIFT WALL PLAN AT FOUNDATION LEVEL
SECTION (R-R)
SCALE 1:25



AT SUPPORT AT SPAN
TYPICAL CROSS SECTION OF FOUNDATION BEAM
SCALE - N.T.S.



TYPICAL ARRANGEMENT OF REINFORCEMENT IN
FOUNDATION BEAM
(AS PER SP 34-1987)

NOTES :

- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
- ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
- ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
- ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
- UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 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 ϕ 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
- 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 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 NET SAFE BEARING CAPACITIES FOR RAFT FOUNDATION AT DEPTH (-)1.2m. FROM G.L. HAS BEEN CONSIDERED 9.0T/SQM 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)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

SPECIAL NOTE:-
THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.

TITLE (BLOCK-3)

STRUCTURAL DRAWING OF PROPOSED SEVEN (G+6)
STORIED (BLOCK-3) APARTMENT BUILDING DEVELOPED
BY 'M R DEVELOPERS' OVER THE LAND OF 'JOHIRUL
ISLAM' S/O LUTFAL HAQUE , L.R. PLOT NO. - 559, R.S.
PLOT NO.-550, L.R. KHATIAN NO.- 2489, MOUZA
-ARRAH, J.L. NO- 91, P.S.- KANKSA, DIST- PASCHIM
BARDHAMAN.

SIGNATURE OF LAND OWNER/DEVELOPER

SIGNATURE OF GEOTECHNICAL ENGINEER

ASIM SARKAR
BCE, ME (SUL), M.TECH (STRUCTURE), MISS MIE
EMPANELLED GEOTECHNICAL ENGINEER
K.M.C. No. CLASS-1/2

SIGNATURE OF ARCHITECT

I DO HEREBY DECLARE WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN AS PER
PROVISIONS OF WEST BENGAL MUNICIPAL BUILDING RULES AS AMENDED TO DATE.

AR. VIJAYA SINGH MAZUMDER Ar. VIJAYA SINGH MAZUMDER
COA REGISTERED COA Registered
CA/2021/134276 CA/2021/134276
9332802166 / 9476426106

SIGNATURE OF PANCHAYAT PRADHAN

APPROVED 3259/HSEBSP 05/12/2022
Vide Memo No.
OF PASCHIM BARDHAMAN ZILA PARISHAD
Additional Executive Officer

Pradhan
Malandighi Gram Panchayat

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN AND DRAWING 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.

S. Choudhury 24/9/21
SUSMITA CHOUDEHURY
B.TECH (WBUT), M.E. (IIT)
CIVIL ENGINEER, NKDA
LICENCE NO. CVER/NKDA/10100
M-8697517321, 700320473
ESE-II June/2019

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED

DR. DIPANKAR CHAKRABARTY
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER (REGISTERED)
CIVIL ENGINEER, NKDA
LICENCE NO. CVER/NKDA/10100
M-8697517321, 700320473
ESE-II June/2019

DRAWING TITLE

FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS

SCALE:-1:100 OR AS SHOWN

DATE:-24.09.2021

SHEET NO. -1 OF 5