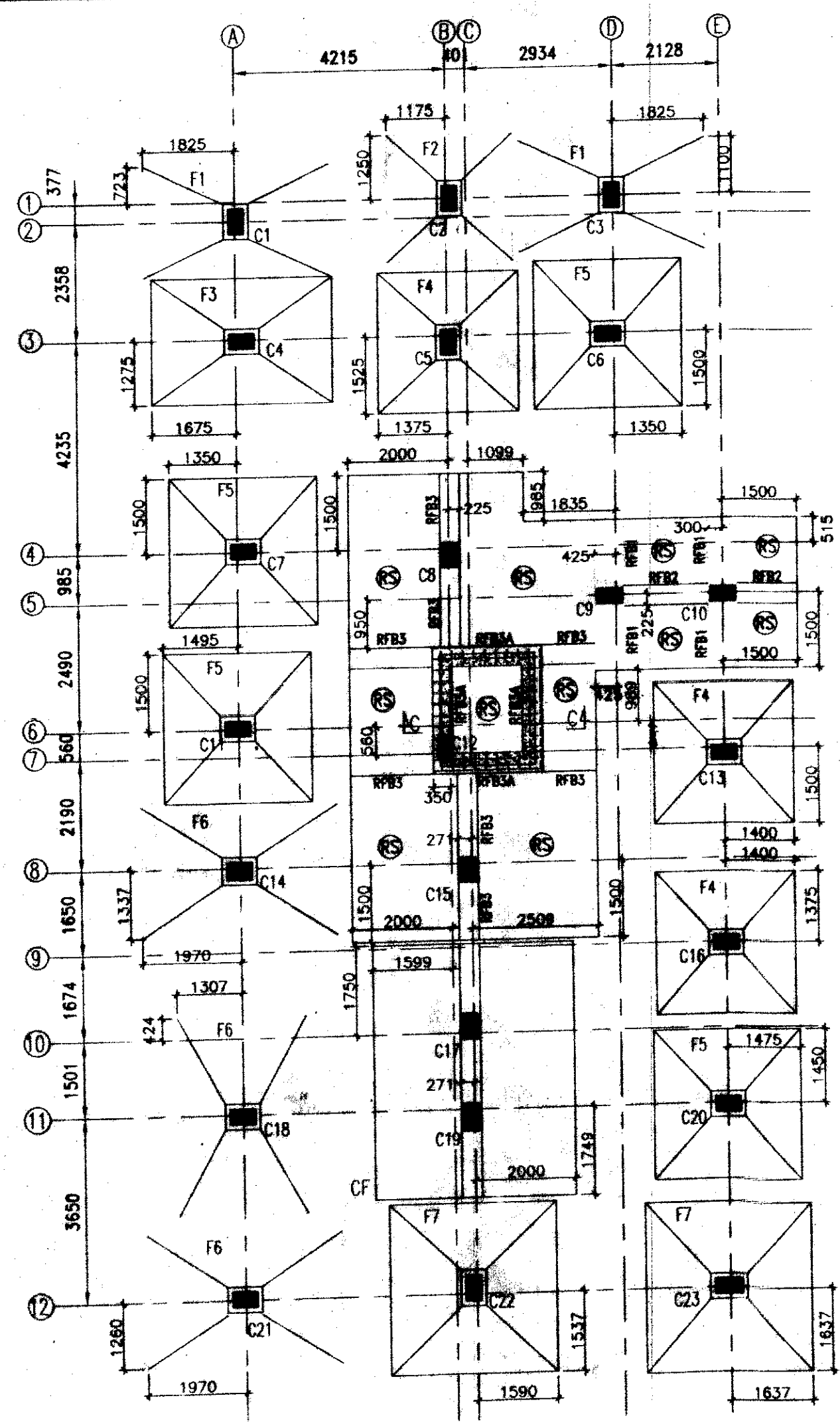
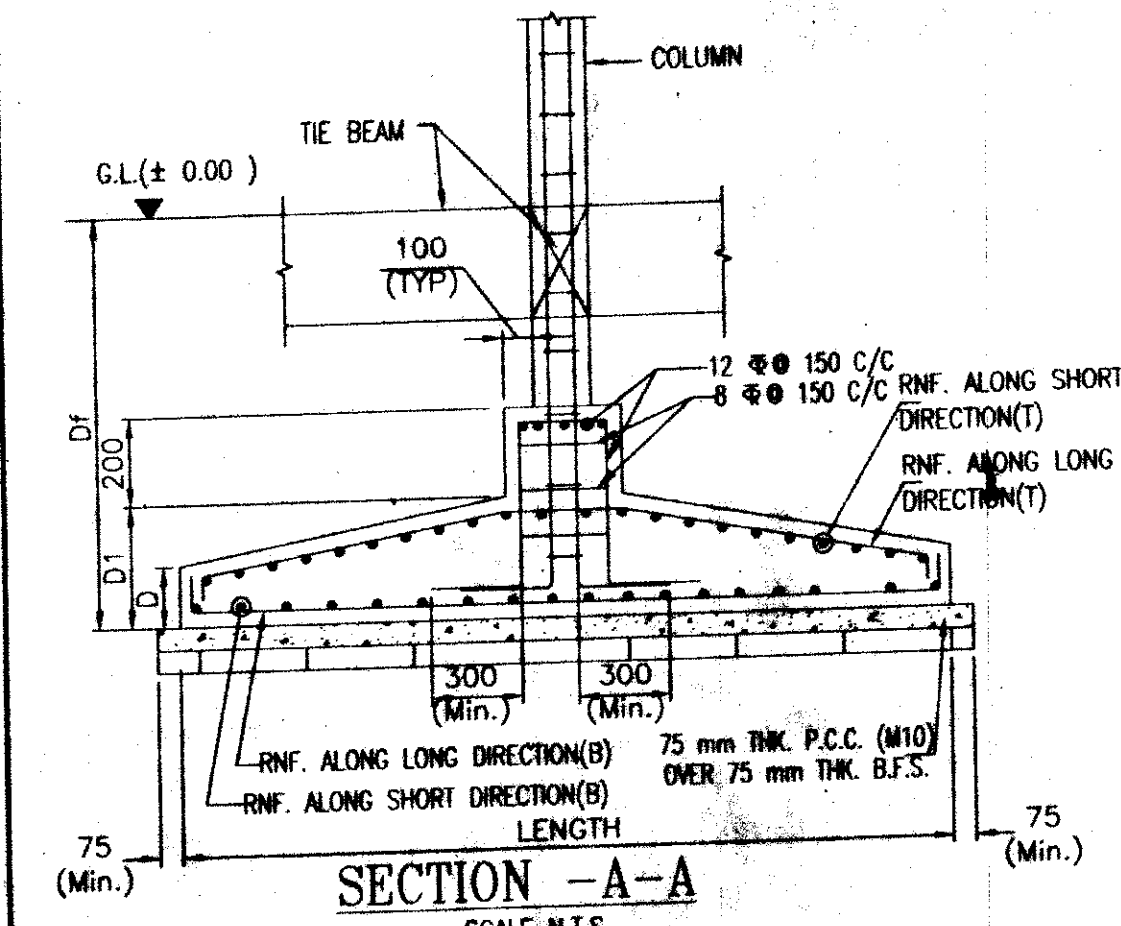
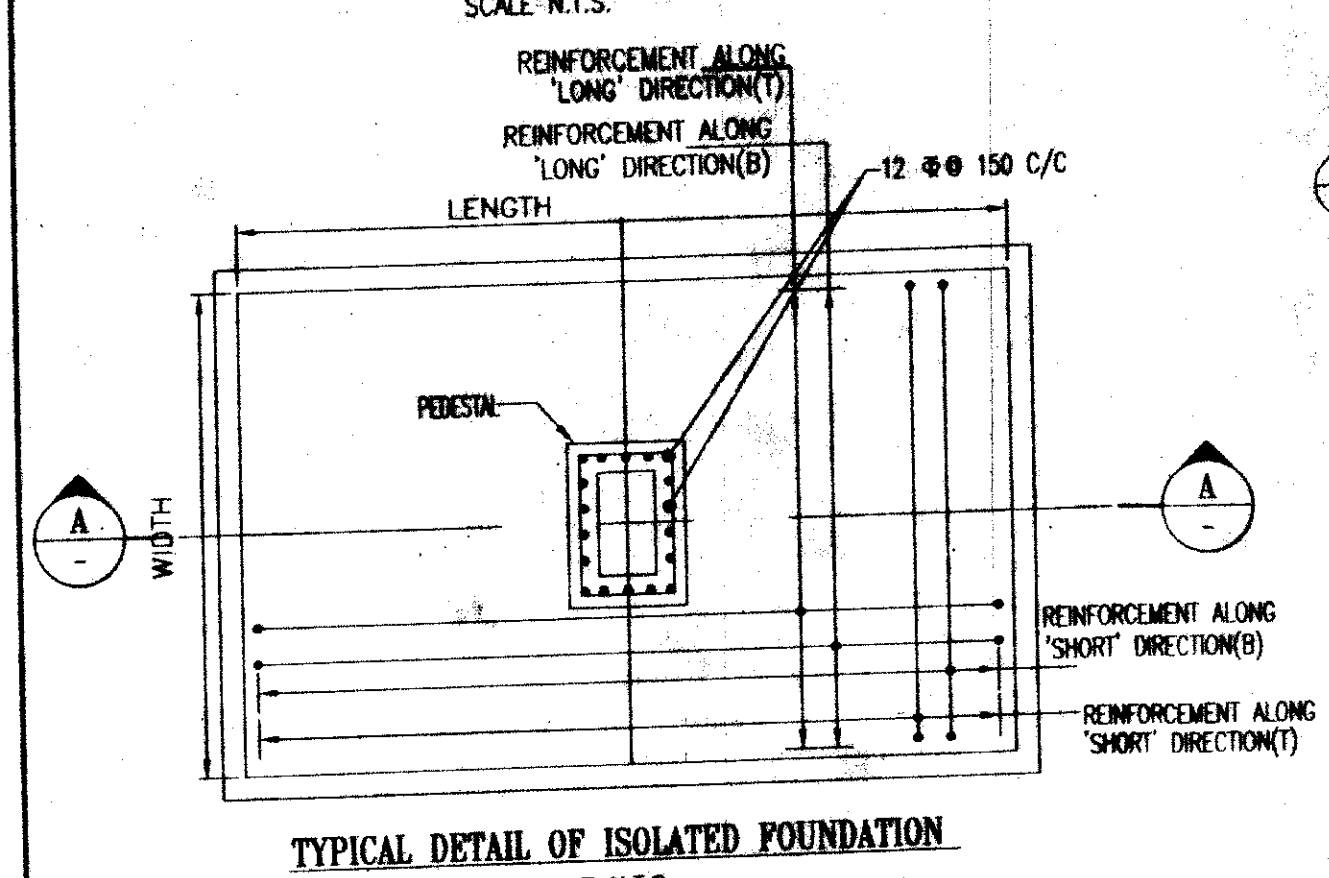




FOUNDATION LAYOUT PLAN
AS MARKED SLAB 400mm THK.
SCALE-1:100



SECTION -A-A
SCALE N.T.S.



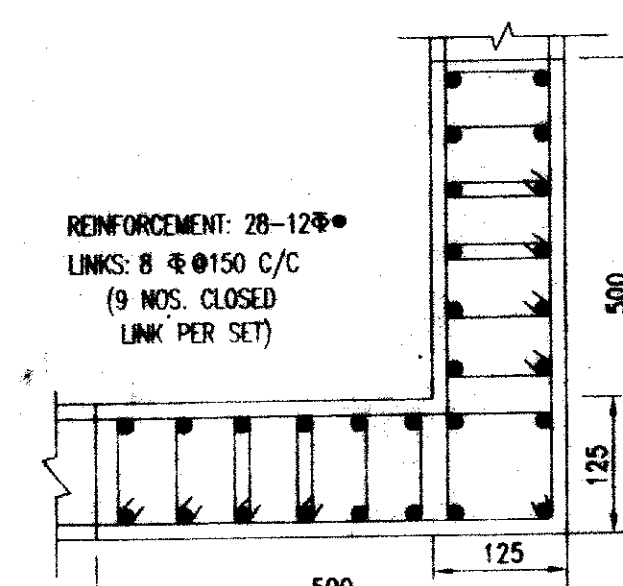
TYPICAL DETAIL OF ISOLATED FOUNDATION
SCALE N.T.S.

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS			
			LENGTH (m)	WIDTH (m)	THICKNESS (mm)	DEPTH (mm)	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	ALONG SHORT DIRECTION	ALONG LONG DIRECTION
C1,C3	F1	02	3.70	2.20	625	1200	16 #250 C/C	16 #100 C/C	8 #250 C/C	8 #250 C/C
C2	F2	01	2.50	2.50	450	1200	16 #150 C/C	16 #150 C/C	8 #250 C/C	8 #250 C/C
C4	F3	01	3.60	2.50	600	1200	16 #250 C/C	16 #100 C/C	8 #250 C/C	8 #250 C/C
C5,C13,C16	F4	03	2.80	2.80	500	1200	16 #150 C/C	16 #150 C/C	8 #250 C/C	8 #250 C/C
C6,C7,C11,C20	F5	04	2.95	2.95	550	1200	16 #150 C/C	16 #150 C/C	8 #250 C/C	8 #250 C/C
C14,C18,C21	F6	03	3.90	2.575	625	1200	16 #150 C/C	16 #150 C/C	8 #250 C/C	8 #250 C/C
C22,C23	F7	02	3.325	3.325	575	1200	16 #100 C/C	16 #100 C/C	8 #250 C/C	8 #250 C/C

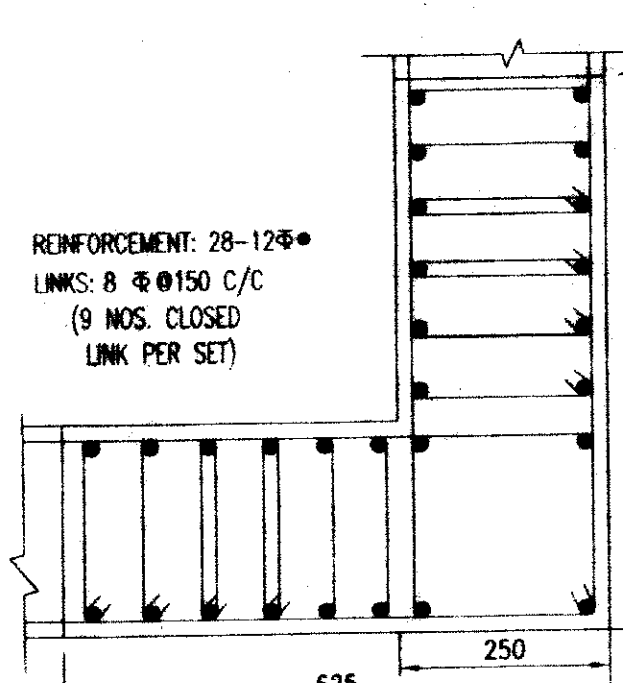
SCHEDULE FOR COMBINED FOUNDATION																	
FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL				
		TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS SPACING (mm)
						ALONG SHORT DIRECTION (a)	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (c)	ALONG LONG DIRECTION (d)				ALTHOUGH	EXTRA	ALTHOUGH	EXTRA	
CF	01	5000	4000	400	1200	20 Φ 100 C/C	10 Φ 200 C/C	8 Φ 250 C/C	8 Φ 250 C/C	5000	400	450	5-16 Φ	3-16 Φ	4-16 Φ	-	4L-8T Φ 200 C/C

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	3.70m. x 2.20m.	13.7
	2.50m. x 2.50m.	13.2
	3.60m. x 2.50m.	13.2
	2.80m. x 2.80m.	13.0
	2.95m. x 2.95m.	13.0
	3.90m. x 2.575m.	13.2
RAFT	AS SHOWN IN DRAWING	10.5
COMBINED	AS SHOWN IN DRAWING	11.0

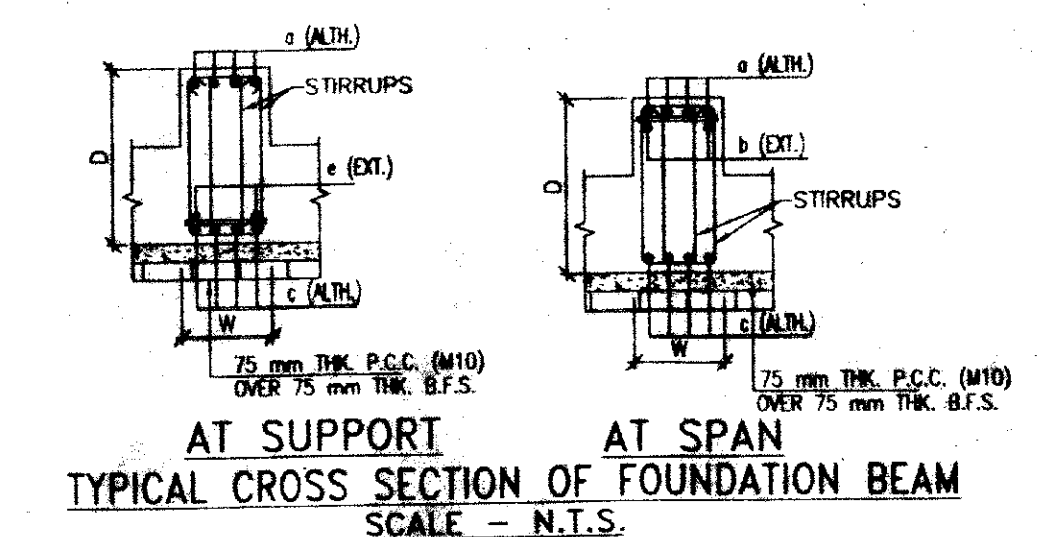
SPECIAL NOTE:-
THIS DESIGN WILL NOT BE VALID IF THE BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.



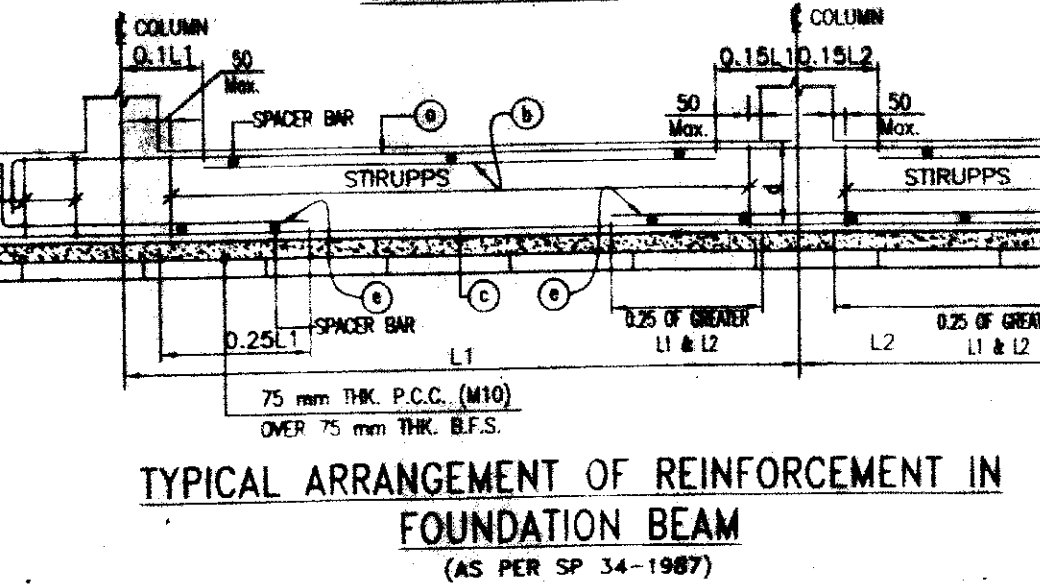
DETAIL 'X'
N.T.S.



DETAIL 'Y'
N.T.S.



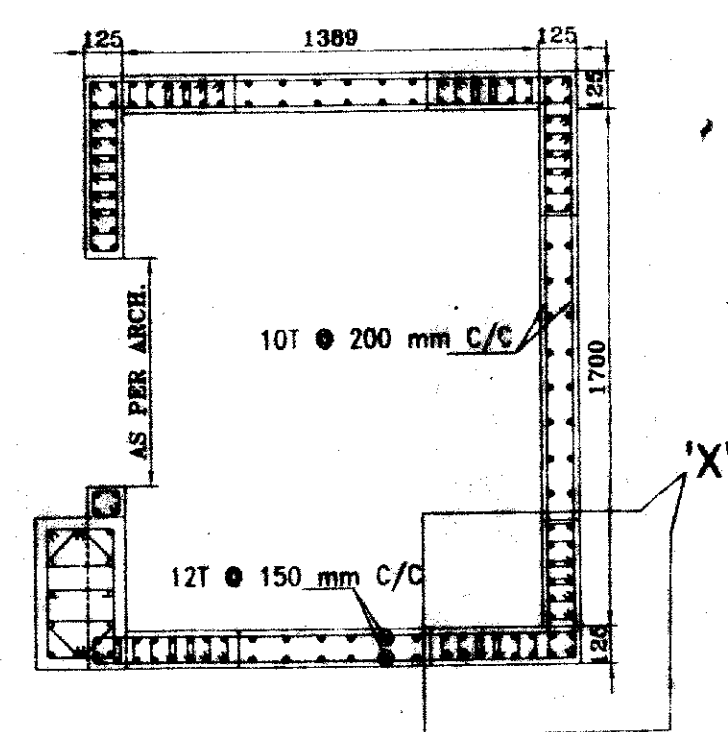
TYPICAL CROSS SECTION OF FOUNDATION BEAM
SCALE - N.T.S.



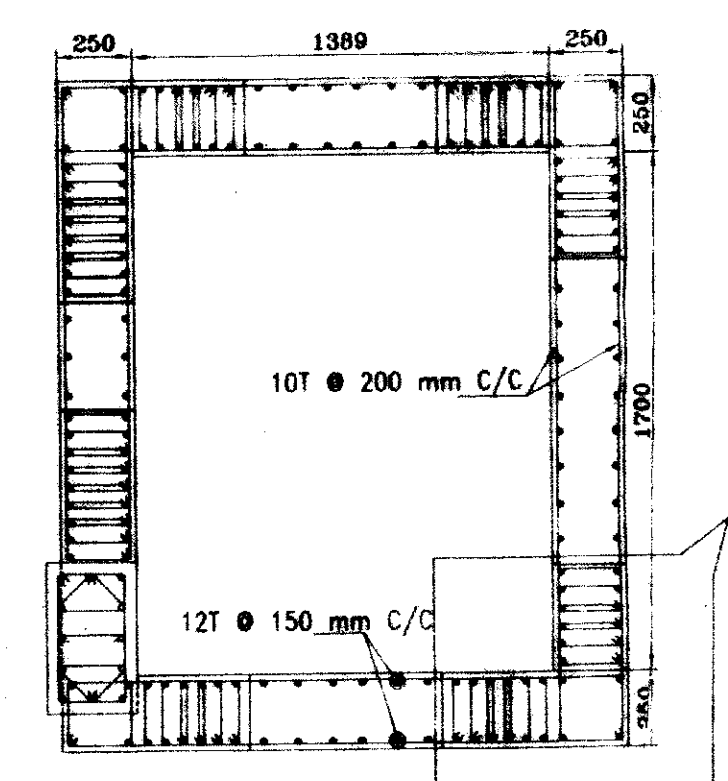
TYPICAL ARRANGEMENT OF REINFORCEMENT IN FOUNDATION BEAM
(AS PER SP 34-1987)

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	450	16 #125 C/C	16 #125 C/C	16 #125 C/C	16 #125 C/C

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	SIDE FACE
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SPAN	ALTHROUGH	EXTRA AT SUPPORT		
RB1	600	500	4-16 #	-	4-16 #	2-16 #	4L-8 #200 C/C	-
RB2	400	500	3-16 #	-	3-16 #	-	4L-8 #200 C/C	-
RB3	400	500	4-16 #	-	4-16 #	3-16 #	4L-12 #125 C/C	-
RB3A	400	1200	4-16 #	2-16 #	4-16 #	4-16 #	4L-12 #125 C/C	12 #150 C/C



SECTION (S-S)
SCALE 1:25



SECTION (R-R)
SCALE 1:25

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

SPECIAL NOTES:-
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONNECTION IS DONE USING AAC BLOCKS FOLLOWING PROPER BRICKWORK OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

- 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 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 50KD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
 - THE NET SAFE BEARING CAPACITIES OF ISOLATED, COMBINED & RAFT 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)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE
STRUCTURAL DRAWING OF PROPOSED G+5
STORED RESIDENTIAL APARTMENT BUILDING
OF SRI. DEBI PRASAD BHATTACHARJEE OVER
R.S. PLOT NO.- 52(P) , L.R.- 75(P), L.R.
KHATIAN NO.- 1116, R.S.J.L. NO.-96,
L.R.J.L. NO.-111, MOUZA - TETIKHOLA, P.S.
-N.T.P.S. DIST- PASCHIM BURDWAN.

SIGNATURE OF OWNER

SIGNATURE OF PANCHAYET PRADHAN

SIGNATURE OF CONSULTANT/ARCHITECT

ANJULI CHATTERJEE B ARCH
Registration No.: CA/2021/134352
Ph: 9414545399, 7588934111
41/3, Subarna Commercial Complex,
City Centre, Durgapur - 713216

JUI CHATTERJEE
(COA REG. NO - CA/2021/134352)

SIGNATURE OF GEOTECHNICAL ENGINEER

ASIM SARKAR
B.TECH (CIVIL) & M.TECH (CIVIL)
EMPLOYED IN TECHNICAL ENGINEER
RMD PRO-TECH CLASS-02

CERTIFICATE OF STRUCTURAL ENGINEER

S. Chandray 16/1/22
SUSMITA CHOUDHURY
B.TECH (CIVIL) WBUT
ME (CONSTRUCTION) JU
ESE-1/RJPSOM/130
ESE-11/RMO/664
STER/NKDA/21/00010
CVR/NKDA/10/00175
(M)-8667517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED BY VETTER
DR. DIPANKAR CHATTERJEE
STRUCTURAL ENGINEER
REGISTERED IN THE DEPARTMENT OF
CIVIL ENGINEERING, UNIVERSITY OF
KOLKATA, INDIA
MEMBER IN CHARGE, GOLD MEDALIST
IN THE FIELD OF CIVIL ENGINEERING
FOR THE YEAR 2008
100, MIDAN SARAI, 2ND FLOOR, 3RD FLOOR
KOLKATA-700016
EMAIL: dr.dipankar@gmail.com

DRAWING TITLE
FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS.
SCALE-1:100 OR AS SHOWN
DATE-16.01.2022
SHEET NO. - 1 OF 4