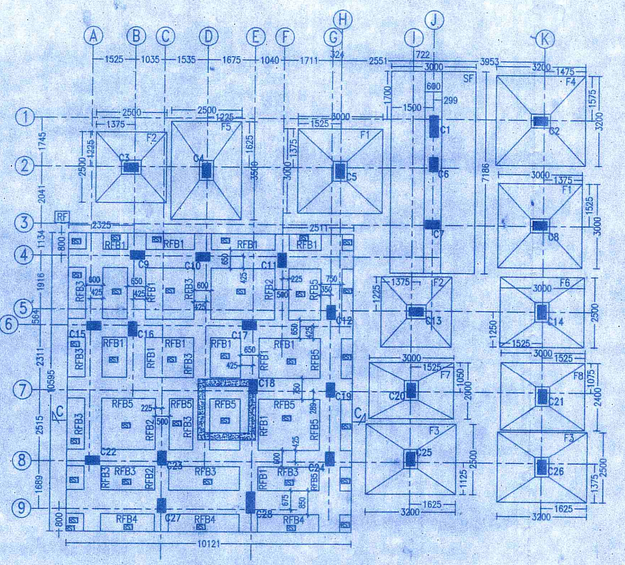
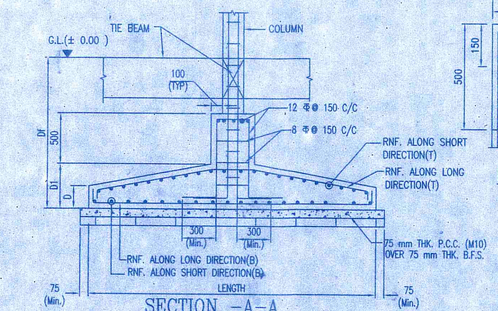
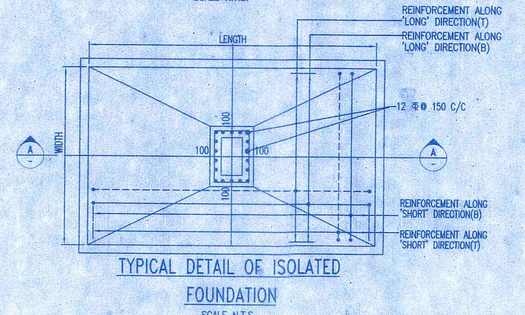
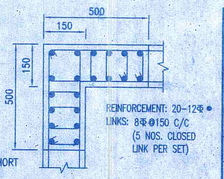
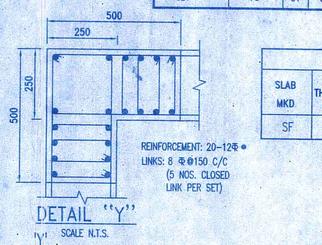










SCHEDULE FOR ISOLATED FOUNDATION

COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE					FOUNDATION REINFORCEMENT DETIALS			
			LENGTH (mm)	WIDTH (mm)	THICKNESS D1 (mm)	THICKNESS D (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT ALONG SHORT DIRECTION	BOTTOM REINFORCEMENT ALONG LONG DIRECTION	TOP REINFORCEMENT ALONG SHORT DIRECTION	TOP REINFORCEMENT ALONG LONG DIRECTION
C5, C8	F1	02	3000	3000	600	400	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C3, C13	F2	02	2500	2500	500	300	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C25, C26	F3	02	3200	2500	600	400	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C2	F4	01	3200	3200	600	400	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C4	F5	01	3500	2500	650	400	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C14	F6	01	3000	2500	500	300	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C20	F7	01	3000	2000	500	300	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C
C21	F8	01	3000	2400	600	400	1500	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	8 ⌀@ 250 C/C	8 ⌀@ 250 C/C

SCHEDULE OF STRIP FOOTING SLAB

SLAB MKD	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
SF	400	16 ⌀@ 150 C/C	12 ⌀@ 150 C/C	12 ⌀@ 150 C/C	12 ⌀@ 150 C/C

SCHEDULE OF STRIP FOOTING BEAM

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALLTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SPAN (b)	BOTTOM REINFORCEMENT ALLTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS
SFB1	600	600	5-20 ⌀	2-16 ⌀	5-20 ⌀	5-16 ⌀	4L-10 ⌀@150 C/C

SCHEDULE OF RAFT SLAB

SLAB MKD	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS1	400	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C	16 ⌀@ 150 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALLTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SPAN (b)	BOTTOM REINFORCEMENT ALLTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS
RFB1	650	600	6-16 ⌀	-	6-16 ⌀	2-16 ⌀	4L-10 ⌀@150 C/C
RFB2	500	600	5-16 ⌀	-	5-16 ⌀	-	4L-10 ⌀@150 C/C
RFB3	600	600	5-16 ⌀	-	5-16 ⌀	3-16 ⌀	4L-10 ⌀@150 C/C
RFB4	850	600	5-16 ⌀	-	5-16 ⌀	3-16 ⌀	4L-10 ⌀@150 C/C
RFB5	750	600	6-20 ⌀	-	6-20 ⌀	2-20 ⌀	4L-10 ⌀@150 C/C

NOTES:-

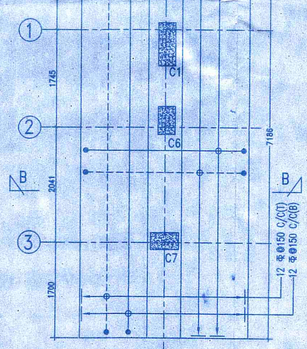
1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
3. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
4. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
5. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
6. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
7. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
8. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T ⌀ 250 C/C.
9. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   i)RAFT BEAM & SLAB : 50 mm
   ii)COMBINED FOUNDATION SLAB AND BEAM : 50 mm
   iii)ISOLATED FOUNDATION : 50 mm
   iv)PEDESTAL : 40 mm.
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
11. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
12. THE NET SAFE BEARING CAPACITIES FOR ALL THE FOUNDATIONS HAVE BEEN CONSIDERED AS PER SOIL REPORT PREPARED BY MR. ASIM SARKAR (ASSOCIATED FOUNDATION ENGINEERS) AND ALSO MENTIONED IN THE STRUCTURAL DRAWING.
13. THE BEARING CAPACITIES MENTIONED IN THE DRAWING MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DESIGN AND DRAWING.
14. 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.

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

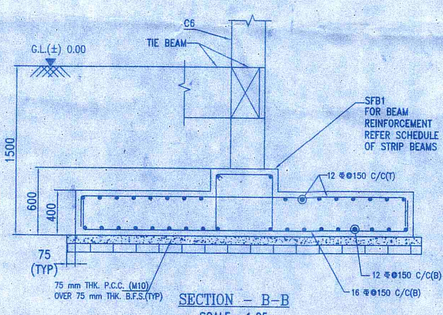
TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M²)
ISOLATED	2.5m. x 2.5m.	13.9
	3.0m. x 3.0m.	13.7
	3.2m. x 2.5m.	13.5
	3.2m. x 3.2m.	13.5
	2.5m. x 3.5m.	13.5
	3.0m. x 2.5m.	13.7
	3.0m. x 2.0m.	13.7
	3.0m. x 2.4m.	13.7
STRIP	MARKED IN DRAWING	11.0
RAFT	MARKED IN DRAWING	10.0

SPECIAL NOTE:-

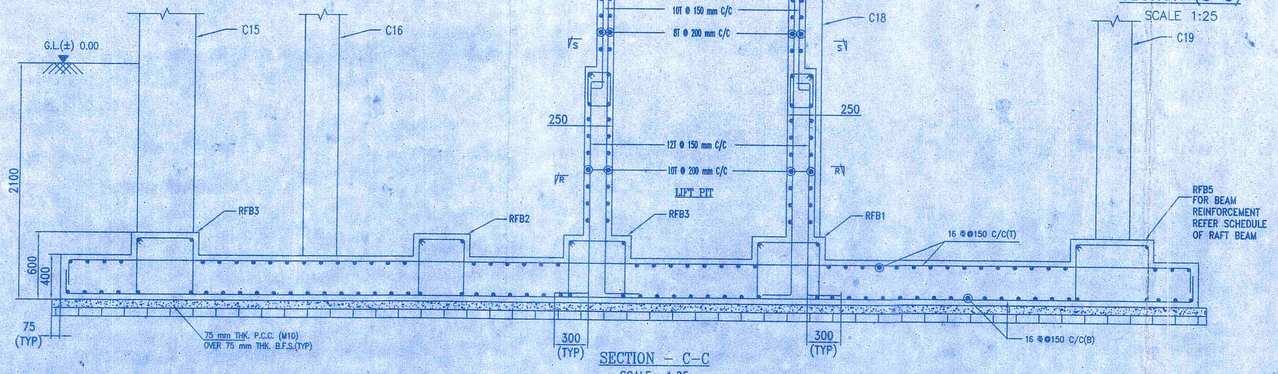
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.



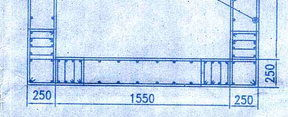
DETAIL OF STRIP FOUNDATION (SF)
SCALE 1:50



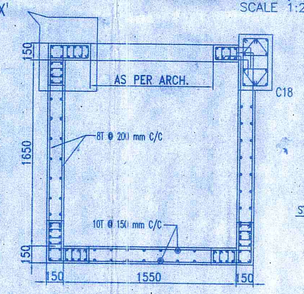
SECTION - B-B
SCALE- 1:25



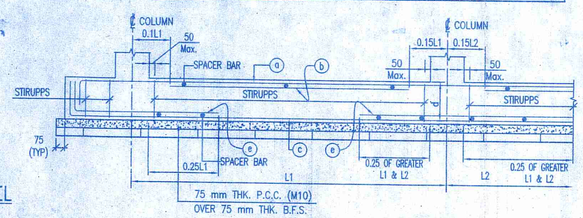
SECTION - C-C
SCALE- 1:25



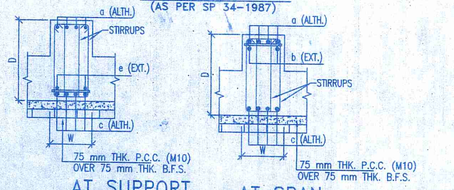
LIFT WALL PLAN AT BASE LEVEL
SECTION (R-R)
SCALE 1:25



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



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



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

SPECIAL NOTES:

1. THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 250 mm THICK AAC BLOCKS IN EXTERNAL WALLS &125 mm THICK AAC BLOCKS IN INTERNAL WALLS.
2. ALL CANTILEVER BEAMS SHOULD BE CAST WITH A PRECAMBER OF 6 mm AT TOP.

TITLE

PROPOSED PLAN OF G+4 STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF S.B. PROPERTIES OVER R.S. PLOT NO. - 12 , L.R. PLOT NO. - 30 , KHATIAN NO.- 2583 , MOUZA - SANKARPUR , J.L. NO- 109 , P.S. - NEW TOWNSHIP , DIST- PASCHIM BURDWAN.

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 RESPECT.

Dona Chatterjee 6.2.2020

DONA CHATTERJEE
Structural Consultant
B. E -Civil (First class. Hons.) J U
M. E -Structures (First class) J U
LSE- II (K. M. C), Licence No. ESE/II/618

S Choudhury 3/2/2020

SUSMITA CHOUDHURY
B.TECH (WBUT), M.E. (JU)
CIVIL ENGINEER, NKDA
LICENCE NO.: CVER/NKDA/100/2015
M-8697517321, 7003201735

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

6/2/2020

VIJAYA SINGH
DMC REGISTERED
LIC NO. - DMC/BPD/60

VIJAYA SINGH MAZUMDER
Consulting Architect
DMC Registered [DMC/BPD/60]
9332002786, 9476426106

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED
18/1/2020

DR. DIPANKAR CHAKRAVORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & CHEMICAL ENGINEERING DEPARTMENT
JADAVPUR UNIVERSITY
B.E.(CIVIL)(JUTCGP) GOLD MEDALIST
M. TECH (IIT KGP)
PHD (IIT KGP)
PHONE(O) 033-2457 2569
(M) 9830185502 & 9433933143
EMAIL : prof.dipankar@gmail.com

SIGNATURE OF GEOTECHNICAL ENGINEER

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

ASIM SARKAR
BCE, ME (SOIL), MIGS
EMPANELLED GEOTECHNICAL ENGINEER
K.M.C. No. : CLASS -I/2

Approved Plan No. 25 ...un Meeting
No. 15/19-20 Date. 05/03/2020
Valid upto. 04/05/2023

Mallika Lohar
Pradhan
Jemua Gram Panchayat
JAP- 691/2019-20

CERTIFICATE OF OWNER

S.B. PROPERTIES

Proprietor

DRAWING TITLE

FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS

SCALE-1:100 OR AS SHOWN
DATE- 03.02.2020
SHEET NO. - 1 OF 3