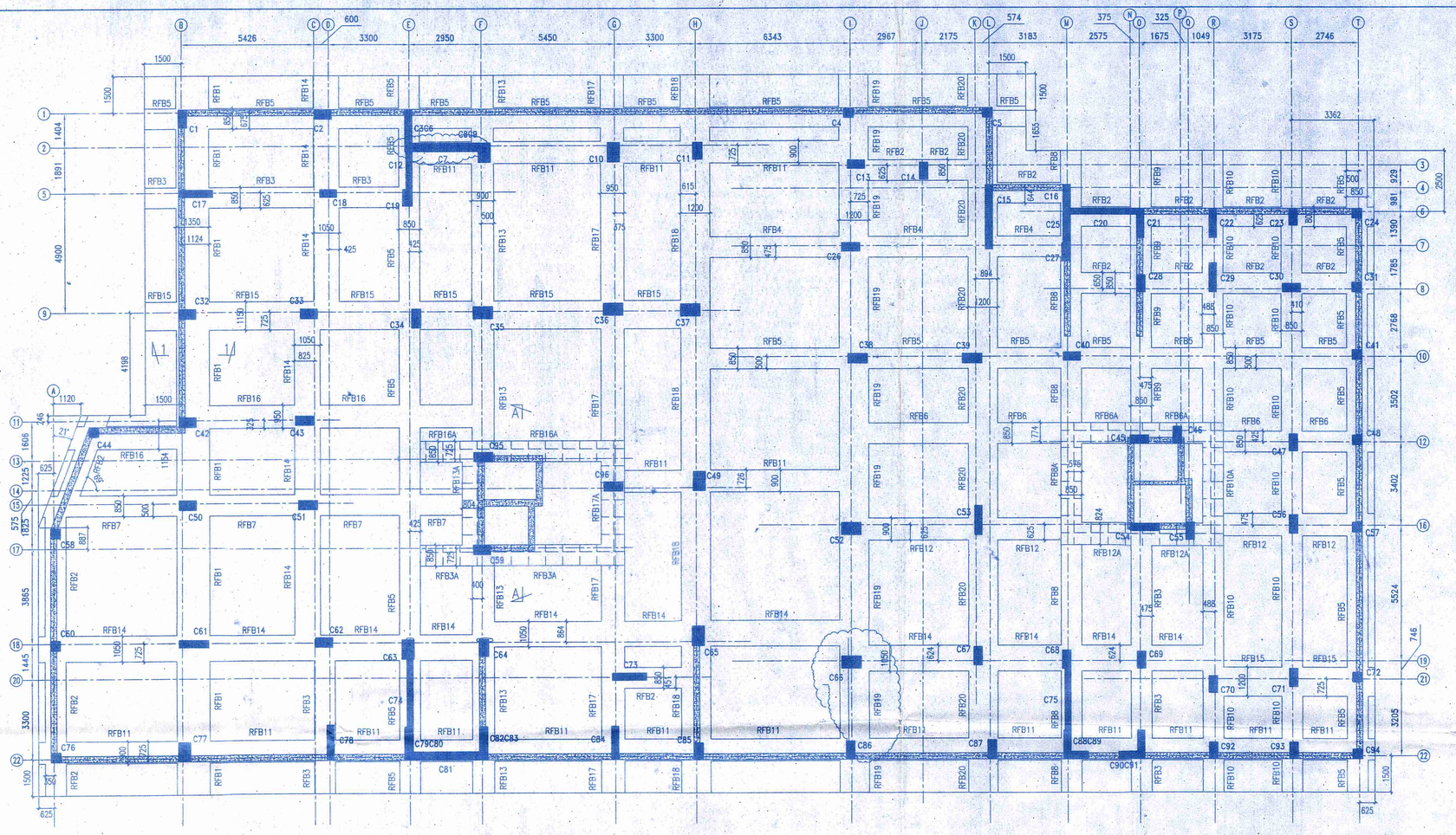


FOUNDATION LAYOUT PLAN
RAFT SLAB 1000 mm THICK.
SCALE-1:100

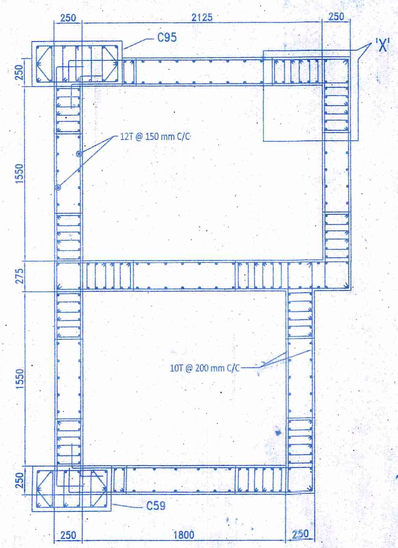
SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINORCEMENT ALTHROUGH (a)	TOP REINORCEMENT EXTRA AT SPAN (b)	BOTTOM REINORCEMENT ALTHROUGH (c)	BOTTOM REINORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS
RFB1	1350	1000	9-20 ⌀	-	9-20 ⌀	3-20 ⌀	6L-10 ⌀@150 C/C
RFB2	850	1000	7-20 ⌀	-	7-20 ⌀	-	4L-10 ⌀@200 C/C
RFB3	850	1000	7-20 ⌀	-	7-20 ⌀	4-20 ⌀	6L-10 ⌀@175 C/C
RFB4	850	1000	7-20 ⌀	4-20 ⌀	7-20 ⌀	3-20 ⌀	6L-10 ⌀@175 C/C
RFB5	850	1000	7-20 ⌀	2-20 ⌀	7-25 ⌀	3-20 ⌀	6L-10 ⌀@175 C/C
RFB6	850	1000	8-25 ⌀	3-25 ⌀	8-25 ⌀	5-25 ⌀	6L-12 ⌀@150 C/C
RFB7	850	1000	8-25 ⌀	8-25 ⌀	8-25 ⌀	-	6L-10 ⌀@150 C/C
RFB8	850	1000	6-25 ⌀	3-20 ⌀	6-25 ⌀	3-20 ⌀	6L-10 ⌀@200 C/C
RFB9	850	1000	7-25 ⌀	3-20 ⌀	7-25 ⌀	4-20 ⌀	6L-10 ⌀@200 C/C
RFB10	850	1000	7-25 ⌀	4-25 ⌀	7-25 ⌀	4-25 ⌀	6L-10 ⌀@200 C/C
RFB11	900	1000	7-20 ⌀	-	7-20 ⌀	-	4L-10 ⌀@200 C/C
RFB12	900	1000	9-25 ⌀	8-25 ⌀	9-25 ⌀	4-25 ⌀	6L-12 ⌀@100 C/C
RFB13	900	1000	7-25 ⌀	-	7-25 ⌀	6-25 ⌀	6L-10 ⌀@150 C/C
RFB14	1050	1000	9-20 ⌀	-	9-20 ⌀	-	6L-10 ⌀@200 C/C
RFB15	1200	1000	4-25 ⌀ +5-20 ⌀	-	4-25 ⌀ +5-20 ⌀	-	6L-10 ⌀@150 C/C
RFB16	950	1000	9-25 ⌀	4-25 ⌀ +2-20 ⌀	9-25 ⌀	3-25 ⌀	6L-10 ⌀@200 C/C
RFB17	950	1000	9-25 ⌀	-	9-25 ⌀	8-25 ⌀	8L-12 ⌀@125 C/C
RFB18	1200	1000	2-25 ⌀ +11-20 ⌀	9-20 ⌀	13-25 ⌀	10-25 ⌀	8L-12 ⌀@175 C/C
RFB19	1200	1000	13-25 ⌀	5-25 ⌀	13-25 ⌀	7-25 ⌀	8L-10 ⌀@175 C/C
RFB20	1200	1000	13-25 ⌀	10-25 ⌀	13-25 ⌀	-	8L-10 ⌀@125 C/C

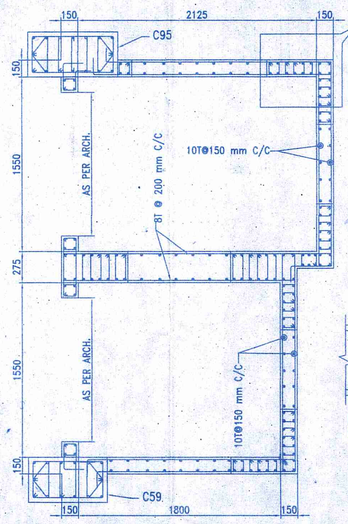
FOR OTHER BEAM REINFORCEMENT REFER SHEET NO.-2 OF 10

SCHEDULE OF RAFT SLAB

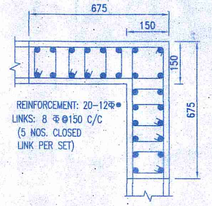
SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION BOTTOM	REINFORCEMENT ALONG SHORTER DIRECTION TOP	REINFORCEMENT ALONG LONGER DIRECTION BOTTOM	REINFORCEMENT ALONG LONGER DIRECTION TOP
1000	25 ⌀@ 150 C/C	25 ⌀@ 150 C/C	25 ⌀@ 150 C/C	25 ⌀@ 150 C/C



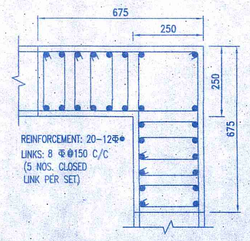
LIFT WALL PLAN AT BASE LEVEL
SECTION (R-R)
TYPICAL CROSS SECTION OF LIFT
SCALE 1:25



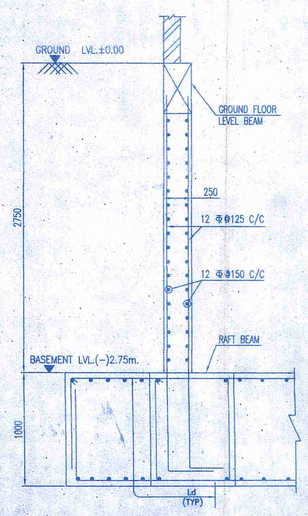
LIFT WALL PLAN AT FLOOR LEVEL
SECTION (S-S)
SCALE 1:25



DETAIL "Y"
SCALE N.T.S.



DETAIL "X"
SCALE N.T.S.



SECTION (1-1)
DETAILS OF RETAINING WALL
SCALE 1:25

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)RETAINING WALL : 50 mm
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M40 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 CAPACITY OF THE RAFT SHOWN IN THE DRAWING AT DEPTH (-)3.75m. FROM G.L. HAVE BEEN CONSIDERED 17.75T/SQM ON THE BASIS OF SOIL REPORT. THIS MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
13. 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 NOTES:
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

TITLE

STRUCTURAL DRAWINGS OF PROPOSED B+G+10 STORIED APARTMENT BUILDING OF "SADAN INFRASTRUCTURE" OVER L.R. PLOT NO. – 20, 21, R.S. PLOT NO.– 14(P), L.R. KHATIAN NO.– 2462, 2485, 2579 & 2287, MOUZA –SANKARPUR, J.L. NO– 109, P.S.– NEW TOWNSHIP, DIST– PASCHIM BARDHAMAN.

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

VIJAYA SINGH MAZUMDER
Consulting Architect
DMC Registered (DMC/BPD/60)
9332802166, 9476426106

VIJAYA SINGH
DMC REGISTERED
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SIGNATURE OF STRUCTURAL ENGINEER

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Reg. ESE/ 10/23 of KMC, CVER/INDIA/010/00087
Chartered Engineer
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12/1/21

SIGNATURE OF VETTING AUTHORITY

CHECKED & VETTED
DR. DIPANKAR CHAKRAVORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
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(M) 98319 89502 & 9433993143
EMAIL : Prof.dipankar@gmail.com
19.01.2021

SIGNATURE OF GEO-TECH ENGINEER

SIGNATURE OF PANCHAYAT PRADHAN

Approved Plan No. 13 on Meeting
No. 13/2020-21 Date 08/02/2021
Valid upto 07/02/2024
Mallika Bahar
Pradhan 08/02/2022
Jemua Gram Panchayat

SIGNATURE OF OWNER

SADAN INFRASTRUCTURE
Sujit Singh
Authorised Signatory/Partner

DRAWING DETAILS
FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN
DATE- 16.12.2020
SHEET 1 OF 10