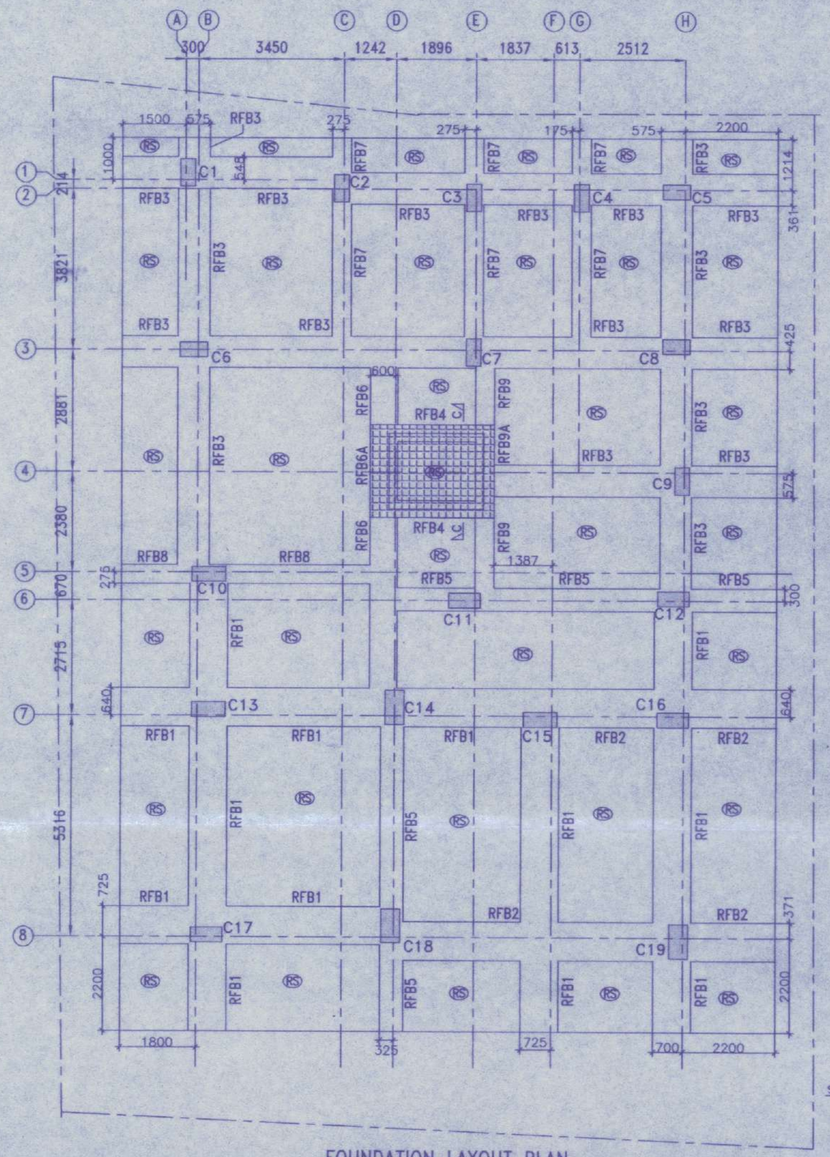
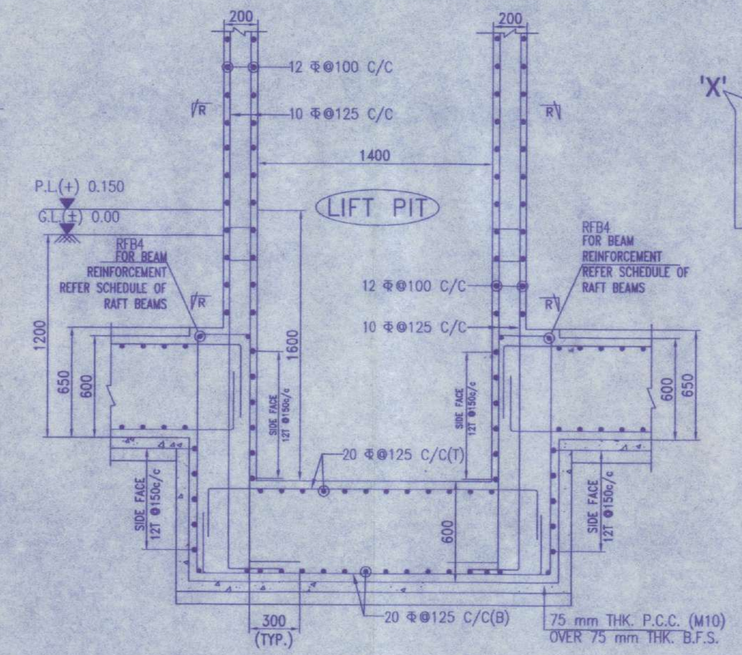
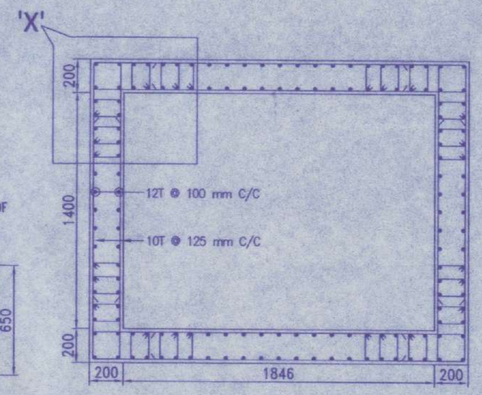


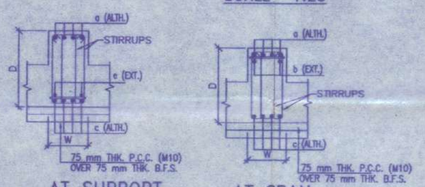
FOUNDATION LAYOUT PLAN
RAFT SLAB (RS) THICKNESS 600mm.
SCALE 1:100



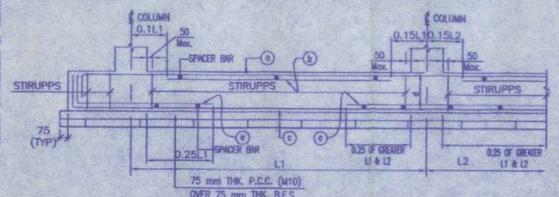
SECTION -C-C
SCALE- 1:25



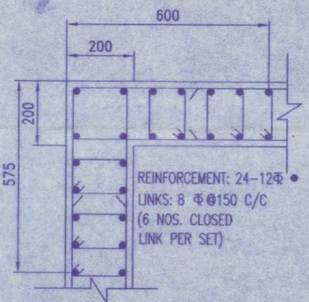
LIFT WALL PLAN AT ALL LEVELS
SECTION (R-R)
SCALE 1:25



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)
SCALE - N.T.S.



DETAIL-"X"
SCALE-N.T.S

SPECIAL NOTES:-

1. 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.
2. 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	600	20 Φ@ 125 C/C	20 Φ@ 125 C/C	20 Φ@ 125 C/C	20 Φ@ 125 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SPAN (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS	SIDE FACE RAINF.
RFB1	950	650	9-16 Φ	–	9-16 Φ	4-20Φ	4L-10 Φ@150 C/C	–
RFB2	900	650	5-20 Φ +4-16 Φ	7-25 Φ	5-20 Φ +4-16 Φ	7-25 Φ	4L-10 Φ@100 C/C	–
RFB3	750	650	8-16 Φ	3-20 Φ	8-16 Φ	3-20 Φ	4L-8 Φ@100 C/C	–
RFB4	400	1500	4-16 Φ +3-12 Φ	2-20 Φ	4-16 Φ +3-12 Φ	2-20 Φ	4L-8 Φ@200 C/C	12 Φ@150 C/C
RFB5	550	650	5-20 Φ	–	5-20 Φ	4-25 Φ	4L-8 Φ@100 C/C	–
RFB6	650	650	6-20 Φ	5-25 Φ	6-20 Φ	5-25 Φ	6L-10 Φ@100 C/C	–
RFB6A	650	1500	6-20 Φ +5-25 Φ	–	6-20 Φ +5-25 Φ	–	6L-10 Φ@100 C/C	12 Φ@150 C/C
RFB7	450	650	4-16 Φ	–	4-16 Φ	3-20 Φ	4L-8 Φ@150 C/C	–
RFB8	450	650	4-16 Φ	–	4-20 Φ	3-20 Φ	4L-8 Φ@150 C/C	–
RFB9	450	650	4-16 Φ	2-16 Φ	4-20 Φ	3-20 Φ	4L-10 Φ@150 C/C	–
RFB9A	450	1500	4-16 Φ +2-16 Φ	–	4-20 Φ +3-20 Φ	–	4L-10 Φ@150 C/C	12 Φ@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)SHEAR WALL : 20 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 SP 34:1987
12. THE NET SAFE BEARING CAPACITY FOR RAFT FOUNDATION IS 10 T/SQ.M 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.
13. THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
14. THEN 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 SEVEN (G+6) STORIED RESIDENTIAL APARTMENT OF 1.) DHIREN DAS, 2.)SURBALA DAS, OVER R.S PLOT NO:- 1596(P), L.R PLOT:- 2171 KHATIAN NO- 5248, 5249, J.L. NO - 91, OF MOUZA - ARRAH, P.S.-KANKSA, DIST. - PASCHIM BURDWAN.

SIGNATURE OF OWNER

SIGNATURE OF CONSULTANT/ARCHITECT

AR. JUI CHATTERJEE, B.ARCH
Registration No. - CA/2021/134352
Ph : 9434649399, 7585893414
JUI CHATTERJEE
(COA REG. NO. - CA/2021/134352)

SIGNATURE OF PANCHAYET PRADHAN

APPROVED Vide Memo No. 5169/PSBZP Dt. 30.11.2023
OF PASCHIM BARDHAMAN ZILA PERISHAD
Additional Executive Officer
Pradhan
Malandighi Gram Panchayet

SIGNATURE OF GEO-TECHNICAL ENGINEER

ASIM SARKAR
BCE, ME(SOIL), M.TECH (STRUCTURE), MIGS, MIE
EMPANELLED GEOTECHNICAL ENGINEER
KMC NO - CLASS I / 2

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.TECH (CIVIL) - WBUT
ME (CONSTRUCTION) - JU
ESE-I/RJPSON/130
ESE-II/KMC/664
STER/NKDA/21/00010
CVER/NKDA/10/00175
(M)- 8697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED
DR. DIPANKAR CHAKRAVORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
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DRAWING TITLE

FOUNDATION LAYOUT PLAN WITH REINF. DETAILS.

SCALE.-1:100 OR AS SHOWN

DATE.- 08.08.2023

SHEET NO.- 1 OF 2 | SHEET SIZE-A2