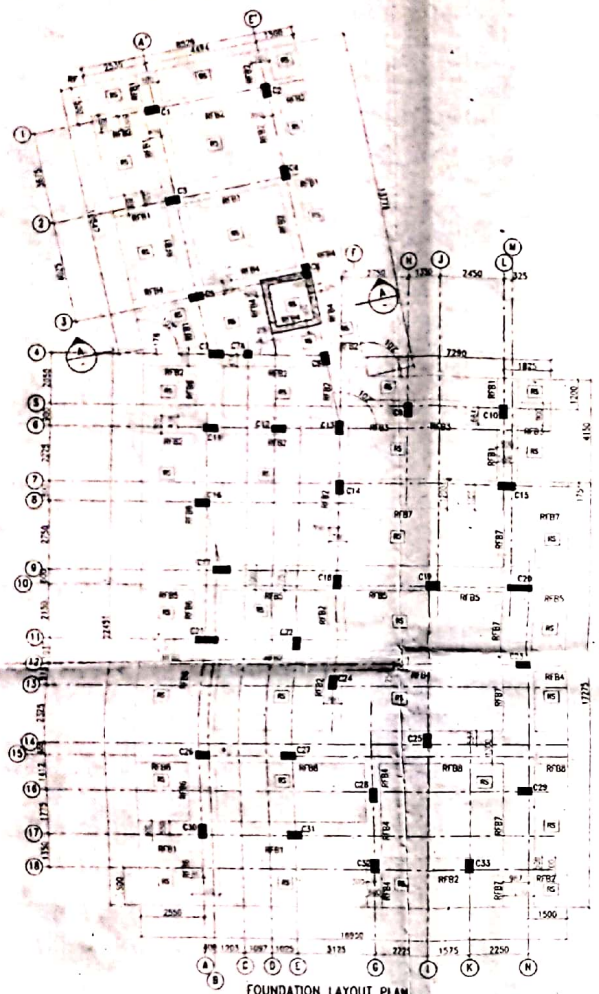
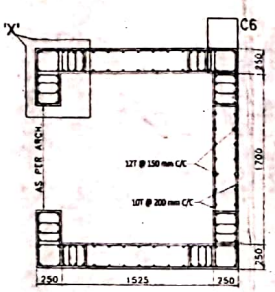
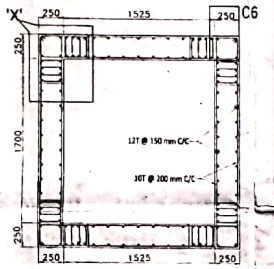


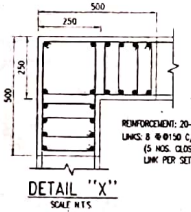
FOUNDATION LAYOUT PLAN
RAFT SLAB (MARKED RS) 500 mm thk
SCALE 1:100
(CONCRETE GRADE: M25)



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



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



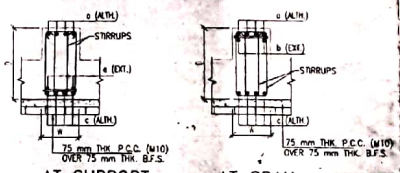
DETAIL "X"
SCALE N.T.S.

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
RFB1	800	800	8-16 Φ	-	8-16 Φ	-	6L-10 Φ@175 C/C
RFB2	700	900	8-16 Φ	-	8-16 Φ	-	6L-10 Φ@175 C/C
RFB3	800	800	7-16 Φ	3-16 Φ	7-16 Φ	3-16 Φ	4L-10 Φ@200 C/C
RFB4	500	600	7-16 Φ	-	7-16 Φ	3-16 Φ	4L-10 Φ@200 C/C
RFB5	1000	800	7-16 Φ	5-16 Φ	7-16 Φ	5-16 Φ	6L-10 Φ@200 C/C
RFB6	1100	300	7-16 Φ	-	7-16 Φ	5-16 Φ	6L-10 Φ@200 C/C
RFB7	1200	800	8-16 Φ	-	8-16 Φ	-	6L-10 Φ@200 C/C
RFB8	1300	800	7-16 Φ	7-16 Φ	7-16 Φ	7-16 Φ	6L-10 Φ@200 C/C

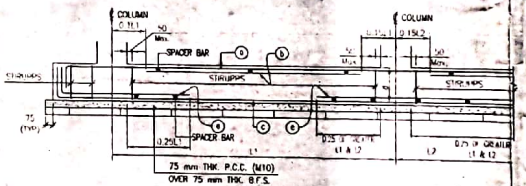
SCHEDULE OF RAFT SLAB

SLAB MKD	SLAB THICKNESS (mm)	REINFORCEMENT IN BOTH DIRECTIONS BOTTOM	TOP
RS	500	16Φ @ 100 C/C	16Φ @ 100 C/C

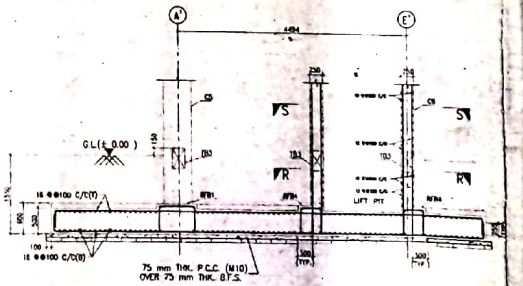


AT SUPPORT AT SPAN

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



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



SECTION A-A
SCALE- 1:50
(FOR TIE BEAM REINFORCEMENT REFER TIE BEAM SCHEDULE)
(FOR RAFT BEAM REINFORCEMENT REFER RAFT BEAM SCHEDULE)

SPECIAL NOTES:
THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 200 mm THICK AAC BLOCKS IN EXTERNAL WALLS, 75 Ø125 mm THICK AAC BLOCKS IN INTERNAL WALLS.

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:
   (RAFT BEAM & SLAB : 50 mm
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
11. DEVELOPMENT LENGTH 50Ød FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
12. THE NET SAFE BEARING CAPACITY FOR RAFT FOOTING AT DEPTH (-)1.55m. FROM G.L. HAS BEEN TAKEN AS 6.0 TON/SQ.M. AS PER THE SOIL REPORT PREPARED BY DR. SANTOSH KUMAR CHAKRABORTY (ACCUMEN GEO CONSULTANTS).
13. THE BEARING CAPACITY MENTIONED ABOVE MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
14. THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1883 (PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DESIGN AND DRAWING.

SPECIAL NOTES:
THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 200 mm THICK AAC BLOCKS IN EXTERNAL WALLS, 75 Ø125 mm THICK AAC BLOCKS IN INTERNAL WALLS.

TITLE
PROPOSED STRUCTURAL DRAWINGS FOR G+IV (~~4.5~~ 14.0 mt.) STORIED RESIDENTIAL BUILDING OF Sri. SISIR MANDAL, Smt. PRIYANKA MANDAL, Smt. HASINA BIBI, Md. SAHIDUL ISLAM & SAIFUL ISLAM AT MOUZA - REKJOANI; J.L. NO - 13; R.S. / L.R. DAG NO - ~~1090~~, 1095, 1096 AND ~~1637~~ ;R.S. No. - 198; L.R.KHATIAN NO. ~~5282~~ 5291, 5292 AND 5489; UNDER BISHNUPUR 1No. GRAM PANCHAYAT; P.S. - RAJARHAT; DIST - 24 PRGS(NORTH).

CERTIFICATE OF ARCHITECT
SIG. OF ARCHITECT

CERTIFICATE OF STRUCTURAL ENGINEER
CERTIFIED THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN SO DESIGNED BY ME AS TO BE SAFE IN ALL RESPECTS INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL ETC. AS PER STANDARDS OF I.S.I. CODE.
Susmita Choudhury 29/7/19
SUSMITA CHOUDHURY
B.TECH (WBUT)
CIVIL ENGINEER, NKDA
LICENCE NO.- CVER/NKDA/10/00175
SIG. OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

DECLARATION OF OWNER
CERTIFIED THAT I HAVE GONE THROUGH THE BUILDING RULES FOR BISHNUPUR No.1 GRAM PANCHAYAT AS REGARDS AND ALSO UNDERTAKE TO ABIDE BY THOSE RULES DURING AND AFTER CONSTRUCTION OF BUILDING.
I ALSO CERTIFY THAT THE LAND IS NOT A POND OR FILLED UP POND.
BHAGAT CONSTRUCTION
Proprietor
SIGNATURE OF OWNER

DRAWING TITLE
FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS
SCALE-1:100 OR AS SHOWN
DATE- 29.07.2019
SHEET NO. -1 OF 6

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