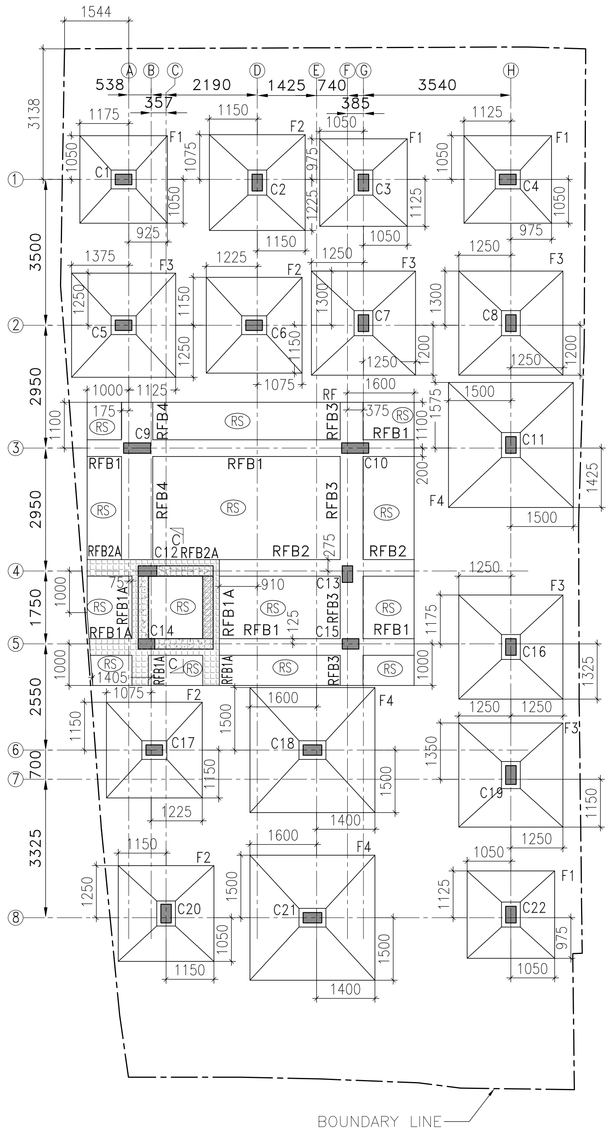
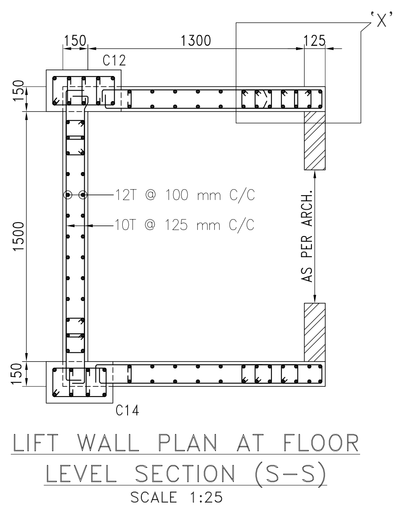
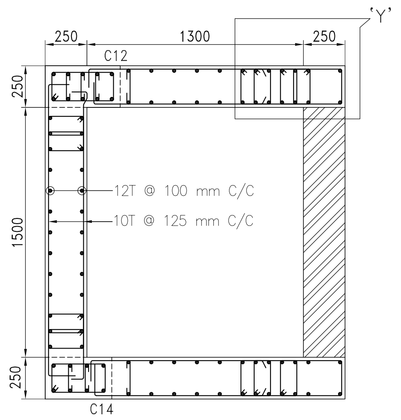


FOUNDATION LAYOUT PLAN
RS MARKED SLABS ARE 400mm. THICK.
RS REFERS TO RAFT SLAB.
SCALE–1:100

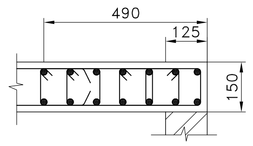
SPECIAL NOTES:–
1. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.
2. PROVIDE 300 MM YELLOW SAND CUSHION AS PER SOIL REPORT.



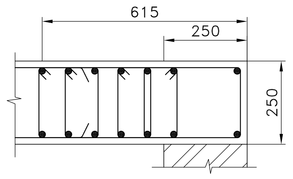
LIFT WALL PLAN AT FLOOR LEVEL SECTION (S–S)
SCALE 1:25



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



REINFORCEMENT: 14–12Φ●
LINKS:8 Φ@150 C/C
(4 NOS. CLOSED LINKS AS PER SET)
DETAIL–''X''
SCALE–N.T.S.

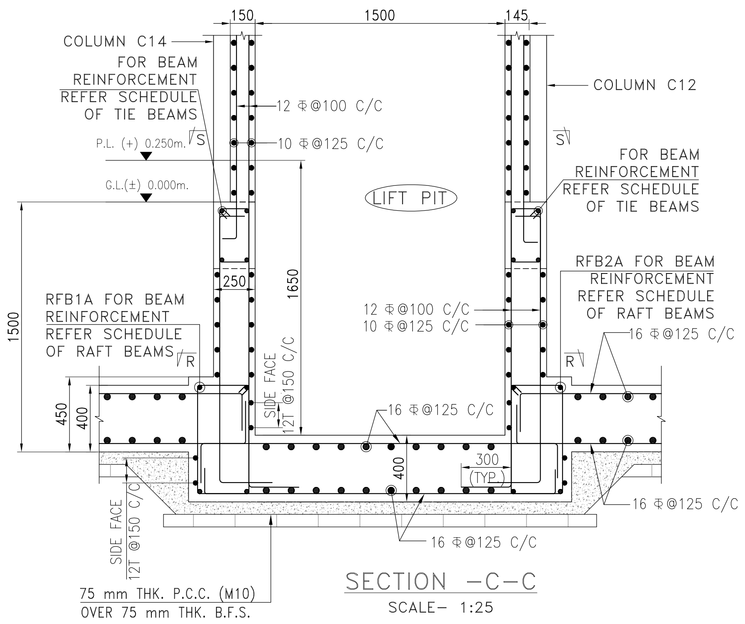


REINFORCEMENT: 14–12Φ●
LINKS:8 Φ@150 C/C
(4 NOS. CLOSED LINKS AS PER SET)
DETAIL–''Y''
SCALE–N.T.S.

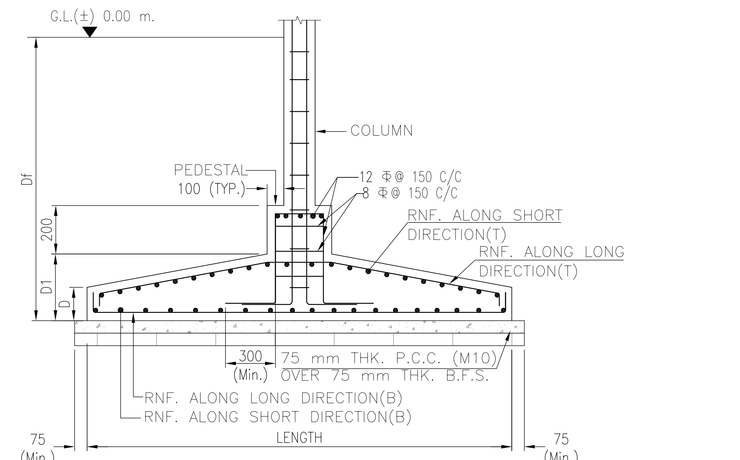
NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	FOUNDATION MARK	SIZE	NET SAFE BEARING CAPACITY (T/M^2)
ISOLATED	F1	2.10m. x 2.10m.	8.35
	F2	2.30m. x 2.30m.	8.28
	F3	2.50m. x 2.50m.	8.20
	F4	3.00m. x 3.00m.	8.00
RAFT	RF	AS SHOWN IN DRAWRING	8.50

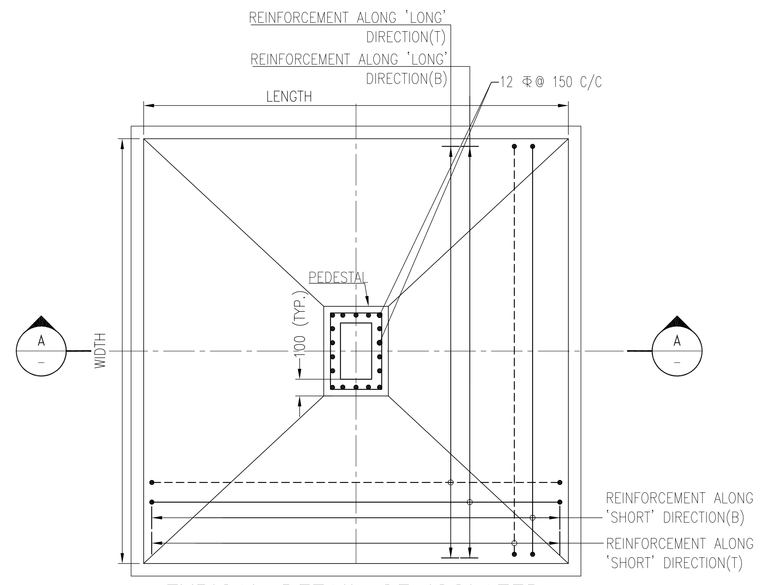
NOTE:–
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO–TECHNICAL ENGINEER BEFORE EXECUTION.



SECTION –C–C
SCALE– 1:25



SECTION –A–A
SCALE N.T.S.



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

SCHEDULE OF RAFT BEAMS

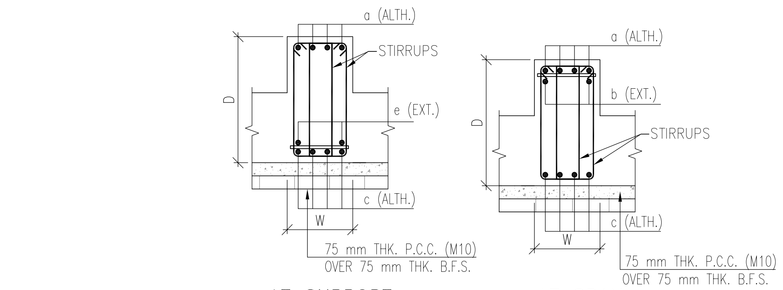
BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SPAN (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS	SIDE FACE
RFB1	400	450	4–16 Φ	–	4–16 Φ	–	4L–8 Φ@200 C/C	–
RFB1A	400	750	4–16 Φ +4–16 Φ	–	4–16 Φ +4–16 Φ	–	4L–8 Φ@200 C/C	12 Φ@150 C/C
RFB2	400	450	4–16 Φ	–	4–16 Φ	2–16 Φ	4L–8 Φ@100 C/C	–
RFB2A	400	750	4–16 Φ +4–16 Φ	–	4–16 Φ +4–16 Φ	–	4L–8 Φ@100 C/C	12 Φ@150 C/C
RFB3	550	450	5–16 Φ	–	5–16 Φ	–	4L–8 Φ@200 C/C	–
RFB4	750	450	7–16 Φ	–	7–16 Φ	–	4L–8 Φ@200 C/C	–

SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG BOTH DIRECTION BOTTOM	REINFORCEMENT ALONG BOTH DIRECTION TOP
RS	400	16 Φ@125 C/C	16 Φ@125 C/C

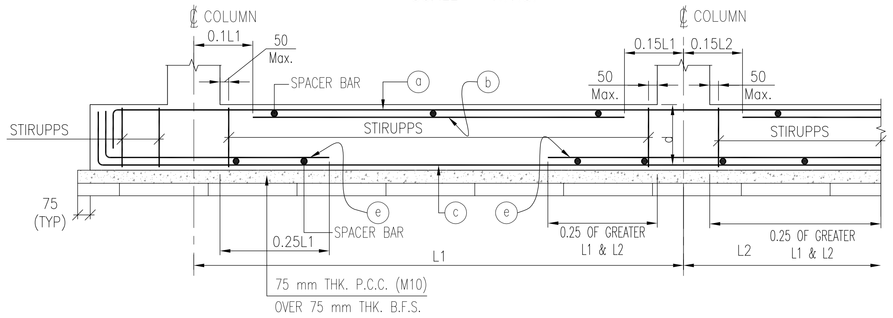
SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE WIDTH (m)	LENGTH (m)	THICKNESS D1 (mm)	THICKNESS D (mm)	DEPTH Df (mm)	FOUNDATION REINFORCEMENT DETAILS BOTTOM REINFORCEMENT ALONG SHORT DIRECTION	BOTTOM REINFORCEMENT ALONG LONG DIRECTION	TOP REINFORCEMENT ALONG SHORT DIRECTION	TOP REINFORCEMENT ALONG LONG DIRECTION
C1,C3,C4,C22	F1	04	2.10	2.10	400	250	1500	12 Φ@ 150 C/C	12 Φ@ 150 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C2,C6,C17,C20	F2	04	2.30	2.30	400	250	1500	12 Φ@ 150 C/C	12 Φ@ 150 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C5,C7,C8,C16,C19	F3	05	2.50	2.50	400	250	1500	12 Φ@ 150 C/C	12 Φ@ 150 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C11,C18,C21	F4	03	3.00	3.00	400	250	1500	12 Φ@ 125 C/C	12 Φ@ 125 C/C	8 Φ@ 300 C/C	8 Φ@ 300 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)
SCALE – N.T.S.

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 METERS 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) ISOLATED FOUNDATION : 50 mm
   ii) RAFT BEAM & SLAB : 50 mm
   iii) 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 CAPACITIES FOR ISOLATED & RAFT FOUNDATION DEPTH AT(–)1.50m. FROM G.L. IN TUNE WITH THE SOIL REPORT PREPARED BY TECHNO SOIL (KALLOL KUMAR GHOSAL).
13. THE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO–TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING BEFORE EXECUTION.
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.

STATEMENT OF THE PLAN

DETAILS OF PREMISES

STRUCTURAL DRAWING FOR PROPOSED PLAN OF (G+III)STORIED RESIDENTIAL BUILDING PLAN OF GANAPATI CONSTRUCTION AT R.S. DAG NO.- 654, L.R. DAG NO.- 662, R.S. KHATIAN NO. 419, 471, L.R. KHATIAN NO. 4961, WARD NO.- 6, HOLDING NO-650, TENTULBERIA, MOUZA- TENTULBERIA, J.L.NO.- 44, P.S. - NARENDRAPUR, (OLD-SONARPUR), DISTRICT - 24 PARGANAS (SOUTH), UNDER RAJPUR SONARPUR MUNICIPALITY,

NOTES

1) ALL DIMENSIONS ARE IN M. UNLESS OTHERWISE MENTIONED. WRITTEN DIMENSION TO BE FOLLOWED.
2) OUTER WALLS ARE 0.200 M. THK. & PARTITION WALLS ARE 0.125 & 0.075 M. THK.
3) GRADE OF CONCRETE = M20 & GRADE OF STEEL = Fe415
4) SEPTIC TANK - OUTER WALLS ARE 0.250 M. THK. & PARTITION WALLS ARE 0.125 M. THK.
5) U.G. WATER RESERVOIR - OUTER WALLS ARE 0.250 M. THK.
6) O.H. WATER RESERVOIR - OUTER WALLS ARE 0.250 M. THK.

SPECIFICATIONS

1. 0.075 TH. 1ST. CLASS BRICK SOLING IN FOUNDATION & FLOOR
2. 0.100 TH. 1:3:6 (CEMENT,SAND & KHOA) CEMENT CONCRETE IN FLOOR
3. FOUNDATION BRICK WORK WILL BE 1ST CLASS BRICK WITH 1:6 CEMENT MORTAR
4. 0.125 TH. & 0.075 TH. PARTITION BRICK WORK WILL BE 1:5 CEMENT MORTAR
5. 0.200TH. EXTERNAL WALLS WILL BE 1:6 CEMENT MORTAR
6. 0.025 TH. D.P.C. WILL BE 1:2:4 WITH PROPER WATER PROOFING COMPOUND
7. R.C.C. CONC. MIX WILL BE 1:2:4 CEMENT SAND & STONE CHIPS MATERIALS AND MIXING
8. ROOF AND LIME TERRACING WILL BE 0.100 TH. WITH THEIR PROPER
9. CEILING AND ALL R.C. PLASTER WILL BE 0.012m. TH. 1:4 CEMENT MORTAR
10. GRADE OF CONCRETE M - 20 .
11. ALL BUILDING MATERIALS WILL BE AS PER I.S. CODE & C.B.C. 1984
12. FLOORING - MARBLE FLOOR

DECLEARATION OF L.B.S.(CLASS -I)

I HAVE CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT BUILDING RULES 1990 AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITIONS INCLUDING THE ABUTTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED

PABITRA DEY
L.B.S. NO - 760 , CLASS- I
NAME OF L.B.S.

DECLARATION OF STRUCTURAL ENGINEER

CERTIFIED THAT THE STRUCTURAL DESIGN & DRAWINGS OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING HAS BEEMN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE ALL RERSPECT .

SUSMITA CHOUDHURY
ESE-0130, CLASS- I
NAME OF E.S.E

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

KALLOL KUMAR GHOSHAL
G.T. ENGG - 033, CLASS- II
NAME OF GEO-TECHNICAL ENG.

GANAPATI CONSTRUCTION
PARTNERS
1) SRI ASHOK PAUL
2) SRI ARUN KUMAR BAYEN
3) SRI MANOJ SARDAR
4) SRI CHIRANJIT NASKAR
5) SRI SHYAMAL GHOSH
NAME OF OWNER/APPLICANT

SCALE
1 : 100, 1 : 50, 1 : 200

FOR OFFICE USE ONLY

DRAWING TITLE

FOUNDATION LAYOUT PLAN WITH REINFORCEMENT DETAILS.

SCALE.–1:100 OR AS SHOWN
DATE.–02.09.2025
SHEET NO.– 1 OF 3
SHEET SIZE– A1