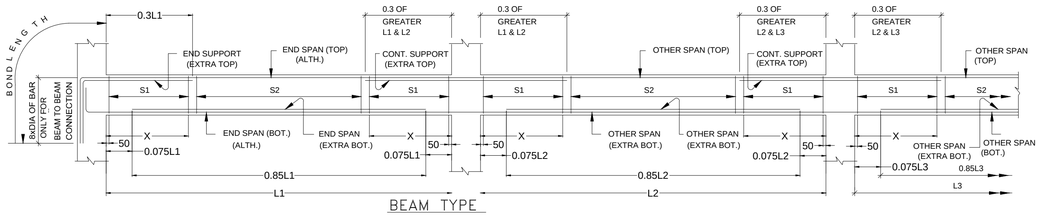
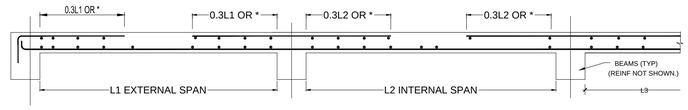


BEAM TYPE

(MULTIPLE SPAN BEAM)

CURTAILMENT DETAILS FOR BEAM



TYPICAL DETAILS OF SLABS

(BOND LENGTH WITH WHICHEVER IS GREATER)

SCHEDULE OF FOUNDATION

DEPTH OF FOUNDATION 1.5 M. BELOW E.G.L.

MKD.	OF FND.	DEPTH	FOUNDATION L(M.)	FOUNDATION W (M.)	OF SLAB (MM.)	LONGER DIRECTION	SHORTER DIRECTION
F-1	ISOLATED FOOTING	1500	2.6	2.6	250 TO 450	12 T * 125 MM. C/C	12 T * 125 MM. C/C
F-2		1500	2.8	2.8	250 TO 500	12 T * 100 MM. C/C	12 T * 100 MM. C/C
F-3	COMBI. FTG.	1500	AS PER DRG.		450	12 T * 150 MM. C/C	12 T * 100 MM. C/C
F-4 (MKD -X)	RAFT FTG	P.L. TO TOP OF FDN SLAB 1600	AS PER DRG.		450	12 T * 150 MM. C/C (T&B)	12 T * 150 MM. C/C (T&B)

SCHEDULE OF SLAB & WALL

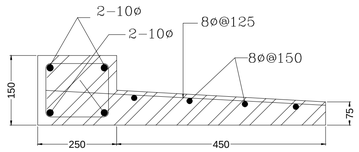
SLAB MKD.	THICK. IN MM.	REINF. ALONG SHORTER DIRET. AT SPAN	AT SUPPORT	REINF. ALONG LONGER DIRET. AT SPAN	AT SUPPORT
S1	110	8 T * 150 MM. C C (BOTTOM)	8 T * 150 MM. C C (TOP) 8 T * 300 MM. C C (BOTTOM)	8 T * 150 MM. C C. (BOTTOM)	8 T * 150 MM. C C. (TOP) 8 T * 300 MM. C C (BOTTOM)
S2	125	10 T * 100 MM. C C BOTTOM)	10 T * 100 MM. C C (TOP) 10 T * 200 MM. C C (BOTTOM)	10 T * 100 MM. C C. (BOTTOM)	10 T * 100 MM. C C. (TOP) 10 T * 200 MM. C C (BOTTOM)
STAIR (SC)	150	LONG MAIN REINF - 10 T * 100 MM.C.C. DIST REINF - 8 T * 150 MM.C.C.			
LIFT WALL	150	VERTICA MAIN REINF - 10 T * 150 MM.C.C. (BW) HORIZONTAL DIST. REINF - 8 T * 150 MM.C.C. (BW)			
RAFT (FTG -F4)	450	TOP REINF - 12 T * 150 MM.C.C. (BW) BOT REINF -12 T * 150 MM.C.C. (BW)			

STRUCTURAL PLAN FOR PROPOSED G+IV STORIED RESIDENTIAL BUILDING OF PRANAB KUMAR KAR AT MOUZA - SUBUDDHIPUR, J.L NO-32, R.S. & L.R. DAG NO.- 417/1186,R.S.KH. NO.-28,L.R.KH. NO.-5452,WARD NO.- 02, HOLDING NO.-511,UNDER BARUIPUR MUNICIPALITY,P.S -BARUIPUR, DIST 24 PGS(S).

SCHEDULE OF BEAM

BEAM MKD.	SIZE OF BEAM (MM. X MM.)	SUPPORT LONG REINF. TOP	SUPPORT LONG REINF. BOTTOM	SPAN LONG REINF. TOP	SPAN LONG REINF. BOTTOM	STIRRUPS END L/4	STIRRUPS MID L/2
B-1	250 (WIDTH) X 400 (DEPTH)	2- 16 T 2 - 16 T	2 - 16 T	2- 16 T	2 - 16 T 2-16 T	8 T * 125 MM. CC.	8 T * 175 MM. C.C.
B-2	250 (WIDTH) X 400 (DEPTH)	3- 16 T 2-16 T	3 - 16 T	3- 16 T	3 - 16 T 2-16 T		
B-3	250 (WIDTH) X 400 (DEPTH)	3- 16 T 3-16 T	3 - 16 T	3- 16 T	3 - 16 T 3-16 T		
B-4	250 (WIDTH) X 450 (DEPTH)	3- 16 T 3-20 T	3 - 16 T	3- 16 T	3 - 16 T 3-20 T		
TB1	250 (WIDTH) X 400 (DEPTH)	3- 16 T	3 - 16 T	3- 16 T	3 - 16 T		
TB2	250 (WIDTH) X 400 (DEPTH)	4- 16 T	4 - 16 T	4- 16 T	4 - 16 T		
R2	400 (WIDTH) X 700 (DEPTH)	4- 16 T	4 - 16 T + 4-16 T	4- 16 T 4-16 T	4 - 16 T	X	Y

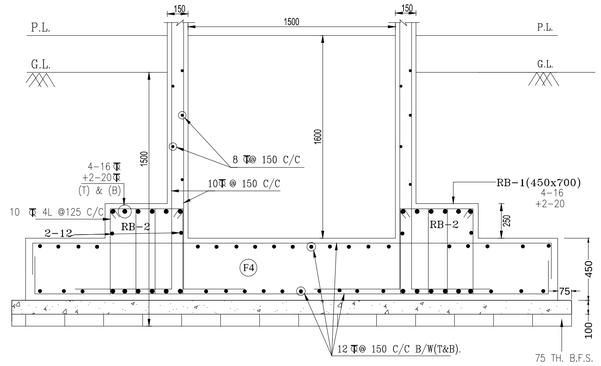
X - 4L-8 T * 125 MM. C.C.
Y - 4L-8 T * 175 MM. C.C.



C/S OF LINTEL CHAJJA

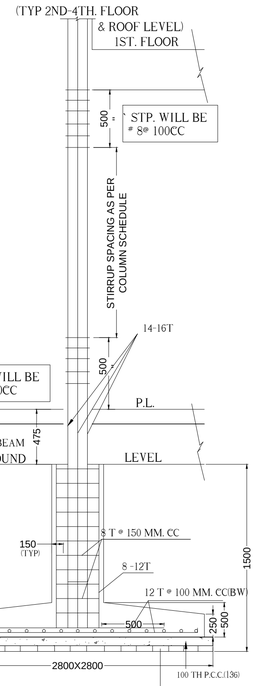
SCHEDULE OF COLUMNS

COLUMN SIZES WITH REINFORCEMENTS			STIRRUPS
COL. MKD.	FROM FND. TO 2ND. FLOOR	FROM 2ND. FLOOR TO ROOF	
C1	250 X 450 12 -16 T	250 X 450 10- 16 T	8 T @ 150 MM. CC.

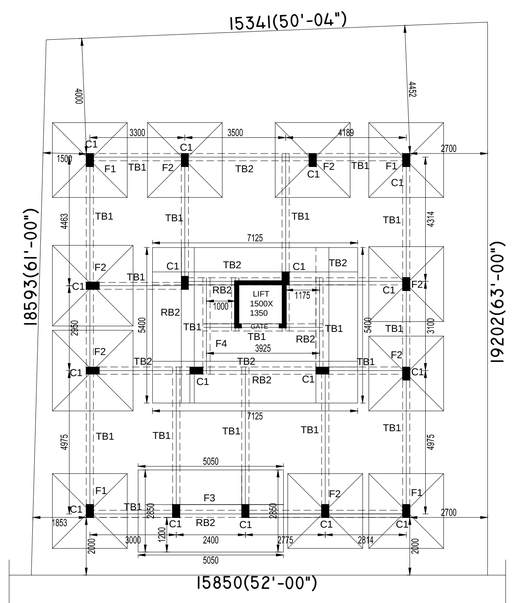


LIFT FDN-MKD-F4 (RAFT) SECTION

(MKD. X)

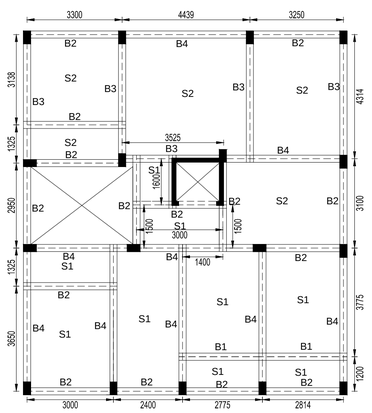


SECTION : A-A



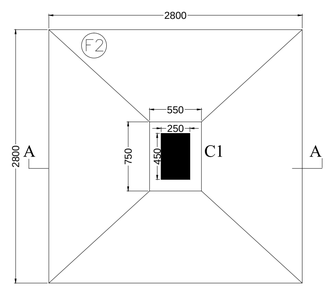
FOUNDATION LAYOUT PLAN

SCALE - 1:100



REINFORCEMENT PLAN

SCALE - 1:100



SECTION THRO' F2 UNDER C1

Genaral Specification

1. *ALL DIMENSIONS ARE IN MILLIMETER.*
2. *THE DEPTH OF FOUNDATION OF SEPTIC TANK SHOULD NOT EXCEED THE DEPTH OF FOUNDATION OF BUILDING.*
3. *GRADE OF CONCRETE IS M-20 CONFORMING IS :456-1978.*
4. *GRADE OF REINFORCEMENT STEEL SHALL BE H.Y.S.D. BARS (#) Fe-415,CONFORMING IS :1786-1985.*
5. *PLAN CEMENT CONCRETE SHALL BE (1:3:6) WITH PICKED KHOA.*
6. *NOMINAL MIX OF CONCRETE GRADE M - 20 (1: 1.5 : 3)*
7. *P. C. C. = 75 MM. THICK (1 : 3 : 6)*
8. *B. CLEAR COVER FOR REINFORCEMENT.*
   1) FOUNDATION SLAB = 40 MM.
   2) FOUNDATION BEAM = 50 MM.
   3) FLOOR BEAM = 25 MM.
   4) FLOOR SLAB = 15 MM.
   5) COLUMN = 40 MM.
9. *SOIL BEARING CAPACITY = 9.06 T / M2*
10. THE LAPS SHALL BE STAGGERED. NOT MORE THAN 1/3 OF THE TOTAL REINFORCEMENT SHALL BE LAPPED AT A SINGLE SECTION.
11. ALL STIRRUP/HOOPS SHALL BE PROVIDED AS PER IS:13920-1993.
12. SUITABLE FOUNDATION IS TO BE PROVIDED UNDER PARTION WALLS THOSE ARE NOT LOCATED OVER THE TIE BEAM.

SPACE FOR OFFICE SEAL

STRUCTURAL ENGINEER STABILITY CERTIFICATE

THE STRUCTURAL DRAWING AND DESIGN OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE WIND LOAD, SEISMIC LOAD AS PER THE N B C OF INDIA . I CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT

(GOPAL CH. BAG)
BE(Civil),ME(Structure) Tel:9123316954
ESE-II/GTE-II(Baruipur Municipality)

ARCHITECT/L. B. S. CERTIFICATE

THE PLOT IS A VACANT LAND. THE PLOT IS BOUNDADED BY BOUNDARY WALL BOUNDARY MEASUREMENT AGREED WITH THE REGD. SITE AND NOT A TANK OR FILLED UP TANK. CERTIFIED BY ME WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISIONS OF THE BARUIPUR MUNICIPALITY BUILDING RULES AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF ABUTTING MUNICIPAL ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE

'N

SIGNATURE OF ARCHITECT/L.B.S(BM)

SIGNATURE OF OWNERS

TITLE: STRU

SCALE