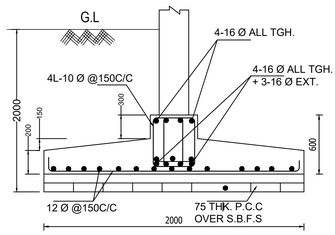
BEAM NO		LEFT	MIDDLE	RIGHT
B1	TOP	2-16Ø+ 2-16Ø	2-16Ø	2-16Ø+ 2-16Ø
	BOTTOM	2-16Ø	2-16Ø+ 2-16Ø	2-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B2	TOP	2-16Ø+ 2-16Ø	2-16Ø	2-16Ø+ 2-16Ø
	BOTTOM	3-16Ø	3-16Ø	3-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B3	TOP	2-16Ø+ 3-16Ø	2-16Ø	2-16Ø+ 3-16Ø
	BOTTOM	3-16Ø	3-16Ø	3-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B4	TOP	3-16Ø+ 3-16Ø	3-16Ø	3-16Ø+ 3-16Ø
	BOTTOM	3-16Ø	3-16Ø+ 2-12Ø	3-16Ø
	STIRRUP	2L 8Ø @ 100C/C	2L 8Ø @ 150C/C	2L 8Ø @ 100C/C
	SIZE	250 X 450		

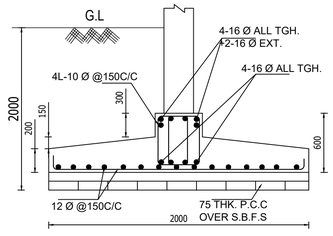
B5	TOP	2-16Ø+ 1-16Ø	2-16Ø	2-16Ø+ 1-16Ø
	BOTTOM	2-16Ø	2-16Ø	2-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 125C/C	2L 8Ø @ 125C/C
	SIZE	200 X 400		

BEAM NO		SUPPORT	SPAN	SUPPORT
FB2	TOP	4-16Ø	4-16Ø+ 2-12Ø	4-16Ø
	BOTTOM	4-16Ø+ 2-16Ø	4-16Ø	4-16Ø+ 2-16Ø
	STIRRUP	4L 10Ø @ 150C/C	4L 10Ø @ 150C/C	4L 10Ø @ 150C/C
	SIZE	450 X 650		

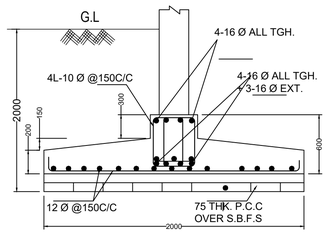
BEAM NO		LEFT	MIDDLE	RIGHT
B6	TOP	2-12Ø+ 1-12Ø	2-12Ø	2-12Ø+ 1-12Ø
	BOTTOM	2-12Ø	2-12Ø+ 1-12Ø	2-12Ø
	STIRRUP	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C
	SIZE	250 X 400		



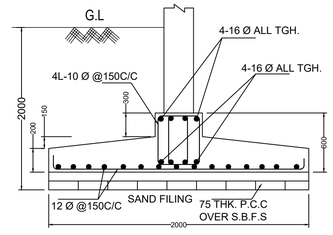
CROSS SECTION THROUGH FOUNDATION BEAM FB(450X650) AT SUPPORT



CROSS SECTION THROUGH FOUNDATION BEAM FB(450X650) AT SPAN



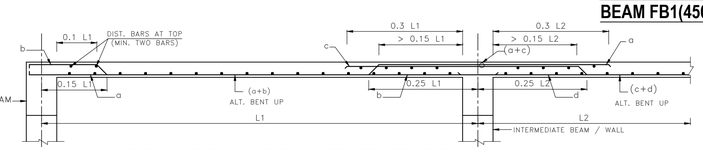
CROSS SECTION THROUGH FOUNDATION BEAM FB1(450X650) AT SUPPORT



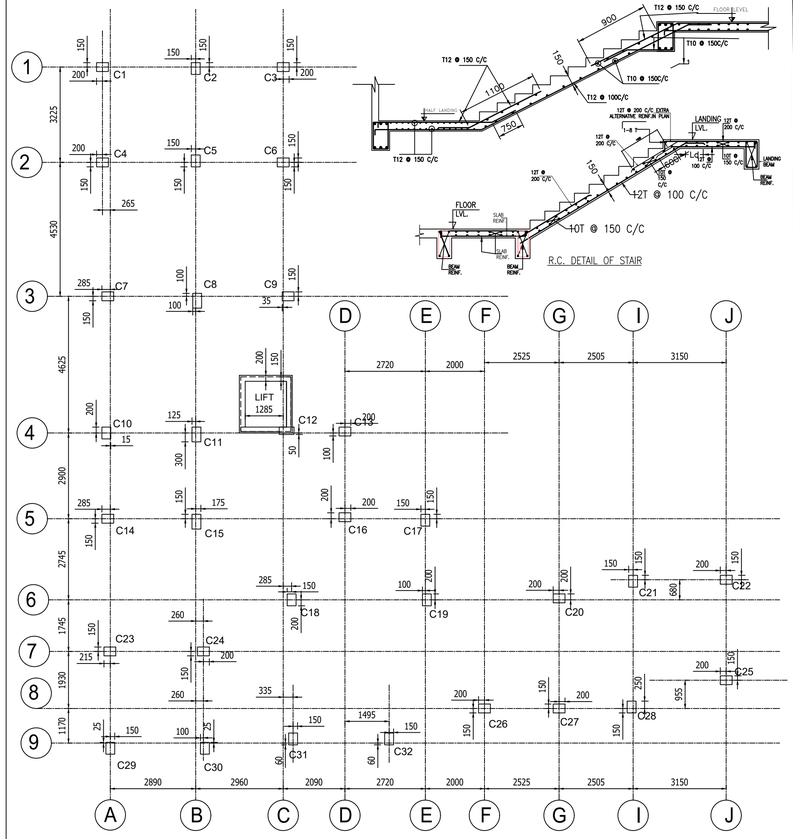
CROSS SECTION THROUGH FOUNDATION BEAM FB1(450X650) AT SPAN

SCHEDULE OF SLAB

SLAB MKD.	SLAB THK.	REINFORCEMENT			
		LONG SPAN(BOT.)	LONG SPAN(EXTRA TOP)	SHORT SPAN(BOT.)	SHORT SPAN(EXTRA TOP)
S1	125	8 Ø 150 C/C ALL TGH.	8 Ø 125 C/C .(TOP)	8 Ø 125 C/C ALL TGH.	8 Ø 125 C/C ALL TGH.
ALL OTHER	115	8 Ø 150 C/C ALL TGH.	8 Ø 150 C/C .(TOP)	8 Ø 150 C/C ALL TGH.	8 Ø 150 C/C ALL TGH.

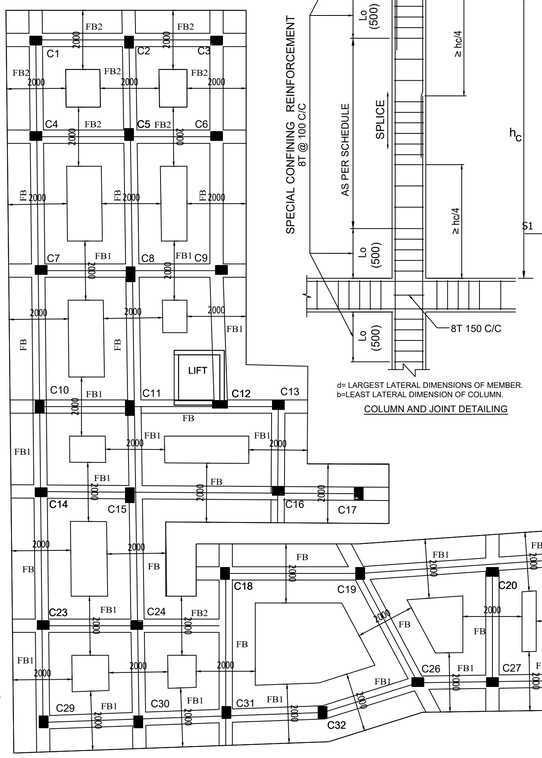


TYPICAL DETAIL OF SLAB REINFORCEMENT



COLUMN LAYOUT

BEAM NO		LEFT	MIDDLE	RIGHT
TIE BEAM (AT GROUND LEVEL+00) CONNECT COLUMN TO COLUMN	TOP	2-16Ø+ 1-16Ø	2-16Ø	2-16Ø+ 1-16Ø
	BOTTOM	2-16Ø	2-16Ø+ 1-16Ø	2-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 350		

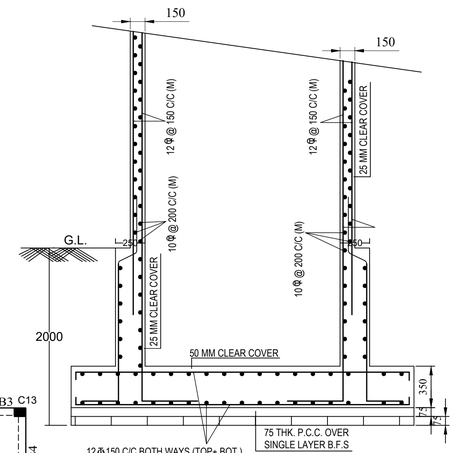


FOUNDATION LAYOUT

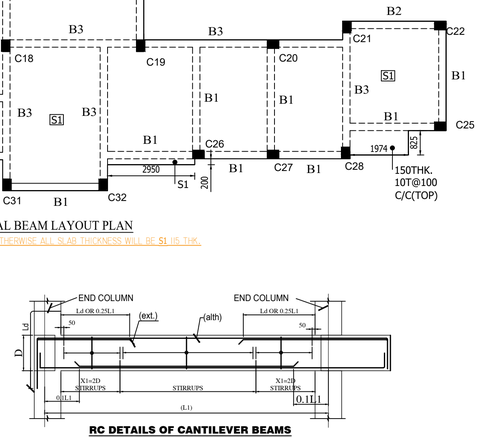
COLUMN AND JOINT DETAILING

TYPICAL BEAM LAYOUT PLAN

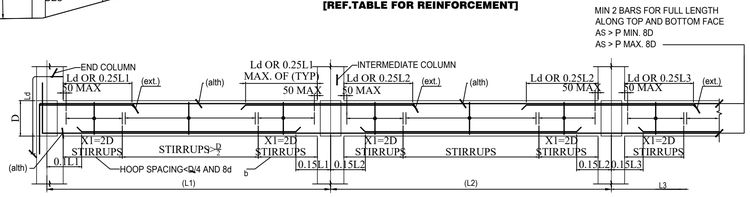
UNLESS OTHERWISE ALL SLAB THICKNESS WILL BE **S1** I/5 THK.



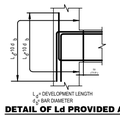
DETAILS OF LIFT



RC DETAILS OF CANTILEVER BEAMS
[REF.TABLE FOR REINFORCEMENT]

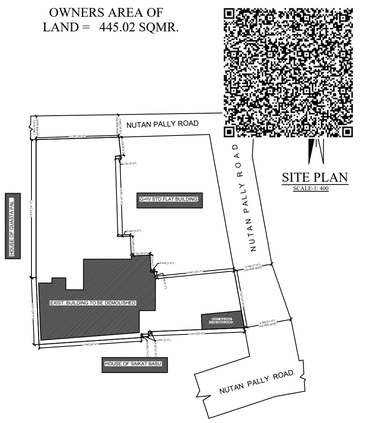


TYPICAL RC DETAILS OF MULTI-SPAN BEAMS
[REF.TABLE FOR REINFORCEMENT]



DETAIL OF Ld PROVIDED AT COLUMN BEAM JUNCTION

COLUMN MKD.	COLUMN SIZE	REINFORCEMENT			
		GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	3rd to ROOF
C1,C2,C3,C4,C6, C9,C10,C13,C14, C17,C20,C21, C22,C23,C25, C26,C27,C28, C29,C30,C31	300 X 400 (C12 250 X 400)	8-16 Ø	8-16 Ø	4-16 Ø + 4-12 Ø	4-16 Ø + 4-12 Ø
C5,C7,C16,C18, C19,C24,C32,	300 X 400	10-16 Ø	10-16 Ø	8-16 Ø	8-16 Ø
C8,C11,C15	300 X 500	10-16 Ø	10-16 Ø	8-16 Ø	8-16 Ø



STRUCTURAL DRAWING FOR THE PROP. G+III STD. RESIDENTIAL FLAT BUILDING OF 1) SUHAS RANJAN BISWAS, S/O- LATE SUCHINDRA NATE BISWAS, 2) BIPASA BISWAS, D/O- SUHAS RANJAN BISWAS, AT MAHALLA:-KALIBAZAR EAST LANE, WARD NO.:-8, HOLDING NO.:-179, ON MOUZA:-RADHANAGAR, J.L. NO.:-39, R.S. PLOT NO.:-7331/7756, R.S. KH. NO.:-942, L.R. PLOT NO.:-7449, L.R. KH. NO.:-7607,7608, P.S. & DIST:-BURDWAN, UNDER BURDWAN MUNICIPALITY.

NOTE :-

1. ALL DIM. ARE IN MM AND LEVELS ARE ALSO IN MM UNO.
2. WRITTEN DIM. SHALL BE FOLLOWED.
3. ANY DISCREPANCY IN THIS DRG. SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT/ENGINEER.
4. AS PER COUNCIL OF ARCHITECTURE ACT 1972 PASSED BY PARLIAMENT THE DRG. IS THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED REPRODUCED FOR ANY PURPOSE OTHER THAN THE PRESENT USE.
5. HIGH YIELD STRENGTH DEFORMED BARS OF YIELD STRESS 500 (Fe-500D) N/MM2 WHICH SHALL CONFORM TO 1786-2008 SHALL BE USED AS REINFORCEMENT.
6. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS. (a) FOUNDATION = 50 mm. (b) COLUMN = 40 mm. (c) BEAM = 25 mm. (d) SLAB = 20 mm. (e) WAIST SLAB = 20 mm. (f)FOUNDATION BOTTOM =50 mm.
7. LAP/DEVELOPMENT LENGTH 'Ld' FOR DIFFERENT DIA. OF BARS FOR M-25 SHALL BE AS FOLLOWS.

Dia (MM)	8ø	10ø	12ø	16ø	20ø	25ø
Ld (MM)	400	500	600	800	1000	1250

8. CONC. MIX FOR R.C.C. WORK SHALL BE OF GRADE M-25 DESIGN MIX CONFORMING TO I.S. 456 - 2000.
9. NECESSARY FIXTURE FOR ELECTRICAL, PLUMBING, ETC. SHALL BE PROVIDED IN SLAB, BEAMS BEFORE EXECUTION AS PER RELEVANT DWGS.
10. AT JOINT, CORNER & AT JAMB OF OPENING IN WALL SINGLE BAR #12 PROVIDED AS VERTICAL STEEL.
11. FOR LOCATION OF BEAMS REFER GRID PLAN.
12. WHERE TWO LAYERS OF REINF. BARS ARE TO BE PROVIDED, SPACER BAR ARE TO BE PROVIDED AT SPACING OF 1000 mm. MAX. AND THE DIA OF THE SPACER BAR SHALL BE HIGHER OF DIA OF LONGITUDINAL BARS OR 25 mm.
13. THE GRID LAYOUT SHOULD BE READ IN CONJUNCTION WITH ARCH. GRID PLAN WHICH WILL BE CONSIDERED FINAL.
14. DO NOT SCALE THE DRAWING, ONLY FIGURED DIMENSIONS TO BE FOLLOWED, IF ANY DOUBT, ASK FOR CLARIFICATION.
15. ALL LEVELS ARE TO BE FIXED WITH RESPECT TO BENCHMARK ESTABLISHED AT SITE.
16. FINISHED GROUND LEVEL TO BE CONSIDERED AS (±)0.00M. LEV. WHICH IS CONSIDERED AS EXISTING AVERAGE G.L. AT SITE.
17. ALL OUTER WALL SHALL BE WITH Autoclaved Aerated Concrete (AAC) Block Work.

SPECIAL NOTE :- TIE BEAM LAYOUT MUST BE DONE IN ACCORDANCE WITH APPROVED DEPARTMENTAL ARCHITECTURAL MASTER PLAN WITH PERMANENT BENCHMARK ESTABLISHED AT SITE.

CERTIFIED THAT THE STRUCTURAL DESIGN & DRAWING OF THE BUILDING HAS BEEN CHECKED BY ME BASED ON CONSIDERATION & RECOMMENDATION AS PER NATIONAL BUILDING CODE & RELEVANT I.S. CODES. THE BUILDING IS SAFE & STABLE STRUCTURE IN ALL