FOOTING SCHEDULE (M25:Fe500)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION				PEDESTAL SIZE (L x B) ** HEIGHT AS PER REQUIRED	FOOTING REINFORCEMENT	
			L	B	D1	D		BOTTOM	
								ALONG B	ALONG L
F1	C1,C16	SLOPED	2000	2000	200	350	500x450 4NOS10ΦΓ┐BAR B/W	T12@150 C/C	T12@150 C/C
F2	C2,C6,C11	SLOPED	2100	2100	200	350	550x450 4NOS10ΦΓ┐BAR B/W	T12@150 C/C	T12@150 C/C
F3	C3,C5,C12,C20	SLOPED	2200	2200	225	400	550x450 4NOS10ΦΓ┐BAR B/W	T12@150 C/C	T12@150 C/C
F4	C4,C7,C10,C15	SLOPED	2400	2400	225	400	550x450 4NOS10ΦΓ┐BAR B/W	T12@150 C/C	T12@150 C/C
F5	C17	SLOPED	2500	2500	225	400	550x450 4NOS10ΦΓ┐BAR B/W	T12@125 C/C	T12@125 C/C
F6	(C3+C8+C13+C18) & (C4+C9+C14+C19)	STRIP	AS PER DRAWING		250	425		T12@125 C/C	T12@125 C/C

FOUNDATION BEAM SCHEDULE (M25:Fe500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B1	D2	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
SB1	500	600	+ 5-T16 5-T16	5-T16	5-T16	+ 5-T16 5-T16	4L-T8@125 C/C	4L-T8@150 C/C

TIE BEAM SCHEDULE (M25:Fe500)

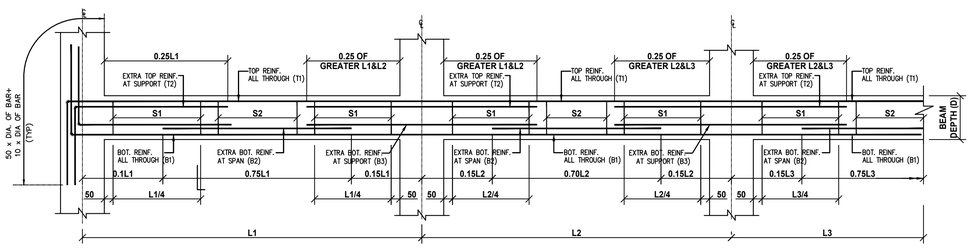
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
TB1	250	350	3-T16	+ 3-T16 2-T12	3-T16	+ 3-T16 2-T12	3-T16	+ 3-T16 2-T12	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
TB2	250	350	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
TB3	250	350	3-T12	3-T12	3-T12	3-T16	3-T16	3-T16	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
TB4	250	350	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C

FLOOR BEAM SCHEDULE (M25:Fe500)

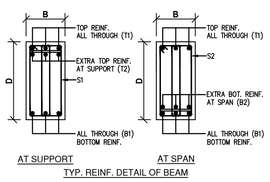
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
B1	250	450	3-T16	+ 3-T16 3-T16	3-T16	+ 3-T16 3-T20	3-T16	+ 3-T16 3-T20	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
B2	250	350	3-T16	+ 3-T16 2-T12	3-T16	+ 3-T16 2-T16	3-T16	+ 3-T16 2-T16	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
B3	250	300	3-T16	3-T16	3-T16	+ 3-T16 2-T16	3-T16	+ 3-T16 2-T16	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
B4	250	300	3-T16	3-T16	3-T16	+ 3-T16 2-T12	3-T16	+ 3-T16 2-T12	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
B5	250	300	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C
B6	250	300	3-T16	3-T16	3-T16	3-T12	3-T12	3-T12	2L- T8 @ 125 C/C	2L- T8 @ 150 C/C

FLOOR SLAB SCHEDULE (M25 : Fe500)

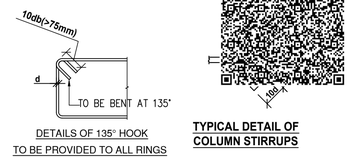
SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT	OVER SHORT SUPPORT
S1	115	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C
S2	115 to 150	T8 @ 150 C/C	T8 @ 150 C/C	T10 @ 150 C/C	T10 @ 150 C/C



TYP. R.C.C DETAIL OF BEAM

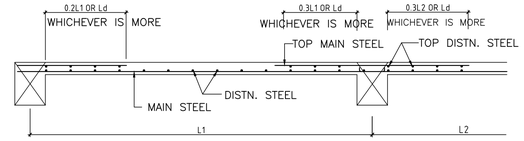


TYP. REINF. DETAIL OF BEAM



DETAILS OF 135° HOOK
TO BE PROVIDED TO ALL RINGS

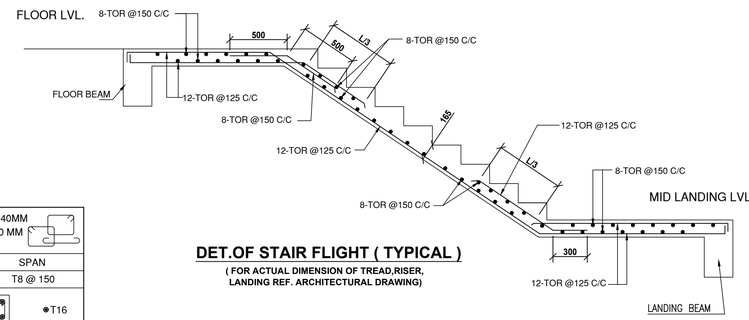
TYPICAL DETAIL OF COLUMN STIRRUPS



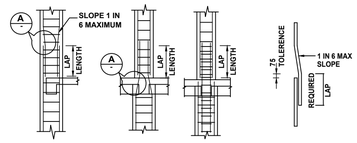
TYP. SEC. OF SLAB ALONG SHORTER DIRECTION

COLUMN SCHEDULE (M25:Fe500)

	M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM	
STAIR ROOF TO FOUNDATION	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT	SPAN
	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150
	300 400 ●T16		250 350 ●T16 ○T12		250 350 ●T16	
	10-T16		8-T16 + 2-T12		8-T16	
COLUMN MARKED	C9,C13,C14,		C2,C3,C4,C5,C7,C8,C10, C12,C15,C18,C19,C20		C1,C6,C11,C16,C17	

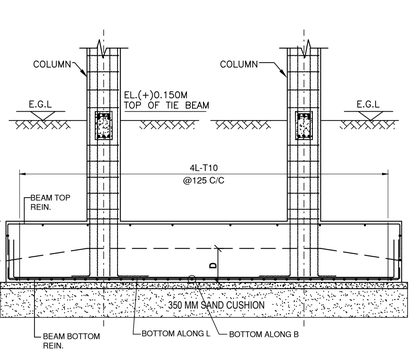


DET.OF STAIR FLIGHT (TYPICAL)
(FOR ACTUAL DIMENSION OF TREAD,RISER, LANDING REF. ARCHITECTURAL DRAWING)

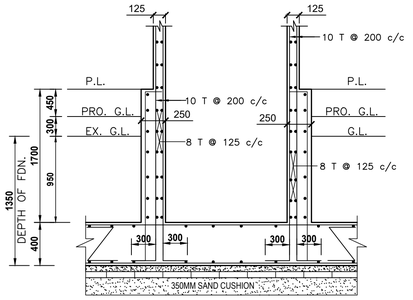


COLUMN SPLICES DETAIL -A

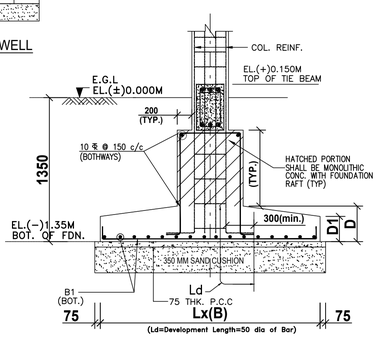
ALL CONNECTION OF MAIN & SECONDARY BEAM



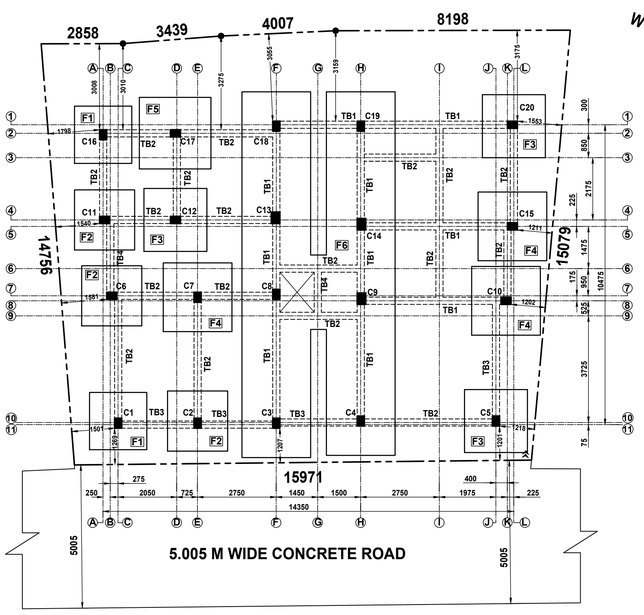
SIDE VIEW OF STRIP FOOTING
(TYPICAL SECTION)



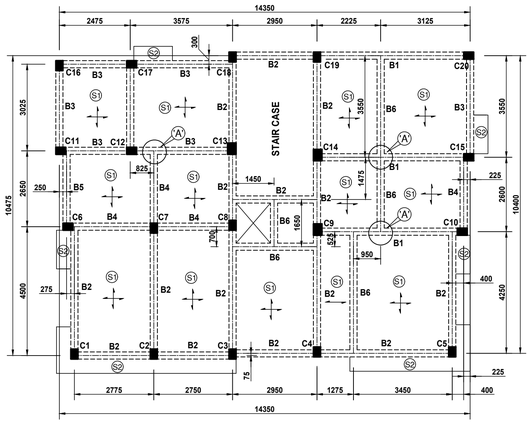
REINFORCEMENT DETAILS OF LIFT WELL
[TYPICAL SECTION]



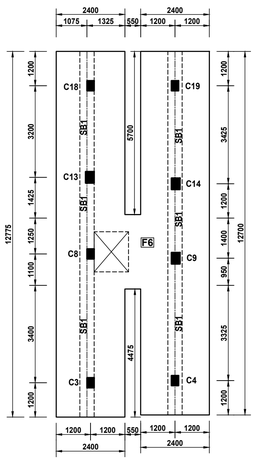
SECTION 1-1



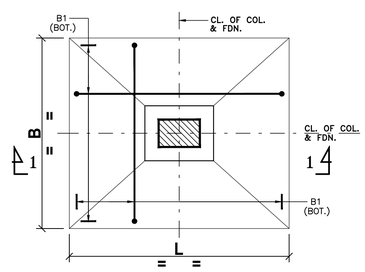
FOUNDATION & TIE BEAM LAYOUT PLAN
SCALE - 1:100



SLAB BEAM LAYOUT PLAN
SCALE = 1:100



PLAN VIEW OF STRIP FOOTING (F6)



TYPICAL ISOLATE FOOTING PLAN

NOTES :-

A. GENERAL:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

B. CONCRETE WORK:

1. ALL CONCRETE WORK SHALL BE AS PER IS:456 (LATEST REVISION)
2. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
   a). THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
3. PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
   a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
   b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
4. THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	–	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

C. REINFORCEMENTS:

1. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
2. (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS Fe= 500 N/MM^2) SHALL CONFORM TO IS:1786. (LATEST REVISION)
3. LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
4. ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
5. THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:–

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M–25	41XD	33XD

6. LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
7. LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
8. DEVELOPMENT LENGTH (Ld) = 50xDIA OF THE BAR+10xDIA OF THE BAR.
9. ALL SPACER BARS ARE 25Dia @450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.

CERTIFICATE OF GEO-TECHNICAL ENGINEER :-

UNDERSIGNED HAS INSPECTED THE SITE CARRIED OUT THE SOIL INVESTIGATION THEREIN. IT IS CERTIFIED THAT THE EXISTING SOIL OF THE SITE IS ABLE TO CARRY THE LOAD COMING FROM THE PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM PROPOSED THEREIN IS SAFE AND STABLE IN ALL RESPECT FROM GEO -TECHNICAL POINT OF VIEW.

SUBHANKAR ROY
MCE, ME, M. TECH, BCE, LL.B,
LMIGS -2125, LMSOCE (JU), MIE (IND), MIRC, MCEAI, MIAEng, MIITArb.
RAJPUR SONARPUR MUNICIPALITY
24 / RJPSON / G.T - I / 2018 - 19
MOBILE NO. 9038331009

CERTIFICATE OF STRUCTURAL ENGINEER :-

CERTIFIED WITH FULL RESPONSIBILITY THAT THE STRUCTRUAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME , CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

KALLOL KUMAR GHOSAL
B. E. (CIVIL)
RAJPUR SONARPUR MUNICIPALITY
ENLISTMENT NO. 019 / RJPSON / ESE - II / 2018-19
MOBILE NO. 9477913661

NAME OF OWNER - JAYANTI BOSE
ALIAS JAYANTI BOSE MONDAL

NAME OF APPLICANT / C.A. -
SMT. MOUMITA DAS, SMT. PAMPA SARDAR, SMT. SANCHITA SADHAK & SMT. JAYA SINGH (PARTNERS OF M/S. BASUNDHARA CONSTRUCTION) AS CONSTITUTED POWER OF ATTORNEY OF JAYANTI BOSE ALIAS JAYANTI BOSE MONDAL

MANASH M. G. MAJUMDER
L. B. S. (CLASS - I)
L. B. S. NO.- 119 / RJPSON / EBS / 94 - 95
E-30A, RAMGARH,
POST OFFICE - NAKTALA, KOLKATA - 700047
MOBILE NO.- 9830429400

STRUCTURAL DRAWING FOR G+III STORIED RESIDENTIAL BUILDING (HEIGHT- 12.500 M) AT HOLDING NO.- 85, NARIKEL BAGAN, WARD NO.- 30, P.S.- PREVIOUS SONARPUR NOW NARENDRAPUR, DIST.- SOUTH 24 PARGANAS, PINCODE - 700153, MOUZA- LASKARPUR, J.L. NO.- 57, C.S. PLOT NO.- 69 (PART), L.O.P. NO.- 1773 & 1773A, UNDER RAJPUR- SONARPUR MUNICIPALITY

Drawn by	Checked by	Approved by – date	Filename	Date	Scale
Bikash Halder	M.M.G.M.	M.M.G.M. – 08/05/24	S-S / 06 / RSM / 01 / 24-25	06/05/2024	1:100 ,50,600,4000

Space- S
A House of Civil & Architectural Consultancy
E-30A, RAMGARH , KOLKATA-700 0047.
(M) - 9830429400, 9088015153

LAYOUT PLANS, TYPICAL SECTIONAL, DETAILS & SCHEDULES

PREMISES NO.- 85, NARIKEL BAGAN | Revision 0 | Sheet 1/1

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.