

**FOOTING SCHEDULE (M25:Fe500)**

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION				PEDESTAL SIZE (L x B) ** HEIGHT UPTO TIE BEAM	FOOTING REINFORCEMENT	
			L	B	D1	D		ALONG B	ALONG L
F1	C1,C3,C6,C16,C18	SLOPED	2400	2400	200	350	600x450 4NOS10 $\phi$ 1BAR B/W	T12@150 C/C	T12@150 C/C
F2	C2,C4,C7	SLOPED	2700	2700	200	400	600x450 4NOS10 $\phi$ 1BAR B/W	T12@125 C/C	T12@125 C/C
F3	C5	SLOPED	3000	3000	250	500	700x450 4NOS10 $\phi$ 1BAR B/W	T16@150 C/C	T16@150 C/C
F4	C7+C8+C9+C10+C11+C12	RAFT	10825	4600	300	300	TOP BOTTOM	T10@150 C/C T12@125 C/C	T10@150 C/C T12@125 C/C
F5	C13+C14+C15	STRIP	10625	2100	300	300	BOTTOM	T12@125 C/C	T12@150 C/C

**FOUNDATION BEAM SCHEDULE (M25:Fe500)**

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B1	D2	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)		
LB1/LB2 (INVERTED)	250	400	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
RB1/RB2	600	600	+5-T16 +4-T16	+5-T16 +4-T16	+5-T16 +4-T16	+5-T16 +4-T16	4L-T10@125 C/C	4L-T10@150 C/C
FB2	600	600	+6-T16 +6-T16	+6-T16 +6-T16	+6-T16 +6-T16	+6-T16 +6-T16	4L-T10@125 C/C	4L-T10@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	400	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	400	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
TB3	250	400	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
TB4	250	300	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C

**FLOOR SLAB SCHEDULE (M25 : Fe500)**

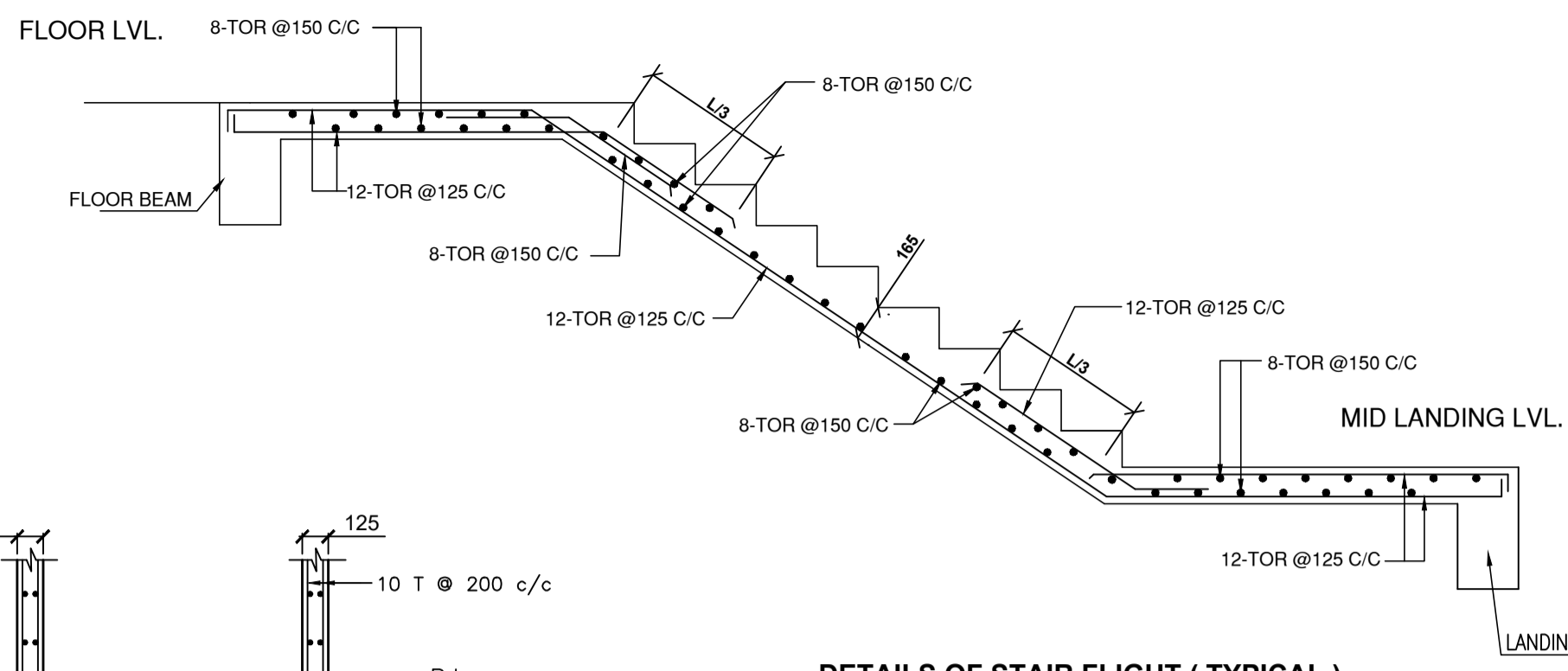
SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT	OVER SHORT SUPPORT
S1	120	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C
S2	125	T8 @ 150 C/C	T8 @ 150 C/C	T10 @ 150 C/C	T10 @ 150 C/C

**COLUMN SCHEDULE (M25:Fe500)**

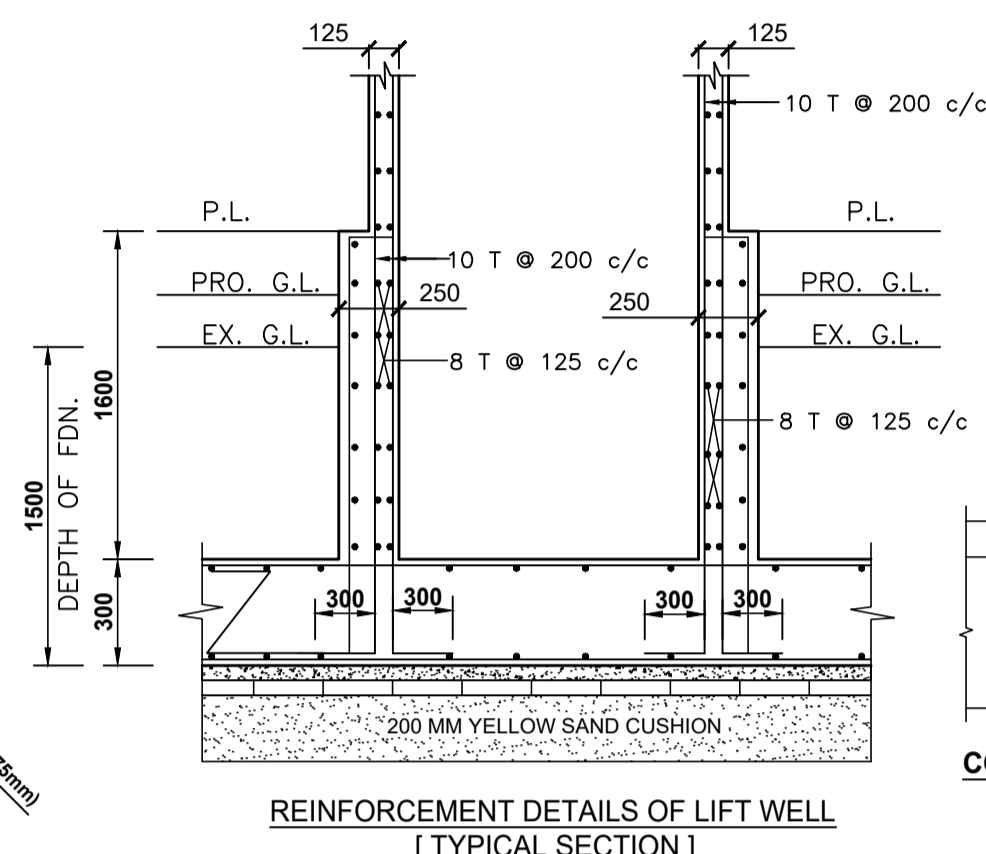
STAIR ROOF TO FOUNDATION	M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM	
	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT	SPAN
	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150
	10-T16 + 2-T12	8T16 + 2-T12	4T16 + 6-T12			
COLUMN MARKED	C5,C8,C11,C14	C2,C4,C7,C9,C10,C12,C13,C15,C17	C1,C3,C6,C16,C18			

**FLOOR BEAM SCHEDULE (M25:Fe500)**

BEAM NUMBERS	SIZE	BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
		LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
B1	250 400	3-T16	+3-T16 +2-T16	3-T16	+3-T16 +3-T16	3-T16	+3-T16 +3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B2	250 400	3-T16	3-T16	3-T16	+3-T16 +3-T16	3-T16	+3-T16 +3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B3	250 350	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	250 350	3-T16	+3-T16 +2-T16	3-T16	+3-T16 +2-T16	3-T16	+3-T16 +2-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B5	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
B6	250 350	3-T16	3-T16	3-T16	3-T12	3-T12	3-T12	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C



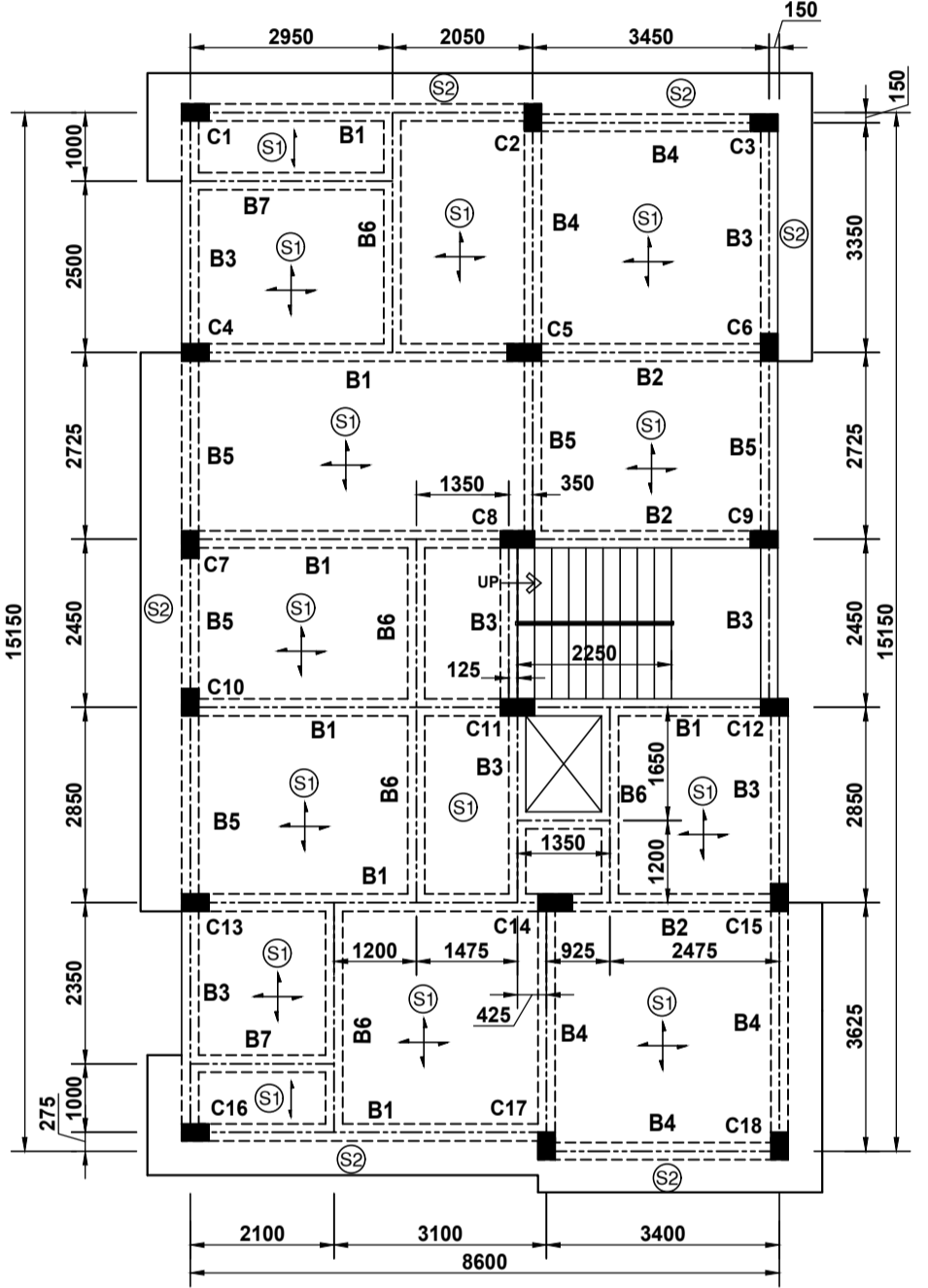
**DETAILS OF STAIR FLIGHT ( TYPICAL )**  
( FOR ACTUAL DIMENSION OF TREAD/RISER, LANDING REF. ARCHITECTURAL DRAWING )



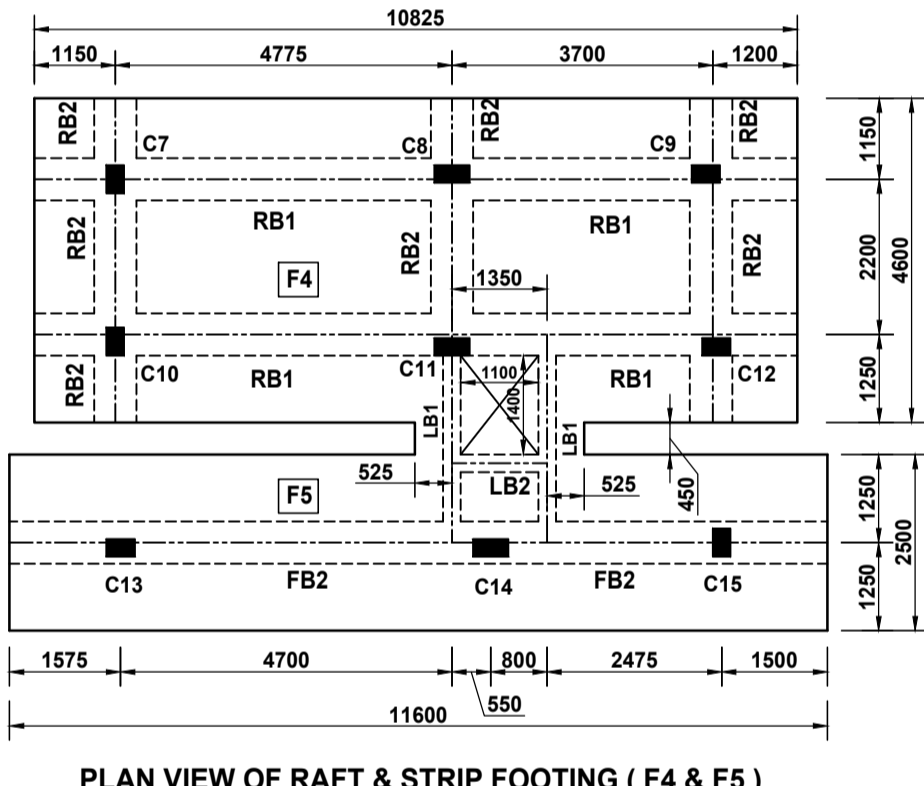
**CONNECTION OF MAIN & SECONDARY BEAM**

**REINFORCEMENT DETAILS OF LIFT WELL [ TYPICAL SECTION ]**

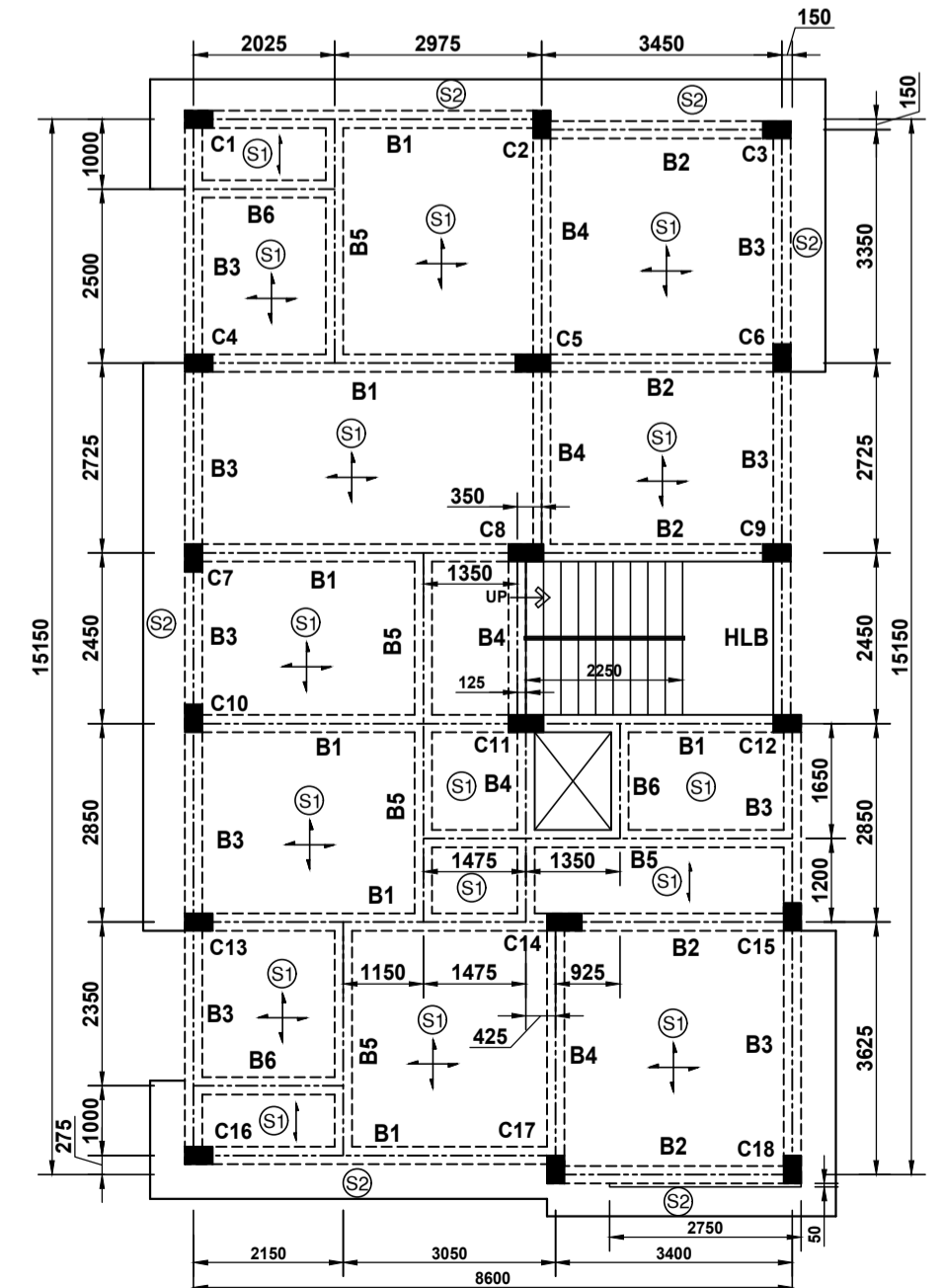
**DETAILS OF 135° HOOK TO BE PROVIDED TO ALL RINGS**



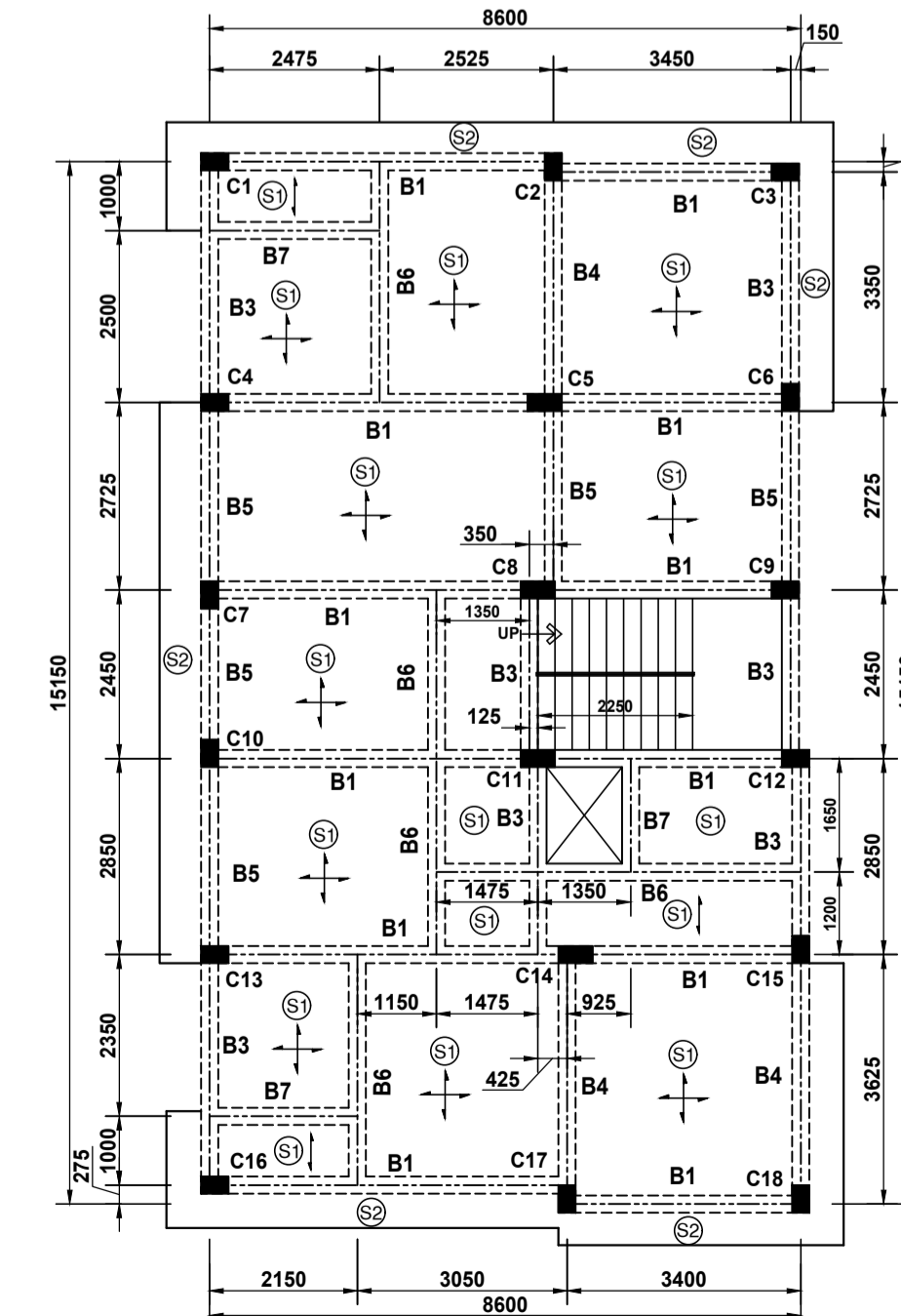
**SLAB BEAM LAYOUT PLAN ( 5TH. SLAB LEVEL )**  
SCALE - 1:100



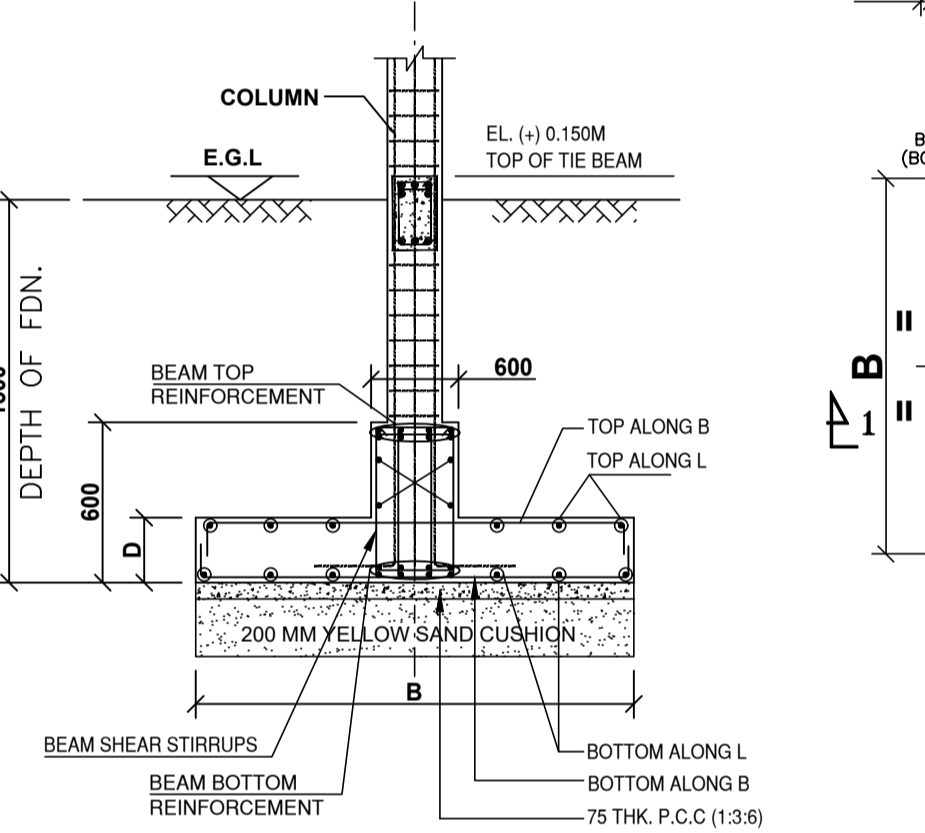
**PLAN VIEW OF RAFT & STRIP FOOTING ( F4 & F5 )**



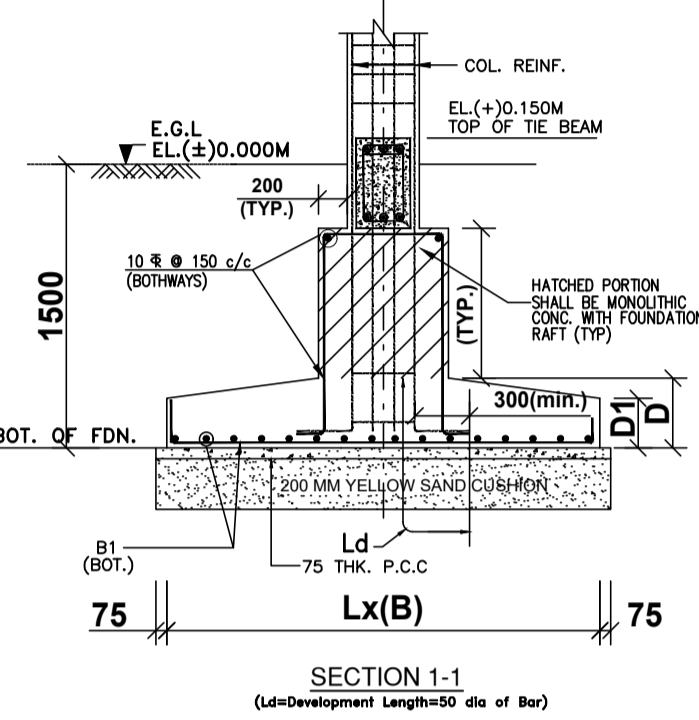
**SLAB BEAM LAYOUT PLAN ( 1ST. & 2ND. SLAB LEVEL )**  
SCALE - 1:100



**SLAB BEAM LAYOUT PLAN ( 3RD. SLAB LEVEL )**  
SCALE - 1:100

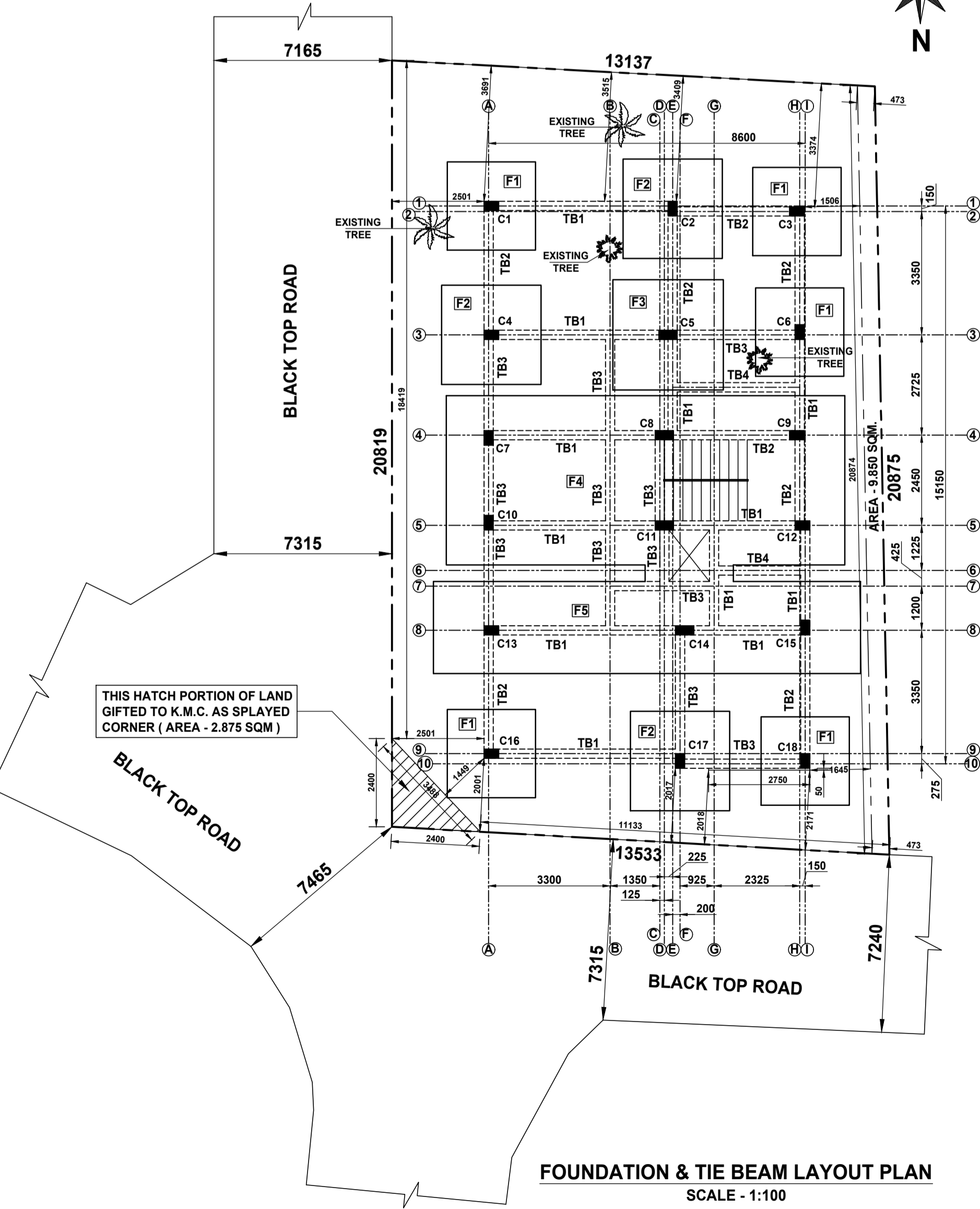


**CROSS SECTION OF RAFT FOOTING ( TYPICAL SECTION )**



**TYPICAL ISOLATE FOOTING PLAN**

- NOTES :-**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
  - DRAWINGS SHALL NOT BE SCALE ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
  - 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 P.C.C.
- B. CONCRETE WORK:**
- ALL CONCRETE WORK SHALL BE AS PER IS-456 (LATEST REVISION)
  - ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
  - THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
  - PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
    - 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM) AND AS - P1, TRENCHES ETC.
    - M-15 FOR LEAN CONCRETE FOUNDATIONS & PLUMB PROTECTION
  - THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS
- | STRUCTURAL ELEMENT | COVER |
|--------------------|-------|
| a. PLUMB BEAM      | 25    |
| b. COLUMN          | 40    |
| c. SLAB ON GRADE   | 25    |
| d. FLOOR BEAM      | 25    |
| e. SLAB            | 20    |
| f. FOUNDATION      | 50    |
- C. REINFORCEMENTS:**
- ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
  - (a) HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS = 500 N/MM<sup>2</sup>) SHALL CONFORM TO IS-1786. (LATEST REVISION)
  - LAPS AND SPACES OF REINFORCEMENT TO SUIT APPROPRIATE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
  - ALL HOOKS, BENDS, LAPS AND SPACES SHALL BE AS PER IS-2502.
  - THE LAP/HORCHAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-
- | CONCRETE GRADE | DEFORMED BARS TENSION (COMPRESSION) |
|----------------|-------------------------------------|
| M-25           | 41xD / 33xD                         |
- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
  - LAPPING OF BARS FOR BEAM AND SLAB SHALL BE PROVIDED IN THE MAXIMUM TENSION ZONES.
  - DEVELOPMENT LENGTH (L<sub>d</sub>) = 50D/0.8 OF THE BAR+10D/0.8 OF THE BAR.
  - ALL SPACER BARS ARE 250x40x450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.



**FOUNDATION & TIE BEAM LAYOUT PLAN**  
SCALE - 1:100

**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.

**ALOK ROY**  
Empanelled Geotechnical Engineer  
Kolkata Municipal Corporation  
Class-I, No.- G.7/111  
8A, Milan Park  
Kolkata-700 084

SIGNATURE OF GEO-TECHNICAL ENGINEER  
ALOK ROY, G.T.E. / 11 / 11

**CERTIFICATE OF STRUCTURAL ENGINEER**  
CERTIFIED WITH FULL RESPONSIBILITY THAT THE STRUCTURAL 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.

**Manash M.G. Majumder**  
(M.Tech.-Struct.)  
Empanelled Structural Engineer,  
Kolkata Municipal Corporation  
E.S.E. No.-11/586

SIGNATURE OF E.S.E.  
MANASH MOHAN GUHA MAJUMDER, ESE / 11 / 586

**GAURAV KUMAR DUTTA**  
AS CONSTITUTED POWER OF ATTORNEY  
FOR TANUSHREE SENGUPTA &  
DWAIPAYAN SENGUPTA

SIGNATURE OF OWNERS / APPLICANT  
GAURAV KUMAR DUTTA AS CONSTITUTED  
POWER OF ATTORNEY FOR TANUSHREE  
SENGUPTA & DWAIPAYAN SENGUPTA

**Manash M. G. Majumder**  
(Civil Engineer)  
Empanelled Structural Engineer,  
Kolkata Municipal Corporation  
LBS NO.- 1078(I)

SIGNATURE OF LBS  
MANASH MOHAN GUHA MAJUMDER, LBS / 11 / 1078

**STRUCTURAL DRAWING FOR G + IV STORIED RESIDENTIAL BUILDING OF HEIGHT - 15.475M ( U / S 393A OF K.M.C. ACT 1980 & K.M.C. BLDG. RULE - 2009 ) AT PREMISES NO.- 121, CENTRAL PARK, ( PLOT NO.- 15, CENTRAL PARK ), WARD NO.- 102, BOROUG - XII, P.S.- JADAVPUR, KOLKATA - 700 032, MOUZA - RAJAPUR, J.L. NO.- 23, UNDER THE KOLKATA MUNICIPAL CORPORATION**

Drawn by: Bikash Halder  
Checked by: M.M.G.M.  
Approved by: M.M.G.M.  
Filename: S - 5 / 05 / 393A / 01 / 25-26  
Date: 28/06/2025  
Scale: 1:100, 50, N.T.S.  
LAYOUT PLANS, TYPICAL SECTIONAL, DETAILS & SCHEDULES  
PREMISES NO.- 121, CENTRAL PARK  
Revision: 0  
Sheet: 1/1  
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.