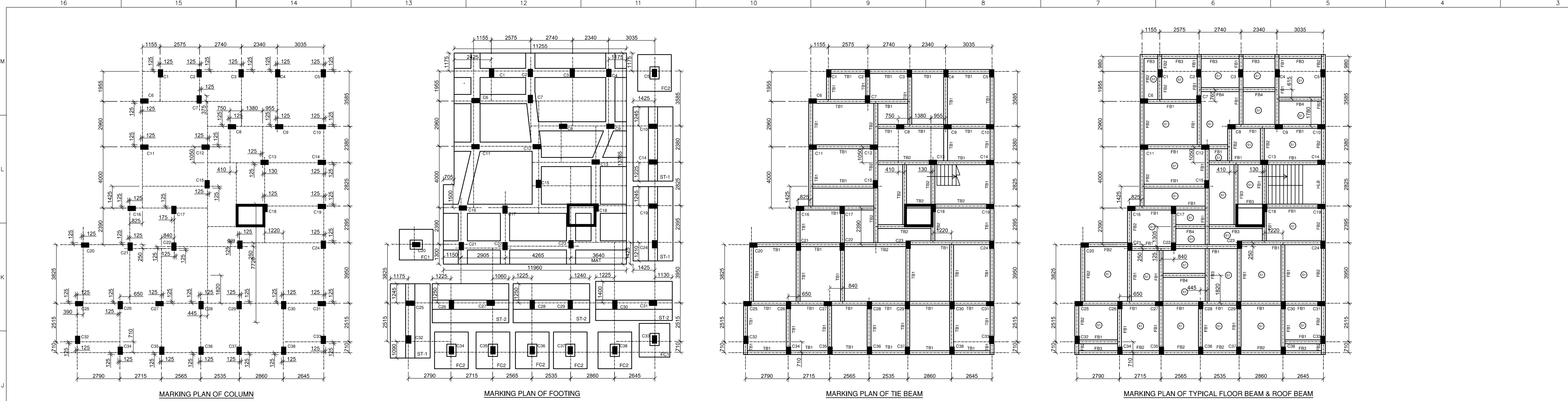




COLUMN SCHEDULE (M25:Fe500)

ROOF	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM
TO	Z1 MAIN LINK T8 @ 75	Z1 OTHERS T8 @ 75	Z2 LINKS T8 @ 150
2ND FLOOR	4-T20 + 6-T16 T8 @ 75	4-T20 + 6-T16 T8 @ 75	4-T20 + 6-T16 T8 @ 150
2ND FLOOR	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM	M25: Fe500, COVER = 40mm CONFINING ZONE = 500 MM
TO	Z1 MAIN LINK T8 @ 75	Z1 OTHERS T8 @ 75	Z2 LINKS T8 @ 150
FOOTING	6-T20 + 6-T16 T8 @ 75	6-T20 + 6-T16 T8 @ 75	6-T20 + 6-T16 T8 @ 150
COLUMN MARKED	C13, C14, C15, C17, C18, C19, C22, C23, C24	OTHERS	C1, C5, C6, C20, C25, C31, C32, C33, C34, C38

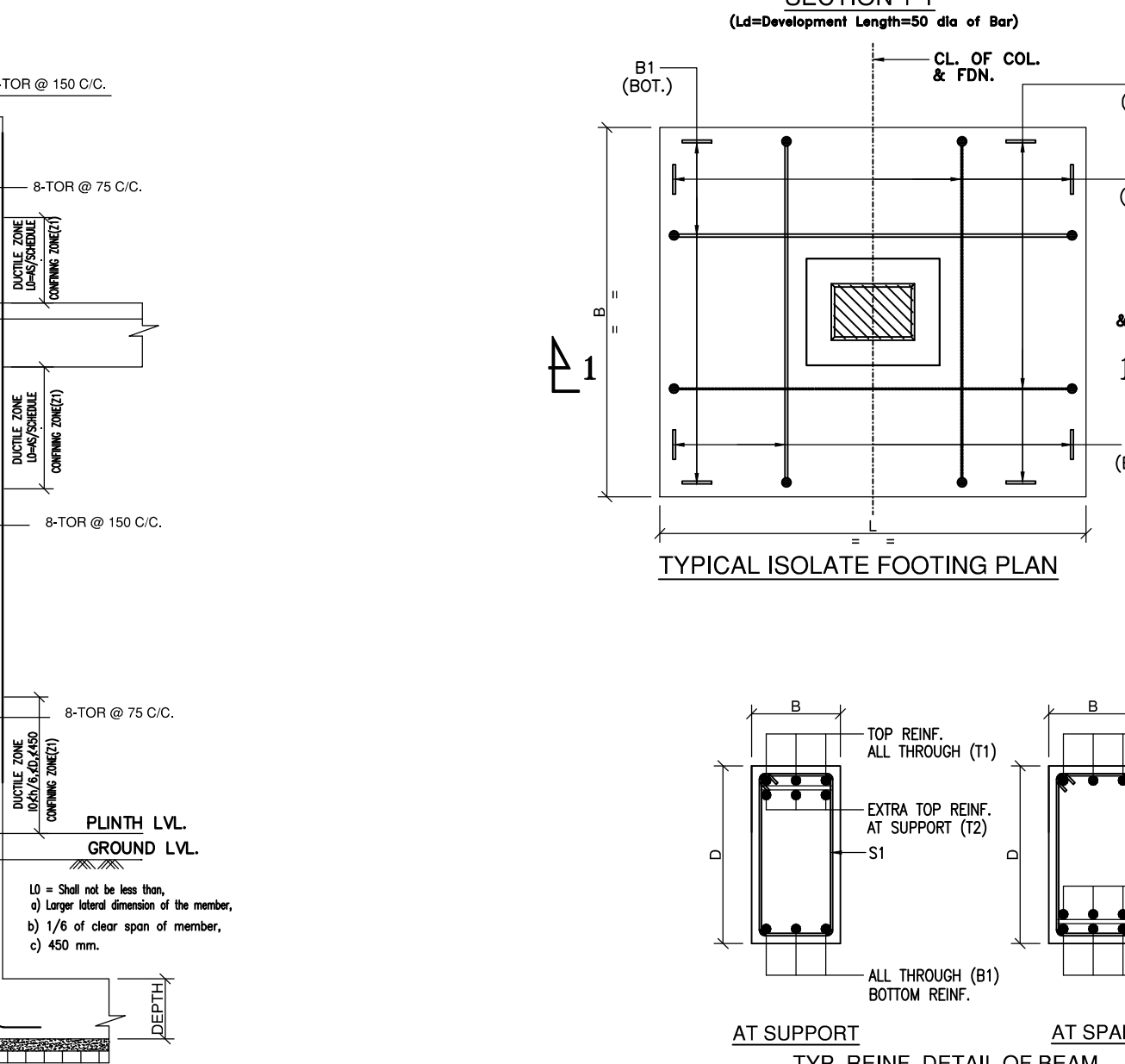
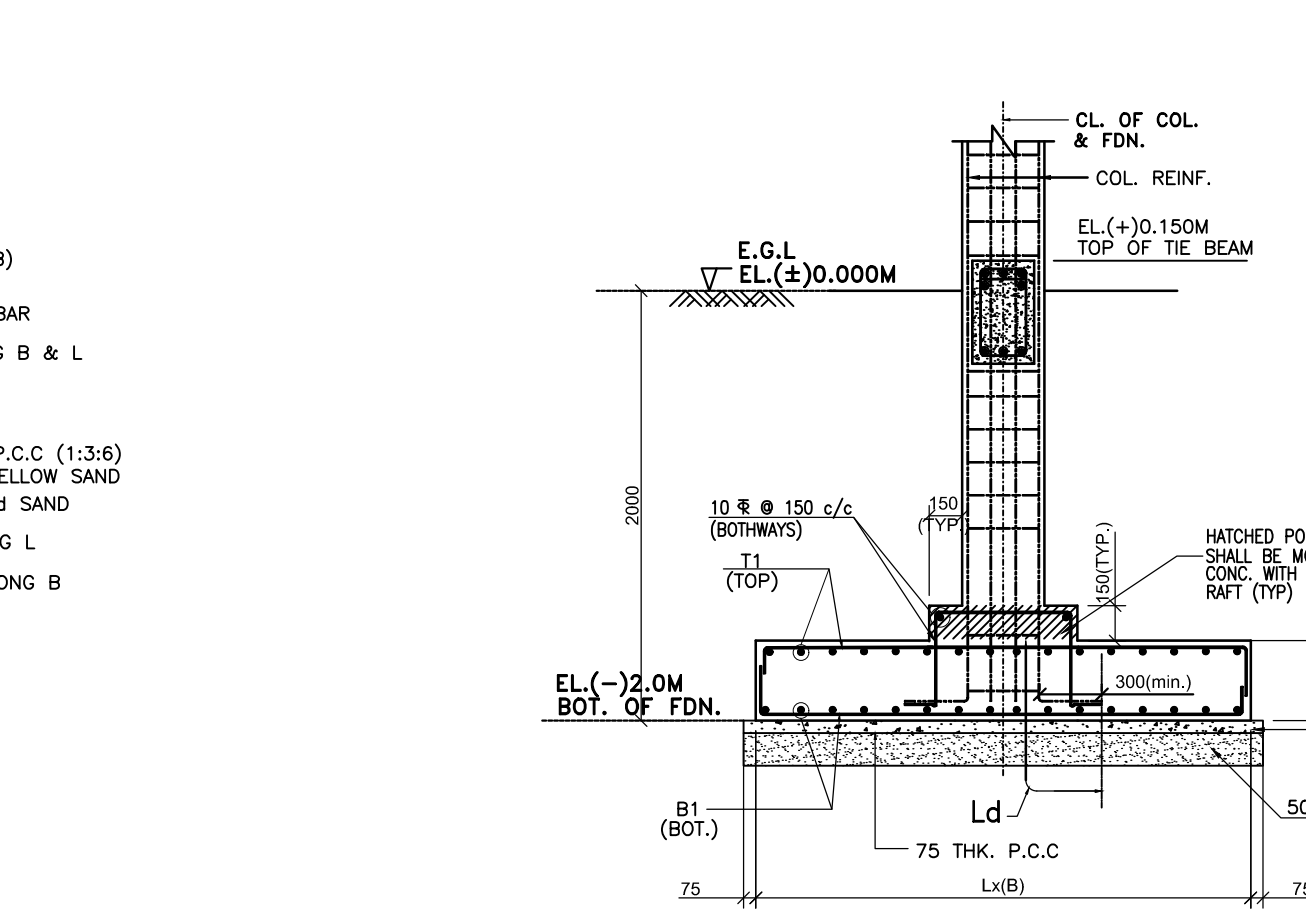
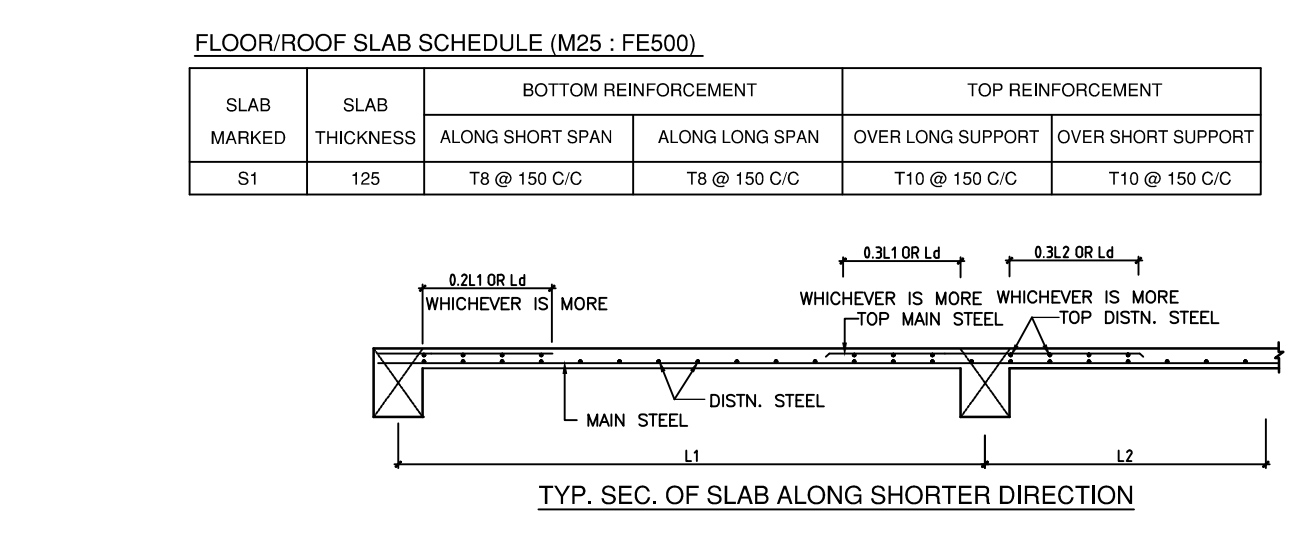
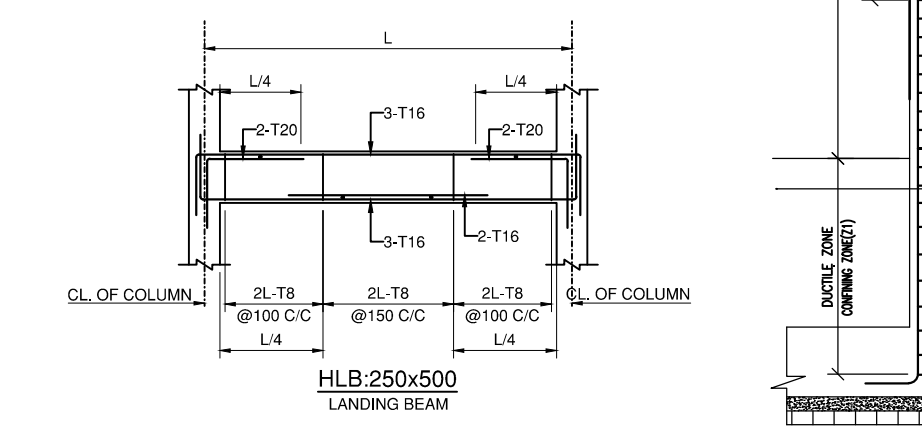
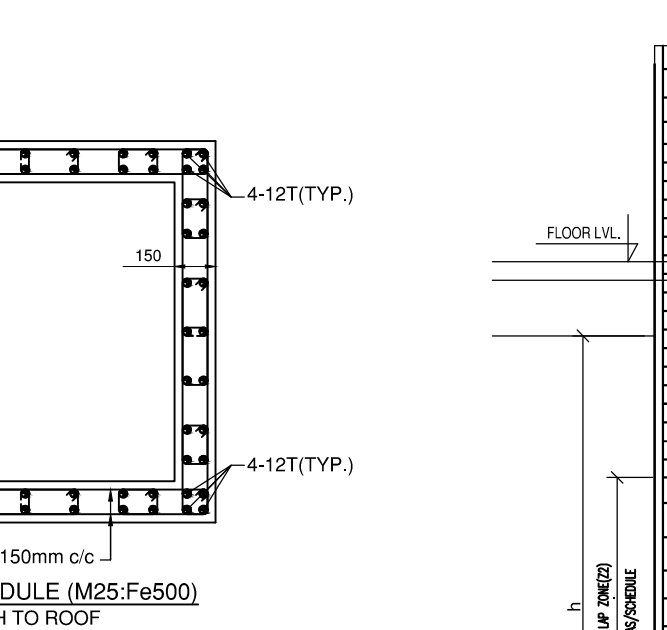
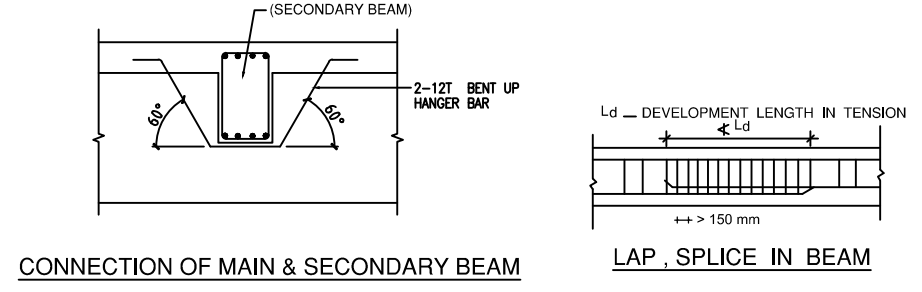
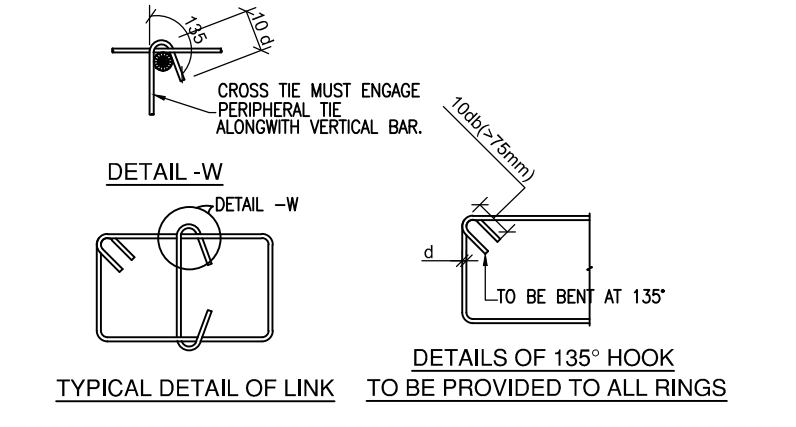
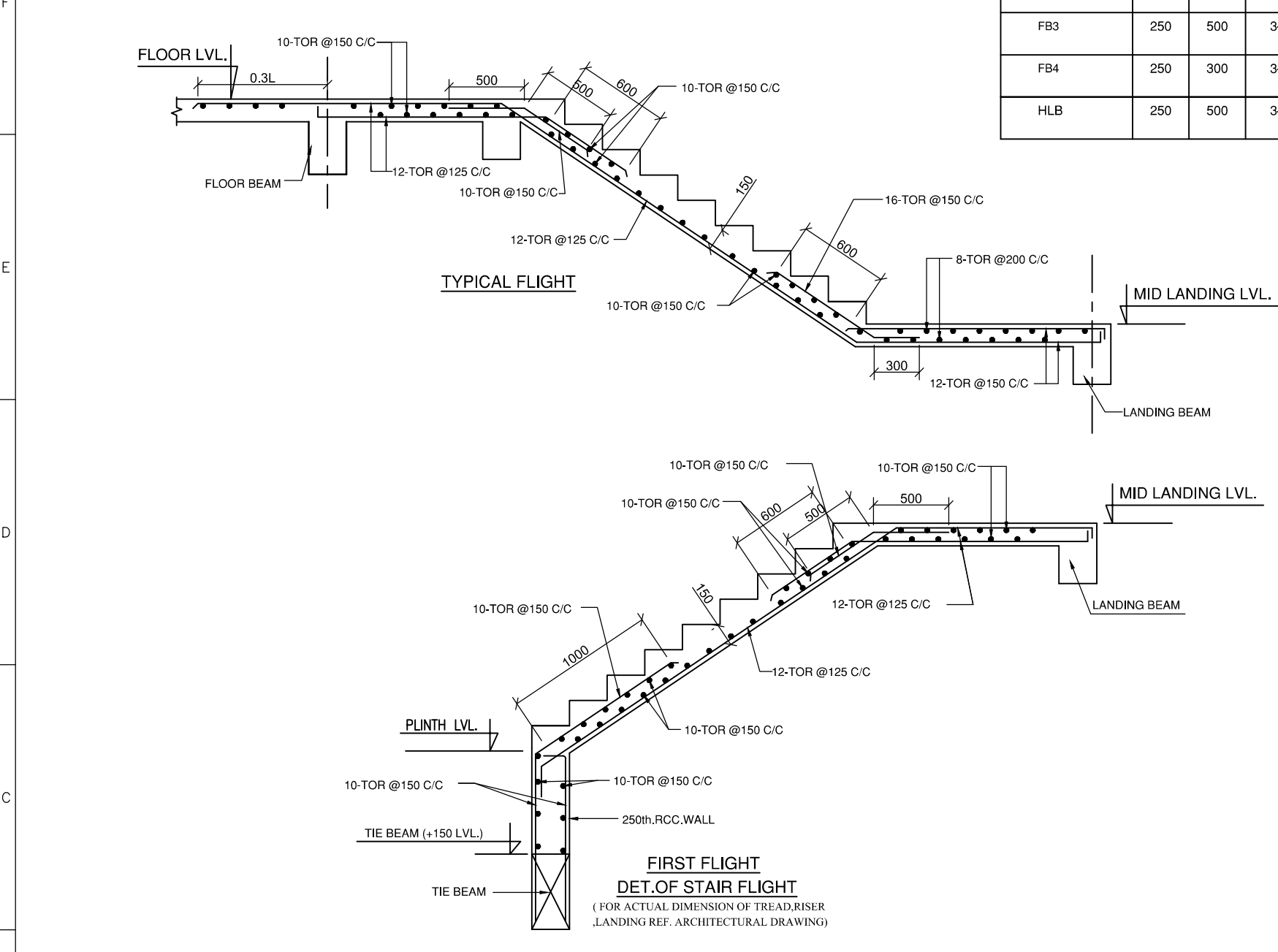
FOOTING SCHEDULE (M25:Fe500)																
FOOTING DESIGN DONE WITH THE SBC OF 11.45 T/SQM BASED ON PROVIDED SOIL REPORT																
FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION			FOOTING REINFORCEMENT				BEAM DETAILS							
									SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
		B1	D	SUPPORT	MID SPAN	SUPPORT	MID SPAN									
		L	B	D	BOTTOM		TOP									
				ALONG B	ALONG L	ALONG B	ALONG L									
FC1	Pad	2200	2000	450	T10@125 C/C	T10@125 C/C	T10@150 C/C	T10@150 C/C								
FC2	Pad	2400	2200	475	T10@100 C/C	T10@100 C/C	T10@150 C/C	T10@150 C/C								
ST-1	STRIP	4850	2600	500	T16@150 C/C	T16@150 C/C	T12@150 C/C	T12@150 C/C	600	650	4-T20+4-T16	4-T20+4-T16	8-T16	8-T16	4L-T8@100/150 C/C	
ST-2	STRIP	5000	2550	500	T16@150 C/C	T16@150 C/C	T12@150 C/C	T12@150 C/C	600	650	4-T20+4-T16	4-T20+4-T16	8-T16	8-T16	4L-T8@100/150 C/C	
MAT	RAFT	AS SHOWN IN FIG	500		T16@150 C/C	T16@150 C/C	T12@150 C/C	T12@150 C/C	600	650	4-T20+4-T16	4-T20+4-T16	8-T16	8-T16	4L-T8@100/150 C/C	

TIE BEAM SCHEDULE (M25:Fe500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B	D	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
TB1	250	500	4-T16	4-T16	+4-T16 +3-T16	4-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB2	300	500	4-T16	4-T16	+4-T16 +3-T16	4-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB3	250	300	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C

FLOOR BEAM SCHEDULE (M25:Fe500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B	D	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
FB1	250	500	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB2	250	500	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB3	250	500	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB4	250	300	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C
HLB	250	500	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C



- 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 | 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 $F_y = 500 \text{ N/MM}^2$) 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 | 50XD | 40XD |
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 (L_d) = $50d$ OF THE BAR + $10d$ OF THE BAR.
 9. ALL SPACER BARS ARE 250A ϕ 50 C/C AND TO BE PROVIDED WHEREVER REQUIRED.
 10. FILL CAPACITY OF SOIL FOR 450 DIA PILE AT 20M DEPTH COMP 48T, TENS 34T.
 11. PILE DESIGN HAS BEEN RECOMMENDED BY CLIENT.
- NOTE:**
- THIS BUILDING HAS BEEN DESIGNED FOR G+4.
ALL EXTERNAL BRICK WALLS ARE 250MM THICK USED DENSITY 20kN/m³
ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m³
- LOAD CONSIDERED NOTE:**
- FLOOR LIVE LOAD = 2.5/4kN/m² (RESIDENTIAL/COMMERCIAL)
ACCESS ROOF LIVE LOAD = 1.5kN/m²
NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
WATER TANK WITH WATER DEAD LOAD = 10 KL

DETAIL -A

COLUMN SPLICES

TITLE:-

PROPOSED PLAN FOR (G+4) FLOOR RESIDENTIAL/OTHER USE PLAN OF "TEJASWINI TOWER" OF SOINATH DEY S/O DILIP KUMAR DEY AND ANJAN MITRA S/O DEBIDAS MITRA (STRUCTURAL DRAWING) AT UNILPARA, DAG. R.S 2233 & LR 7496, (NEAR BALLAV MEDICAL.) KH.NO 32445, 32525 & 32532, MOUZA, BISHNUPUR MUNICIPALITY, J.L. NO. 101, UNDER BISHNUPUR MUNICIPALITY, WARD NO.-19, HOLDING NO.- & 608/1, DIST. BANGKURA, WEST BENGAL.

SIGNATURE OF THE OWNER

DECLARATION OF THE ARCHITECT / L.B.S

SIGNATURE OF ARCHITECT / ENGINEER

DECLARATION OF ENGINEER

DECLARATION OF STRUCTURAL ENGINEER

Certified that the Structural Analysis & Design of PROPOSED B+G+5 STORED RESIDENTIAL/COMMERCIAL BUILDING HEIGHT OF 18.4 m OF MANESH BHOWMIK S/O L.L. MANINDRA BHOWMIK has been prepared by me in the following land schedule: AT LOKNATH PALLY, DAG. R.S 230 & LR 538 (NEAR SURYA DEEP LODGE) KH.NO 2287 & 3993 MOUZA TURKISITAMPUR J.L. NO. 100UNDER BISHNUPUR MUNICIPALITY WARD NO.-18 HOLDING NO.- 11/2/A/1 DIST. BANGKURA. WEST BENGAL.

It is also certified that the said Structural Analysis has been prepared considering all possible loads including seismic loads and as per latest relevant IS Codes and the proposed structure is safe in all respect.

SIGNATURE OF THE STR. ENGINEER

DRAWING SHEET CONTAINS

1. FOUNDATION LAYOUT PLAN.
2. COLUMN LAYOUT PLAN.
3. TIE BEAM LAYOUT PLAN.
4. FLOOR BEAM & SLAB LAYOUT PLAN.

DESIGN BY:- VIJAY KR. SASTRA

CHECKED BY:- VIJAY KR. SASTRA

DRAWN BY:- VIJAY KR. SASTRA

APPROVED BY:- VIJAY KR. SASTRA

E.S.E-1 (Bishnupur Municipality)