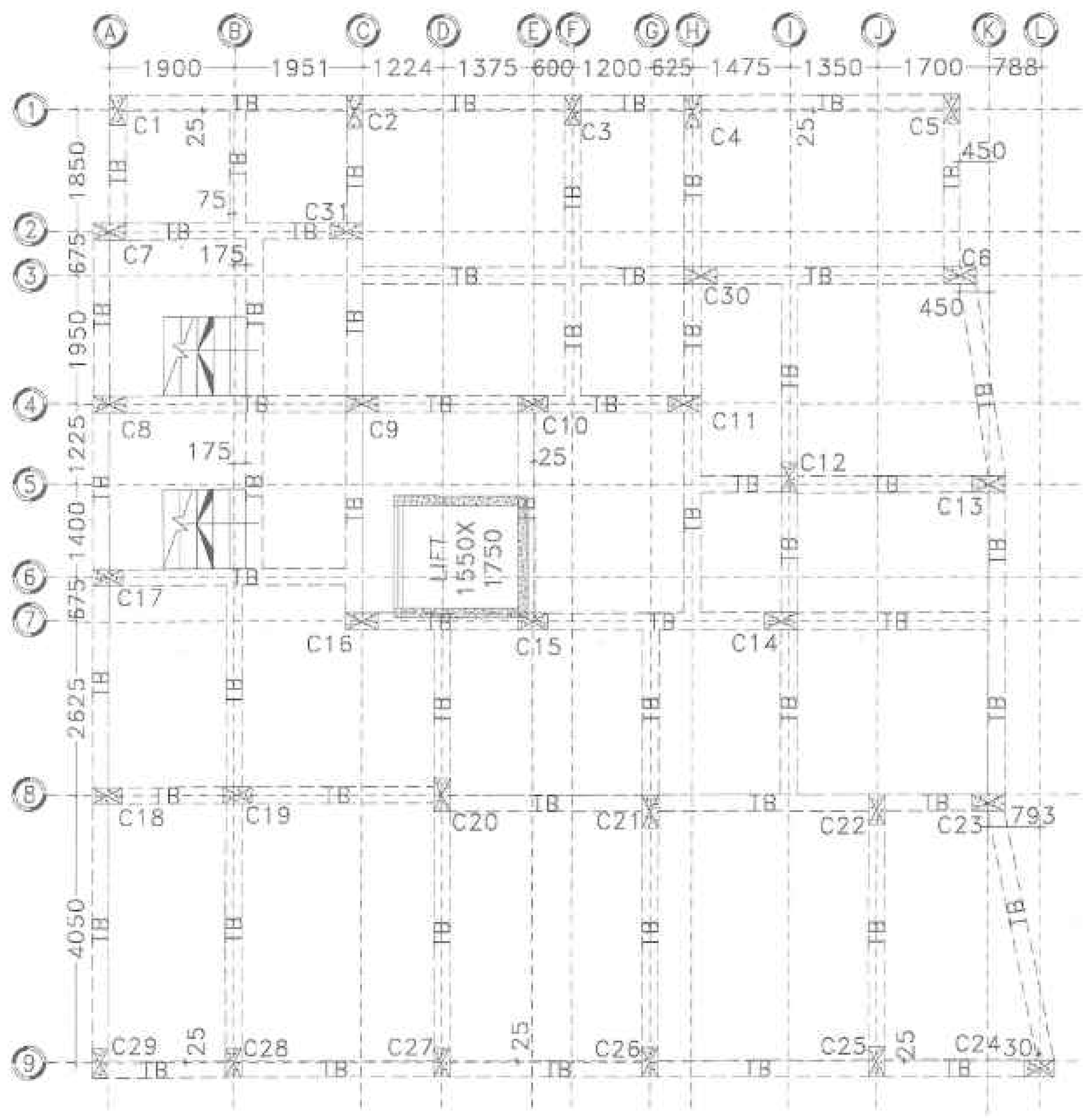
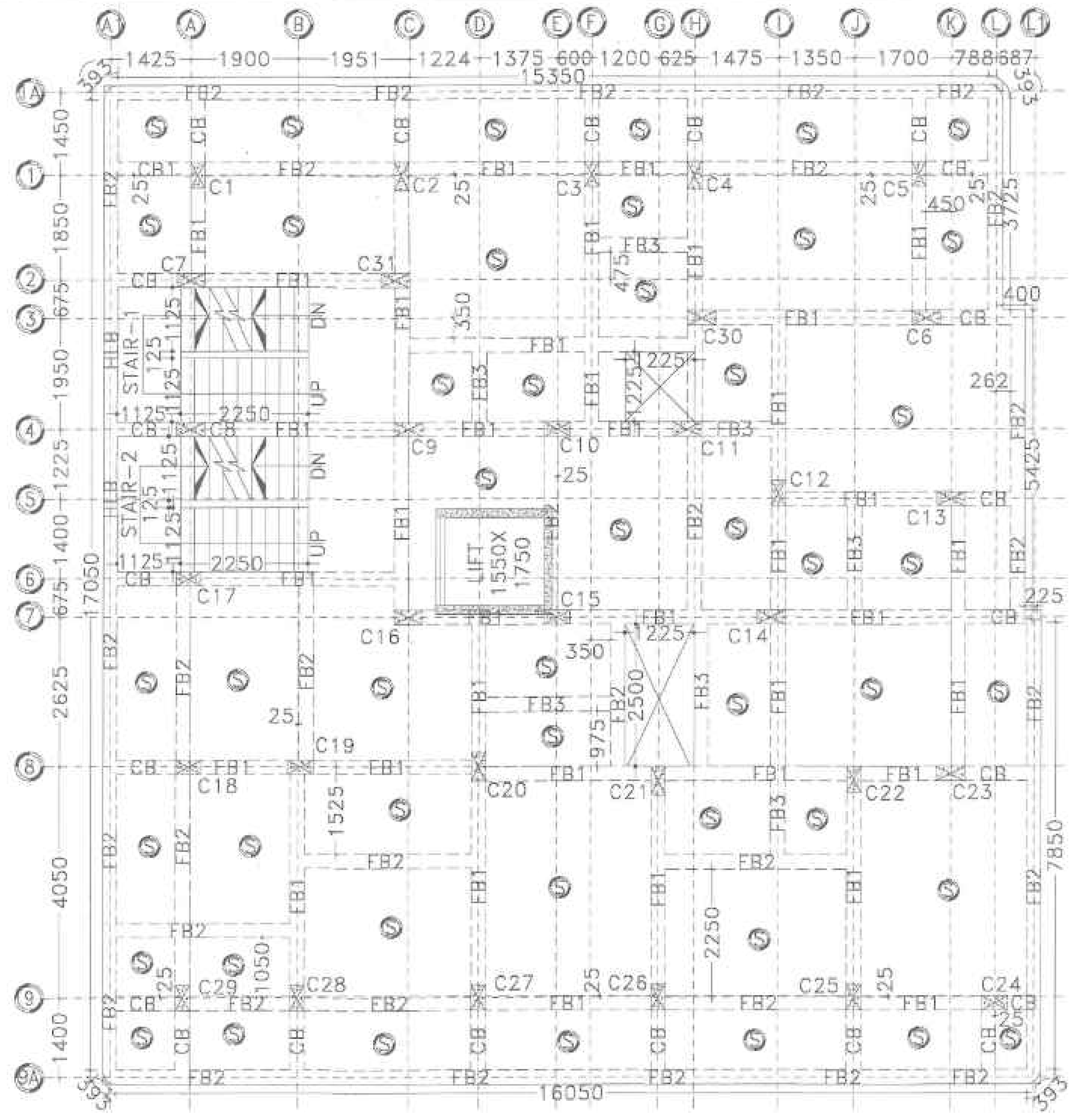
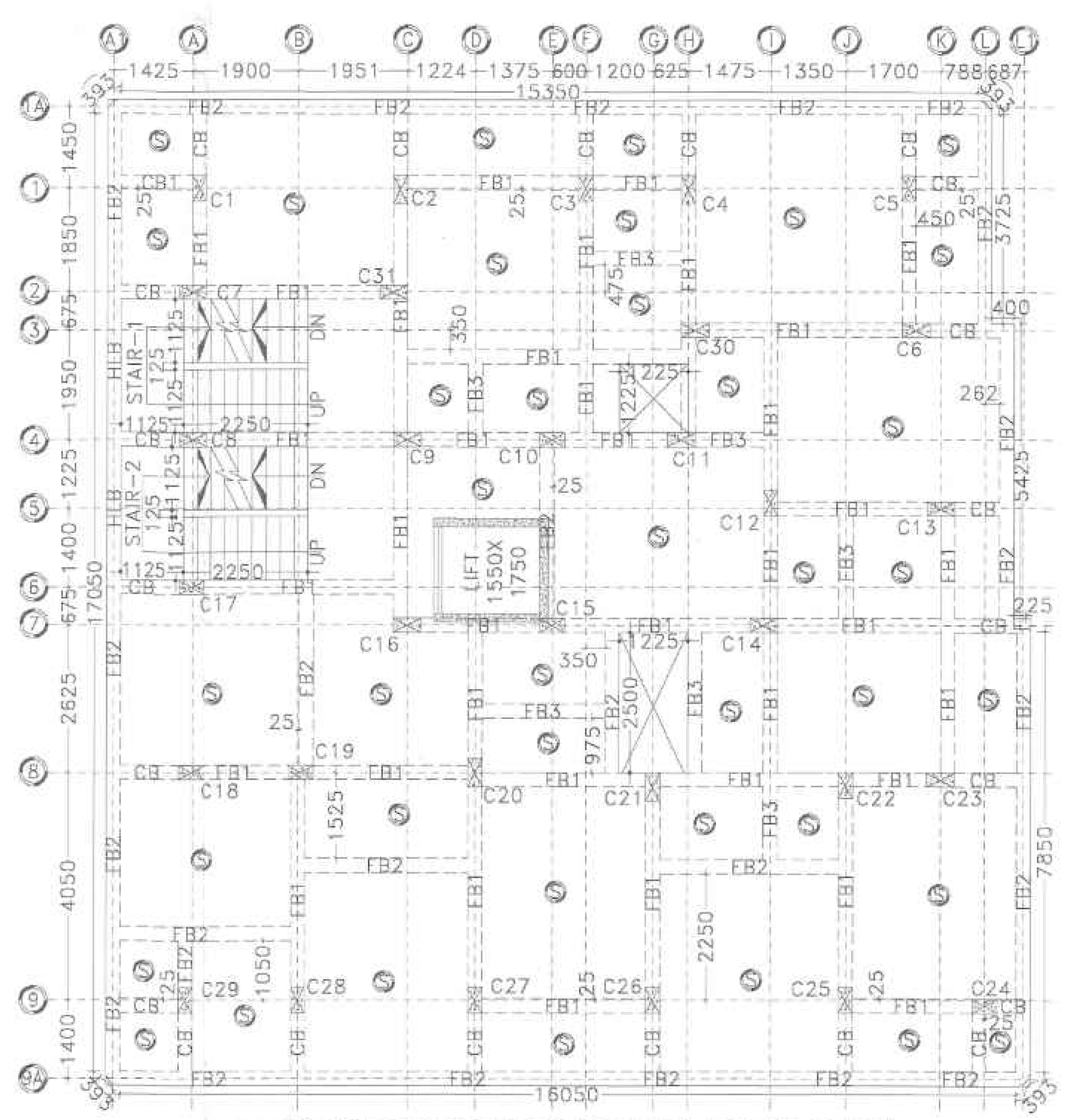


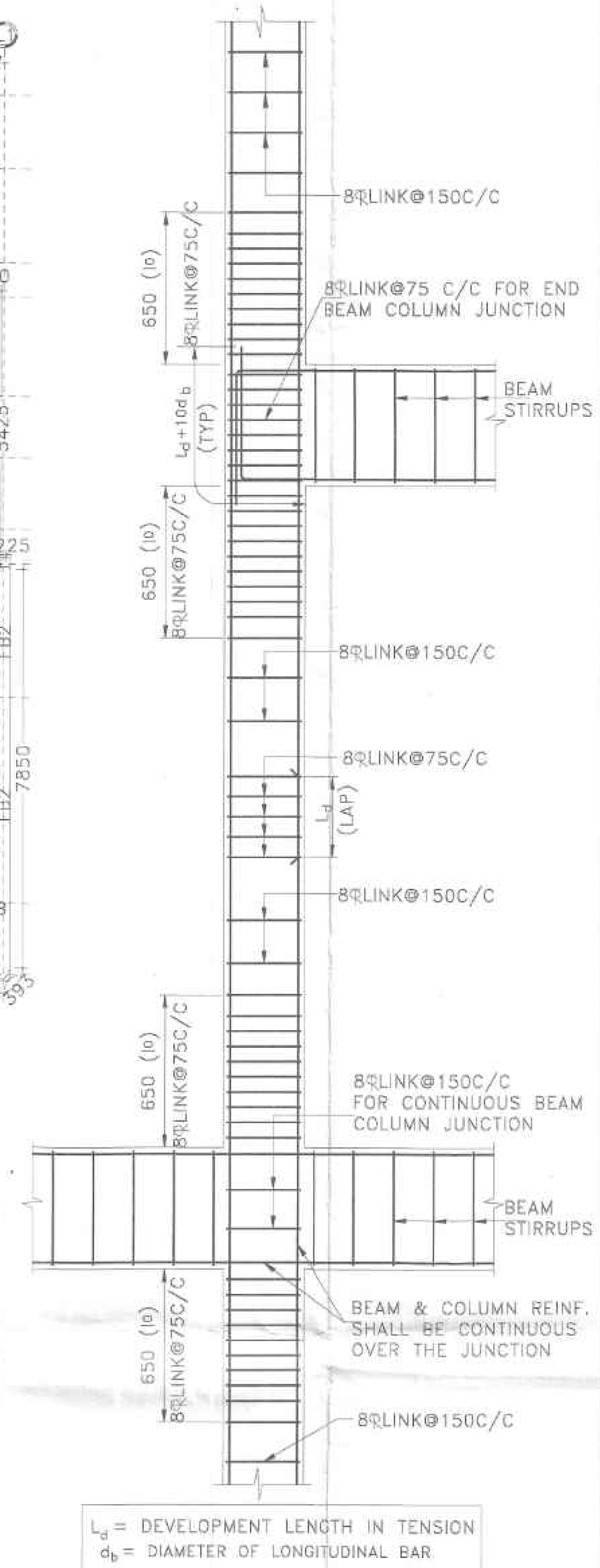
1 TIE BEAM LAYOUT PLAN.
SCALE: 1:100



1 GROUND FLOOR ROOF BEAM LAYOUT PLAN
SCALE: 1:100



1 TYPICAL FLOOR ROOF BEAM LAYOUT PLAN
SCALE: 1:100



TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25

PROJECT NAME:-

STRUCTURAL DRAWING OF PROPOSED (G+6) SEVEN STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF SRI C SUBODH KUMAR S/O CHHOTELAL RAM, OVER R.S. PLOT NO - 1016/3175 L.R. PLOT NO-1205 L.R. KHATIAN NO- 4151 J.L. NO-105, MOUZA-JEMUA, P.S.-NEW TOWNSHIP, DIST-PASCHIM BARDHAMAN, WEST BENGAL.

NOTES :-

1. (±) 0.00 M LEVEL REFERS TO E.G.L.
2. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
3. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER. EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
4. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
5. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
6. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE FE-500/500 D CONFORMING TO IS-1786-2008.
7. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
8. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50XBAR DIA.
9. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8T @ 250 C/C
10. CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:- A)BEAM:-25MM, B)COLUMN:-40MM, C)SLAB:-15MM, D)FOOTIING:-50MM,E)R.C.C WALL:-20MM, F) STAIR:- 20MM.
9. GRADE OF CONCRETE WILL BE M30 FOR COLUMN AND M25 FOR BEAM AND SUB STRUCTURE AS PER IS: 456:2000.
10. DEVELOPMENT LENGTH 50XD FOR LAP & SPICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987

TABLE NO:-01 (SCHEDULE OF TIE BEAM)

Beam Mkd	Size B	Size D	All Through Top(a)	All Through Bott.(c)	Ext. at End Supp. Top (b)	Ext. at Span. Bott (e)	Ext. at Cont. Supp. Top (b)	STIRRUPS Support	STIRRUPS Span
TB	300	450	2-20Φ	2-20Φ	2-16Φ	2-16Φ	2-16Φ	2L-8Φ@125C/C	2L-8Φ@125C/C

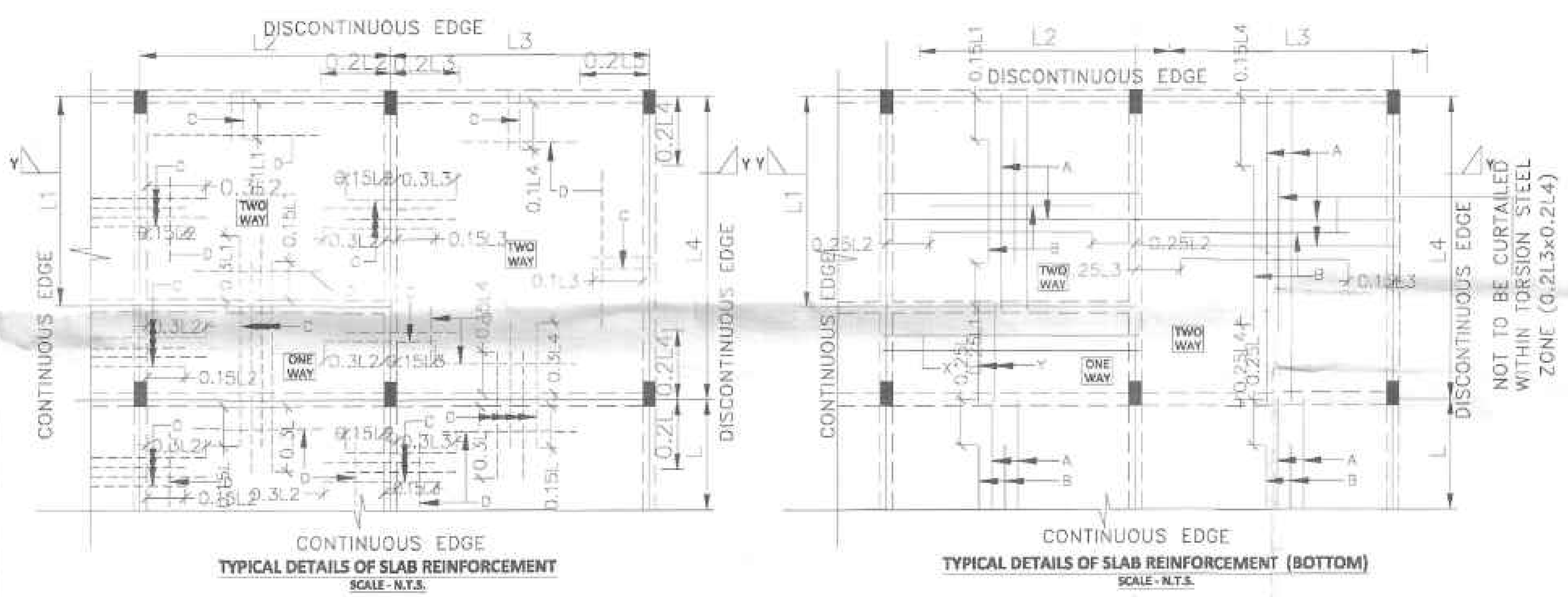
TABLE NO:-2 (SCHEDULE OF FLOOR BEAM)

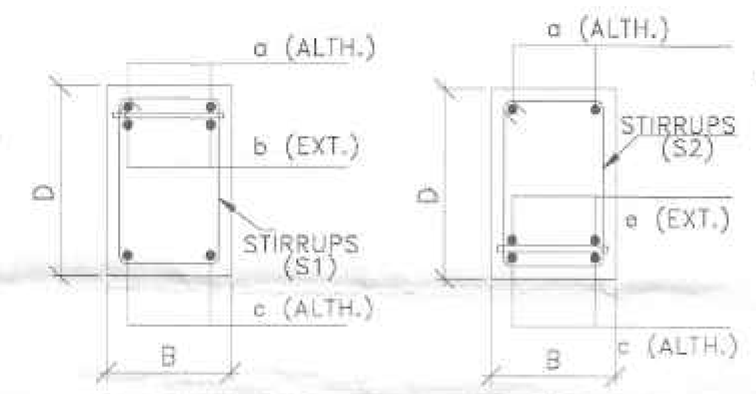
Beam Mkd	Size B	Size D	All Through Top(a)	All Through Bott.(c)	Ext. at End Supp. Top (b)	Ext. at Span. Bott (e)	Ext. at Cont. Supp. Top (b)	STIRRUPS Support	STIRRUPS Span
FB1	300	450	2-20Φ	2-20Φ	2-16Φ	2-16Φ	2-16Φ	2L-8Φ@125C/C	2L-8Φ@125C/C
FB2	300	400	2-20Φ	2-20Φ	2-16Φ	2-16Φ	2-16Φ	2L-8Φ@125C/C	2L-8Φ@125C/C
FB3	300	350	2-16Φ	2-16Φ	—	—	—	2L-8Φ@125C/C	2L-8Φ@125C/C
CB	300	450	3-16Φ	3-16Φ	—	—	—	2L-8Φ@125C/C	2L-8Φ@125/C
CB1	300	450	3-16Φ	3-16Φ	2-16Φ	—	—	2L-8Φ@125C/C	2L-8Φ@125C/C
HLB	300	400	2-16Φ	2-16Φ	2-16Φ	2-16Φ	2-16Φ	2L-8Φ@125C/C	2L-8Φ@125C/C

TABLE NO:-01 (SCHEDULE OF FLOOR SLAB)

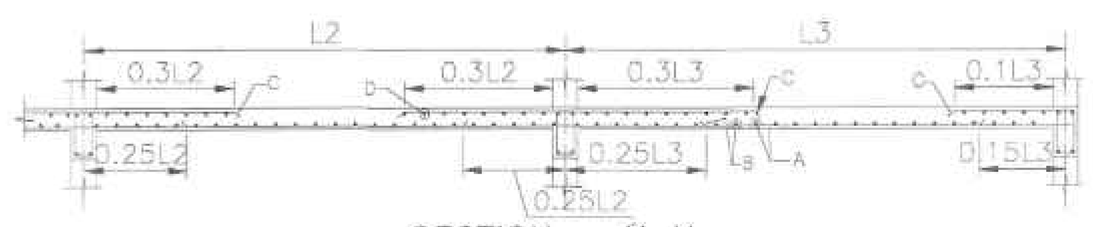
SLAB THICKNESS - 150 mm (S)

BAR MKD.	REINFORCEMENT	POSITION
A	10T @ 150 mm C/C (ALL THROUGH)	BOT.
B	10T @ 150 mm C/C (ALL THROUGH)	BOT.
C	10T @ 150 mm C/C (CURTAILMENT)	TOP
D	10T @ 150 mm C/C (CURTAILMENT)	TOP
X	10T @ 150 mm C/C (ALL THROUGH)	BOT.
Y	10T @ 150 mm C/C (ALL THROUGH)	BOT.

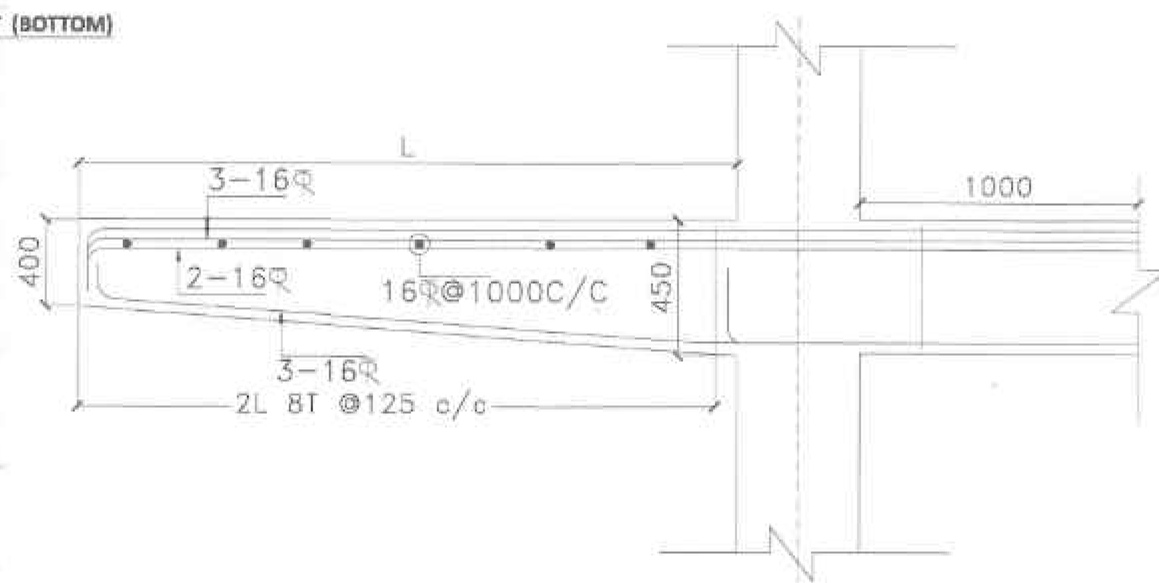




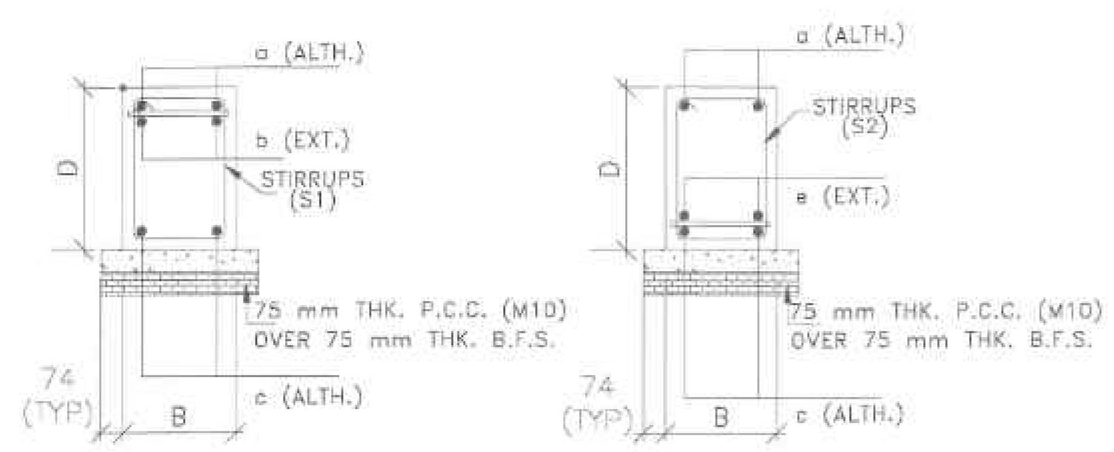
TYPICAL CROSS SECTION OF FLOOR BEAM (FB)



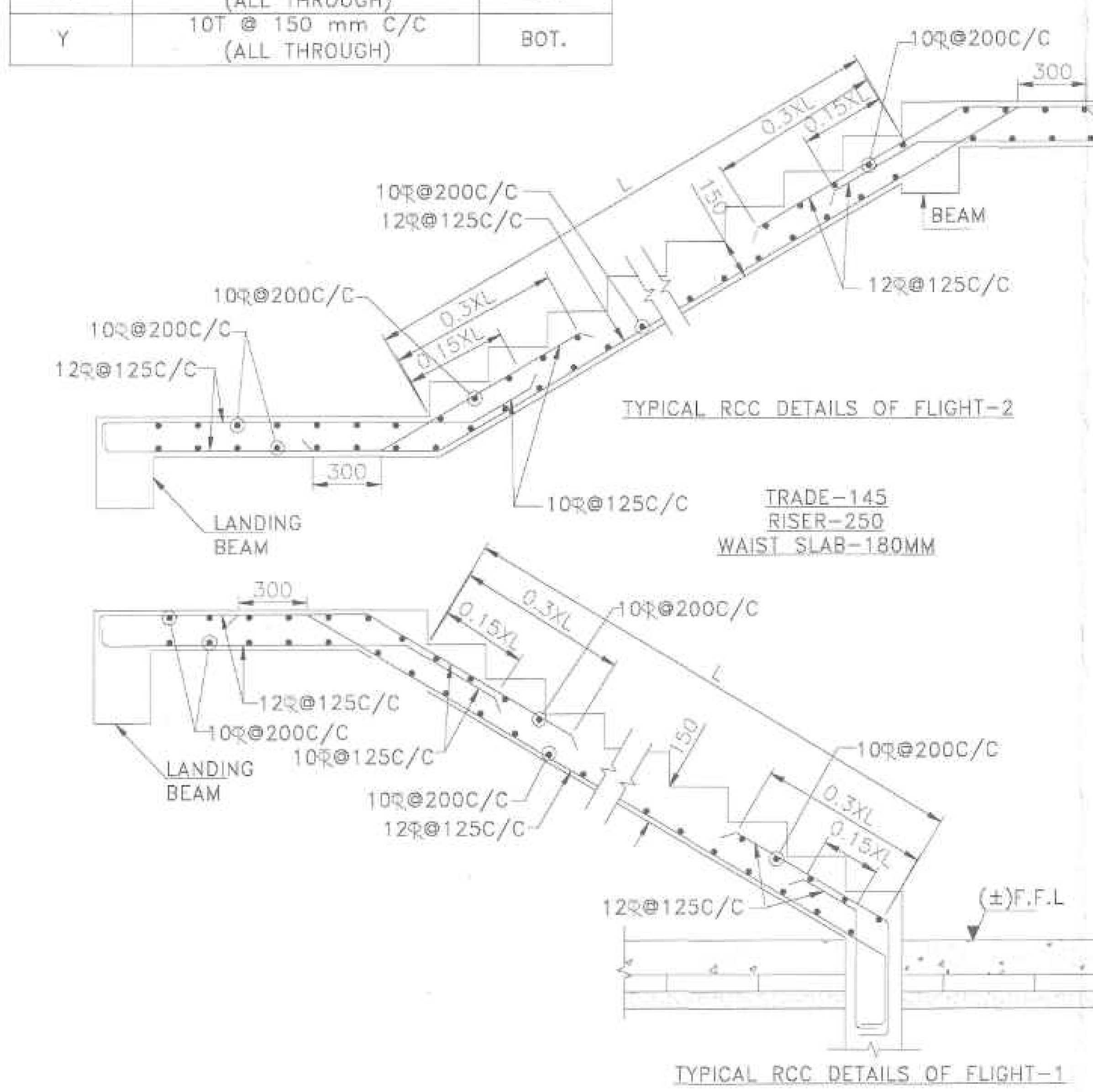
SECTION - Y-Y
SCALE - N.T.S.



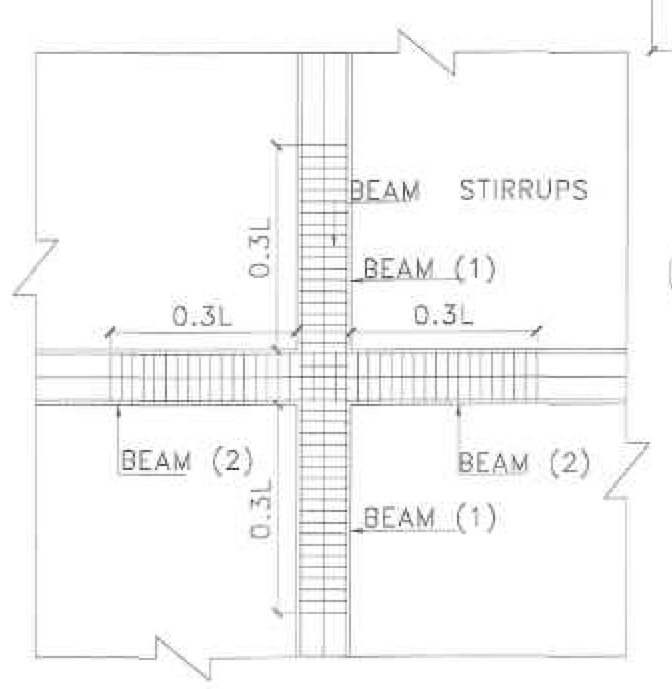
3A TYPICAL SECTION OF CANTILEVER BEAM(CB1)
SCALE: NTS



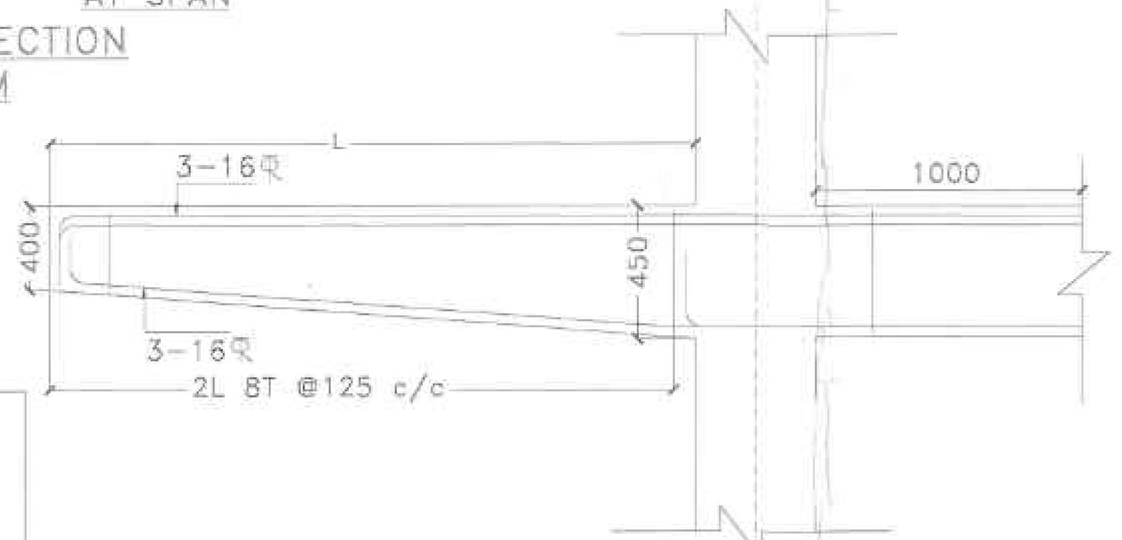
TYPICAL CROSS SECTION OF TIE BEAM



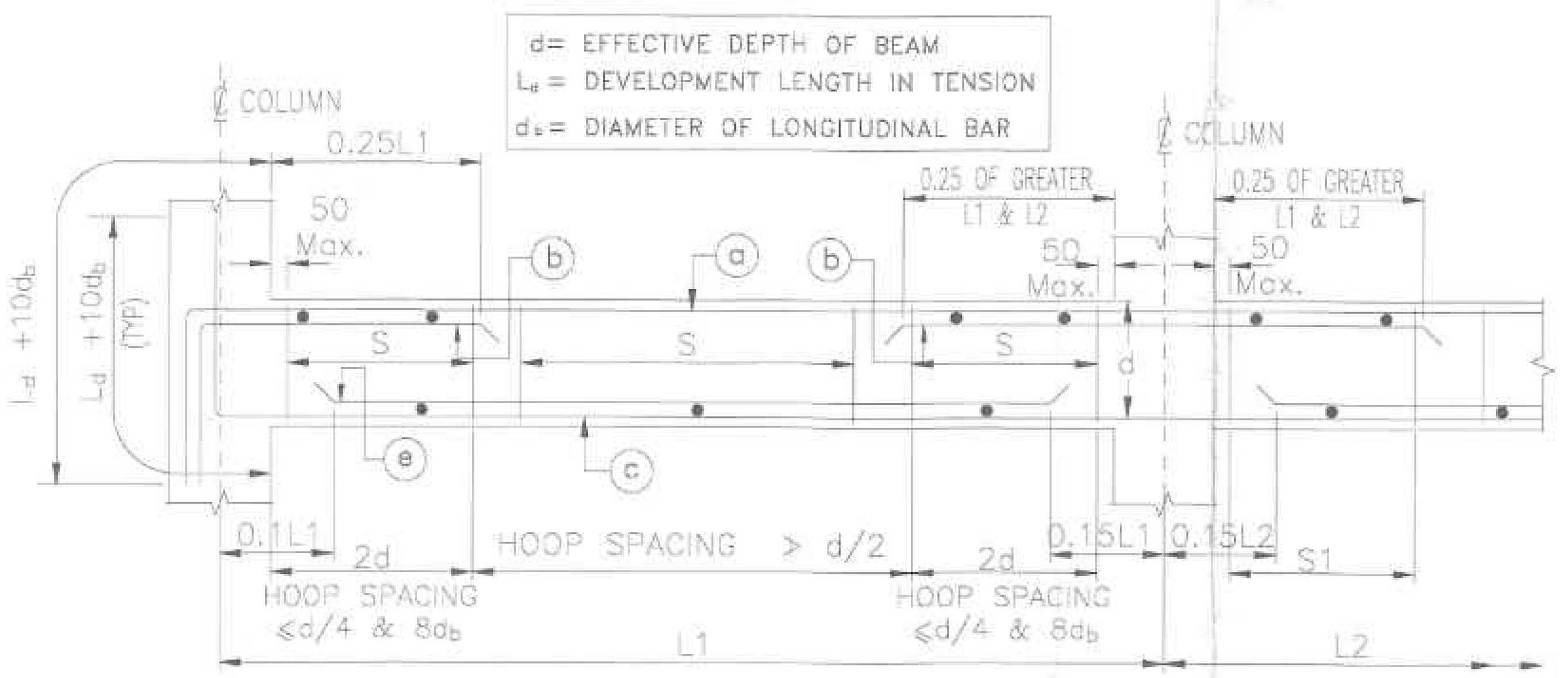
4 DETAILS OF STAIR
SCALE: N.T.S.



9 DETAILS OF CROSS BEAM JUNCTION
SCALE: 1:50



3 TYPICAL SECTION OF CANTILEVER BEAM(CB)
SCALE: NTS



TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM

SIGNATURE OF DEVELOPER/OWNER:-

C. Sutg

Approved Plan No. 41 on Meeting No. 14/2022-23 Date 27/02/2023
Valid upto 02/10/2026
Saptasati Sen
Prodhan 03/11/24
Jemua Gram Panchayat

VETTED BY:-

vetted 27/6/23
DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.B)

SIGNATURE OF ARCHITECT:-

Manju Monowara Khatun
MANJU MONOWARA KHATUN
ARCHITECT
CA/2022/146222
GIDS, Durgapur -16

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

[illegible] Civil Geotechnical Engineer, G.I.D.S., Durgapur-16

SIGNATURE OF STRUCTURAL ENGINEER:-

Structural Engineer
Lic No. L.B.P.M/163/AMC-DMC/BPD/165
DCE, B-TECH, G.I.D.S, Durgapur-16
Contact No.- 7602984157

TITLE:-

TIE BEAM LAYOUT, GROUND FLOOR AND TYPICAL ROOF BEAM LAYOUT, SCHEDULE OF FLOOR BEAM & TIE BEAM, SECHEDULE OF SLAB, DETAILS OF STAIR,TYPICAL DETAILS OF CANTILEVER,TYPICAL C/S SEC. OF TIE BEAM & FLOOR BEAM, TYP ARRENGEMENT OF REINFORCEMENT IN BEAM, TYP DETAIL OF BEAM & COLUMN JUNC.

DRAWN BY:- A BADYAKAR, J ULAL.

CHECKED BY:- S AKHTAR

SCALE:- 1:100, 1:50, 1:25, N.T.S

REV-00

DATE:- 26.06.2023

SHEET NO:- STRUCTURE- 02/02