

PROJECT NAME:-
STRUCTURAL DRAWING OF PROPOSED (G+7) EIGHT STORIED
RESIDENTIAL CUM COMMERCIAL BUILDING OF SEJAMEL HOQUE
S/O LT BANI ISRAIL, MR. TAPAS DUTTA S/O SHASHTHI DUTTA,
L.R. PLOT NO-472, L.R. KHATIAN NO-2065,2245, J. L. NO-209,
MOUZA-BANSOL, (UNDER ICHHAPUR GRAM PANCHAYAT) P. S.
DURGAPUR, DIST-PASCHIM BARDHAMAN, WEST BENGAL

- NOTES :-
- (±) 0.00 m LEVEL REFERS TO E.G.L.
 - UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
 - 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.
 - ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING
 - AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
 - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
 - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50x BAR DIA.
 - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C
 - CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:- a) Beam:-25mm, b) Column:-40mm, c) Slab:-15mm, d) Footing:-50mm, e) R.C.C. Wall:-20mm, f) Stair:- 20mm.
 - Grade of concrete will be M30 for column and M25 for beam and sub structure as per is: 456:2000.
 - Development length 50x for lap & splices should be provided as per the provisions laid down in SP34:1987.

SIGNATURE OF DEVELOPER/OWNER:-

Sejamel Hoque
Tapas Dutta

SIGNATURE OF ARCHITECT:-

Manju Monowara Khatoon
ARCHITECT
CA/2022/148222
GIDS, Durgapur-16

VETTED BY:-

DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.E.)

TITLE:-

GROUND FLOOR ROOF BEAM LAYOUT, TYPICAL FLOOR ROOF BEAM LAYOUT, SCHEDULE OF TIE BEAM AND TYPICAL FLOOR BEAM TYPICAL SECTION OF CANTILEVER BEAM, DETAIL OF SLAB DETAIL OF STAIR, TYP. DETAIL OF BEAM COLUMN JUNCTION.

DRAWN BY: J. ULAL

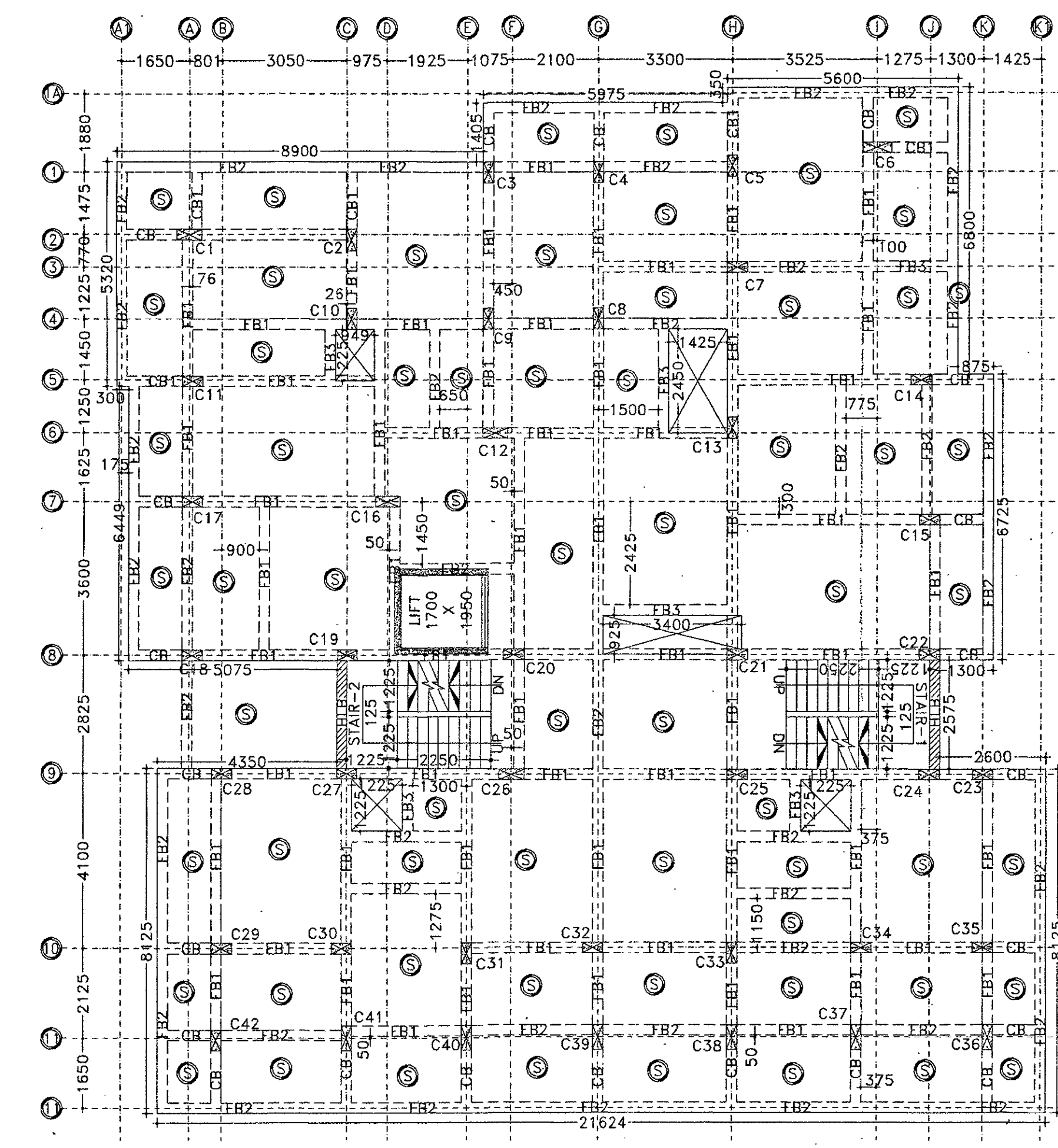
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SCALE : 1:100, 1:50, 1:25, N.T.S

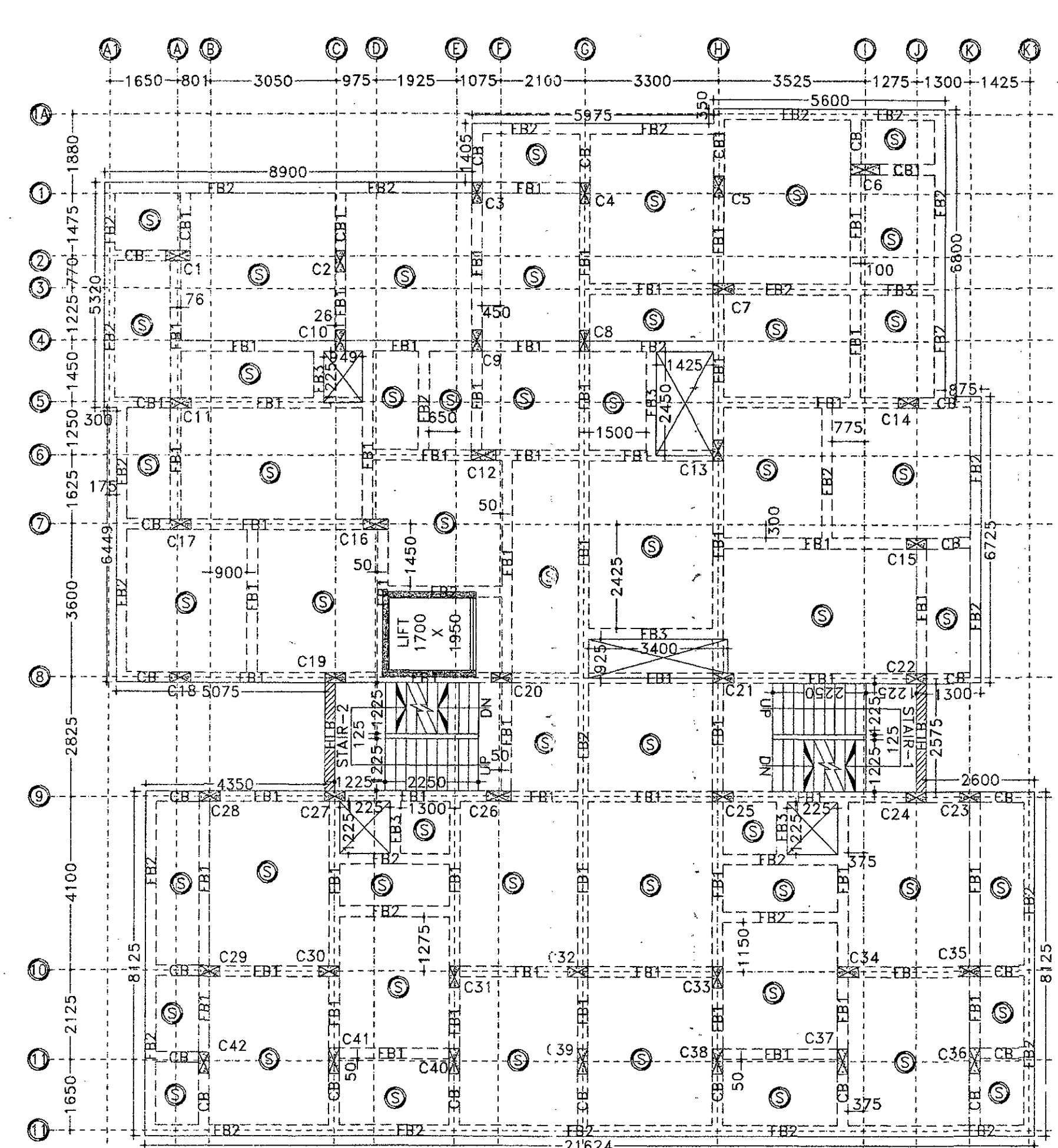
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DATE : 26.01.2024

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



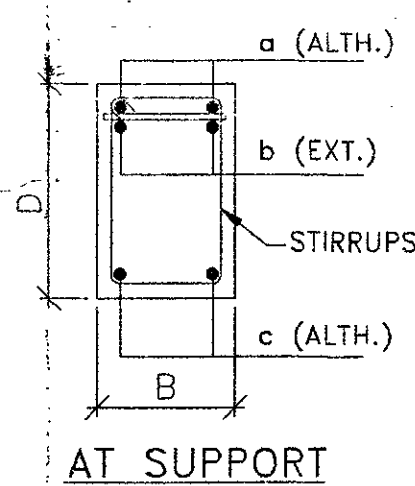
1 TYPICAL FLOOR ROOF BEAM LAYOUT PLAN
SCALE: 1:100

TABLE NO:-1 (SCHEDULE OF FLOOR BEAM)

Beam	Size	All Through	Ext. at End	Ext. at Cont.	Support	Span
Mkd	B D	Top(a) Bot.(c)	Top(b) Bot.(e)	Top(b) Bot.(e)	Support	Span
FB1	300 450	3-16 3-16	2-16 2-16	2-16 2-16	2L-8 2L-8	2L-8 2L-8
FB2	300 400	3-16 3-16	2-16 2-16	2-16 2-16	2L-8 2L-8	2L-8 2L-8
FB3	300 400	2-16 2-16	1-16 1-16	1-16 1-16	2L-8 2L-8	2L-8 2L-8
CB	300 500	3-20 3-20	2-20 2-20	2-20 2-20	2L-8 2L-8	2L-8 2L-8
CB1	300 500	3-20 3-20	2-20 2-20	2-20 2-20	2L-8 2L-8	2L-8 2L-8
HLB	300 450	2-20 2-20	2-16 2-16	2-16 2-16	2L-8 2L-8	2L-8 2L-8

TABLE NO:-03 (SCHEDULE OF TIE BEAM)

Beam	Size	All Through	Ext. at End	Ext. at Cont.	Support	Span
Mkd	B D	Top(a) Bot.(c)	Top(b) Bot.(e)	Top(b) Bot.(e)	Support	Span
TB	300 500	3-16 3-16	3-16 3-16	3-16 3-16	2L-8 2L-8	2L-8 2L-8



TYPICAL CROSS SECTION OF FLOOR BEAM

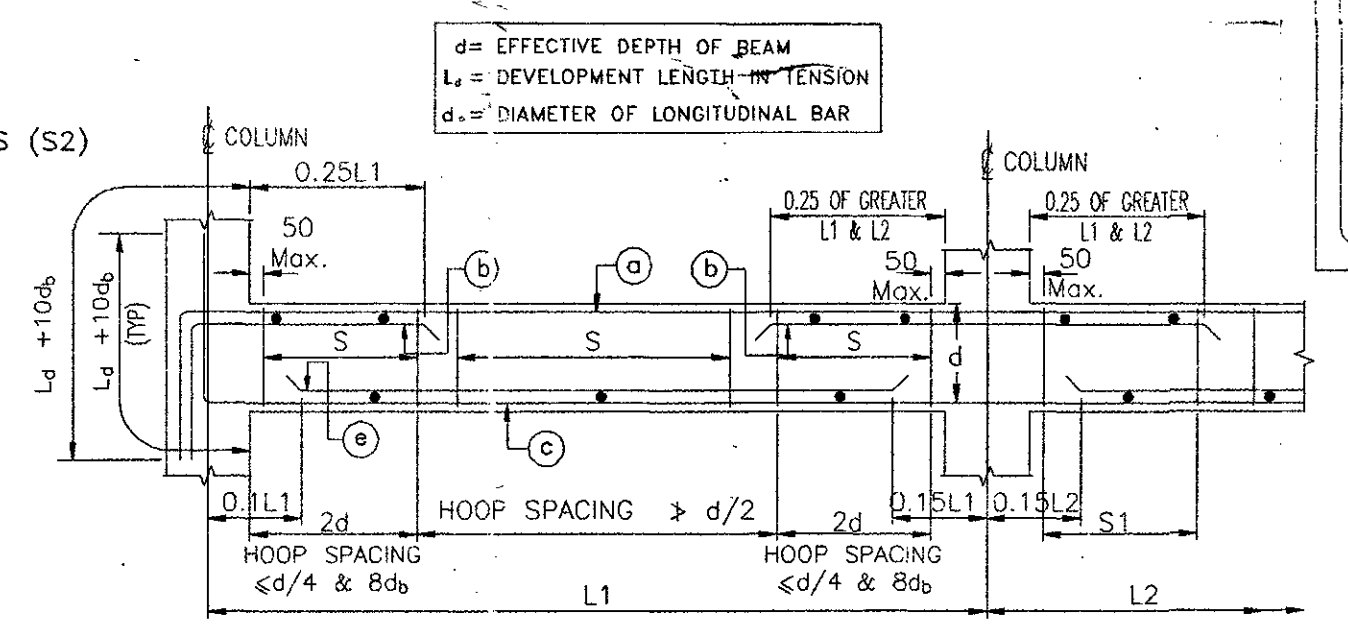
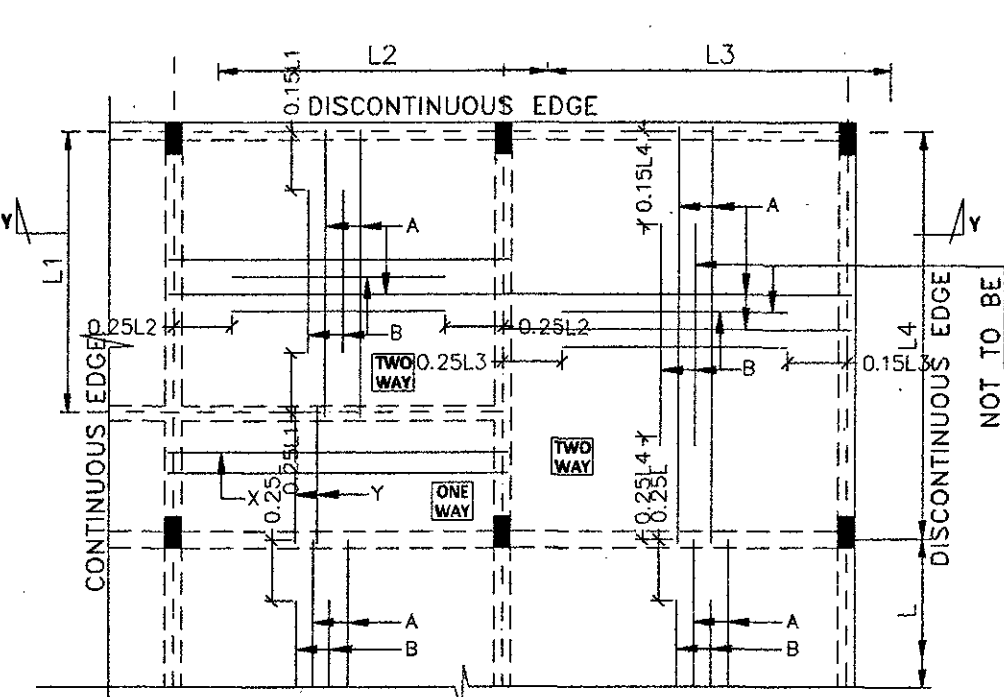
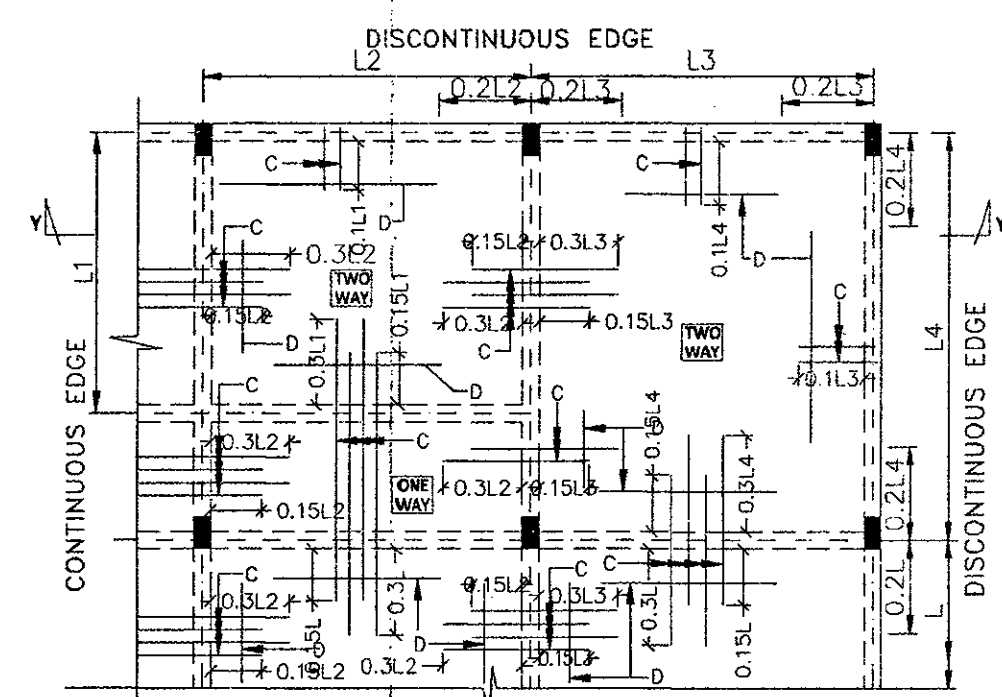


FIGURE NUMBER-1

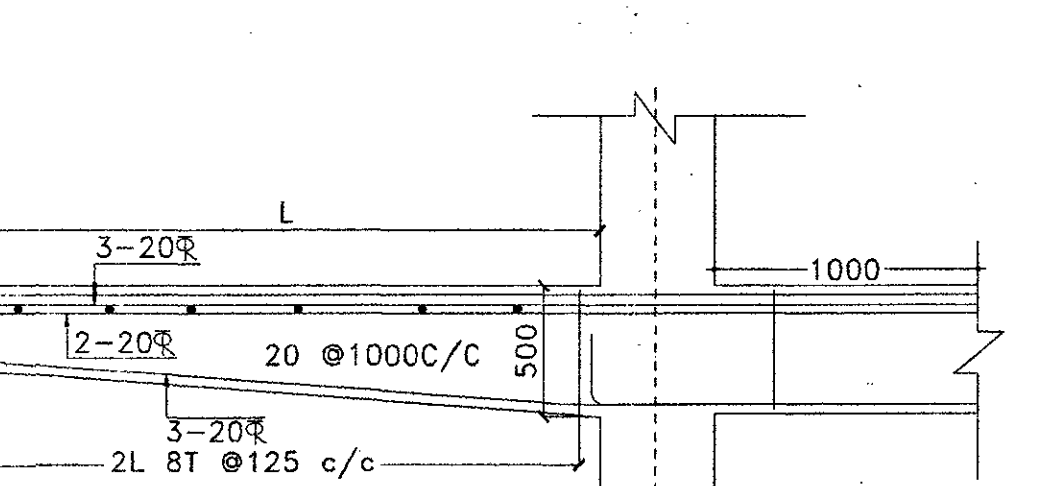


TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)

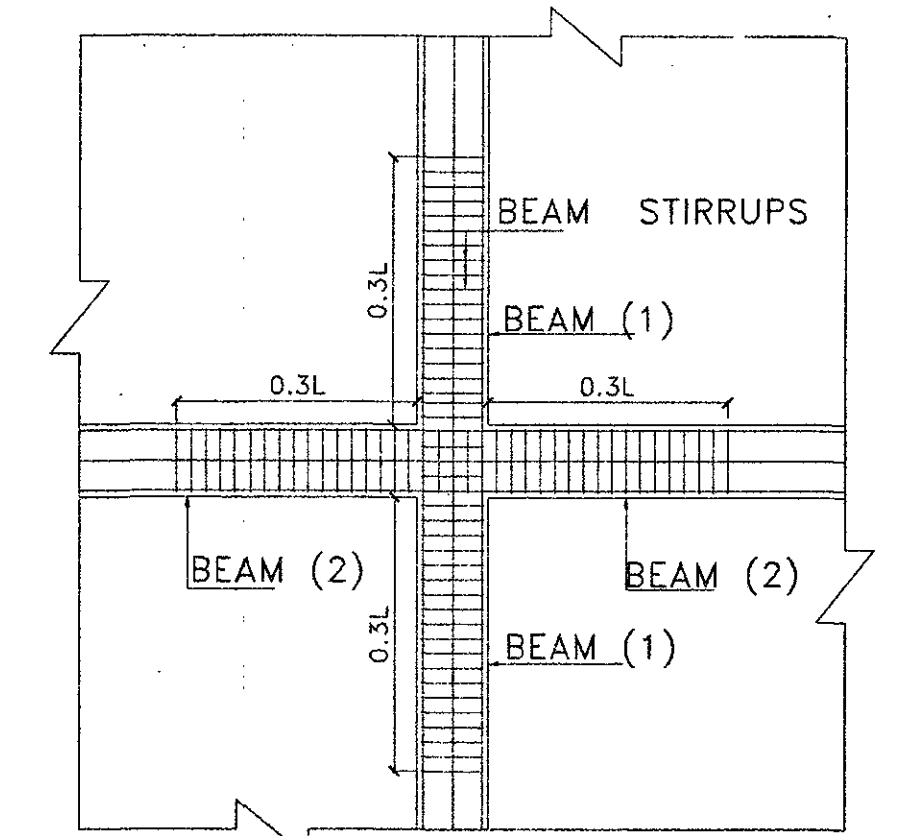


TYPICAL DETAILS OF SLAB REINFORCEMENT

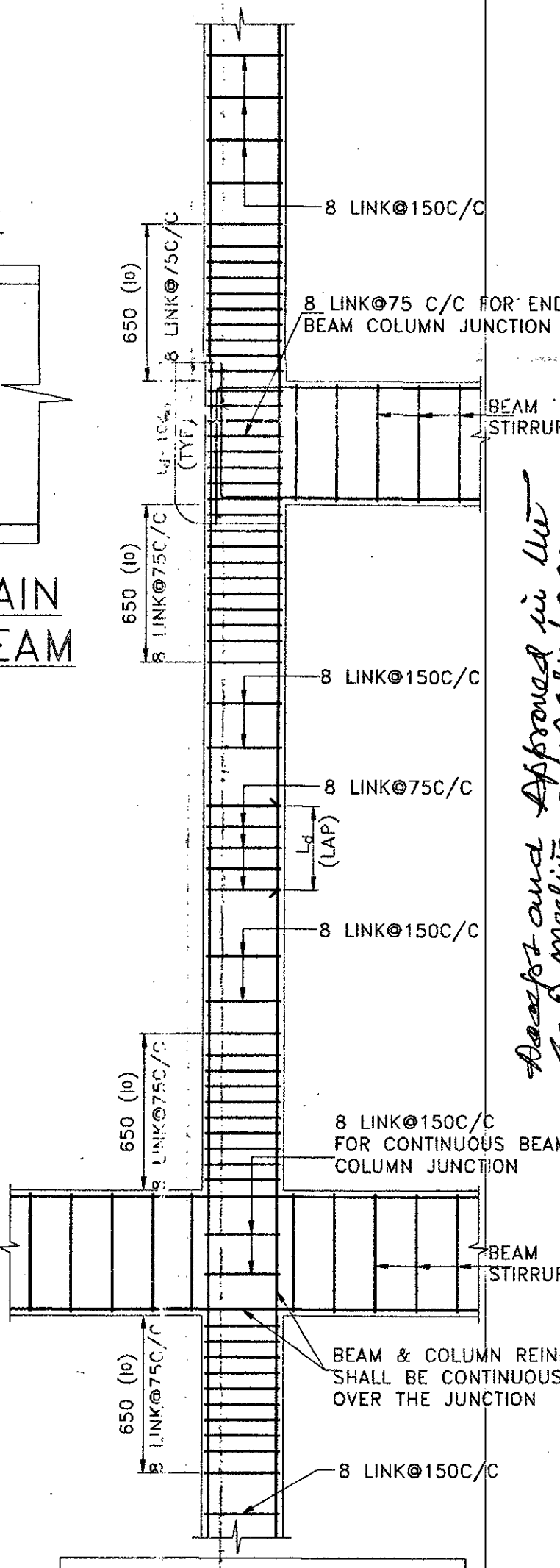
3 TYPICAL SECTION OF CANTILEVER BEAM(CB)
SCALE: NTS



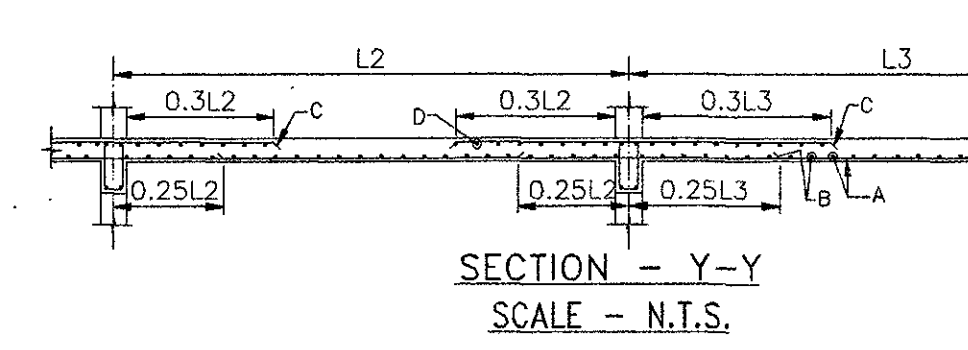
3 TYPICAL SECTION OF CANTILEVER BEAM(CB1)
SCALE: NTS



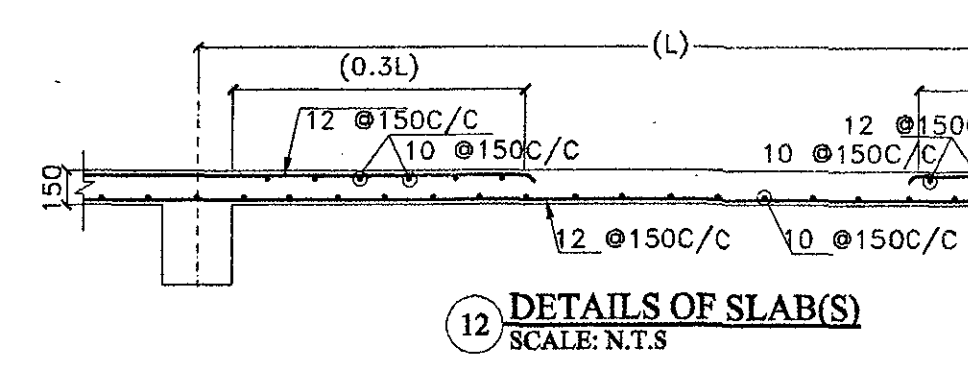
9 DETAILS OF CROSS BEAM JUNCTION
SCALE: 1:50



TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE: 1:25



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



12 DETAILS OF SLAB(S)
SCALE: N.T.S.

TABLE NO:-1 (SCHEDULE OF TYPICAL FLOOR SLAB)

SLAB THICKNESS - 150 mm (S)	BAR MKD.	REINFORCEMENT	POSITION
A	12T	150 mm C/C (ALL THROUGH)	BOT.
B	10T	150 mm C/C (CURTAILMENT)	BOT.
C	12T	150 mm C/C (CURTAILMENT)	TOP
D	12T	150 mm C/C (CURTAILMENT)	TOP
X	10T	150 mm C/C (ALL THROUGH)	BOT.
Y	10T	150 mm C/C (ALL THROUGH)	BOT.

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

SWADESH KUMAR MONDAL
Geo-Technical Engineer
M.I.G.S. No-LM/1242
LIC NO-DMC/BPD/GEO-1134

SIGNATURE OF STRUCTURAL ENGINEER:-

HIRAK GHOSH
Structural Engineer
Lic No. L.B.P.M/1631AMC-DMC/BPD/165
DCE, B-TECH, G.I.D.S. Durgapur-16
Contact No.- 760284157

CHECKED BY:- S AKHTAR

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

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