



SCHEDULE OF R.C.C. COLUMNS

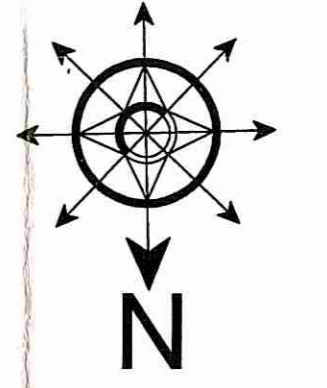
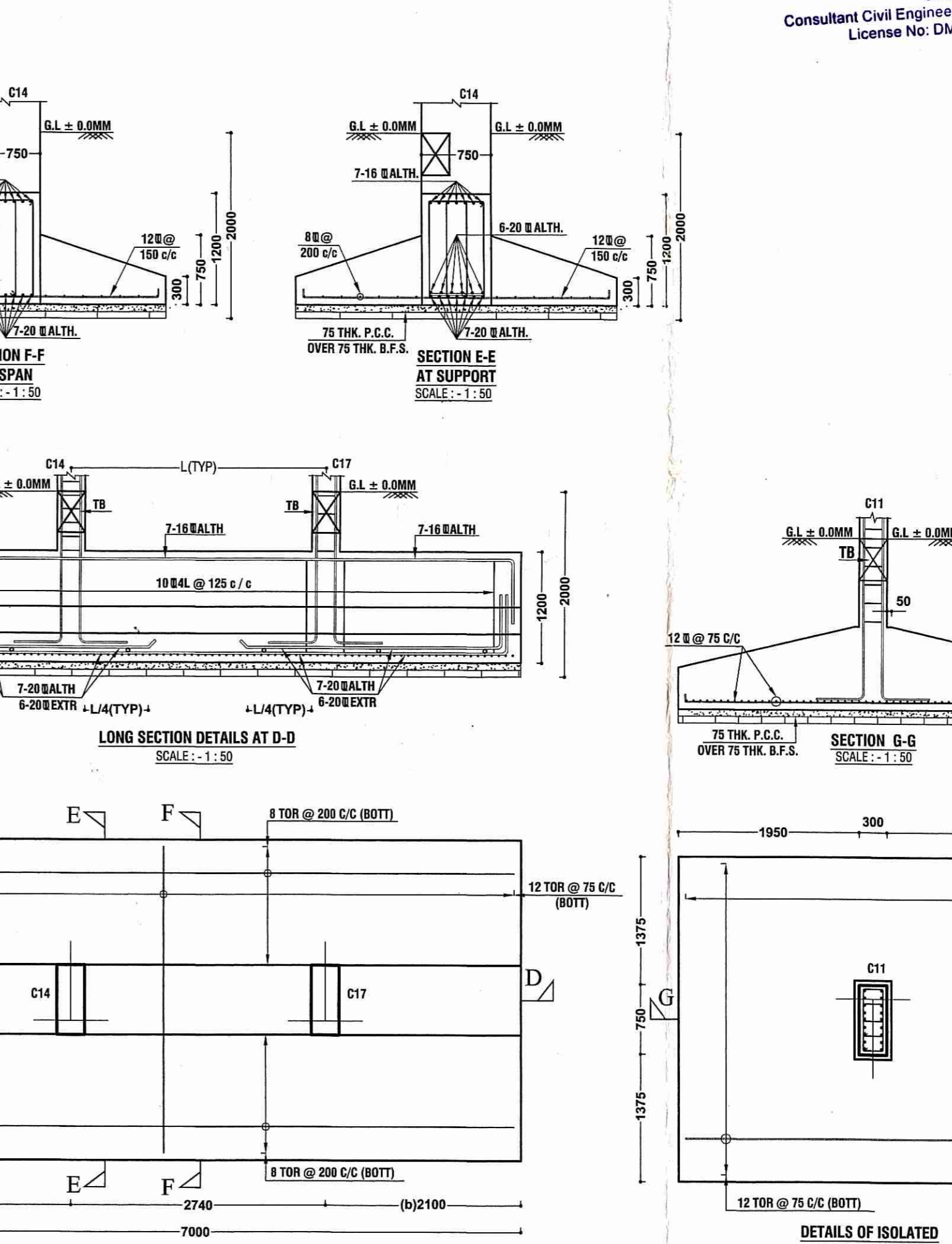
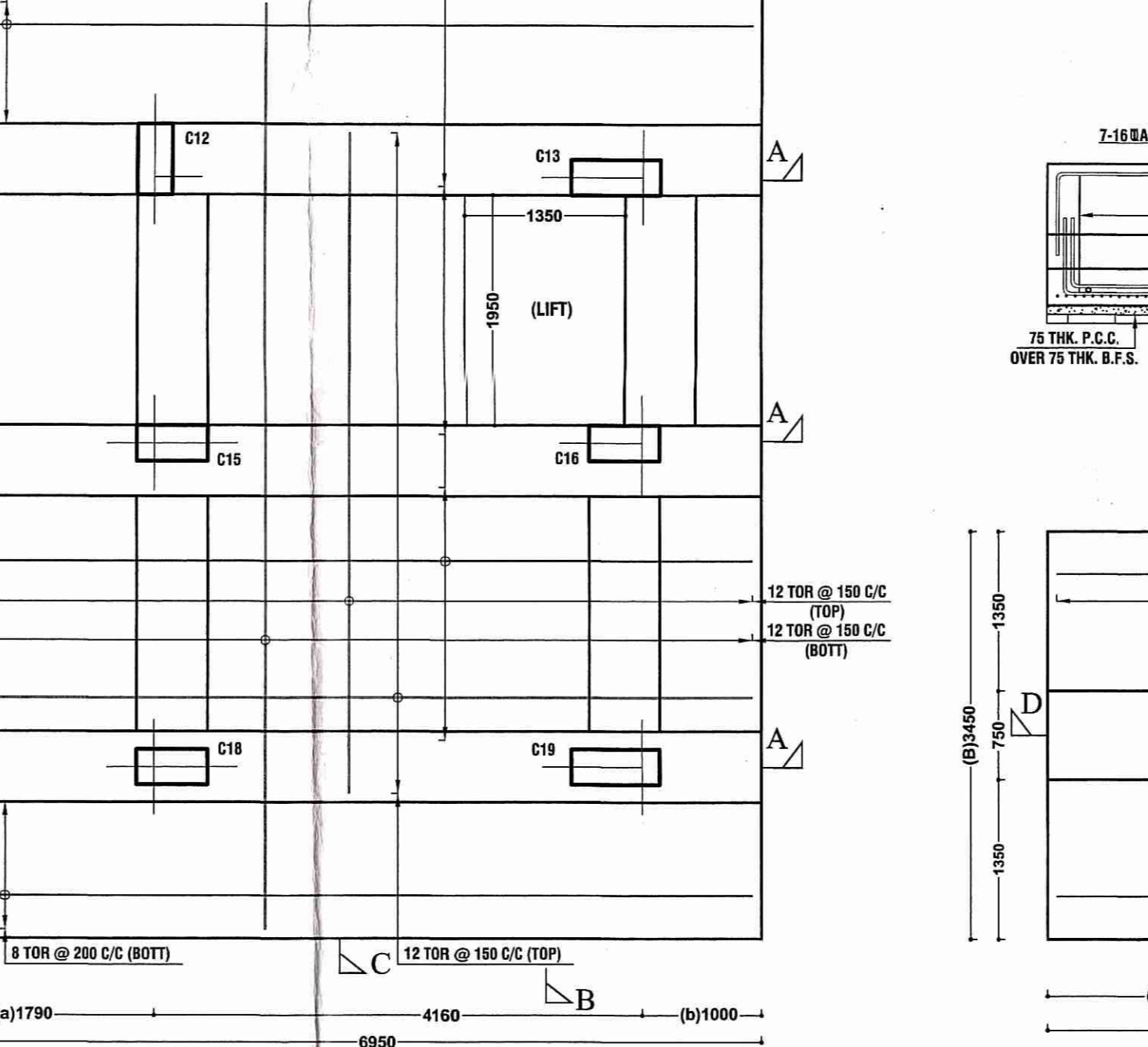
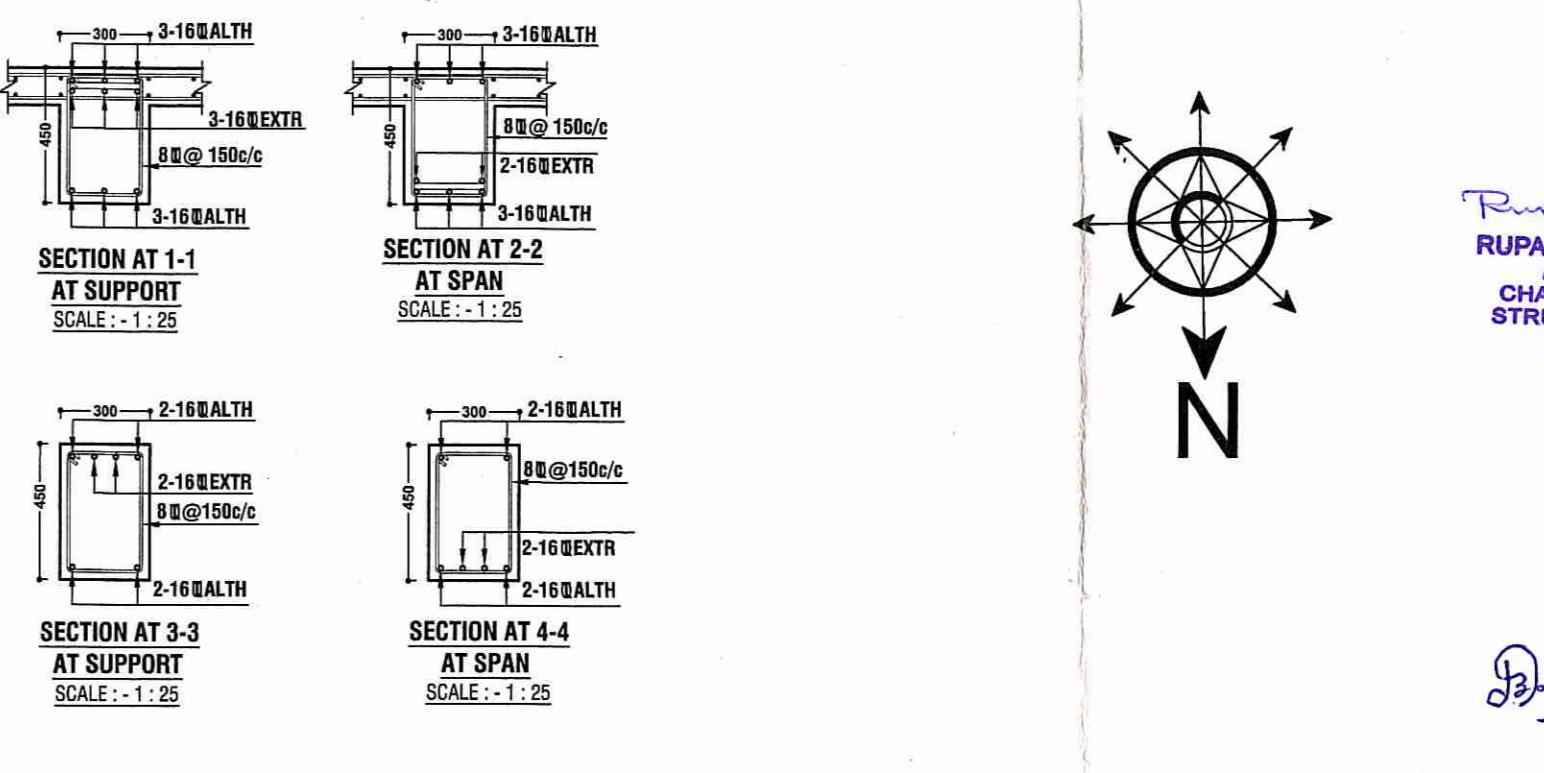
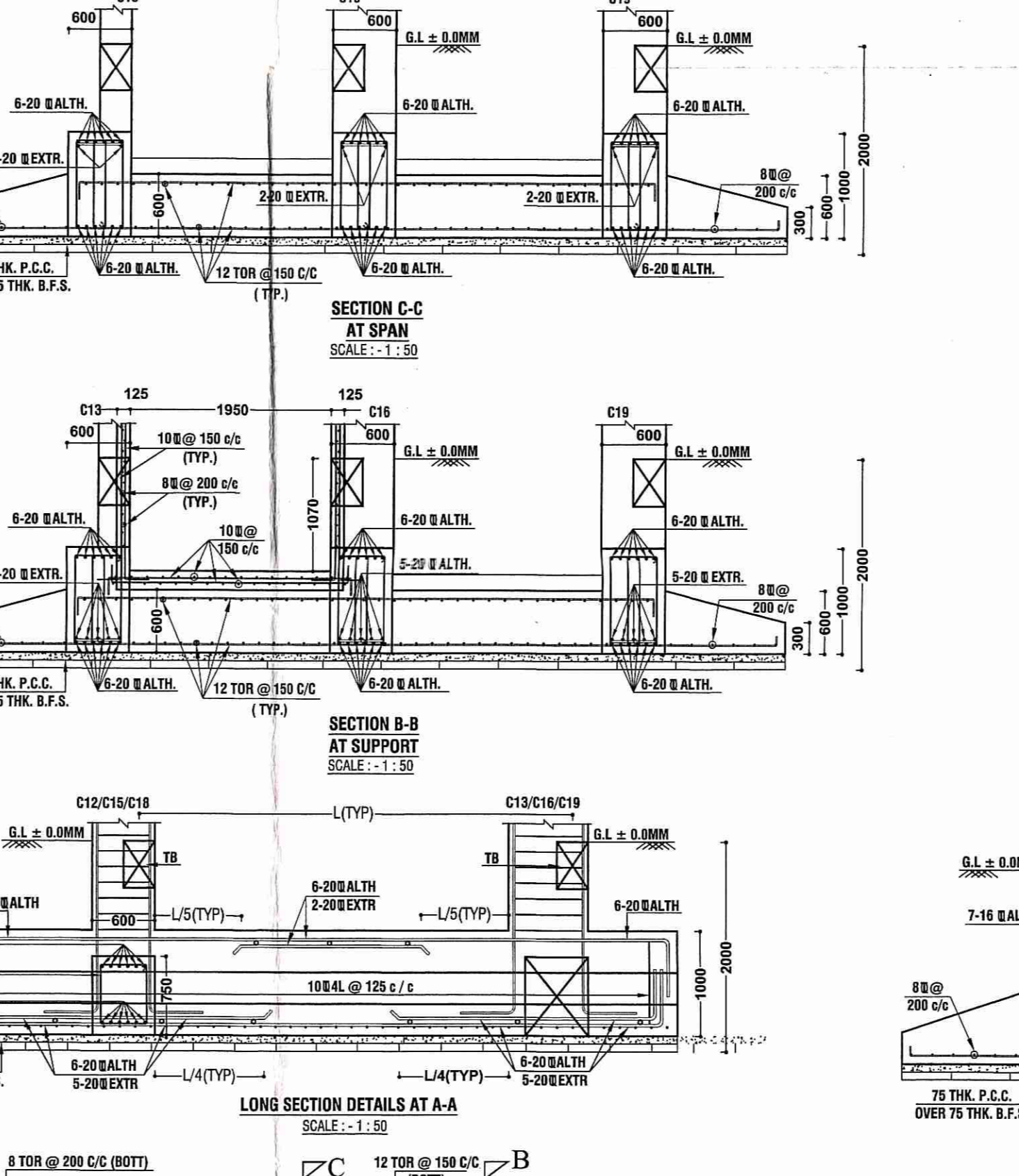
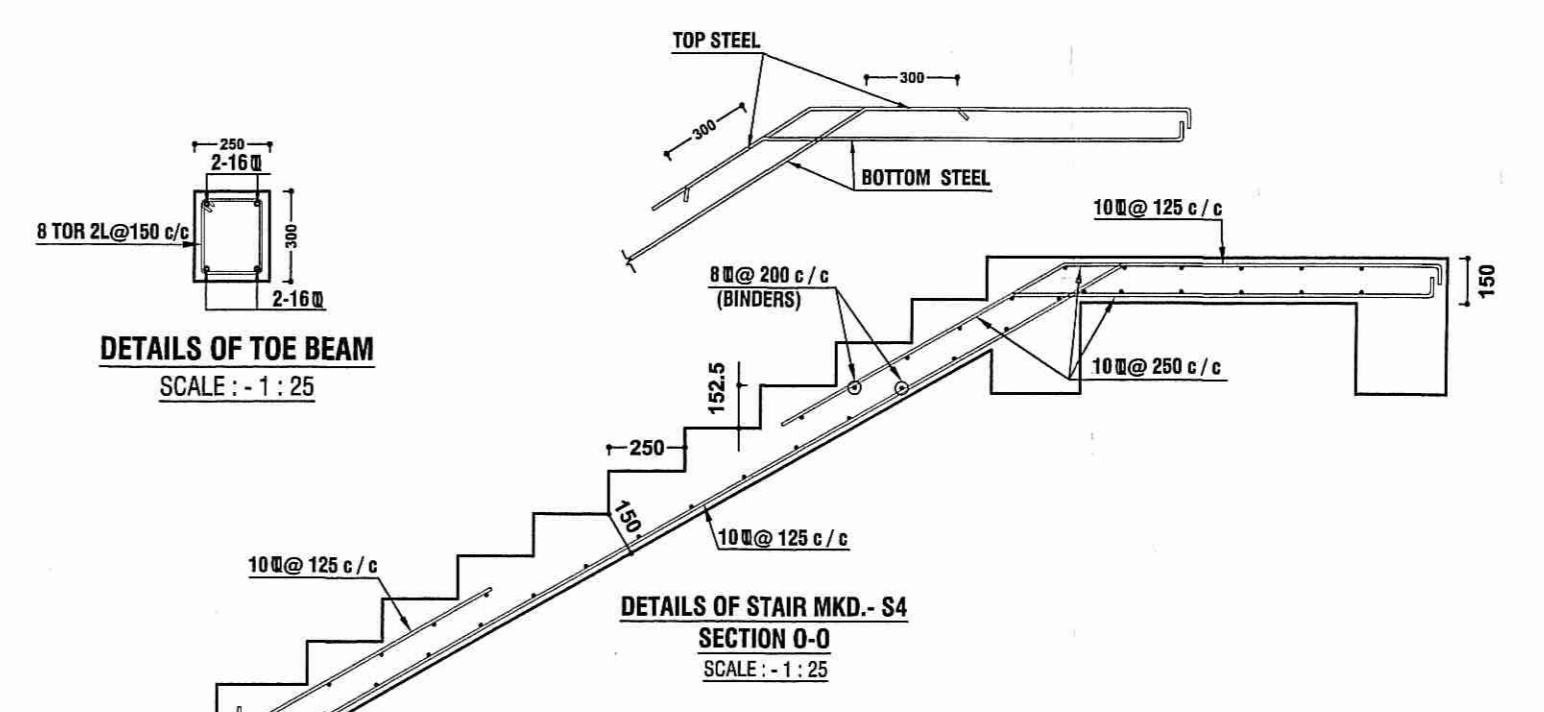
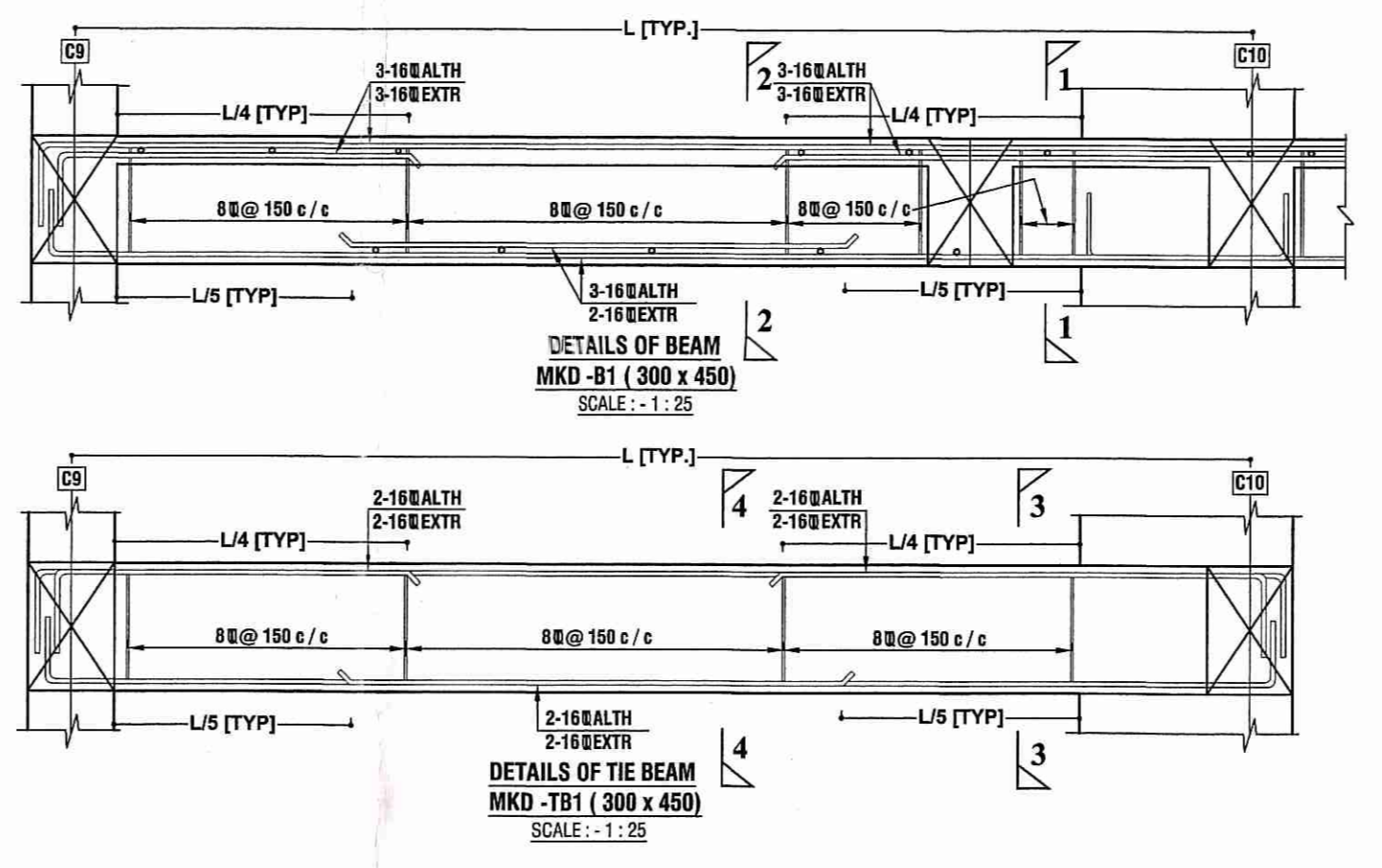
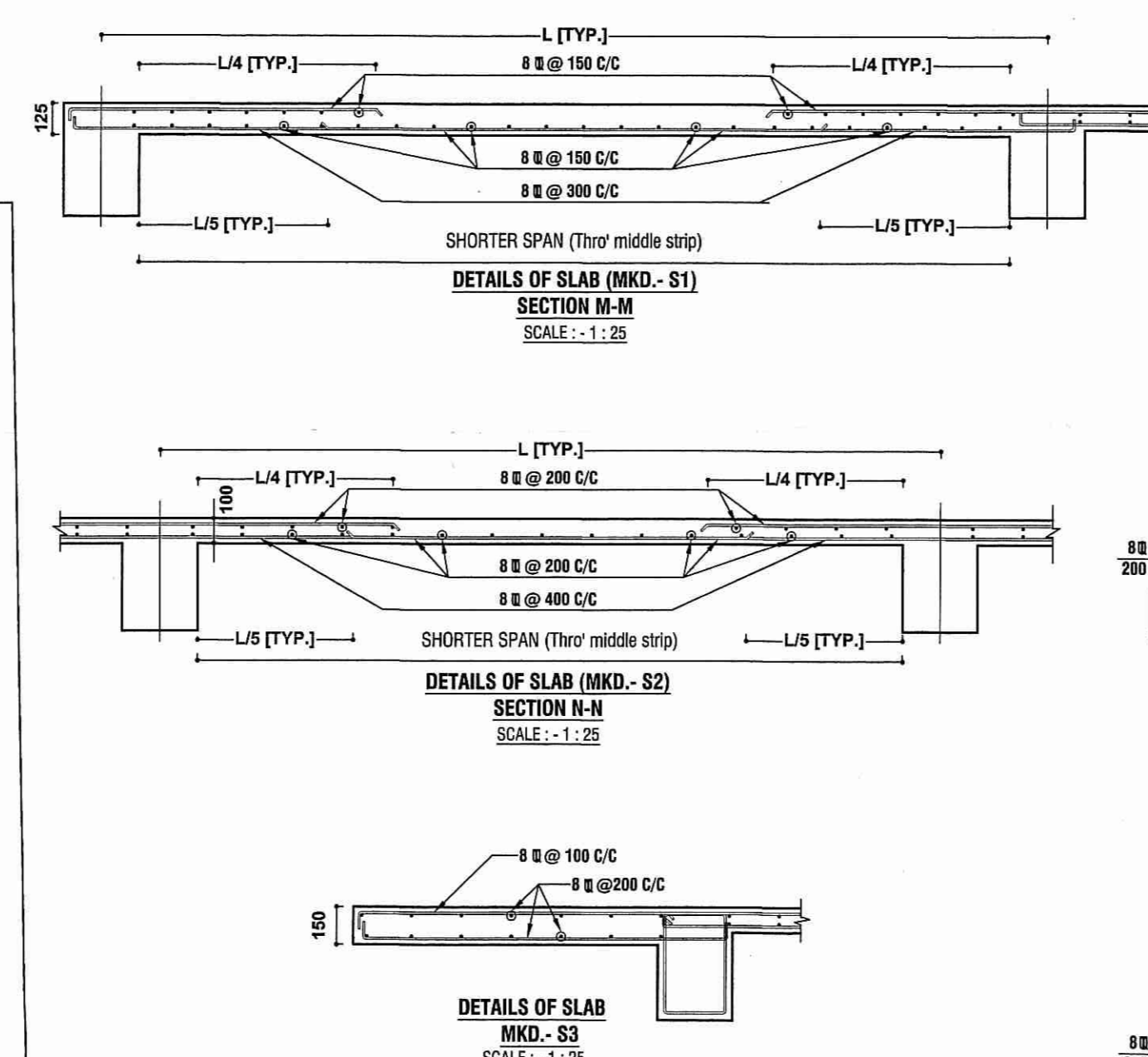
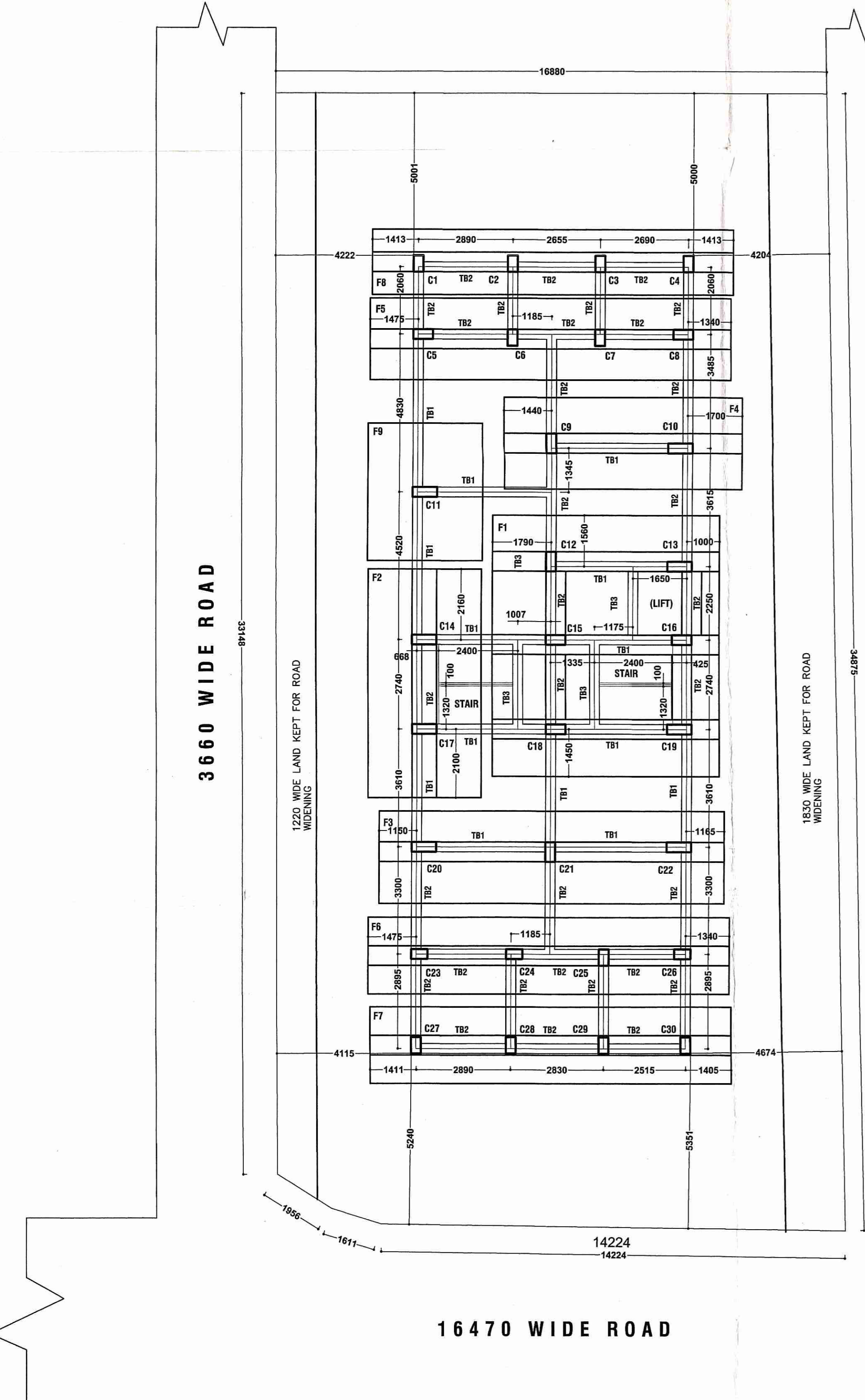
SIZE & REINFORCEMENT FROM BASE TO 2ND FLOOR (L.V.L. TO 4TH FLOOR)	SIZE & REINFORCEMENT FROM 4TH FLOOR TO 6TH FLOOR (L.V.L. TO 6TH FLOOR)	SIZE & REINFORCEMENT FROM 6TH FLOOR TO 7TH FLOOR (L.V.L. TO 7TH FLOOR)	STIRRUP
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC
300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	300 X 300, 4-16, 8-20	8 TOR @ 200 CC

FON. MKD.		SLAB DIMENSIONS				INVERTED T R I B B E A M				F O O T I N G			
		(a)	(b)	(c)	(d)	LONG REINFORCEMENT AT SUPPORT		LONG REINFORCEMENT AT SPAN		TERMINAL REINFORCEMENT (BOTTOM)		LONG REINFORCEMENT (BOTTOM)	
F1	C12+C13+C15+C16+C18+C19	8000 X 6500	2.16	2.1	600 X 300	6-20 @ 200	6-20 @ 200	6-20 @ 200	6-20 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F2	C14+C17	7000 X 7000	2.1	3.45	750 X 300	7-16 @ 200	7-20 @ 200	7-16 @ 200	7-20 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F3	C20+C21+C22	2850 X 10500	1.15	1.05	600 X 300	7-16 @ 200	7-20 @ 200	7-16 @ 200	7-20 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F4	C8+C10	2800 X 7300	1.44	1.7	600 X 300	6-16 @ 200	6-20 @ 200	6-16 @ 200	6-20 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F5	C5+C6+C7+C8	2500 X 11050	1.475	1.34	450 X 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F6	C23+C24+C25+C26	2350 X 10500	1.475	1.34	450 X 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F7	C27+C28+C29+C30	2350 X 10500	1.41	1.405	450 X 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c
F8	C1+C2+C3+C4	2000 X 11000	1.413	1.413	450 X 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	6-16 @ 200	10 @ 150 c/c	12 @ 150 c/c	8 @ 200 c/c	8 @ 200 c/c

BEAM MKD.		BEAM SECTION	SIZE & REINFORCEMENT AT SUPPORT		SIZE & REINFORCEMENT AT SPAN		STIRRUP AT SPAN	
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM
B1	300 X 450	3-16 @ 3-16	3-16 @ 3-16	8 TOR 2L @ 150 C/C	3-16 @ 3-16	3-16 @ 3-16	8 TOR 2L @ 150 C/C	8 TOR 2L @ 150 C/C
B2	300 X 450	2-16 @ 3-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	2-16 @ 3-12 @ 3-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	8 TOR 2L @ 150 C/C
B3	300 X 450	2-16 @ 3-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	2-16 @ 3-12 @ 3-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	8 TOR 2L @ 200 C/C
B4	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	8 TOR 2L @ 200 C/C
B5	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	8 TOR 2L @ 150 C/C
B6	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 125 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 125 C/C	8 TOR 2L @ 125 C/C
TB1	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 150 C/C	8 TOR 2L @ 150 C/C
TB2	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	8 TOR 2L @ 200 C/C
TB3	300 X 450	2-16 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	2-16 @ 3-12 @ 2-16	3-12 @ 3-16	8 TOR 2L @ 200 C/C	8 TOR 2L @ 200 C/C

SLAB MKD.		THICKNESS (mm)	REINFORCEMENT PARALLEL TO SHORTER DIRECTION		REINFORCEMENT PARALLEL TO LONGER DIRECTION	
			AT MIDDLE SPAN	AT END SPAN	AT MIDDLE SPAN	AT END SPAN
S1	125	8 @ 150 c/c (top)	8 @ 300 c/c (top)	8 @ 150 c/c (top)	8 @ 150 c/c (top & bott.)	
S2	100	8 @ 200 c/c (top)	8 @ 400 c/c (top)	8 @ 200 c/c (top)	8 @ 200 c/c (top & bott.)	
S3	150	8 @ 100 c/c (top)	8 @ 100 c/c (top)	8 @ 100 c/c (top)	8 @ 200 c/c (top & bott.)	
S4	150	8 @ 200 c/c (bottom)	8 @ 200 c/c (bottom)	10 @ 125 c/c (top)	10 @ 250 c/c (top)	

FON. MKD.		UNDER COLUMN	SIZE OF FOUNDATION		REINFORCEMENT BOTHWAYS AT BOTTOM
			THICKNESS (MM)	AT TOE	
F9	C11	4200 X 3300	900	450	12 TOR @ 75 C/C



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DCE, A.M.A.S.T., M.P.M.V.E.I.
Consultant Civil Engineer & Approved Valuer
License No: DMCC/PD-27

- ### SPECIFICATIONS
- DEPTH OF FOUNDATION IS AT 2.0 M. BELOW EXISTING G.L.
 - SAFE BEARING CAPACITY OF SOIL IS AS PER SOIL TEST REPORT.
 - FOUNDATIONS MUST BE PLACED WITH RESPECT TO THE CENTRE OF THE COLUMNS.
 - GRADE OF CONCRETE IS M-20 (1:1.5:3, NOMINAL MIX) AND GRADE OF STEEL IS Fe50.
 - CLEAR COVER TO MAIN REINFORCEMENT IS AS PER BELOW -
a) FOUNDATION - 75 MM
b) COLUMN - 40 MM
c) BEAM - 25 MM
d) SLAB - 20 MM
 - ALL SLABS MUST BE MONOLITHIC WITH SUPPORTING BEAM.
 - ALL OTHER SPECIFICATIONS AS PER NATIONAL BUILDING CODE OF INDIA.

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C. OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT.

Tushar Baran Pahari
TUSHAR BARAN PAHARI
18 E. (Sahapur)
E.E. NO-748
CHARTERED ENGINEER
W-2222, Puriashu Pathy,
Rajshahi, Kolkata-700 034
SIC OF STRUCTURAL ENGINEER.

Swaraj Basu
Ar. Swaraj Basu
Registration No-C/2019/119724
M-2647178928
SIGNATURE OF L.B. ARCHITECT

Tushar Baran Pahari
TUSHAR BARAN PAHARI
18 E. (Sahapur)
E.E. NO-748
CHARTERED ENGINEER
W-2222, Puriashu Pathy,
Rajshahi, Kolkata-700 034
SIC OF STRUCTURAL ENGINEER.

- SIC OF ARCHITECT
- 571 (4) 20/1/19/19
 - Subrata Bhowmick
 - Swastika Bhowmick
 - Sumanta Bhowmick
- SIGNATURE OF OWNERS

STRUCTURAL DRAWING OF A PROPOSED SEVEN STORIED (G+5+1 EXT.) RESIDENTIAL (APARTMENT) BUILDING OF S.M.T. GITARANI BHOWMICK, 2.SRI SUBRATA BHOWMICK, 3.SRI SUDIPTA BHOWMICK, 4.SRI SUMANTA BHOWMICK, OVER R.S. PLOT NO. - 1503,1502, L.R. PLOT NO. - 3920, OF MOUZA - BHIRINGI, J.L. NO - 119, P.S. - DURGAAPUR, DIST - PASCHIM BARDHAMAN

HOLDING NO. - 79/NEW I.D.NO. - 1404
CIRCLE / WARD NO. - 20
NAME OF STREET - SURYASEN PALLY BENACHITY, DGP-13