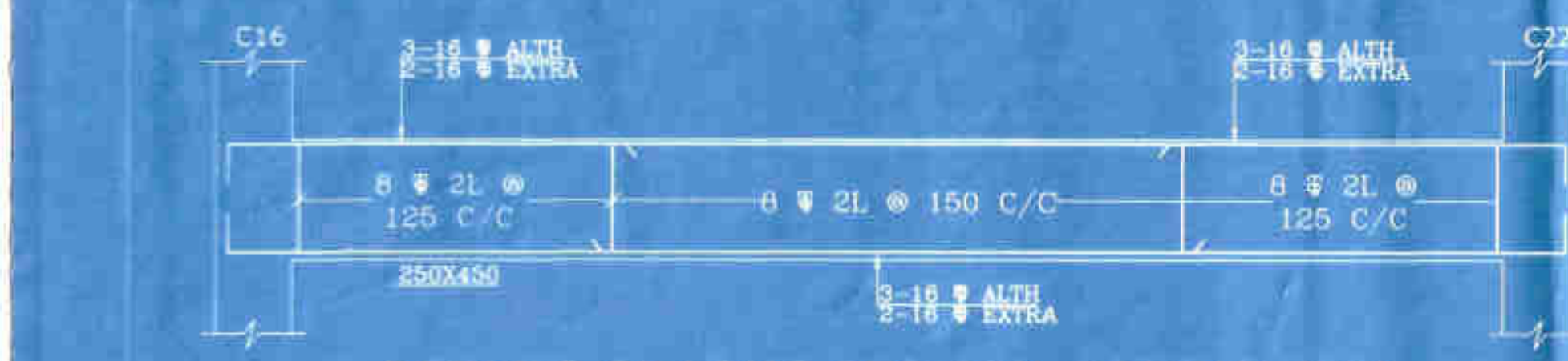
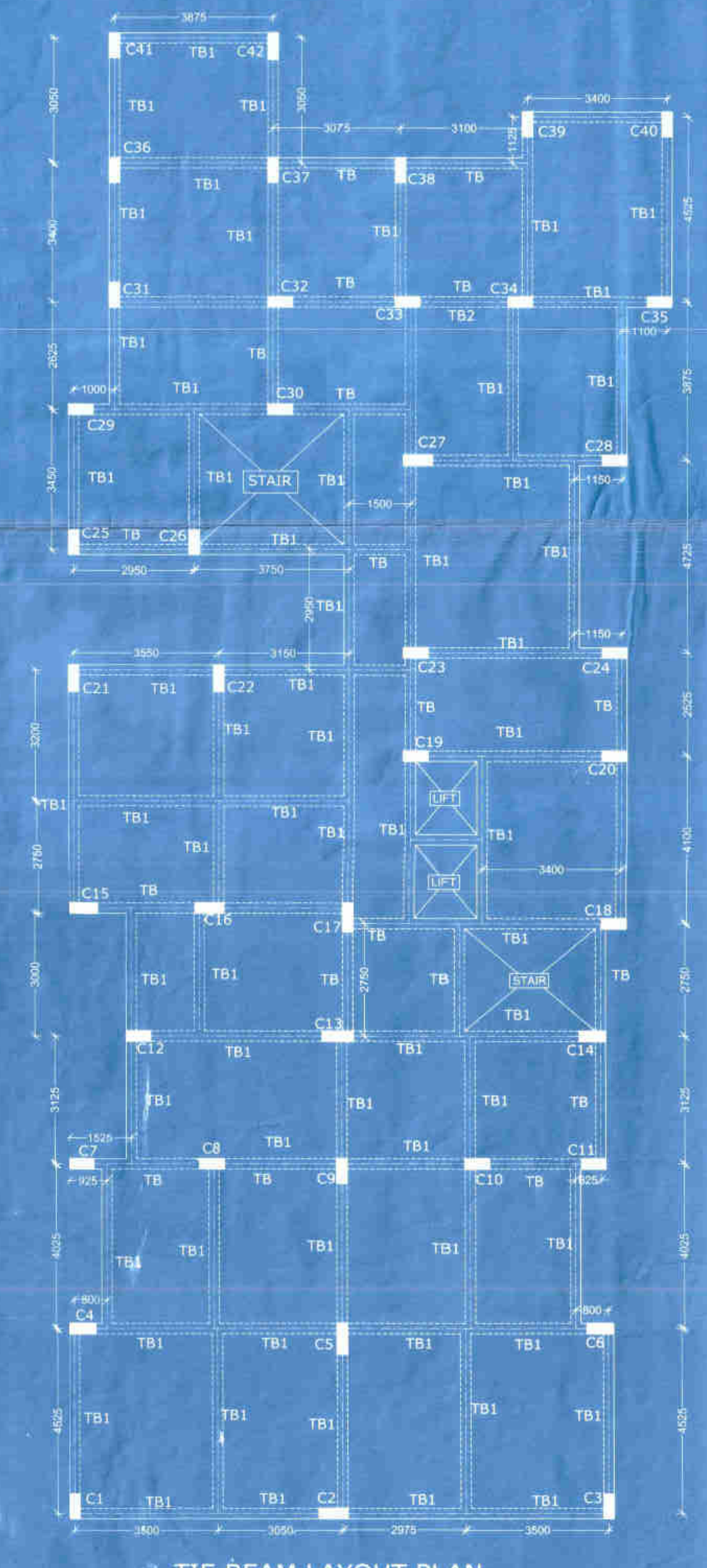


DETAILS OF LONG SECTION OF BEAM (B3)
SCALE - 1:25

DETAILS OF SLAB(S1)
SCALE - 1:25

DETAILS OF SLAB(S2)
SCALE - 1:25



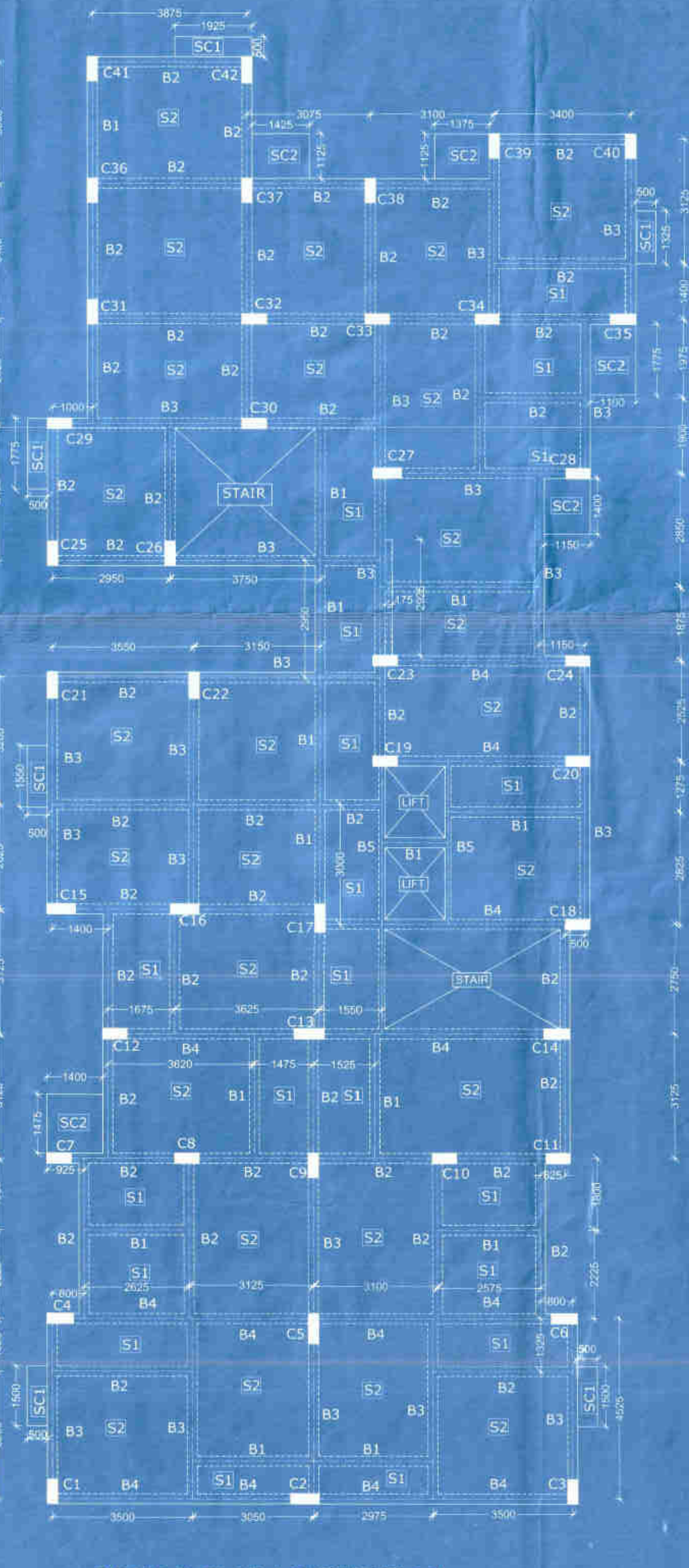
TIE BEAM LAYOUT PLAN
SCALE - 1 : 100
BLOCK-I

SCHEDULE OF TYPICAL FLOOR BEAM & TIE BEAM:-

BEAM MKD.	SIZE (MM X MM)	ALTHROUGH MAIN REINFORCEMENT		EXTRA REINFORCEMENT		STIRRUPS
		AT BOT.	AT TOP	EX. TOP AT SUPPORT	EX. TOP AT BOT. AT SPAN	
B1	250X400	2 - 16 ⌀	2 - 16 ⌀	2 - 12 ⌀	2 - 12 ⌀	8 ⌀ 2L @125 C/C(SUPPORT) 8 ⌀ 2L @150 C/C(SPAN)
B2	250X400	2 - 16 ⌀	2 - 16 ⌀	2 - 16 ⌀	2 - 16 ⌀	8 ⌀ 2L @125 C/C(SUPPORT) 8 ⌀ 2L @150 C/C(SPAN)
B3	250X450	3 - 16 ⌀	3 - 16 ⌀	2 - 16 ⌀	2 - 16 ⌀	8 ⌀ 2L @125 C/C(SUPPORT) 8 ⌀ 2L @150 C/C(SPAN)
B4	250X550	3 - 20 ⌀	3 - 20 ⌀	2 - 20 ⌀	2 - 20 ⌀	8 ⌀ 2L @125 C/C
B5	150X350	3 - 12 ⌀	3 - 12 ⌀			8 ⌀ 2L @125 C/C
TB	250X500	3 - 16 ⌀	3 - 16 ⌀			8 ⌀ 2L @125 C/C
TB1	250X500	3 - 20 ⌀	3 - 20 ⌀			8 ⌀ 2L @125 C/C

FOR BEAM EXTRA TOP BARS AT SUPPORT ARE EXTENDED UPTO L/4 AND EXTRA BOTTOM BARS AT SPAN ARE CIRCULATED AT L/7 FROM SUPPORT WHERE L IS SPAN OF THE BEAM.

FOR BEAM COVER TO BE PROVIDED 25 MM AT BOTTOM AND 15 MM AT TOP.



BEAM & SLAB LAYOUT PLAN
(1st. TO 7th & ROOF LEV.)
SCALE - 1 : 100
BLOCK-I

COLUMN SCHEDULE

NAME OF COLUMN	COL. GROUP MKD. SIZE	FOUNDATION LEV. TO 2ND FLOOR LEV.	FROM 2ND FLOOR LEV. TO ROOF LEV.	LATERAL TIES
C1, C3,C7, C8, C9, C10, C11,C12,C18,C19,C20, C23,C24,C25,C26,C28, C29,C30,C31,C32,C33, C34,C35,C36,C37,C38, C39,C40,C41	CG - 1 250 X 600	250 600 6NO.-20T 6NO.-16T	250 600 12NO.-16T	2l 8T @150 c/c, 3set **
C4, C6, C14, C21, C22,C42	CG - 2 250 X 650	250 650 12NO.-20T	250 650 6NO.-20T 6NO.-16T	2l 8T @150 c/c, 3set **
C2, C15, C16, C17, C27	CG - 3 250 X 700	250 700 16NO.-20T	250 700 10NO.-20T 6NO.-16T	2l 8T @150 c/c, 4set **
C5, C13	CG - 4 250 X 750	250 750 20NO.-20T	250 750 10NO.-20T 10NO.-16T	2l 8T @150 c/c, 4set **

SCHEDULE OF SLAB:-

SLAB MKD.	THICKNESS	REINFORCEMENT		EXTRA	
		ALONG SHORTER DIRECTION ALTH. CRANKED	ALONG LONGER DIRECTION ALTH. CRANKED	AT SUPPORT ALONG SHORTER DIRECTION	AT SUPPORT ALONG LONGER DIRECTION
S1	125 MM	8 ⌀ @ 135 MM. C/C	8 ⌀ @ 135 MM. C/C	8 ⌀ @ 270 MM. C/C	8 ⌀ @ 270 MM C/C
S2	125 MM	8⌀ @ 115 MM. C/C	8 ⌀ @ 115 MM. C/C	8 ⌀ @ 230MM. C/C	8 ⌀ @ 230 MM. C/C
SC1	100 MM	8⌀ @ 100 MM. C/C	8 ⌀ @ 100 MM. C/C		
SC2	175 MM	10⌀ @ 150 MM. C/C	10⌀ @ 150 MM. C/C		

FOR SLAB TOP BARS ARE EXTENDED UPTO 0.30 L AT INTERIOR SUPPORT AND 0.1 L AT THE END SUPPORT. BOTTOM BARS ARE CURTAILED AT 0.25 L AT INTERIOR SPAN AND 0.15 L AT END SPAN.
COVER 15 MM AT TOP AND BOTTOM.

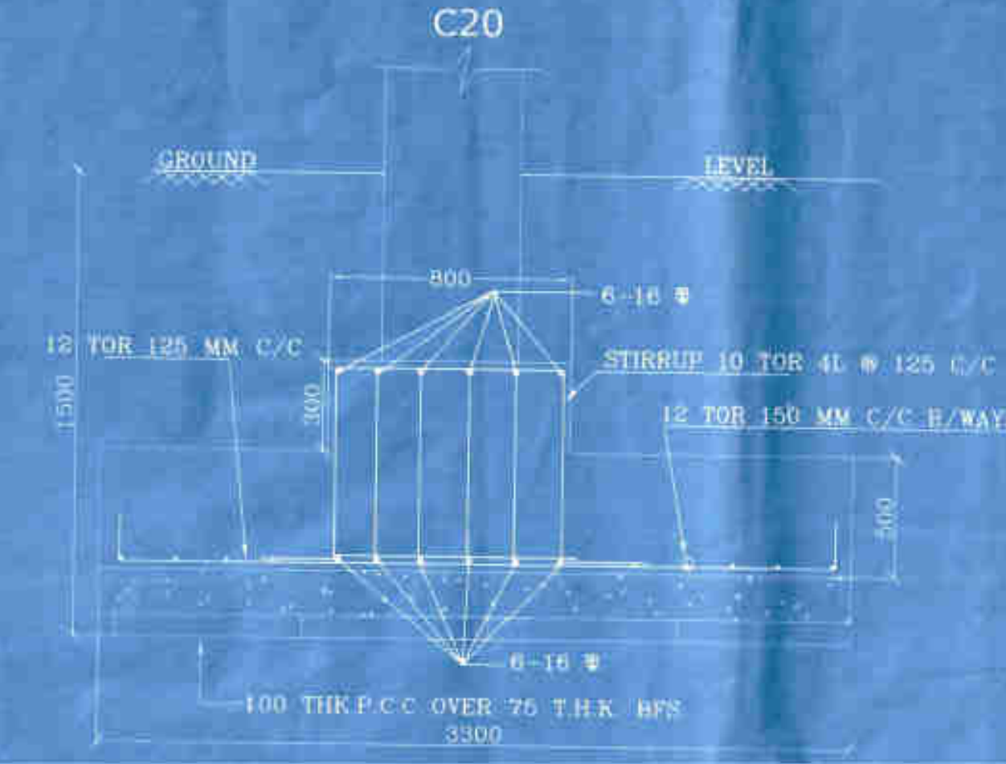
SCHEDULE OF FOUNDATION :-

MKD.	UNDER COLS.	SIZE OF FOOTING(MM)	THICKNESS (MM)	SIZE OF PEDESTAL (LXBXH)	REINFORCEMENT	
					ALONG SHRT. DIRC.	ALONG LONG. DIRC.
F1	C1,C3,C12,C37	3300X3300	500	550X800X800 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @135 MM C/C	12 TOR @135 MM C/C
F2	C2,C5,C27	3900X3900	550	550X850X850 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @115 MM C/C	16 TOR @115 MM C/C
F3	C7,C21, C35,C36,C40,C41	3000X3000	450	550X800X750 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @150 MM C/C	16 TOR @150 MM C/C
F4	C4,C6,C22,C28	3600X3600	550	550X800X850 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @125 MM C/C	16 MM TOR @125 MM C/C
F5	C13	3000X4000	500	550X800X750 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @150 MM C/C	16 MM TOR @115 MM C/C
F6	C8	3150X3350	500	550X800X800 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @135 MM C/C	16 MM TOR @135 MM C/C
F7	C15,C16	2950X3050	450	550X800X750 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @150 MM C/C	16 MM TOR @150 MM C/C
F8	C29,C31,C42	3200X2800	450	550X800X750 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @150 MM C/C	16 MM TOR @150 MM C/C
F9	C38,C39	3100X3300	500	550X800X800 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @135 MM C/C	16 MM TOR @135 MM C/C
F10	C23	4500X2700	500	550X800X750 12 -16 MM 8MM. STIRR.@150 C/C	16 MM TOR @150 MM C/C	16 MM TOR @115 MM C/C

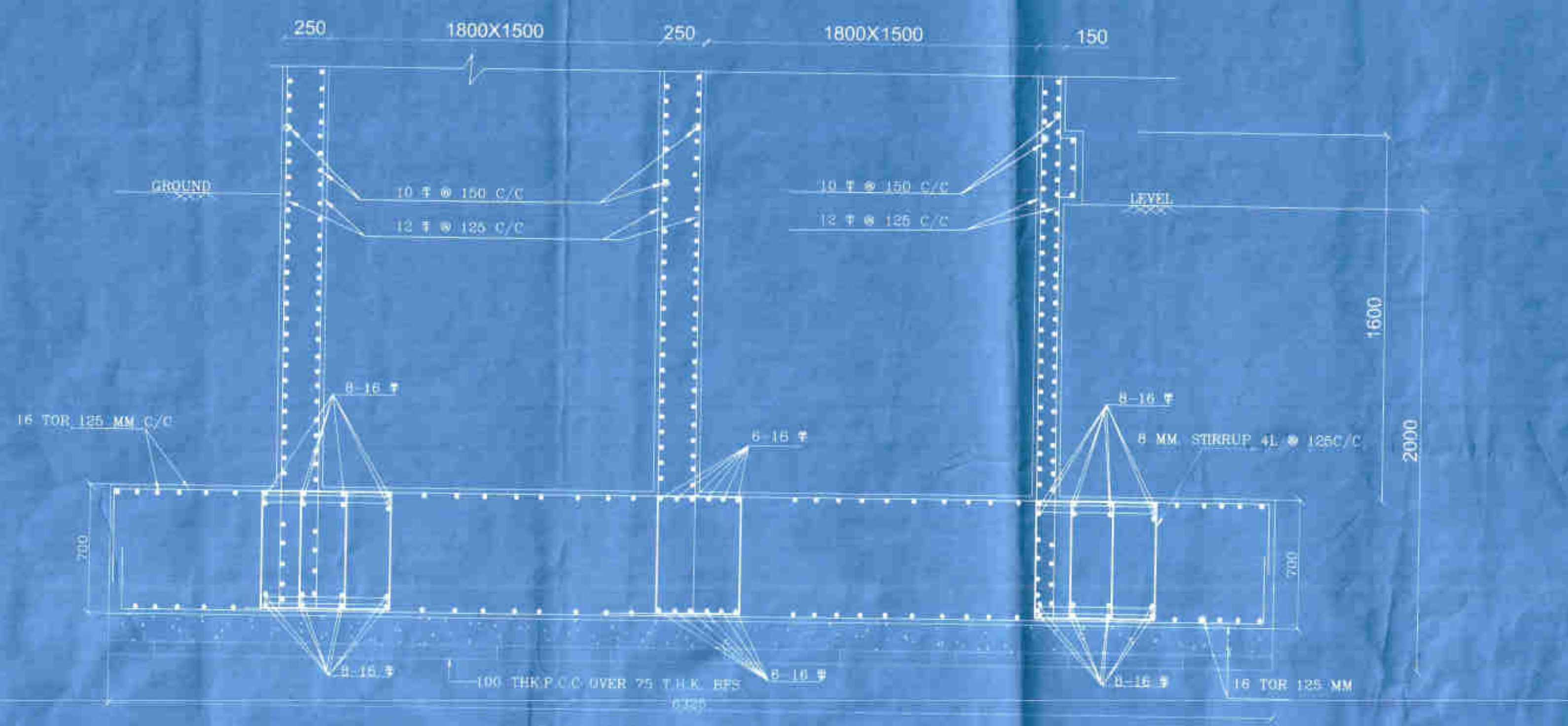
SCHEDULE OF COMBINED FOUNDATION :-

MKD.	UNDER COLS.	SIZE OF FOOTING(MM)	THICKNESS (MM)	SIZE OF RIB BEAM (BXH)	MAIN REINFORCEMENT IN FB		STIRRUPS IN FB	REINFORCEMENT IN FOOTING SLAB	
					TOP	BOTTOM		ALONG SHRT. DIRC.	ALONG LONG. DIRC.
COM1	C20,C24	3300X5525	500	800X800	6-16 T	6-16 T	4L 8T @ 125 C/C	16 TOR @125 MM C/C	16 TOR @150 MM C/C
COM2	C14,C18	3200X5450	500	1150X800	10-16 T	10-16 T	4L 8T @ 125 C/C	16 TOR @125 MM C/C	16 TOR @150 MM C/C
COM3	C10,C11	3400X5850	500	450X800	5-16 T	5-16 T	4L 8T @ 125 C/C	16 TOR @125 MM C/C	16 TOR @125 MM C/C
COM4	C25,C26	3000X5950	500	800X800	6-16 T	6-16 T	4L 8T @ 125 C/C	16 TOR @150 MM C/C	16 TOR @150 MM C/C
COM5	C30,C32	2900X5525	500	800X800	6-16 T	6-16 T	4L 8T @ 125 C/C	16 TOR @150 MM C/C	16 TOR @150 MM C/C
COM6	C33,C34	3000X6100	500	450X800	5-16 T	5-16 T	4L 8T @ 125 C/C	16 TOR @150 MM C/C	16 TOR @150 MM C/C

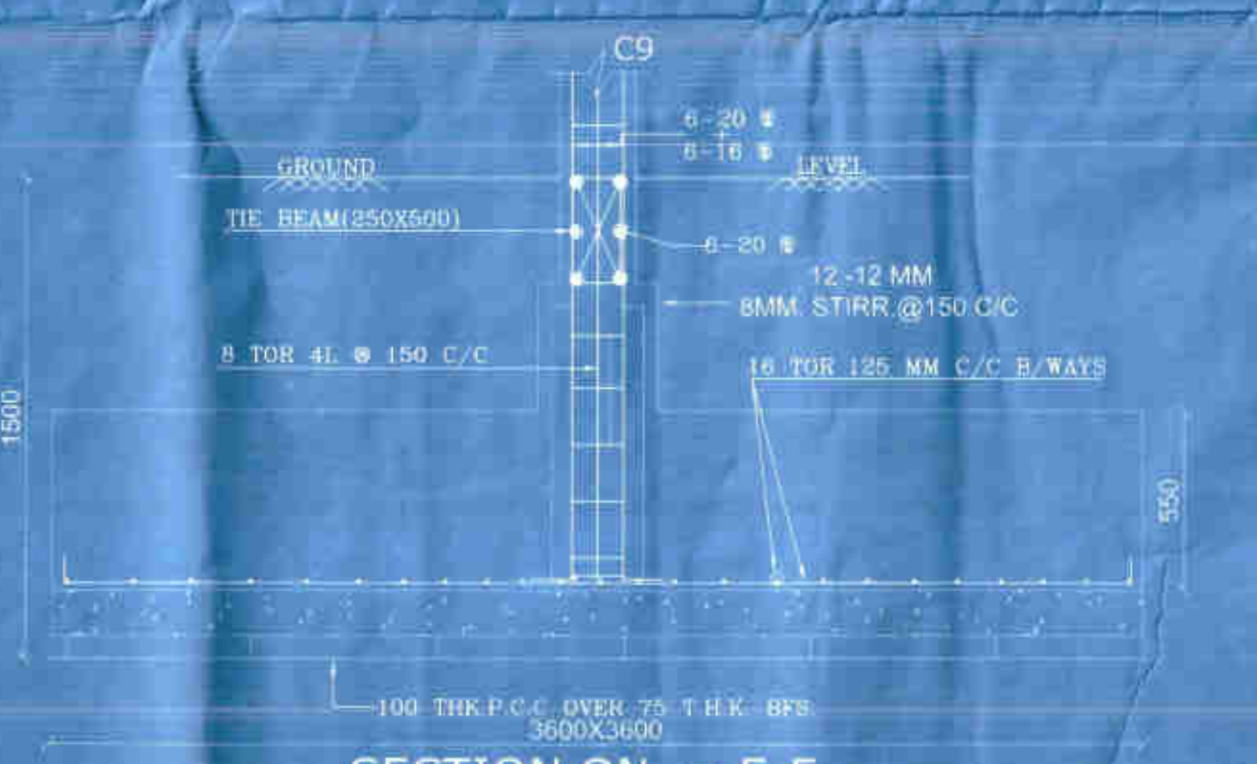
DETAILS OF STAIR SLAB
SCALE - 1:25



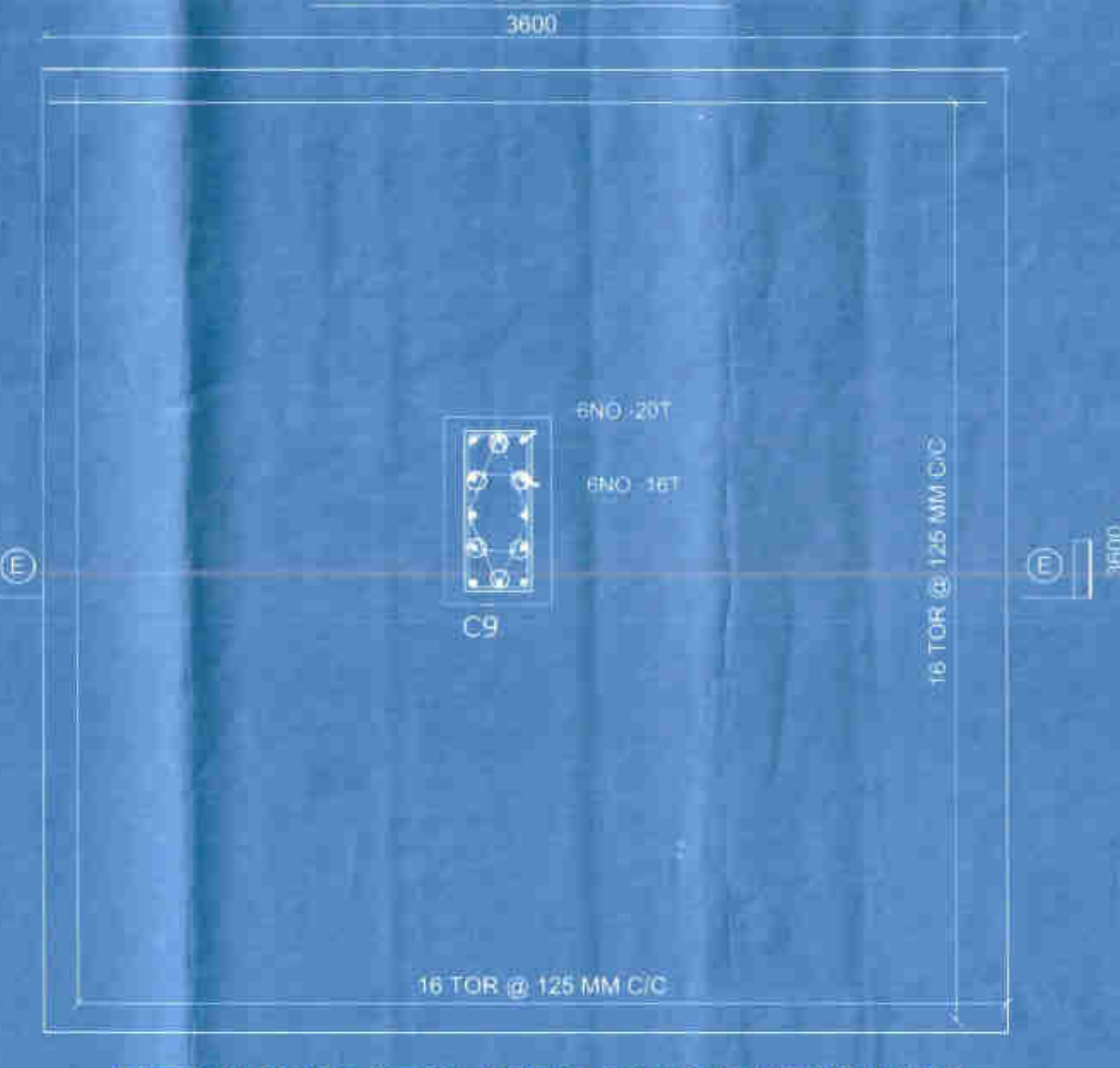
SECTION ON. = C-C
SCALE-1:25



SECTION ON. = A-A
SCALE-1:25

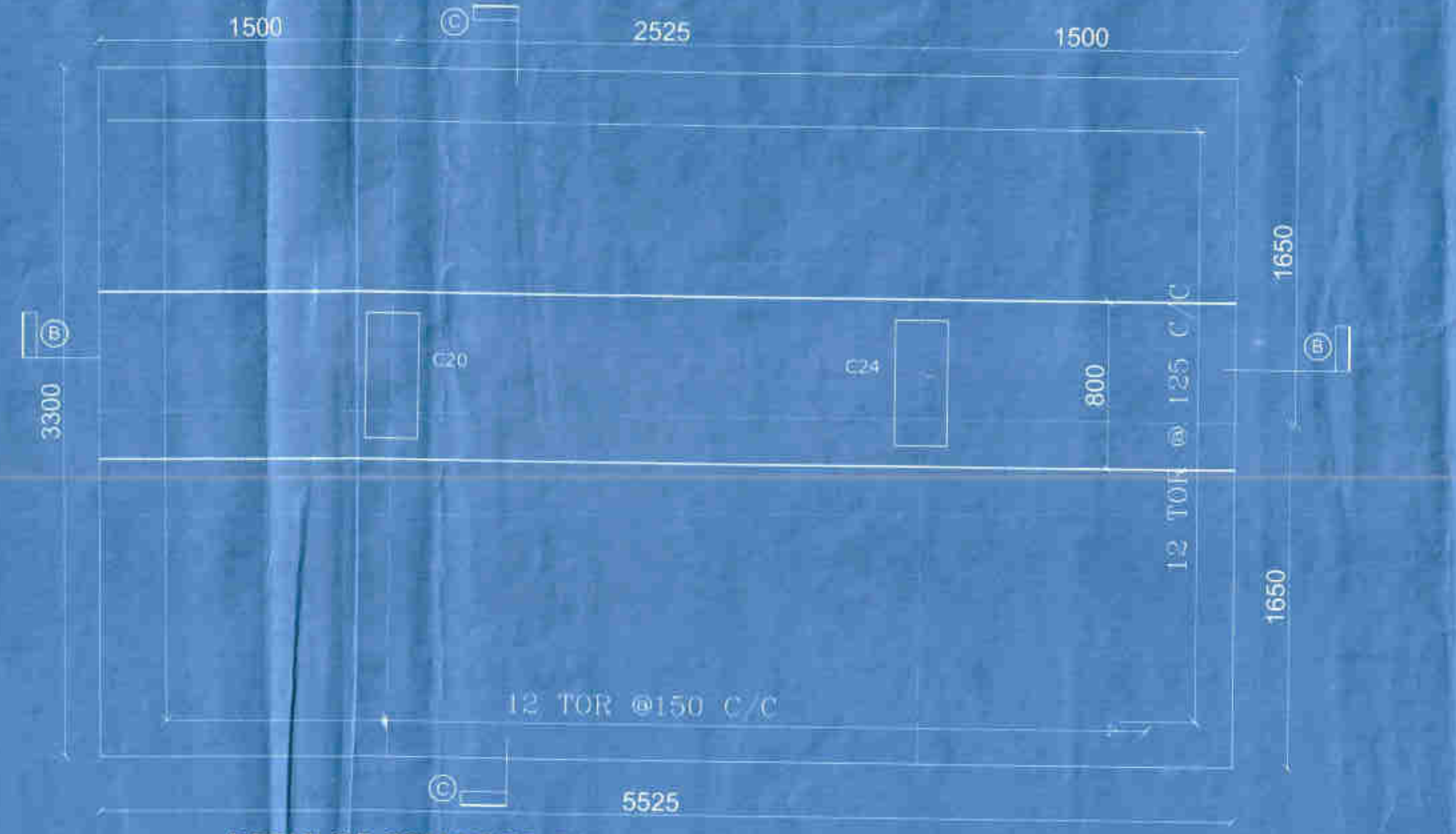


SECTION ON. = E-E
3600

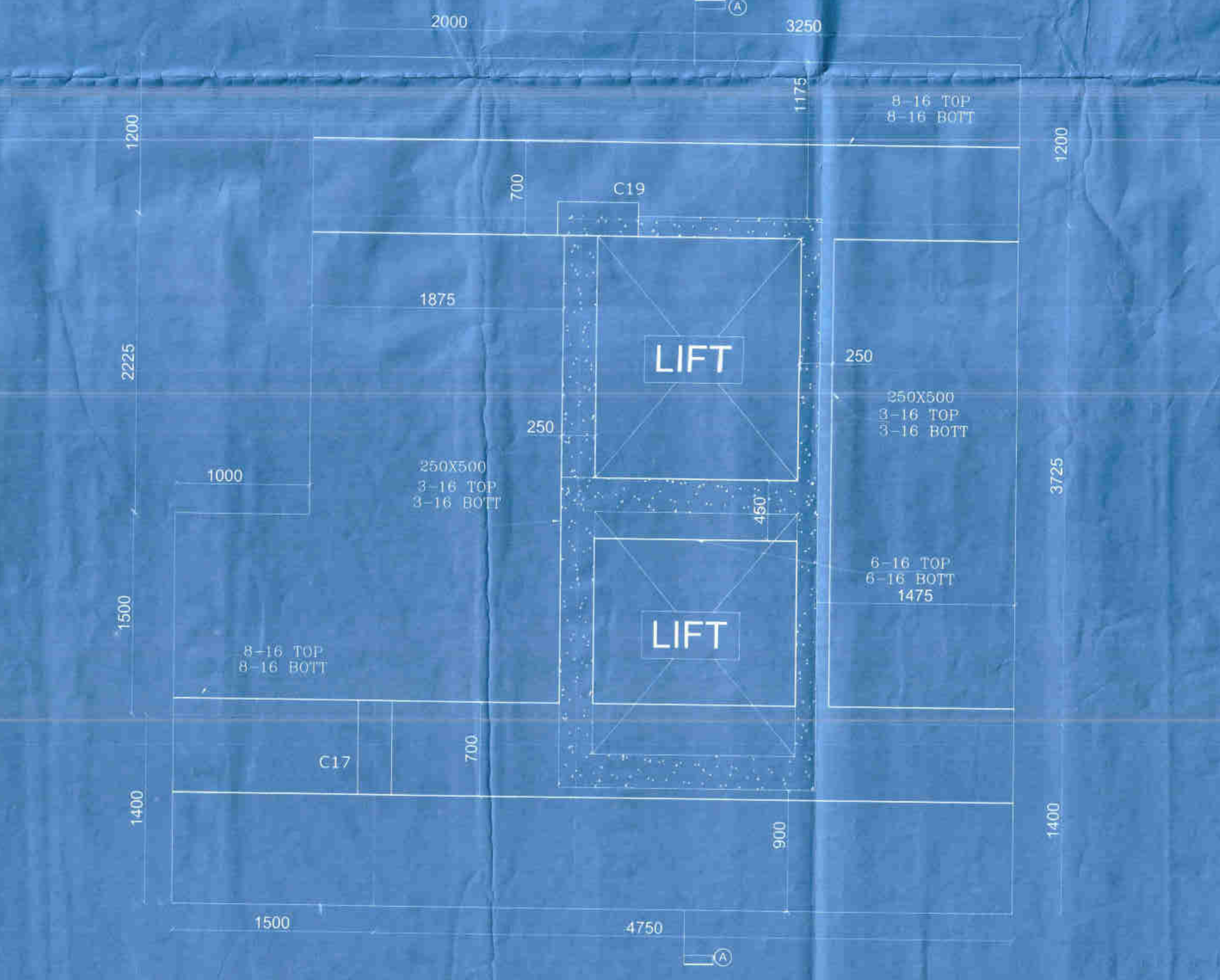


DETAILS OF ISOLATED FOUNDATION(F4)
SCALE - 1:25

SECTION ON. = B-B
SCALE-1:25



DETAILSF COMBINED FOUNDATION(COMB-1)
SCALE - 1:25



DETAILS OF RAFT FOUNDATION
SCALE - 1:25

PROPOSED CONSTRUCTION OF G+VII RESIDENTIAL CUM COMMERCIAL BUILDING BLOCK-I & G+V RESIDENTIAL BUILDING BLOCK-II OF TARUN KUMAR KUNDU, SUMITA KUNDU, ARIJIT KUNDU ON C.S. DAG NO.-244(PART), L.R. DAG NO.- 1571, C.S. KHATIAN NO.-212 , L.R. KHATIAN NO.- 6711,6712 & 6713, MOUZA-KENDUADIHI, J.L. NO.-213, WARD NO.- 22, UNDER P.S & DIST. & MUNICIPALITY - BANKURA.

SPECIFICATIONS:-

1. DEPTH OF FOUNDATION IS AT 1.50 M. BELOW EX. G.L.
2. SAFE BEARING CAPACITY OF SOIL IS AS PER SOIL TEST REPORT.
3. GRADE OF CONC. IS M-20 AND GRADE OF STEEL IS Fe-500
4. CLEAR COVER TO MAIN REIN. IS AS PER BELOW
   - a). FOUNDATION - 40 MM b). COLUMN - 40 MM
   - c). BEAM - 25 MM d). SLAB - 15 MM
5. ALL SLABS MUST BE CAST MONOLYTHIC WITH SUPPORTING BEAM.
6. ALL OTHER SPECIFICATIONS ARE 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.

Samiran
SIG. OF STRUCTURAL ENGINEER

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Under Bankura Municipality
Licence No.

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Reg. no: B-16/118-14
Building Planner & Estimator
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SIG. OF L.B.S.

Ranjit Bhattacharya
REG. NO. CA/87/10587
SIGNATURE OF ARCHITECT

RAGHUNATHJEE CONSTRUCTION
Sangit Kundu
Proprietor
SIGNATURE OF DEVELOPER

RAGHUNATHJEE CONSTRUCTION
Sangit Kundu
Proprietor
Constitute attorney of
Tarun Kumar Kundu.
Sumita Kundu.
Arijit Kundu.
SIGNATURE OF OWNER

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SHEET NO. :- 6/2