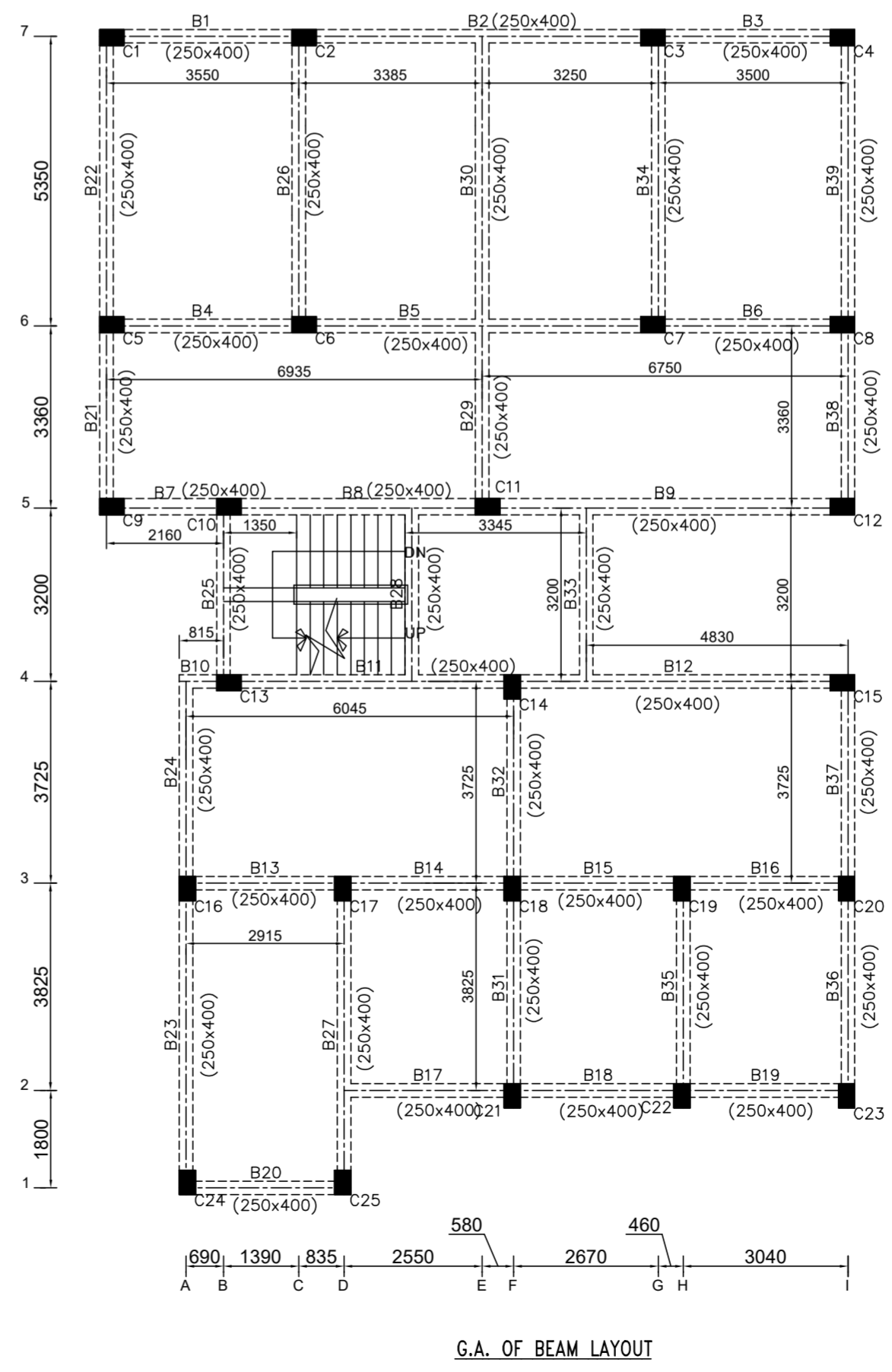
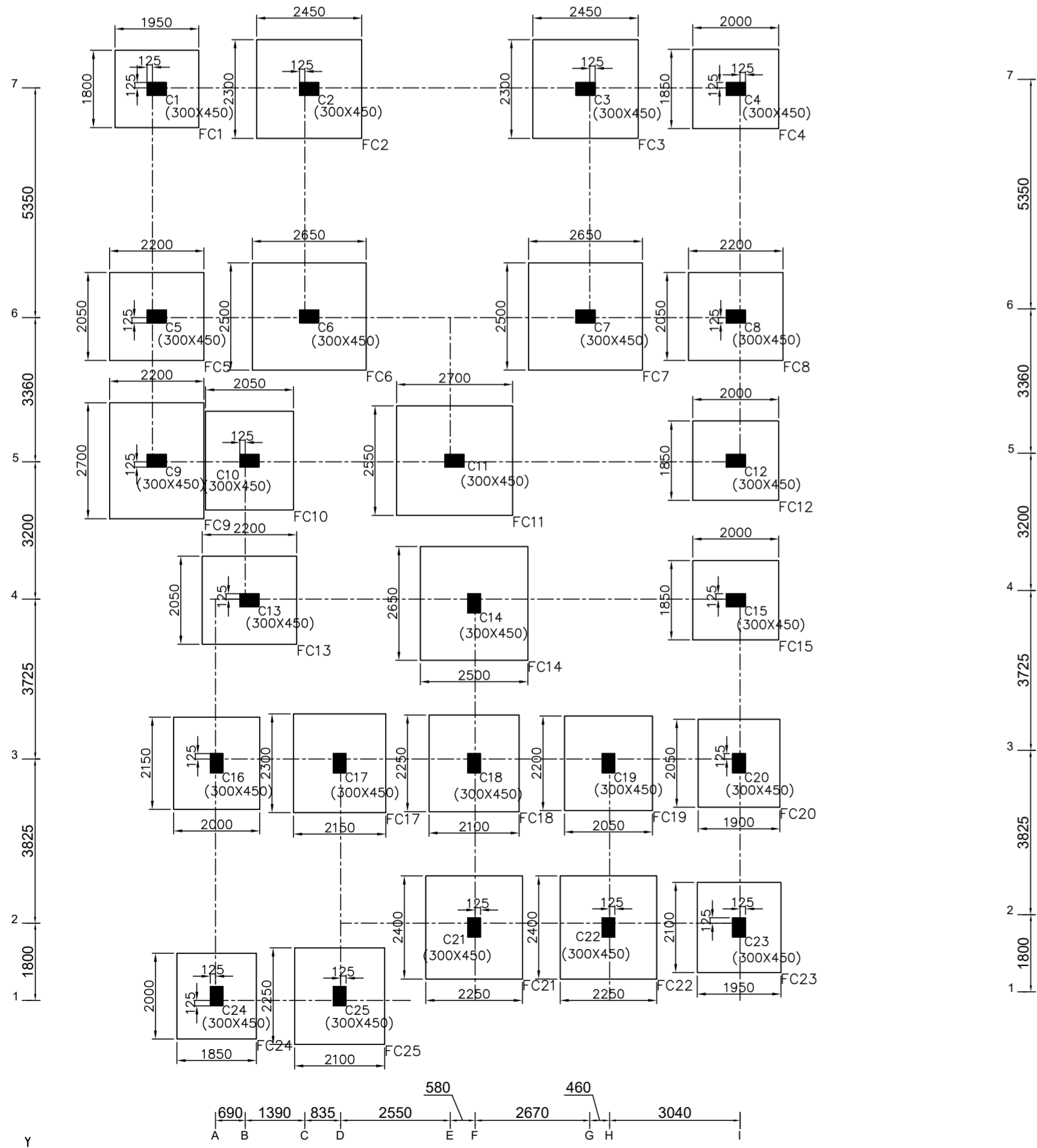
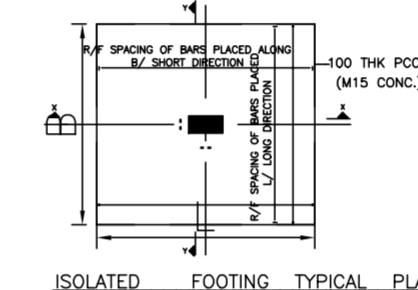
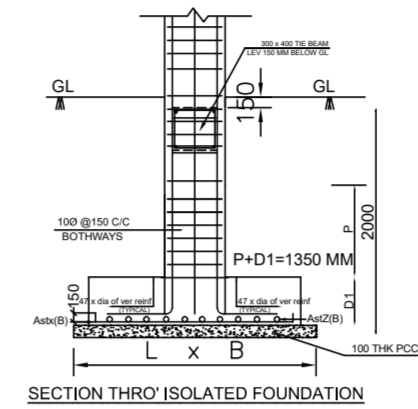


ISOLATED FOOTING SCHEDULE (M20:Fe500)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION				FOOTING REINFORCEMENT				
			STEP	L	B	D1	D2	BOTTOM		TOP	
								ALONG B	ALONG L	ALONG B	ALONG L
FC1	C1	Pad	-	1950	1800	450	-	T12@220 C/C	T12@225 C/C	--	--
FC2	C2	Pad	-	2450	2300	575	-	T12@175 C/C	T12@165 C/C	--	--
FC3	C3	Pad	-	2450	2300	575	-	T12@175 C/C	T12@165 C/C	--	--
FC4	C4	Pad	-	2000	1850	450	-	T12@225 C/C	T12@235 C/C	--	--
FC5	C5	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC6	C6	Pad	-	2650	2500	600	-	T12@170 C/C	T12@170 C/C	--	--
FC7	C7	Pad	-	2650	2500	600	-	T12@170 C/C	T12@170 C/C	--	--
FC8	C8	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC9	C9	Pad	-	2200	2700	425	-	T12@185 C/C	T12@225 C/C	--	--
FC10	C10	Pad	-	2050	2300	550	-	T12@190 C/C	T12@180 C/C	--	--
FC11	C11	Pad	-	2700	2550	625	-	T12@160 C/C	T12@160 C/C	--	--
FC12	C12	Pad	-	2000	1850	475	-	T12@200 C/C	T12@210 C/C	--	--
FC13	C13	Pad	-	2200	2050	525	-	T12@185 C/C	T12@190 C/C	--	--
FC14	C14	Pad	-	2650	2500	625	-	T12@160 C/C	T12@160 C/C	--	--
FC15	C15	Pad	-	2000	1850	450	-	T12@225 C/C	T12@235 C/C	--	--
FC16	C16	Pad	-	2150	2000	500	-	T12@200 C/C	T12@200 C/C	--	--
FC17	C17	Pad	-	2300	2150	525	-	T12@195 C/C	T12@200 C/C	--	--
FC18	C18	Pad	-	2250	2100	500	-	T12@210 C/C	T12@195 C/C	--	--
FC19	C19	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC20	C20	Pad	-	2050	1900	475	-	T12@205 C/C	T12@215 C/C	--	--
FC21	C21	Pad	-	2400	2250	550	-	T12@175 C/C	T12@175 C/C	--	--
FC22	C22	Pad	-	2400	2250	550	-	T12@175 C/C	T12@175 C/C	--	--
FC23	C23	Pad	-	2100	1950	475	-	T12@210 C/C	T12@220 C/C	--	--
FC24	C24	Pad	-	2000	1850	475	-	T12@200 C/C	T12@210 C/C	--	--
FC25	C25	Pad	-	2250	2100	525	-	T12@190 C/C	T12@195 C/C	--	--

Note- L IS PARALLEL TO LONG SIDE OF COLUMN, B IS PARALLEL TO THE SHORT SIDE OF COLUMN ( if not specified)



TITLE

STRUCTURAL DRAWING OF THE PROPOSED GROUND + THREE STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF 1. SRI PRADIP KUMAR SARKAR, 2. SRI SANKAR, 3. Ms. SWAPNA SARKAR AT MAHANANDA PARA, UNDER SMC WARD NO.-4, DIST.-DARJEELING, P.O.-SILIGURI BAZAR, P.S.- SILIGURI.

CONTENTS

R/F DETAIL OF FOUNDATION

NOTE FOR FOUNDATION

- FOUNDATION TO BE LAID ON 100mm. P.C.C (1:3:6)
- GRADE OF CONC = M20.
- GRADE OF STEEL - FE = 500
- S.B.C ASSUMED AS/STR. = 160 KN/SQM AT 2000MM DEPTH
- ALL OTHER DEATILS AS PER FOUNDATION SHEDULE.
- COVER TO R/F = 50mm ON ALL SIDES.

7. OWNER TO TAKE ADEQUATE MEASURES TO ENSURE STABILITY OF BOUNDARY WALLS ALONG THE PERIPHERY OF THE FIELD DURING EXCAVATION OF FOUNDATION & AT ALL OTHER TIMES.

EXTRA NOTE

THE OWNER / LBS OR LBA IN CHARGE OF CONSTRUCTION IS REQUESTED TO INFROM THE STRUCTURAL ENGINEER AT LEAST 7 DAYS BEFORE THE START OF CONSTRUCTION, GET IT CHECKED & OBTAIN SIGNED OBSERVATION AT ALL STAGES OF CONSTRUCTION LIKE FOUNDATION, COLUMN CASTING & ROOF CASTING, OTHERWISE THE UNDERSIGNED WILL NOT BE RESPONSIBLE FOR ANY LAPSE THAT OCCURS DURING THE PERIOD OF CONSTRUCTION & BEYOND.

GENAREL NOTE

- OPTIMIZATION IS NOT ENSURED.

NOTE

- THIS DRAWING IS VALID ONLY IF RELIVANT PLAN IS SANCTIONED FROM RESPONSIBLE AUTHORITY.
- CO-RELATE DIMENSIONS WITH SANCTION BUILDING PLAN. IN CASE OF DISCREPANCY CONTACT STRUCTRUL ENGINEER.

ADD.NOTE

- COLUMN & BEAM POSITIONS AS PER ARCHITECTURAL LAYOUT. IN CASE OF MINOR DISCRIPANCIES ARCHITECTURAL LAYOUT TO BE GIVEN PRIORITY/CONSULT STRUCTRUAL ENGINEER

DECLARATION OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION & SUPERSTRUCTURAL OF THE GROUND + THREE STORIED RESIDENTIAL CUM COMMERCIAL BUILDING MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD & IS STABLE IN ALL RESPECT .



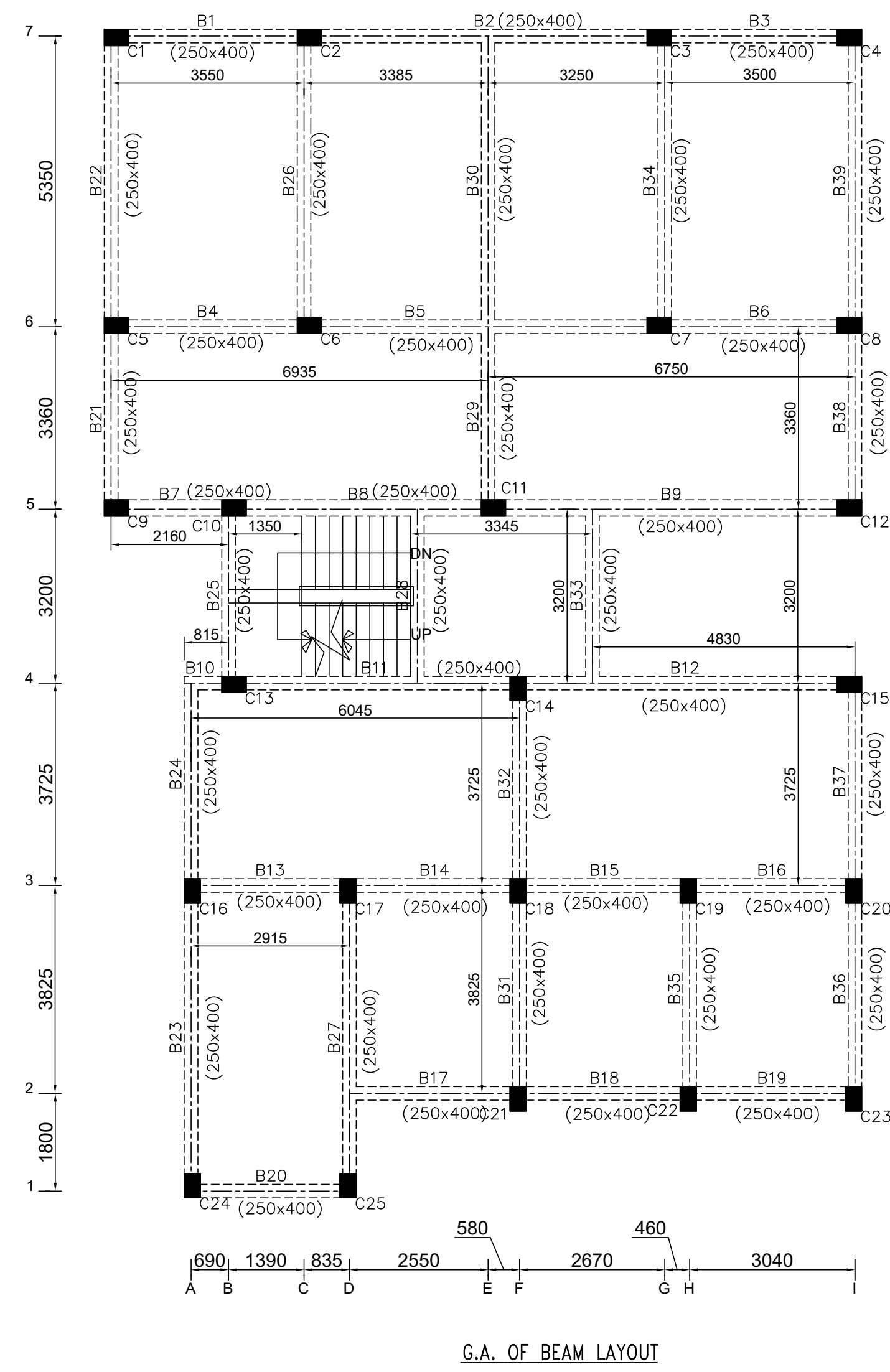
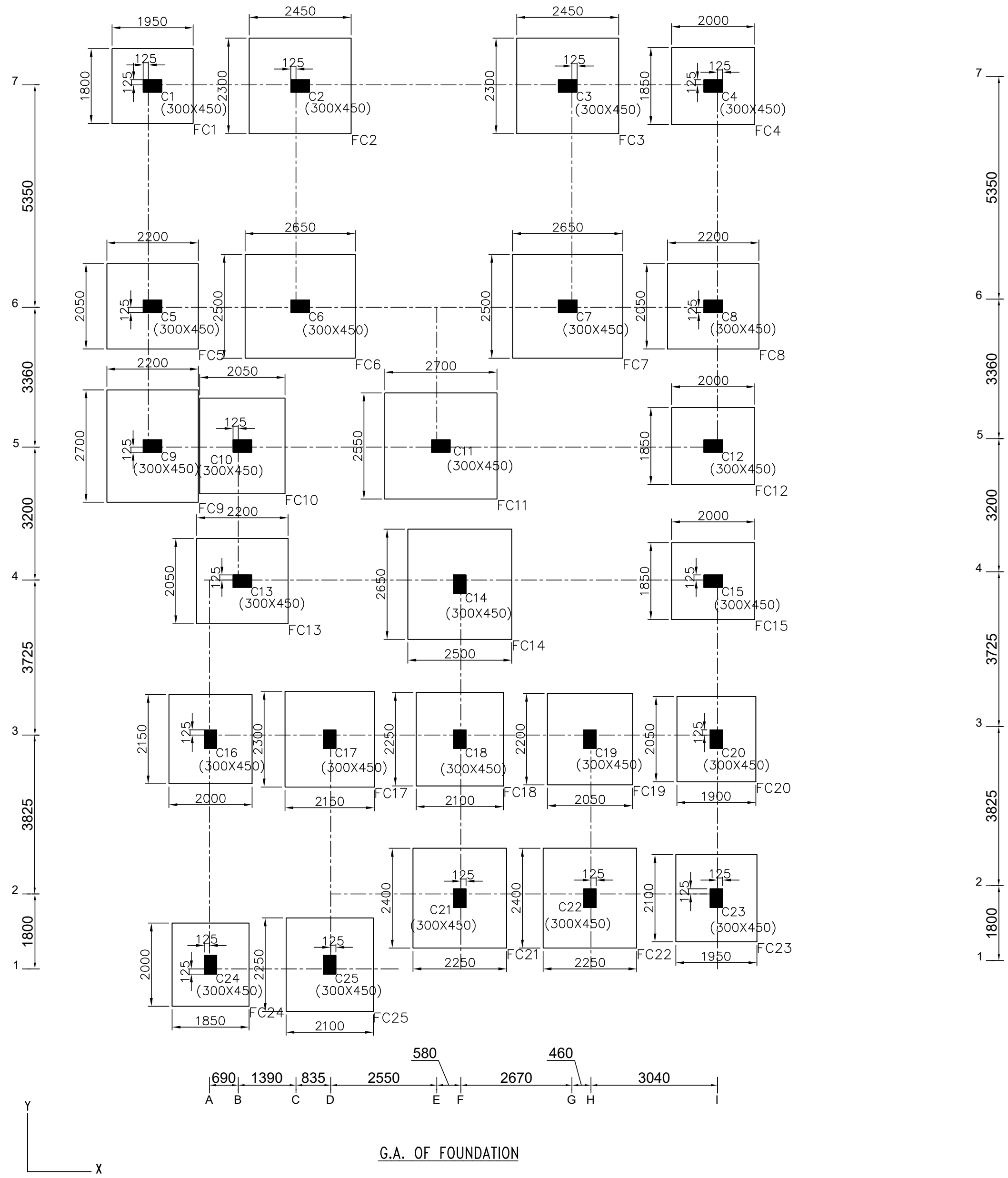
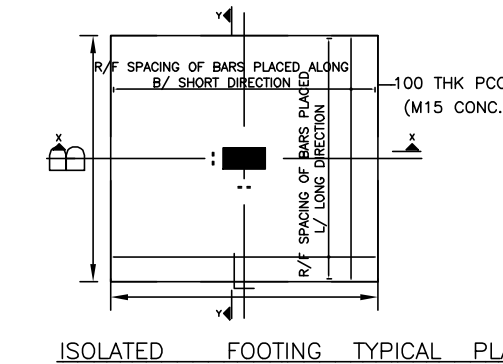
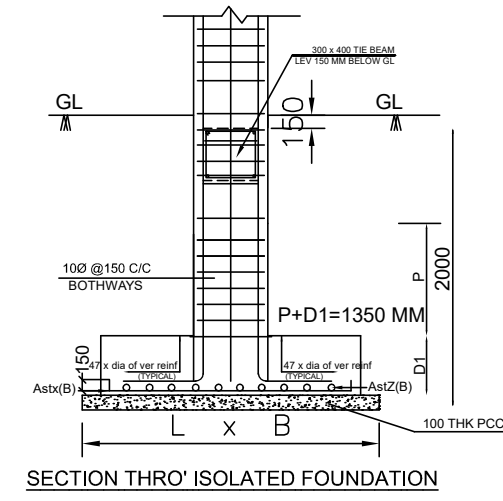
SHEET NO : 1/5

PLAN NO :

ISOLATED FOOTING SCHEDULE (M20:Fe500)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION				FOOTING REINFORCEMENT				
			STEP	L	B	D1	D2	BOTTOM		TOP	
								ALONG B	ALONG L	ALONG B	ALONG L
FC1	C1	Pad	-	1950	1800	450	-	T12@220 C/C	T12@225 C/C	--	--
FC2	C2	Pad	-	2450	2300	575	-	T12@175 C/C	T12@165 C/C	--	--
FC3	C3	Pad	-	2450	2300	575	-	T12@175 C/C	T12@165 C/C	--	--
FC4	C4	Pad	-	2000	1850	450	-	T12@225 C/C	T12@235 C/C	--	--
FC5	C5	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC6	C6	Pad	-	2650	2500	600	-	T12@170 C/C	T12@170 C/C	--	--
FC7	C7	Pad	-	2650	2500	600	-	T12@170 C/C	T12@170 C/C	--	--
FC8	C8	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC9	C9	Pad	-	2200	2700	425	-	T12@185 C/C	T12@225 C/C	--	--
FC10	C10	Pad	-	2050	2300	550	-	T12@190 C/C	T12@180 C/C	--	--
FC11	C11	Pad	-	2700	2550	625	-	T12@160 C/C	T12@160 C/C	--	--
FC12	C12	Pad	-	2000	1850	475	-	T12@200 C/C	T12@210 C/C	--	--
FC13	C13	Pad	-	2200	2050	525	-	T12@185 C/C	T12@190 C/C	--	--
FC14	C14	Pad	-	2650	2500	625	-	T12@160 C/C	T12@160 C/C	--	--
FC15	C15	Pad	-	2000	1850	450	-	T12@225 C/C	T12@235 C/C	--	--
FC16	C16	Pad	-	2150	2000	500	-	T12@200 C/C	T12@200 C/C	--	--
FC17	C17	Pad	-	2300	2150	525	-	T12@195 C/C	T12@200 C/C	--	--
FC18	C18	Pad	-	2250	2100	500	-	T12@210 C/C	T12@195 C/C	--	--
FC19	C19	Pad	-	2200	2050	500	-	T12@200 C/C	T12@205 C/C	--	--
FC20	C20	Pad	-	2050	1900	475	-	T12@205 C/C	T12@215 C/C	--	--
FC21	C21	Pad	-	2400	2250	550	-	T12@175 C/C	T12@175 C/C	--	--
FC22	C22	Pad	-	2400	2250	550	-	T12@175 C/C	T12@175 C/C	--	--
FC23	C23	Pad	-	2100	1950	475	-	T12@210 C/C	T12@220 C/C	--	--
FC24	C24	Pad	-	2000	1850	475	-	T12@200 C/C	T12@210 C/C	--	--
FC25	C25	Pad	-	2250	2100	525	-	T12@190 C/C	T12@195 C/C	--	--

Note- L IS PARALLEL TO LONG SIDE OF COLUMN, B IS PARALLEL TO THE SHORT SIDE OF COLUMN (if not specified)



TITLE

STRUCTURAL DRAWING OF THE PROPOSED GROUND + THREE STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF 1. SRI PRADIP KUMAR SARKAR, 2. SRI SANKAR, 3. Ms. SWAPNA SARKAR AT MAHANANDA PARA, UNDER SMC WARD NO.-4, DIST.-DARJEELING, P.O.-SILIGURI BAZAR, P.S.- SILIGURI.

CONTENTS

R/F DETAIL OF FOUNDATION

NOTE FOR FOUNDATION

- FOUNDATION TO BE LAID ON 100mm. P.C.C (1:3:6)
- GRADE OF CONC = M20.
- GRADE OF STEEL - FE = 500
- S.B.C ASSUMED AS/STR. = 160 KN/SQM AT 2000MM DEPTH
- ALL OTHER DETAIL AS PER FOUNDATION SCHEDULE.
- COVER TO R/F = 50mm ON ALL SIDES.
- OWNER TO TAKE ADEQUATE MEASURES TO ENSURE STABILITY OF BOUNDARY WALLS ALONG THE PERIPHERY OF THE FIELD DURING EXCAVATION OF FOUNDATION & AT ALL OTHER TIMES.

EXTRA NOTE

THE OWNER / LBS OR LBA IN CHARGE OF CONSTRUCTION IS REQUESTED TO INFORM THE STRUCTURAL ENGINEER AT LEAST 7 DAYS BEFORE THE START OF CONSTRUCTION. GET IT CHECKED & OBTAIN SIGNED OBSERVATION AT ALL STAGES OF CONSTRUCTION LIKE FOUNDATION, COLUMN CASTING & ROOF CASTING, OTHERWISE THE UNDERSIGNED WILL NOT BE RESPONSIBLE FOR ANY LAPSE THAT OCCURS DURING THE PERIOD OF CONSTRUCTION & BEYOND.

GENAREL NOTE

- OPTIMIZATION IS NOT ENSURED.

NOTE

- THIS DRAWING IS VALID ONLY IF RELIVANT PLAN IS SANCTIONED FROM RESPONSIBLE AUTHORITY.
- CO-RELATE DIMENSIONS WITH SANCTION BUILDING PLAN. IN CASE OF DISCREPANCY CONTACT STRUCTRUL ENGINEER.

ADD.NOTE

- COLUMN & BEAM POSITIONS AS PER ARCHITECTURAL LAYOUT. IN CASE OF MINOR DISCRIPANCIES ARCHITECTURAL LAYOUT TO BE GIVEN PRIORITY/CONSULT STRUCTRUL ENGINEER

DECLARATION OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION & SUPERSTRUCTURAL OF THE GROUND + THREE STORIED RESIDENTIAL CUM COMMERCIAL BUILDING MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD & IS STABLE IN ALL RESPECT .

ER. AVIJIT GHOSH - SMC 1/07  
SIGNATURE OF STRUCTURAL ENGINEER

SHEET NO : 1/5

PLAN NO :



**TITLE**  
 STRUCTURAL DRAWING OF THE PROPOSED  
 GROUND + THREE STORED RESIDENTIAL  
 CUM COMMERCIAL BUILDING OF 1.SRI  
 PRADIP KUMAR SARKAR, 2. SRI SANKAR, 3.  
 Ms. SWAPNA SARKAR AT MAHANANDA PARA,  
 UNDER SMC WARD NO.-4, DIST.-DARJEELING,  
 P.O.-SILIGURI BAZAR, P.S.- SILIGURI.

**CONTENTS**  
 R/F DETAIL OF THE BEAMS (X,Y DIR)

**EXTRA NOTE**  
 THE OWNER / LBS OR LBA IN CHARGE OF  
 CONSTRUCTION IS REQUESTED TO INFORM THE  
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 WILL NOT BE RESPONSIBLE FOR ANY LAPSE THAT  
 OCCURS DURING THE PERIOD OF CONSTRUCTION &  
 BEYOND.

**NOTE FOR BEAMS**  
 1. ALL BEAM SIZE ARE AS SPECIFIED IN  
 LONGITUDINAL SECTION.  
 2. DIA & SPACING OF STIRRUPS ARE AS  
 SPECIFIED IN LONGITUDINAL SECTION.  
 3. GRADE OF CONC. M 20.  
 4. GRADE OF STEEL- FE 500.  
 COVER OF R/F = 25 mm.  
 5. IF THERE IS DISPARITY IN SIZE OF BEAM  
 BETWEEN BEAM LEGEND & BEAM LONG  
 SECTION , THAN LONG SECTION PREVAILS /  
 CONSULT STRUCTURAL ENGINEER.

**GENAREL NOTE**  
 1. OPTIMIZATION IS NOT ENSURED.

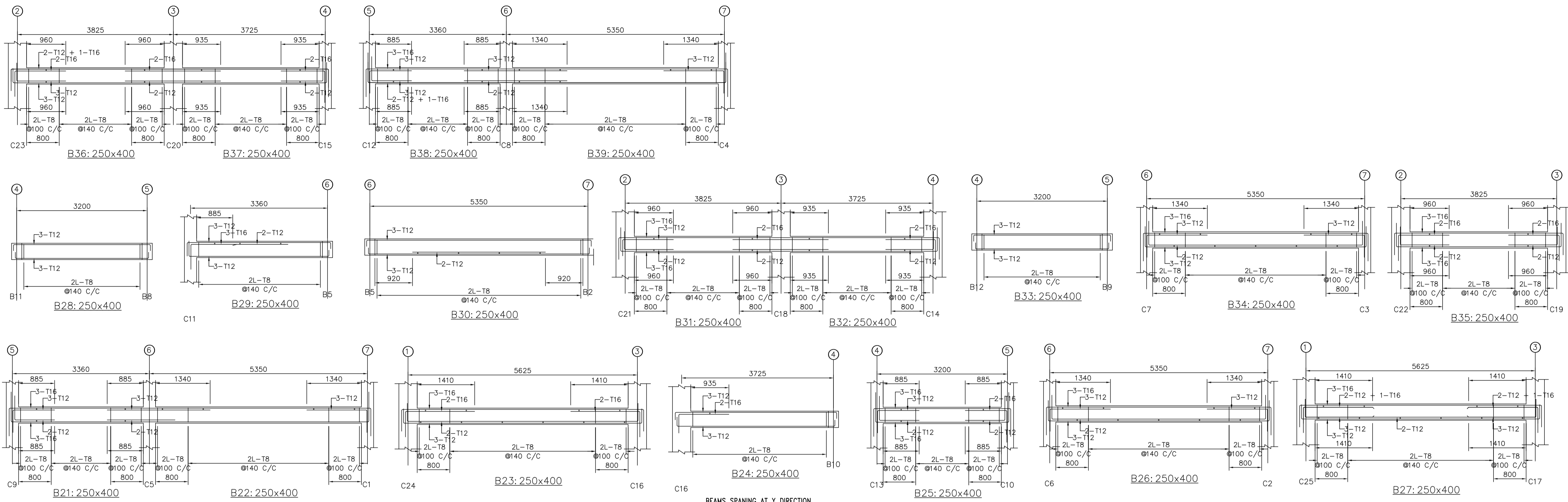
**NOTE**  
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 2. CO-RELATE DIMENSIONS WITH SANCTION  
 BUILDING PLAN. IN CASE OF DISCREPANCY  
 CONTACT STRUCTRUL ENGINEER.

**ADD.NOTE**  
 1. COLUMN & BEAM POSITIONS AS PER  
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 GIVEN PRIORITY/CONSULT STRUCTURAL ENGINEER

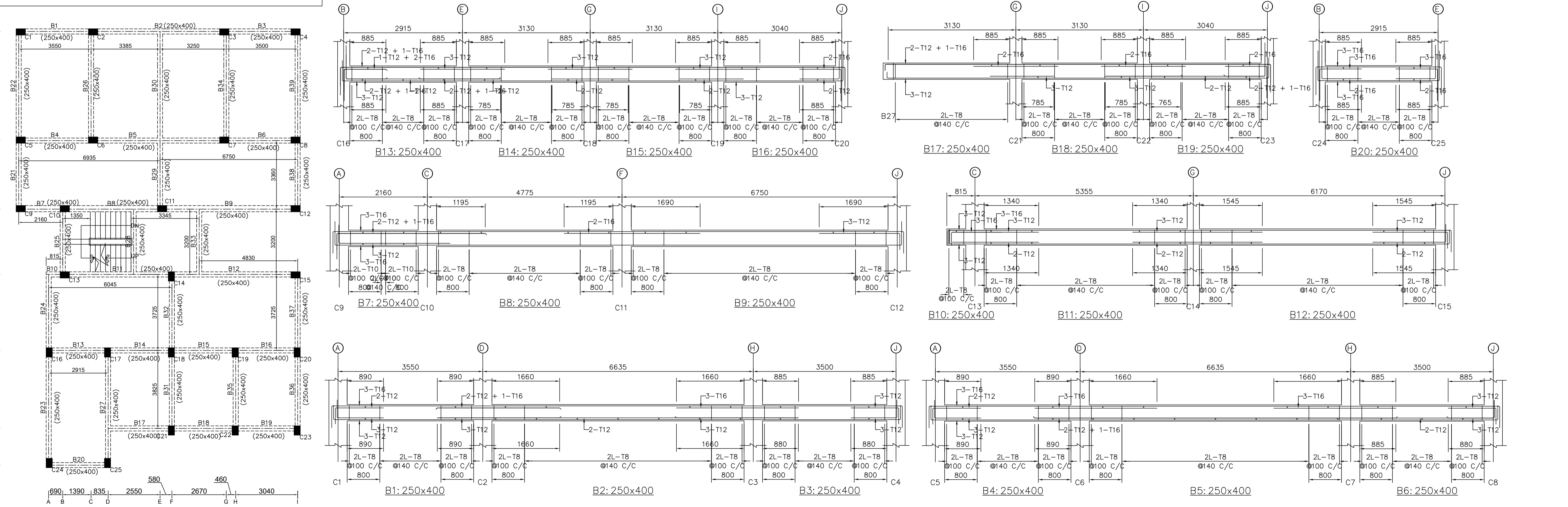
**DECLARATION OF STRUCTURAL ENGINEER**  
 THE STRUCTURAL DESIGN & DRAWING OF  
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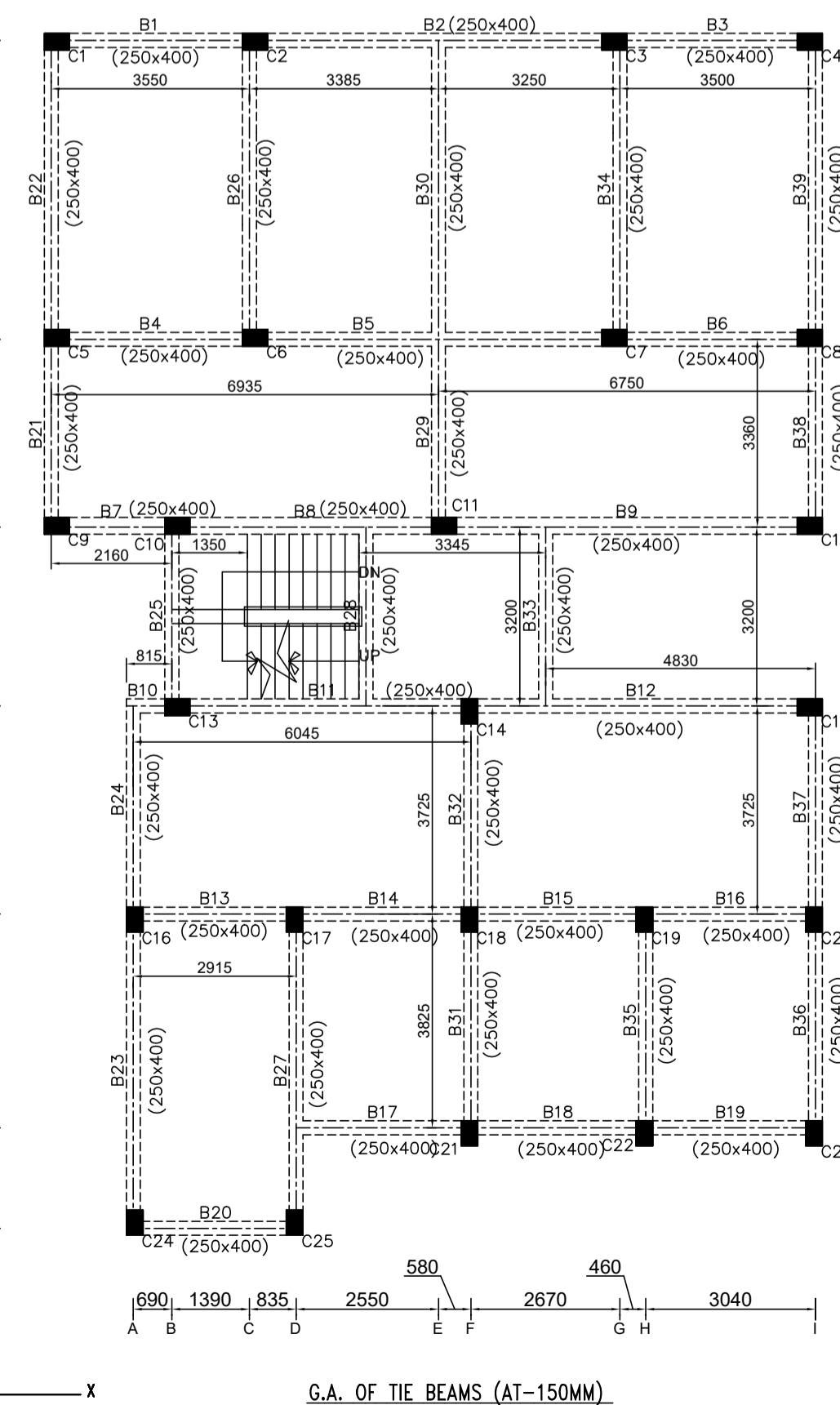
**SHEET**  
**PLAN NO** :



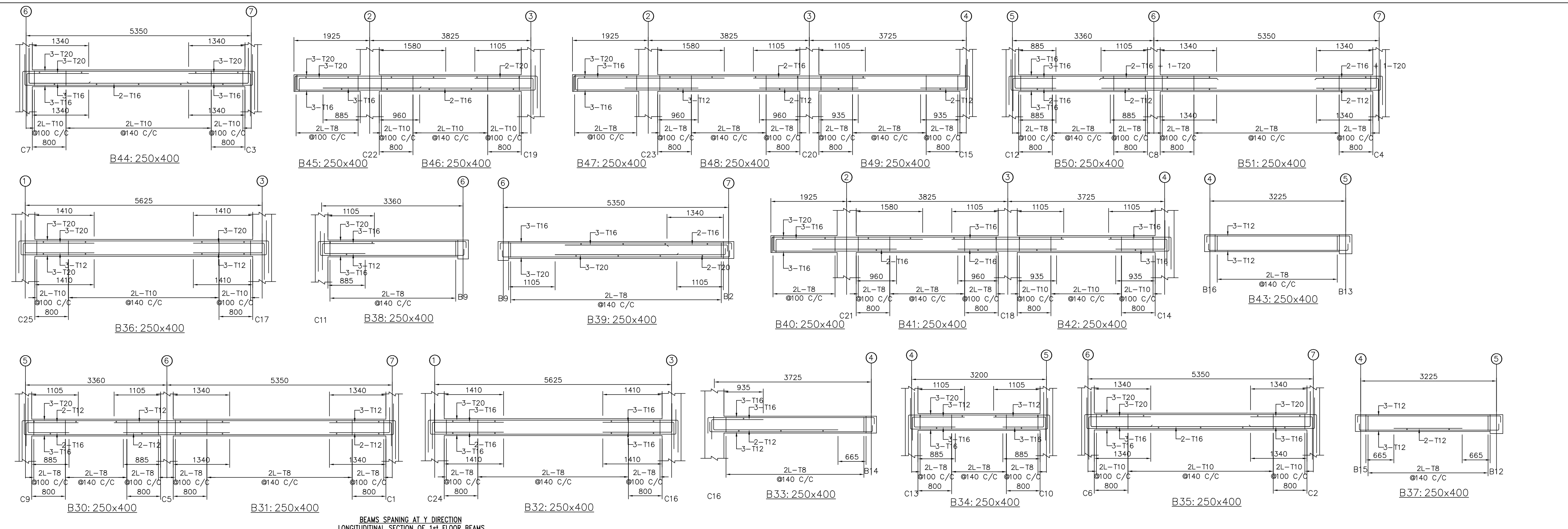
BEAMS SPANING AT Y DIRECTION  
 LONGITUDINAL SECTION OF TIE BEAMS



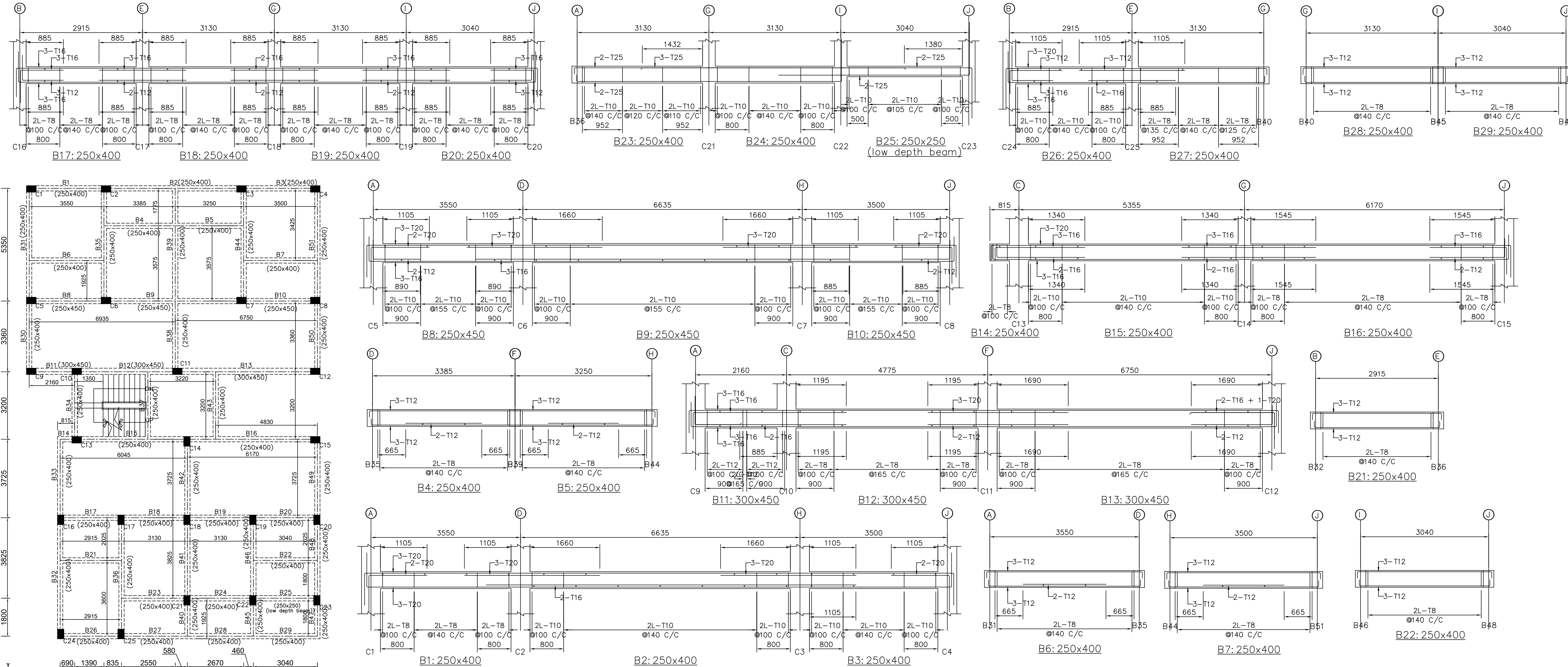
BEAMS SPANING AT X DIRECTION  
 LONGITUDINAL SECTION OF TIE BEAMS



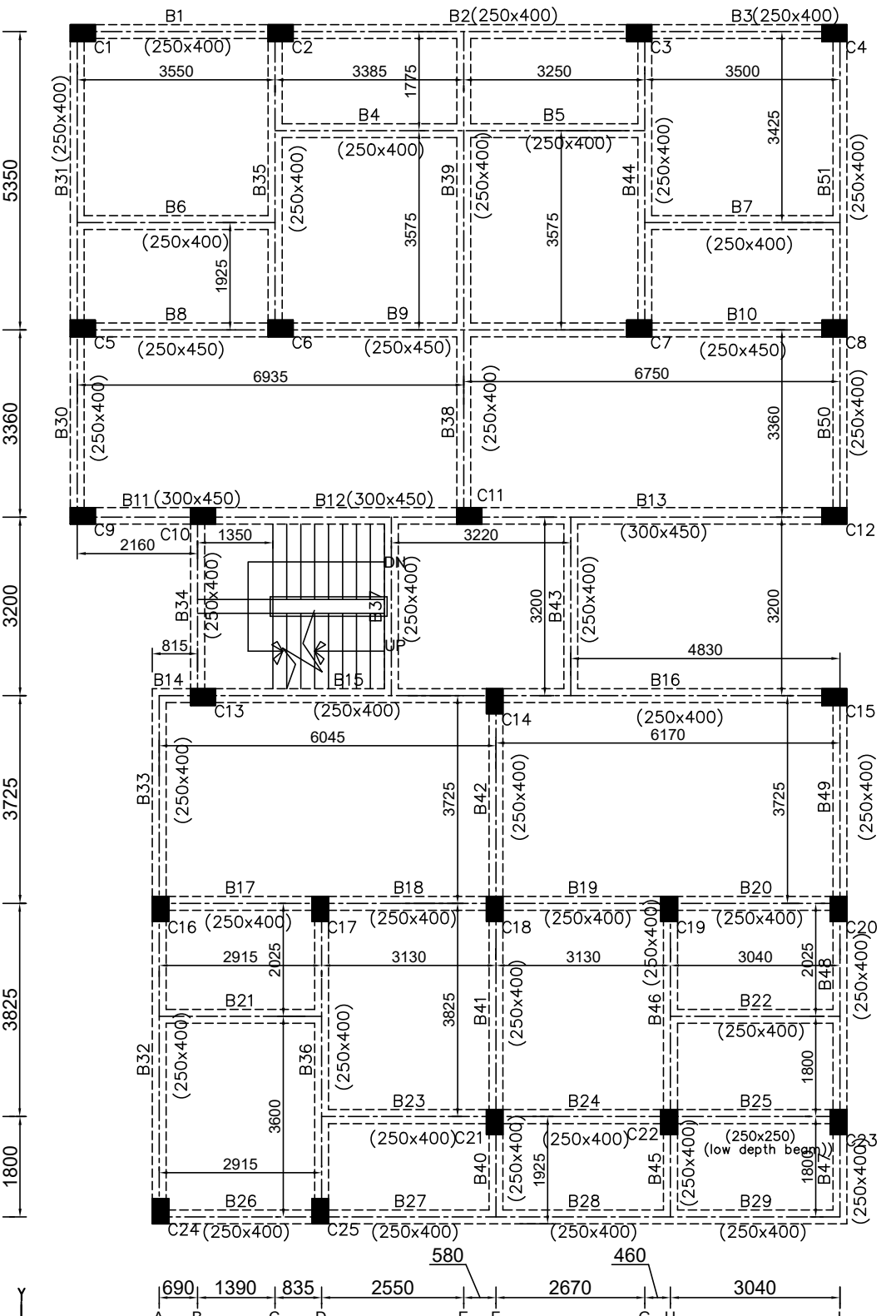
G.A. OF TIE BEAMS (AT-150MM)



BEAMS SPANING AT Y DIRECTION  
LONGITUDINAL SECTION OF 1st FLOOR BEAMS



BEAMS SPANING AT X DIRECTION  
LONGITUDINAL SECTION OF 1st FLOOR BEAMS



G.A. OF 1st FLOOR BEAM

**TITLE**  
STRUCTURAL DRAWING OF THE PROPOSED  
GROUND + THREE STORIED RESIDENTIAL  
CUM COMMERCIAL BUILDING OF 1.SRI  
PRADIP KUMAR SARKAR, 2.SRI SANKAR, 3.  
MS. SWAPNA SARKAR AT MAHANANDA PARA,  
UNDER SMC WARD NO.-4, DIST.-DARJEELING,  
P.O.-SILIGURI BAZAR, P.S.- SILIGURI.

**CONTENTS**  
R/F DETAIL OF 1st FLOOR BEAMS (X, Y DIR)

**EXTRA NOTE**  
THE OWNER / LBS OR LBA IN CHARGE OF  
CONSTRUCTION IS REQUESTED TO INFORM THE  
STRUCTURAL ENGINEER AT LEAST 7 DAYS BEFORE  
THE START OF CONSTRUCTION GET IT CHECKED &  
OBTAIN SIGNED OBSERVATION AT ALL STAGES OF  
CONSTRUCTION LIKE FOUNDATION, COLUMN CASTING  
& ROOF CASTING. OTHERWISE THE UNDERSIGNED  
WILL NOT BE RESPONSIBLE FOR ANY LAPSE THAT  
OCCURS DURING THE PERIOD OF CONSTRUCTION &  
BEYOND.

**NOTE FOR BEAMS**  
1. ALL BEAM SIZE ARE AS SPECIFIED IN  
LONGITUDINAL SECTION.  
2. DIA & SPACING OF STIRRUPS ARE AS  
SPECIFIED IN LONGITUDINAL SECTION.  
3. GRADE OF CONC. M 20.  
4. GRADE OF STEEL- FE 500.  
COVER OF R/F = 25 mm.  
5. IF THERE IS DISPARITY IN SIZE OF BEAM  
BETWEEN BEAM LEGEND & BEAM LONG  
SECTION, THAN LONG SECTION PREVAILS /  
CONSULT STRUCTURAL ENGINEER.

**GENEREL NOTE**  
1. OPTIMIZATION IS NOT ENSURED.

**NOTE**  
1. THIS DRAWING IS VALID ONLY IF RELIVANT  
PLAN IS SANCTIONED FROM RESPONSIBLE  
AUTHORITY.  
2. CO-RELATE DIMENSIONS WITH SANCTION  
BUILDING PLAN. IN CASE OF DISCREPANCY  
CONTACT STRUCTUL ENGINEER.

**ADD.NOTE**  
1. COLUMN & BEAM POSITIONS AS PER  
ARCHITECTURAL LAYOUT. IN CASE OF MINOR  
DISCREPANCIES ARCHITECTURAL LAYOUT TO BE  
GIVEN PRIORITY/CONSULT STRUCTURAL ENGINEER

**DECLARATION OF STRUCTURAL ENGINEER**  
THE STRUCTURAL DESIGN & DRAWING OF  
BOTH FOUNDATION & SUPERSTRUCTURAL  
OF THE GROUND + THREE STORIED  
RESIDENTIAL CUM COMMERCIAL BUILDING  
MADE BY ME CONSIDERING ALL POSSIBLE  
LOADS INCLUDING SEISMIC LOAD & IS  
STABLE IN ALL RESPECT.



SHI  
PLAN NO :

**TITLE**  
 STRUCTURAL DRAWING OF THE PROPOSED  
 GROUND + THREE STORIED RESIDENTIAL  
 CUM COMMERCIAL BUILDING OF 1. SRI  
 PRADIP KUMAR SARKAR, 2. SRI SANKAR, 3.  
 MS. SWAPNA SARKAR AT MAHANANDA PARA,  
 UNDER SMC WARD NO.-4, DIST.-DARJEELING,  
 P.O.-SILIGURI BAZAR, P.S.- SILIGURI.

**CONTENTS**  
 R/F DETAIL OF SLAB & STAIR

**NOTE FOR SLAB**  
 1. GRADE OF CONC. M 20.  
 2. GRADE OF STEEL - FE = 500.  
 3. COVER OF R/F = 20 mm.  
 4. IF THERE IS DISPARITY IN SIZE OF BEAM  
 BETWEEN BEAM & BEAM LONG SECTION,  
 THAN LONG SECTION PREVAILS /CONSULT  
 STRUCTURAL ENGINEER.

**EXTRA NOTE**  
 THE OWNER / LBS OR LBA IN CHARGE OF  
 CONSTRUCTION IS REQUESTED TO INFORM  
 THE STRUCTURAL ENGINEER AT LEAST 7 DAYS  
 BEFORE THE START OF CONSTRUCTION. GET IT  
 CHECKED & OBTAIN SIGNED OBSERVATION AT  
 ALL STAGES OF CONSTRUCTION LIKE  
 FOUNDATION, COLUMN CASTING & ROOF  
 CASTING, OTHERWISE THE UNDERSIGNED  
 WILL NOT BE RESPONSIBLE FOR ANY  
 LAPSE THAT OCCURS DURING THE PERIOD OF  
 CONSTRUCTION & BEYOND.

**NOTE FOR STAIR**  
 1. DIMENSIONS AS PER ARCHITECTURAL  
 DRAWINGS.  
 2. STAIR TO BE SUPPORTED ON EDGE BEAMS  
 3. BEAM R/F AS PER PREVIOUS/FLOOR  
 DRAWING.  
 4. COVER TO R/F IS 20 MM.

**GENERAL NOTE**  
 1. OPTIMIZATION IS NOT ENSURED.

**NOTE**  
 1. THIS DRAWING IS VALID ONLY IF RELIVANT  
 PLAN IS SANCTIONED FROM RESPONSIBLE  
 AUTHORITY.  
 2. CO-RELATE DIMENSIONS WITH SANCTION  
 BUILDING PLAN. IN CASE OF DISCREPANCY  
 CONTACT STRUCTRUL ENGINEER.

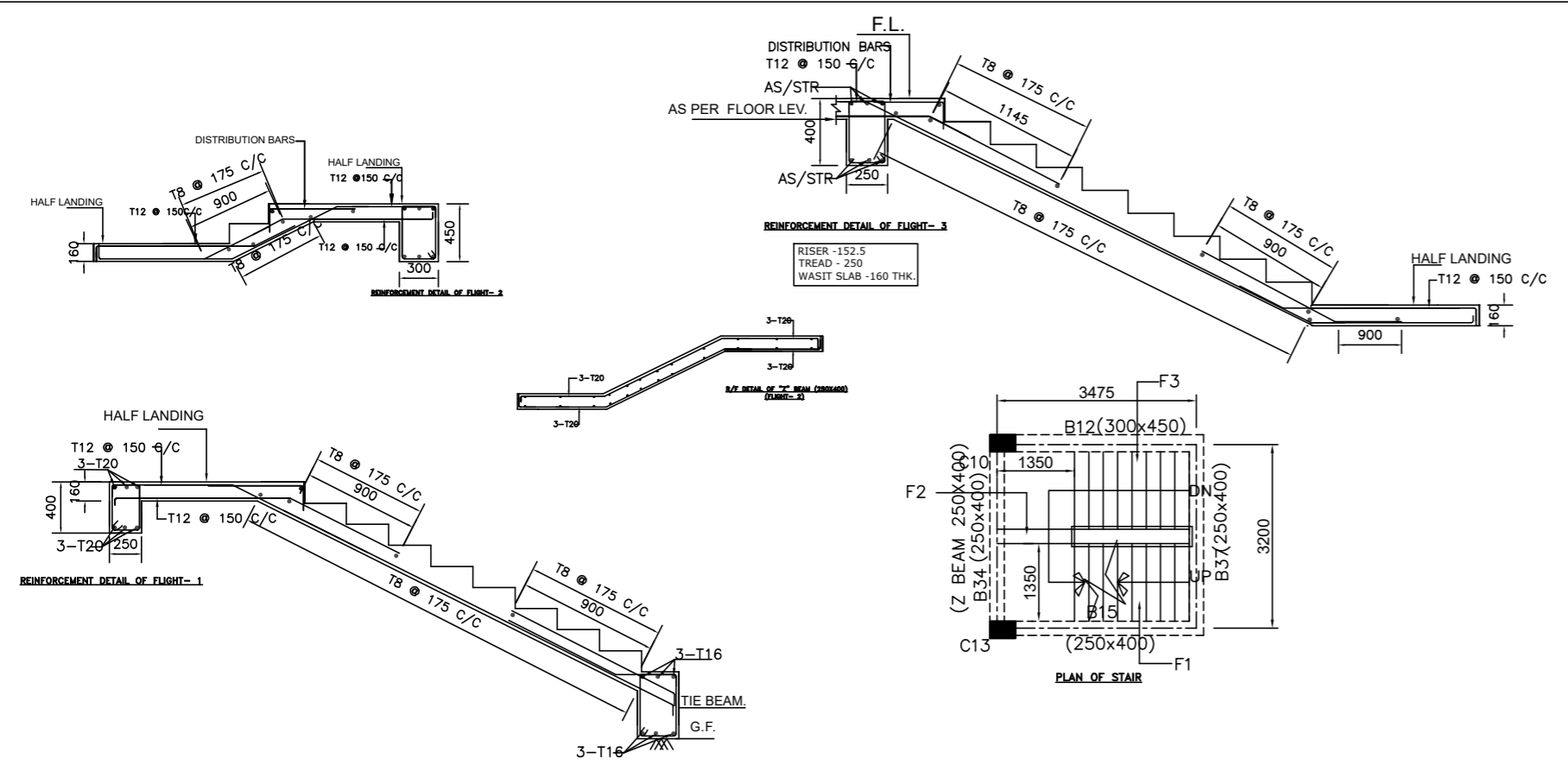
**ADD.NOTE**  
 1. COLUMN & BEAM POSITIONS AS PER  
 ARCHITECTURAL LAYOUT. IN CASE OF MINOR  
 DISCREPANCIES ARCHITECTURAL LAYOUT TO BE  
 GIVEN PRIORITY/CONSULT STRUCTURAL ENGINEER

**DECLARATION OF STRUCTURAL  
 ENGINEER**  
 THE STRUCTURAL DESIGN & DRAWING OF  
 BOTH FOUNDATION & SUPERSTRUCTURAL  
 OF THE GROUND+THREE STORIED RESIDENTIAL  
 CUM COMMERCIAL BUILDING MADE BY  
 ME CONSIDERING ALL POSSIBLE LOADS  
 INCLUDING SEISMIC LOAD & IS STABLE IN ALL  
 RESPECT .



ER. AVIJIT GHOSH - SMC 107  
 SIGNATURE OF STRUCTURAL ENGINEER

SHEET NO : 5/5  
 PLAN NO :

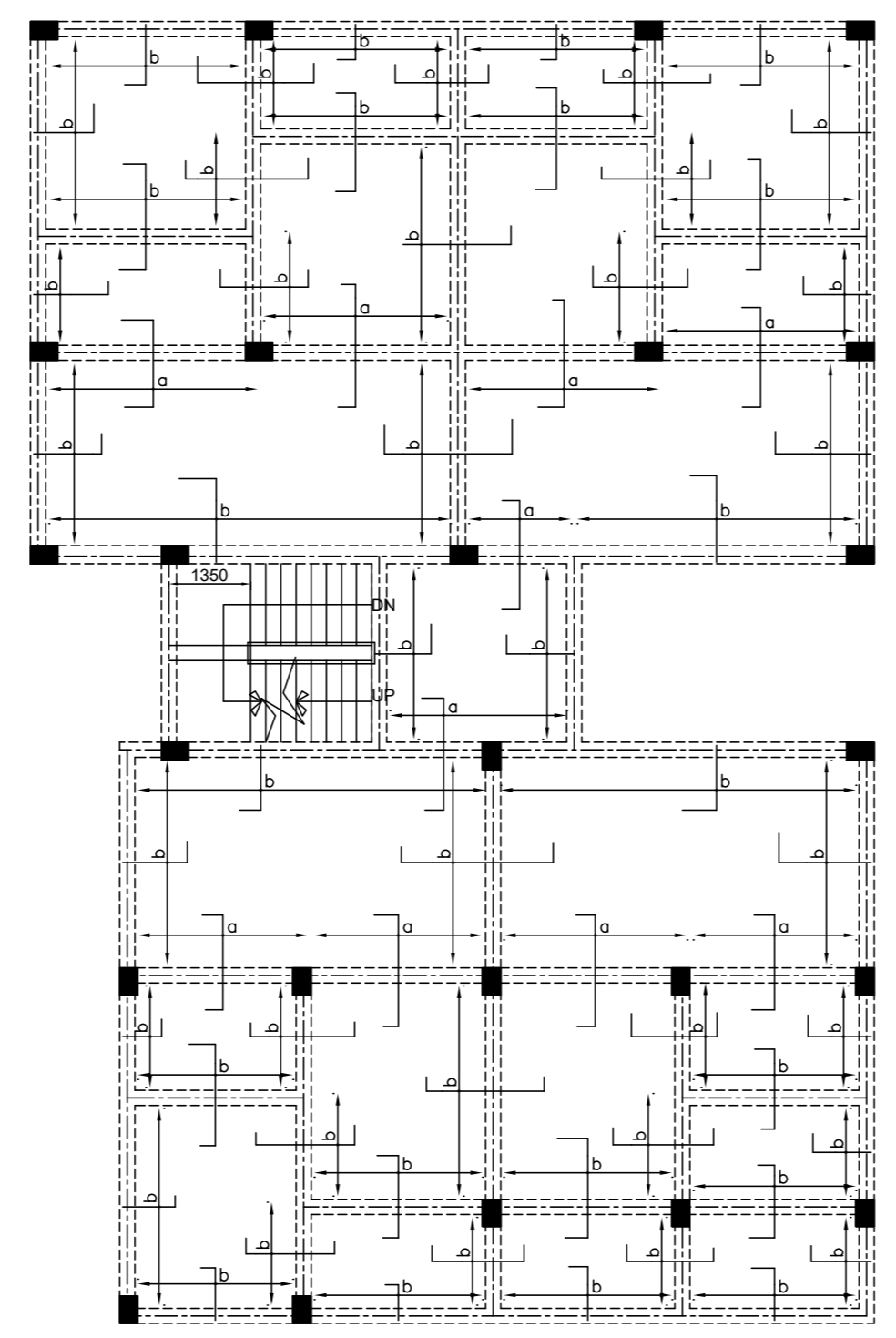
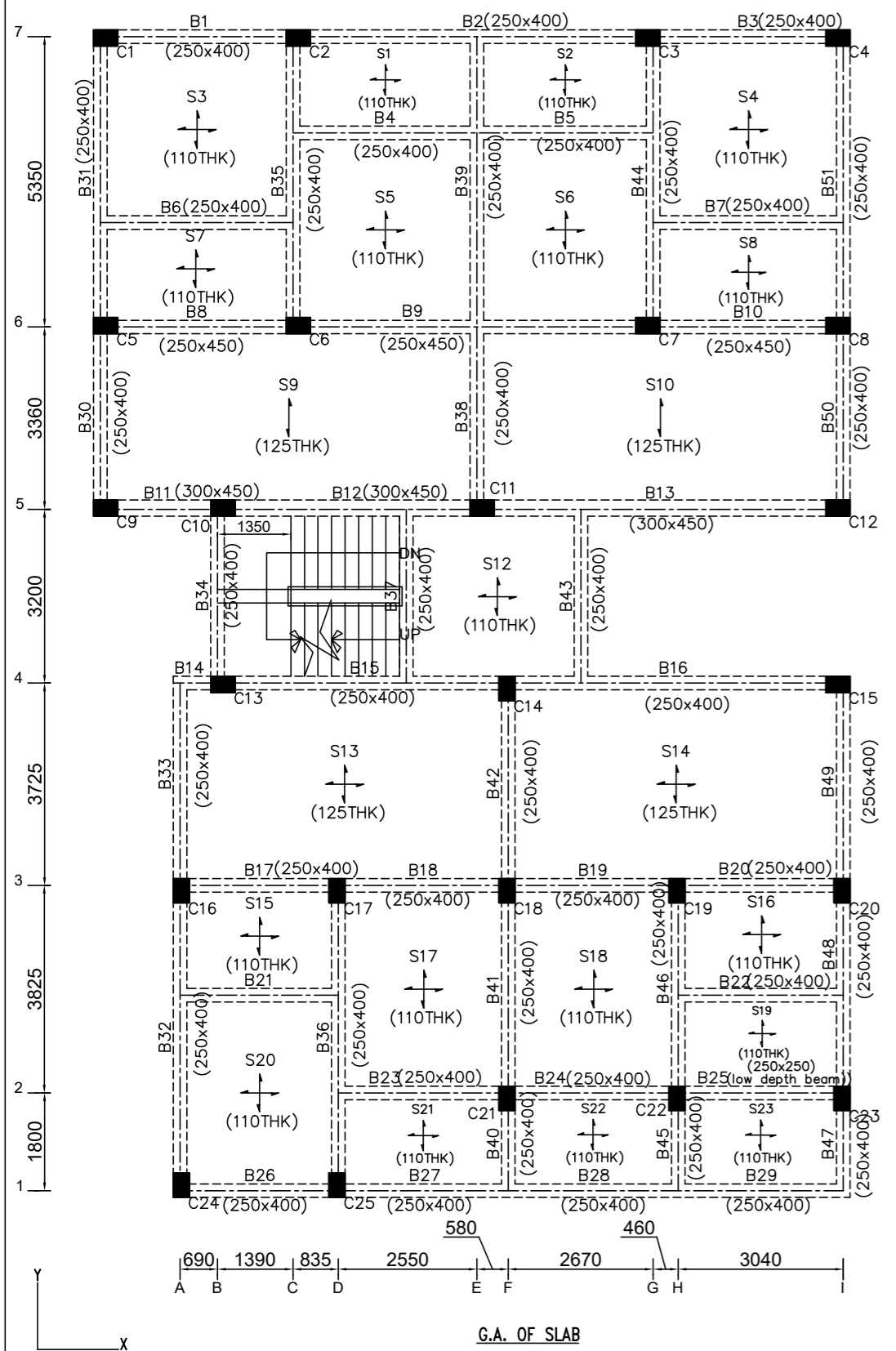
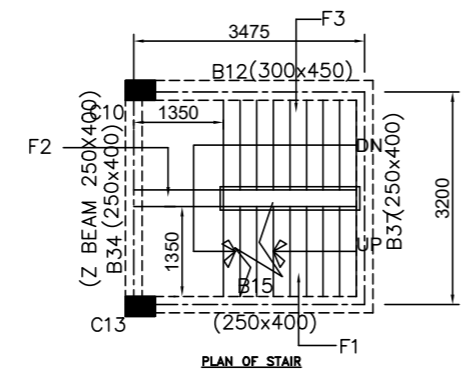


**BEAM LEGEND**

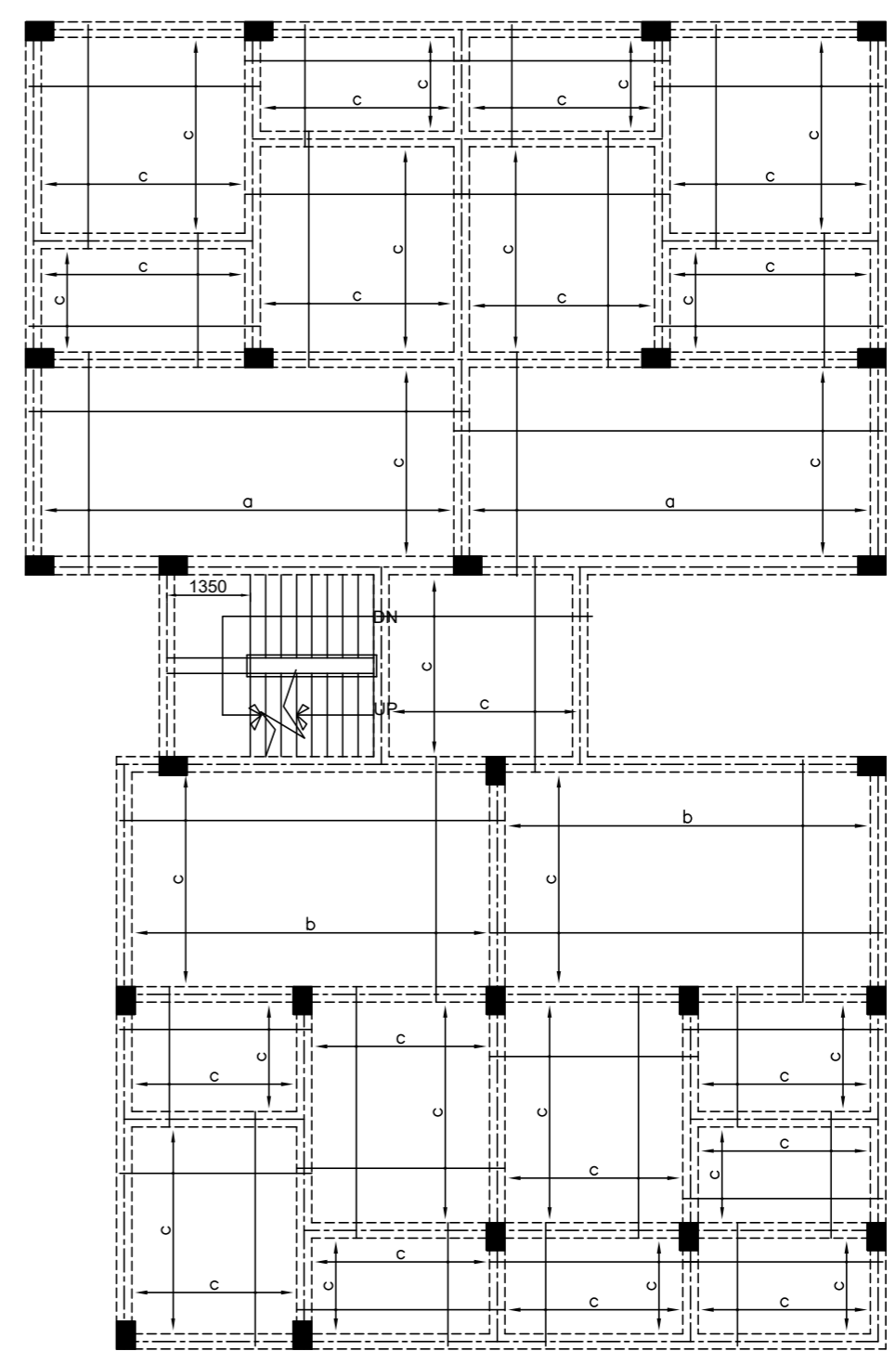
BEAM	SIZE	
	B	D
B25	250	250
B1,B2,B3,B4,B5,B6,B7,B14,B15,B16 B17,B18,B19,B20,B21,B22,B23,B24 B26,B27,B28,B29,B30,B31,B32,B33 B34,B35,B36,B37,B38,B39,B40,B41 B42,B43,B44,B45,B46,B47,B48,B49 B50,B51	250	400
B8,B9,B10	250	450
B11,B12,B13	300	450

Bar Mark	Reinforcement(bottom)
a	T8 @ 120
b	T8 @ 140
c	T8 @ 180

Bar Mark	Reinforcement(top)
a	T8 @ 120
b	T8 @ 180



**TOP REINFORCEMENT LAYOUT**  
 SLAB TOP BARS TO BE EXTENDED UPTO A DIMENSION OF  
 SPAN/3 AN EITHER SIDE OF BEAM FROM THE FACE OF BEAM.



**BOTTOM REINFORCEMENT LAYOUT**