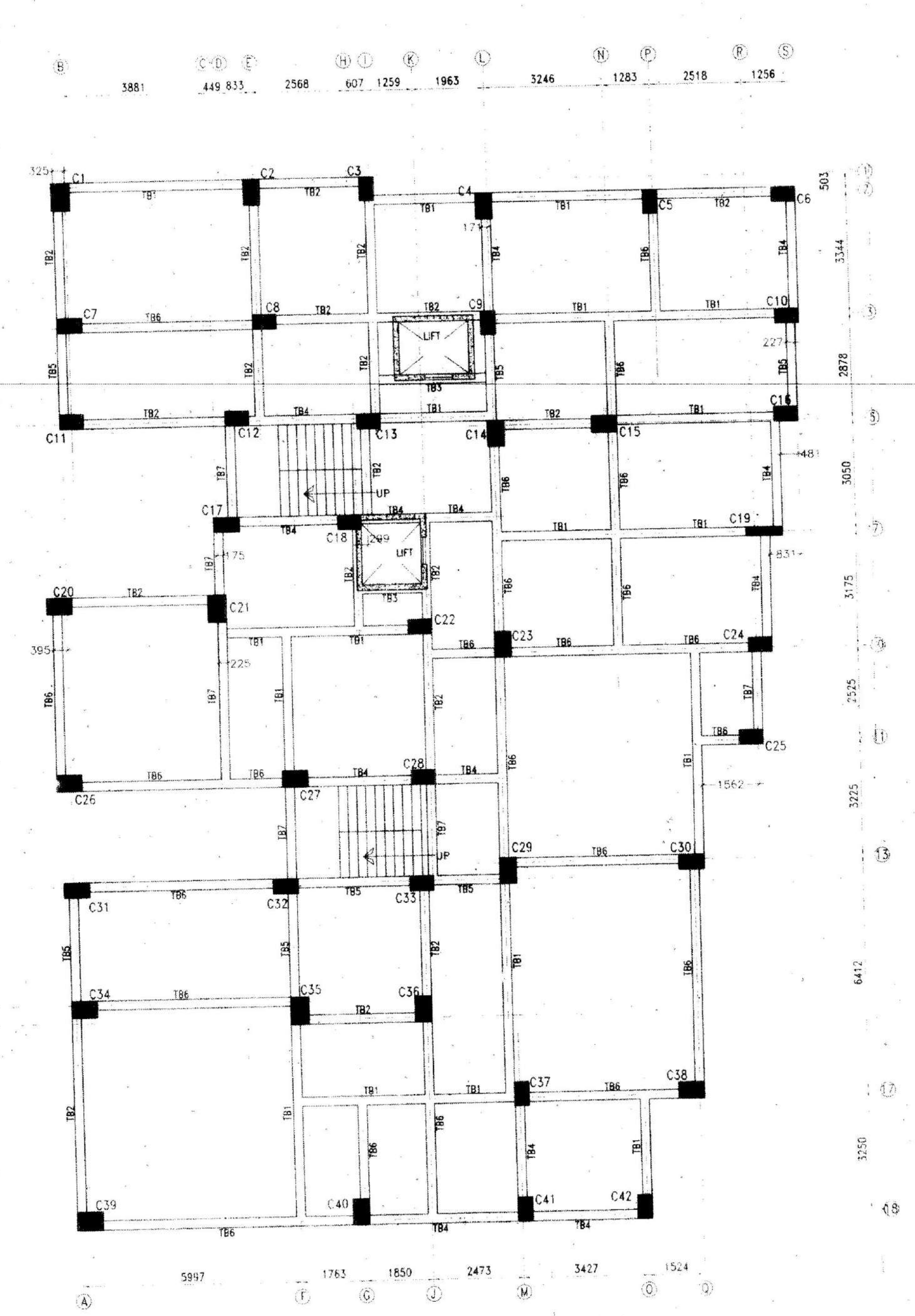
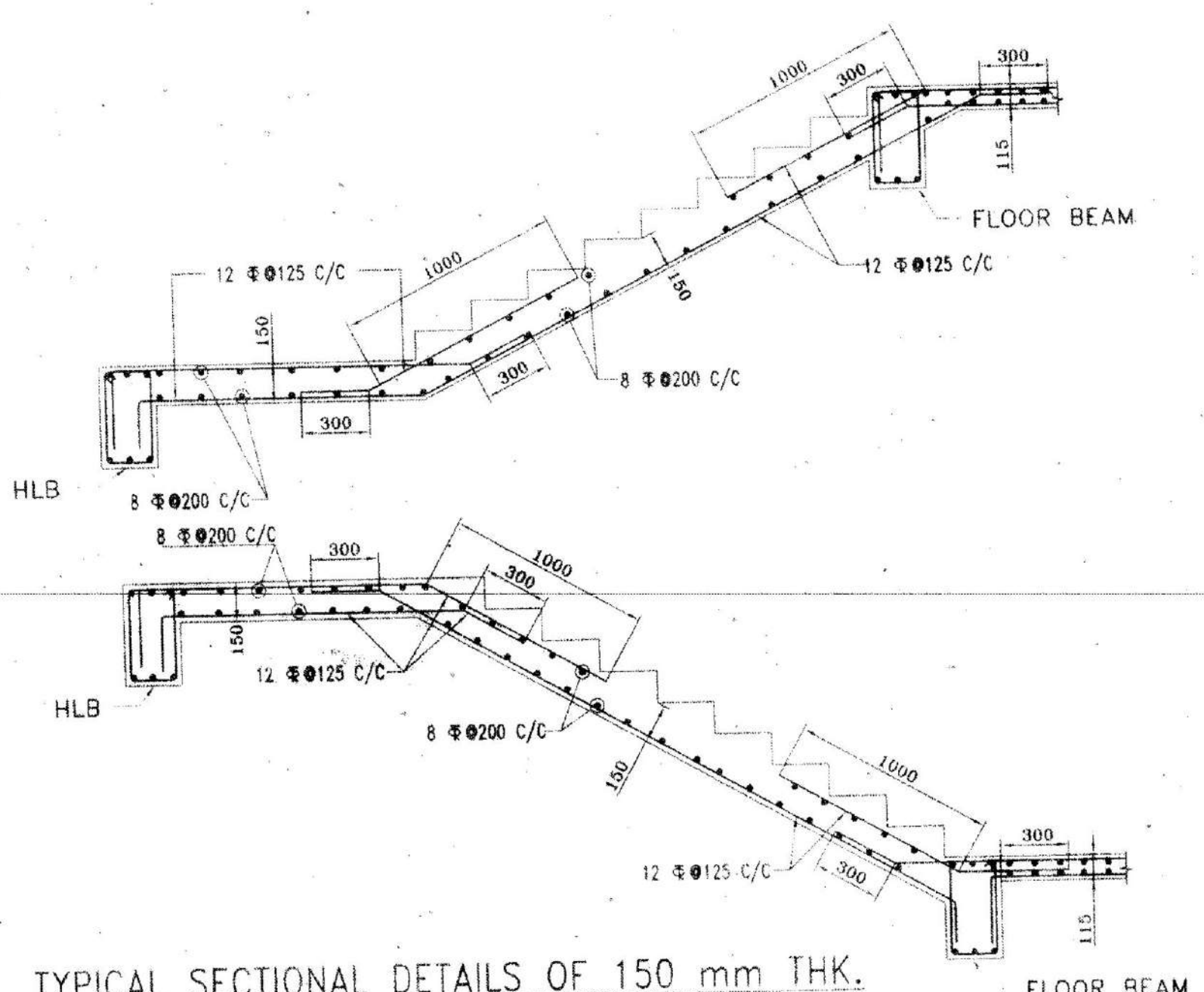


COLUMN LAYOUT PLAN
SCALE: 1:100



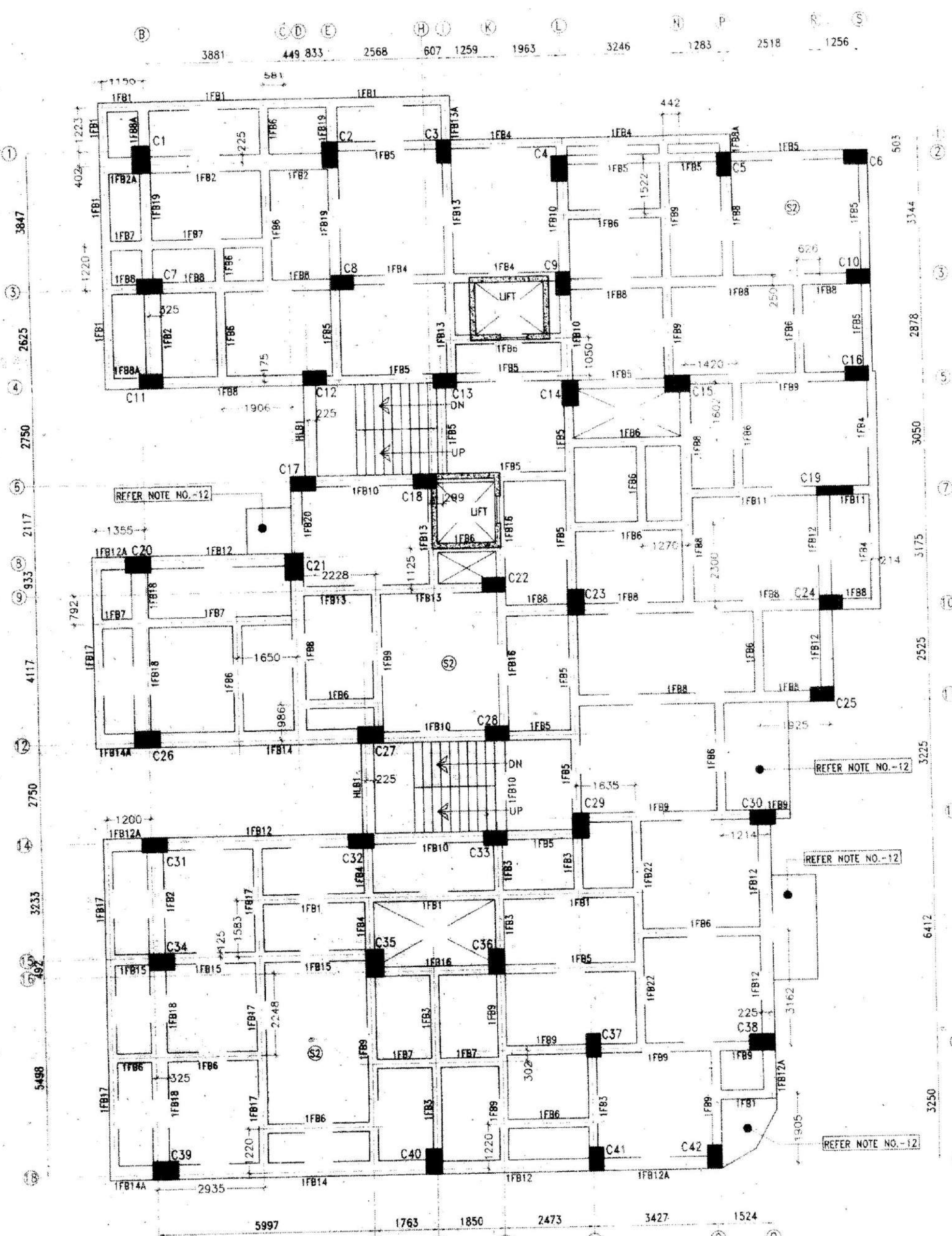
TIE BEAM LAYOUT PLAN AT LEVEL (±) 0.0 m.
SCALE: 1:100



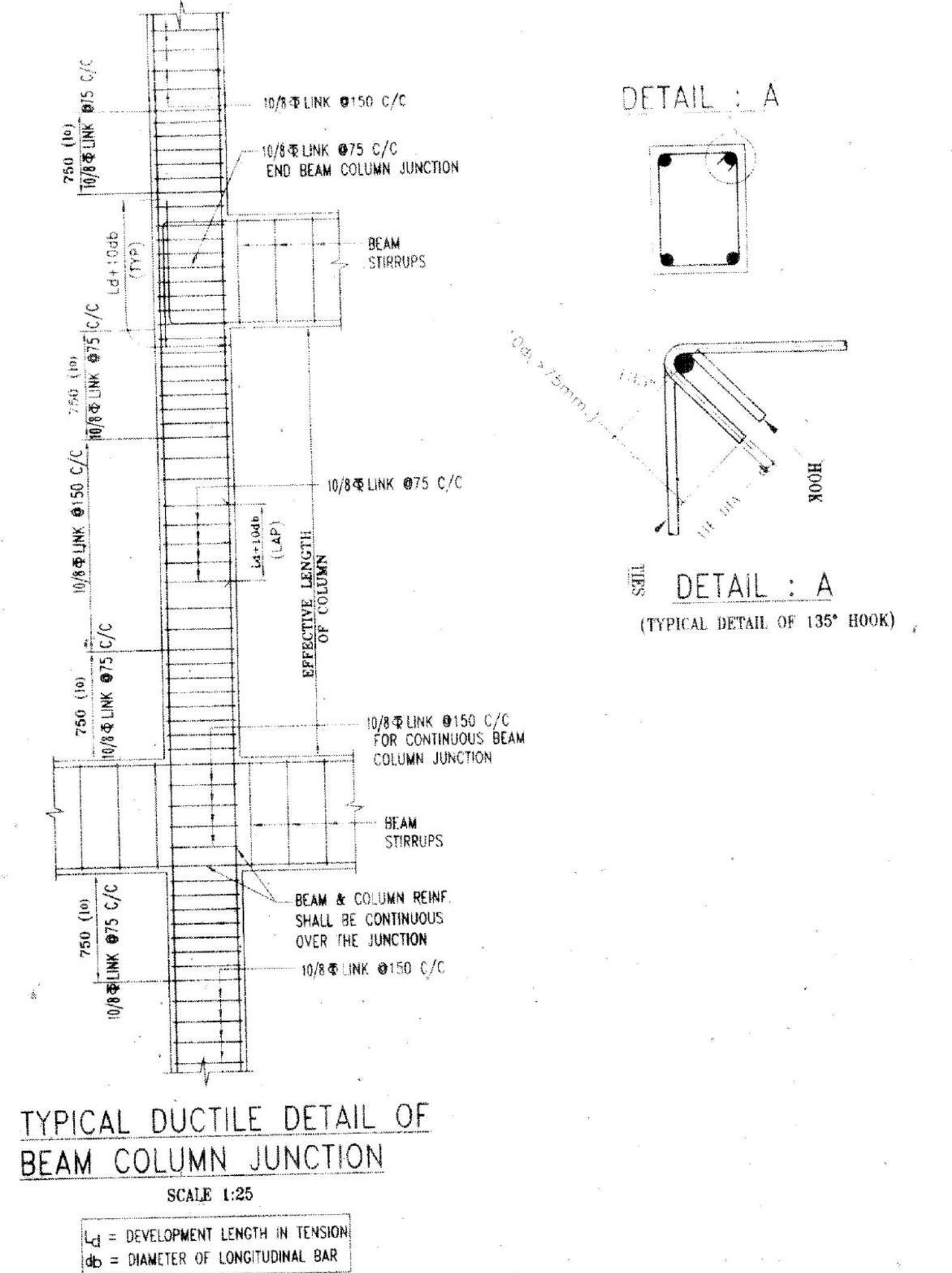
TYPICAL SECTIONAL DETAILS OF 150 mm THK. STAIR WAIST SLAB
SCALE: 1:25

BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT (mm)	BOTTOM REINFORCEMENT (mm)	STIRRUPS (AT SPAN)	STIRRUPS (AT SUPPORT)
TB1	250 x 450	3-16 #	3-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB2	250 x 450	2-20 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB3	250 x 400	2-16 #	2-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB4	250 x 450	3-20 #	3-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB5	250 x 450	3-20 #	3-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB6	250 x 450	2-18 #	2-18 #	2L-8Ø150 C/C	2L-8Ø150 C/C
TB7	250 x 450	2-20 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C

BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT (mm)	BOTTOM REINFORCEMENT (mm)	STIRRUPS (AT SPAN)	STIRRUPS (AT SUPPORT)
FB1	250 x 450	2-16 #	2-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB2	450 x 300	3-25 #	3-25 #	2L-10Ø100 C/C	2L-10Ø100 C/C
FB3	450 x 300	3-25 #	3-25 #	2L-10Ø100 C/C	2L-10Ø100 C/C
FB4	250 x 450	3-25 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB5	250 x 450	3-25 #	2-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB6	250 x 400	2-16 #	2-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB7	250 x 450	2-16 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB8	300 x 500	3-25 #	3-25 #	2L-12Ø100 C/C	2L-12Ø100 C/C
FB9	250 x 450	3-20 #	3-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB10	300 x 500	3-25 #	3-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB11	250 x 500	3-20 #	3-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB12	350 x 550	3-25 #	3-25 #	2L-12Ø100 C/C	2L-12Ø100 C/C
FB13	250 x 450	3-20 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB14	250 x 450	3-20 #	2-20 #	2L-10Ø100 C/C	2L-10Ø100 C/C
FB15	400 x 550	3-25 #	3-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB16	400 x 550	3-25 #	3-25 #	4L-10Ø100 C/C	4L-10Ø100 C/C
FB17	500 x 300	3-25 #	3-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB18	250 x 500	3-25 #	2-16 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB19	450 x 300	3-25 #	3-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB20	300 x 500	3-25 #	3-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB21	250 x 500	3-25 #	2-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB22	250 x 500	3-25 #	2-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB23	250 x 450	3-20 #	2-20 #	2L-8Ø150 C/C	2L-8Ø150 C/C
FB24	350 x 550	4-25 #	4-25 #	2L-8Ø150 C/C	2L-8Ø150 C/C



TYPICAL (1st to 4th) FLOOR BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+) 2.80m, 5.75m, 8.70m, 11.65m.



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
SCALE: 1:25

COLUMN MARKED	HGT. OF COLUMN (mm)	COLUMN SIZE (mm x mm)	MAIN REINFORCEMENT	STIRRUP ARRANGEMENT & SPACING
ST1, ST4, ST7	ROOF TO LMR ROOF SLAB	250 x 450	2-25 #	8Ø150 C/C (2 NO. CLOSED LINK)
ST2, ST6	ROOF TO LMR ROOF SLAB	250 x 250	2-25 #	8Ø150 C/C (1 NO. CLOSED LINK)
ST3, ST5	ROOF TO MINTY ROOF BEAM	250 x 350	2-25 #	8Ø150 C/C (2 NO. CLOSED LINK)

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 4th FLOOR	4th FLOOR TO 7th FLOOR	7th FLOOR TO ROOF ABOVE	NEAR JUNCTION (mm)	REST PORTION
C1, C11, C15, C16, C18, C22	06	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C17, C30, C31	03	400x700	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C7, C32	02	400x700	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C12, C24	02	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C6, C8, C9, C41	04	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C3, C28, C33, C37	04	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C25	01	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C5, C42	02	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C21, C35	02	500x750	MAIN RNF: 4-25 #	MAIN RNF: 4-25 #	MAIN RNF: 4-25 #	10Ø75 C/C (4 NOS. CLOSED LINK)	10Ø150 C/C (4 NOS. CLOSED LINK)

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 4th FLOOR	4th FLOOR TO 7th FLOOR	7th FLOOR TO ROOF ABOVE	NEAR JUNCTION (mm)	REST PORTION
C10, C11, C15, C16, C18, C22	06	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C17, C30, C31	03	400x700	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C7, C32	02	400x700	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C12, C24	02	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C6, C8, C9, C41	04	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C3, C28, C33, C37	04	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C25	01	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C5, C42	02	400x650	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	MAIN RNF: 4-16 #	8Ø75 C/C (3 NOS. CLOSED LINK)	8Ø150 C/C (3 NOS. CLOSED LINK)
C21, C35	02	500x750	MAIN RNF: 4-25 #	MAIN RNF: 4-25 #	MAIN RNF: 4-25 #	10Ø75 C/C (4 NOS. CLOSED LINK)	10Ø150 C/C (4 NOS. CLOSED LINK)

NOTES

- 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. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
- IF THERE IS A DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS, THE STRUCTURAL DRAWING SHALL TAKE PRECEDENCE UNLESS OTHERWISE SPECIFIED. ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
- UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50d BAR DIA. CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - i) COLUMNS: 40 mm
 - ii) BEAMS SURROUNDING THE STAIR ROOM: 30 mm
 - iii) TO MEET 4 HRS. OF FIRE RESISTANCE: 70 mm
 - iv) WAIST SLAB TO MEET 4 HRS. OF FIRE RESISTANCE: 55 mm
 - v) FLOOR SLAB: 20 mm
 - vi) LIFT SHEAR WALL: 20 mm
- GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE M30 AS PER IS:456:2000.
- VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
- DEVELOPMENT LENGTH 500D FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987 WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 50D IN THE SUPPORTING MEMBER.
- WHERE TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDES.
- IN ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED AT LEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

SPECIAL NOTES

THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.

TITLE

STRUCTURAL DRAWING OF PROPOSED G+4D STORED RESIDENTIAL (APARTMENT) BUILDING OF THREE BUILDERS & DEVELOPERS PVT. LTD. OVER PLOT NO- [28/527(R.S.) 57(L.R.); L.R. KHATAN NO- 2335,2336,2337 & 2338 J.L. NO-95(R.S.) 109 (L.R.) MOUZA- SHANKARPUR S.I. N.T.P.S. DIST.-PASHCHIM BURDWAN.

LAND OWNERS:- 1.) SRI SANJAY BAJORIA, 2.) SRI PAWAN BAJORIA, 3.) SMT. JYOTI AGARWAL & 4.) SRI MUKESH AGARWAL

CERTIFICATE OF STRUCTURAL ENGINEER

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

Signature: *[Signature]*
Date: 22/09/2022

SIGNATURE OF CONSULTANT/ARCHITECT SIGNATURE

DO NOT REMOVE OR DESTROY THIS SIGNATURE. THE BUILDING SHALL BE CONSIDERED AS NOT BEING PREPARED BY ME KEEPING THE PROVISION OF NBC OF INDIA AND CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT.

Signature: *[Signature]*
Date: 22/09/2022

SIGNATURE OF GEOTECHNICAL ENGINEER

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT.

Signature: *[Signature]*
Date: 22/09/2022

SIGNATURE OF PANCHAYAT PRADHAN

Approval Plan No. [Blank] and Working No. [Blank] Date: 22/09/2022
Valid upto: 18/03/2022

Signature: *[Signature]*
Date: 22/09/2022

SIGNATURE OF VETTING AUTHORITY

Signature: *[Signature]*
Date: 22/09/2022

CHECKED & VETTED

Signature: *[Signature]*
Date: 22/09/2022

CERTIFICATE OF OWNER

THIS IS TO CERTIFY THAT I SHALL NOT DO A LATER DATE. MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.

Signature: *[Signature]*
Date: 22/09/2022

DRAWING TITLE

COLUMN LAYOUT PLAN & REINFORCEMENT DETAILS, TIE, TYPICAL FLOOR (1st to 4th) BEAM AND SLAB LAYOUT PLAN & REINFORCEMENT DETAILS - STAIR CASE DETAILS.

SCALE: 1:100 OR AS SHOWN
DATE: 24.06.2019