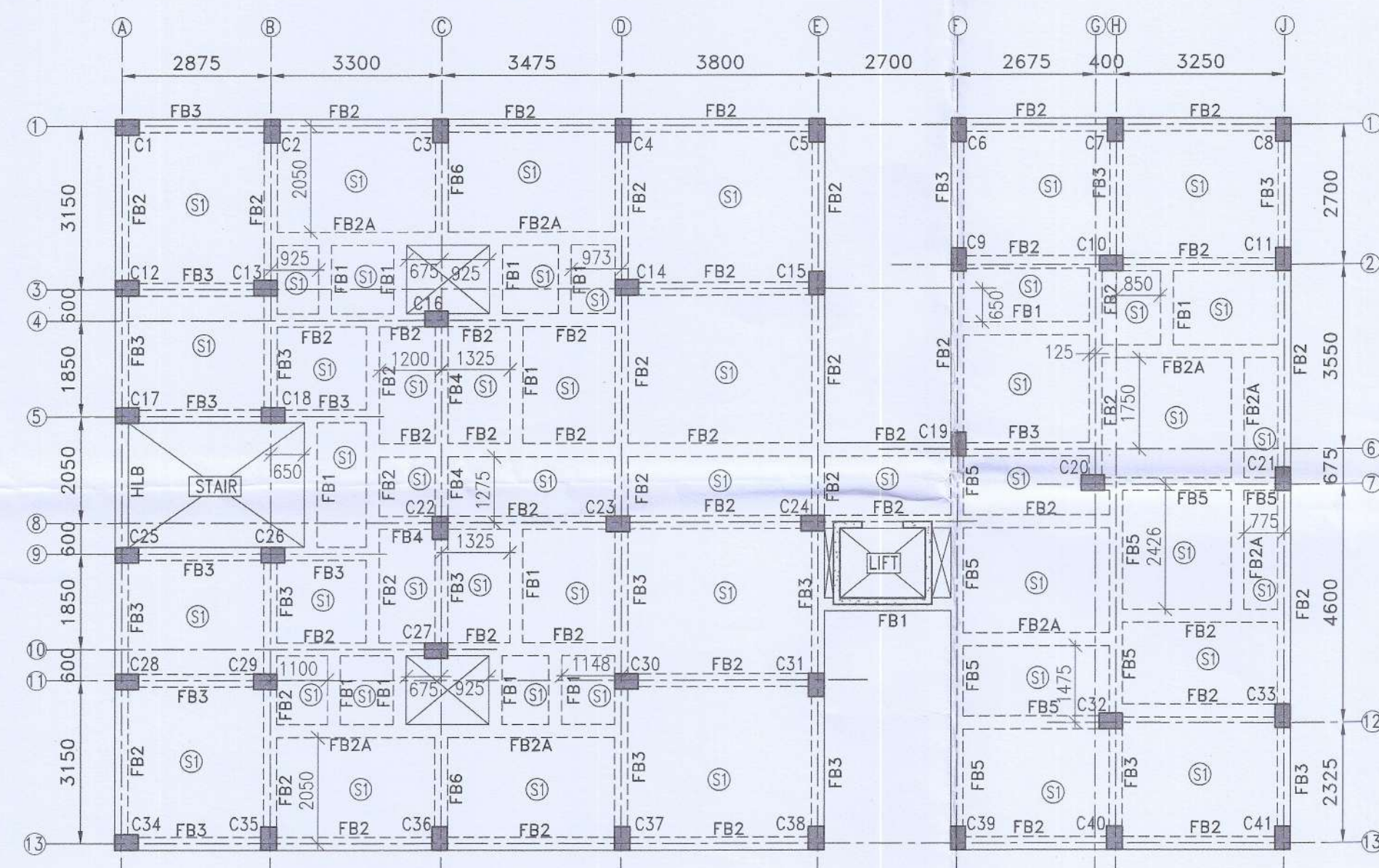
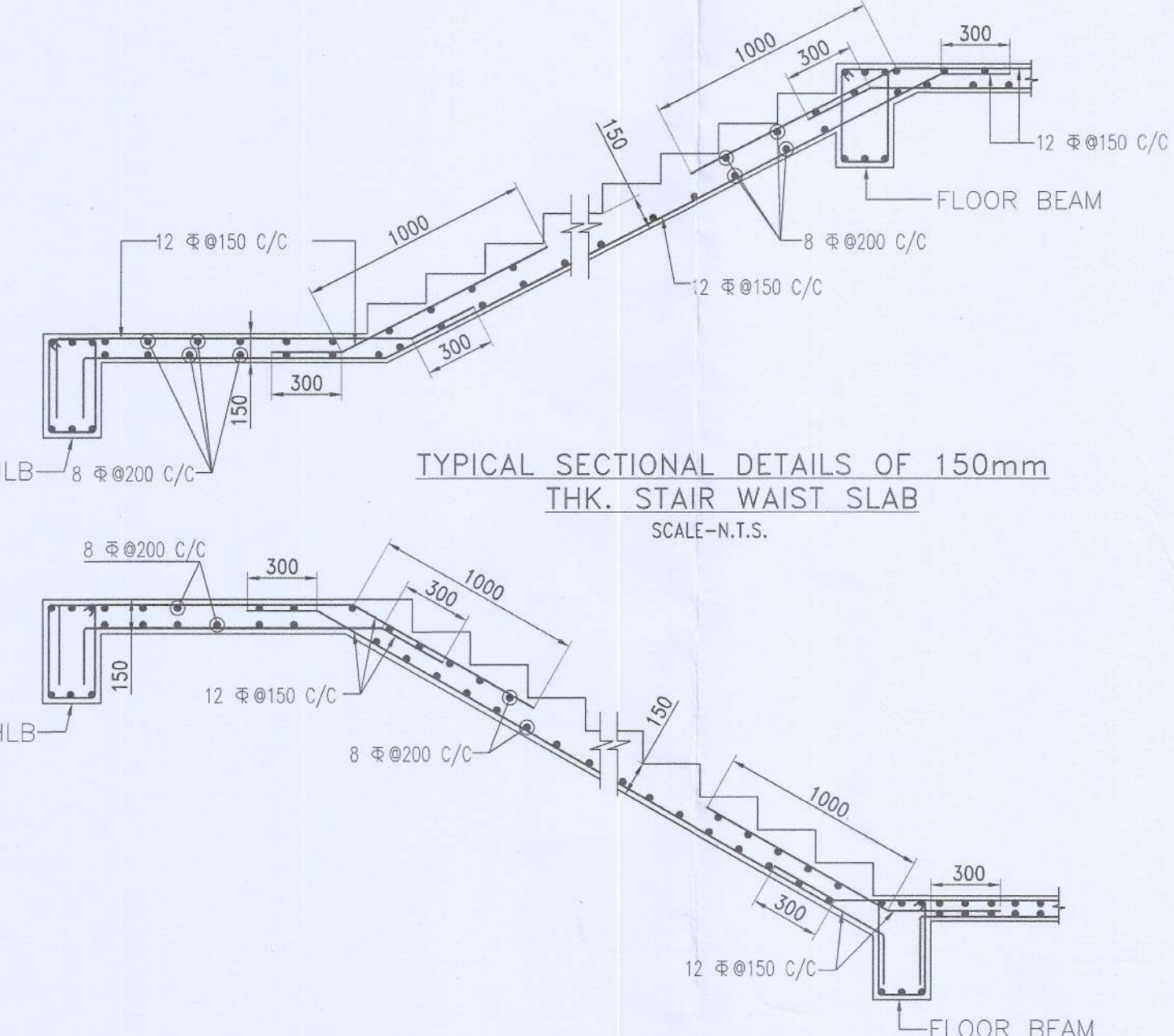


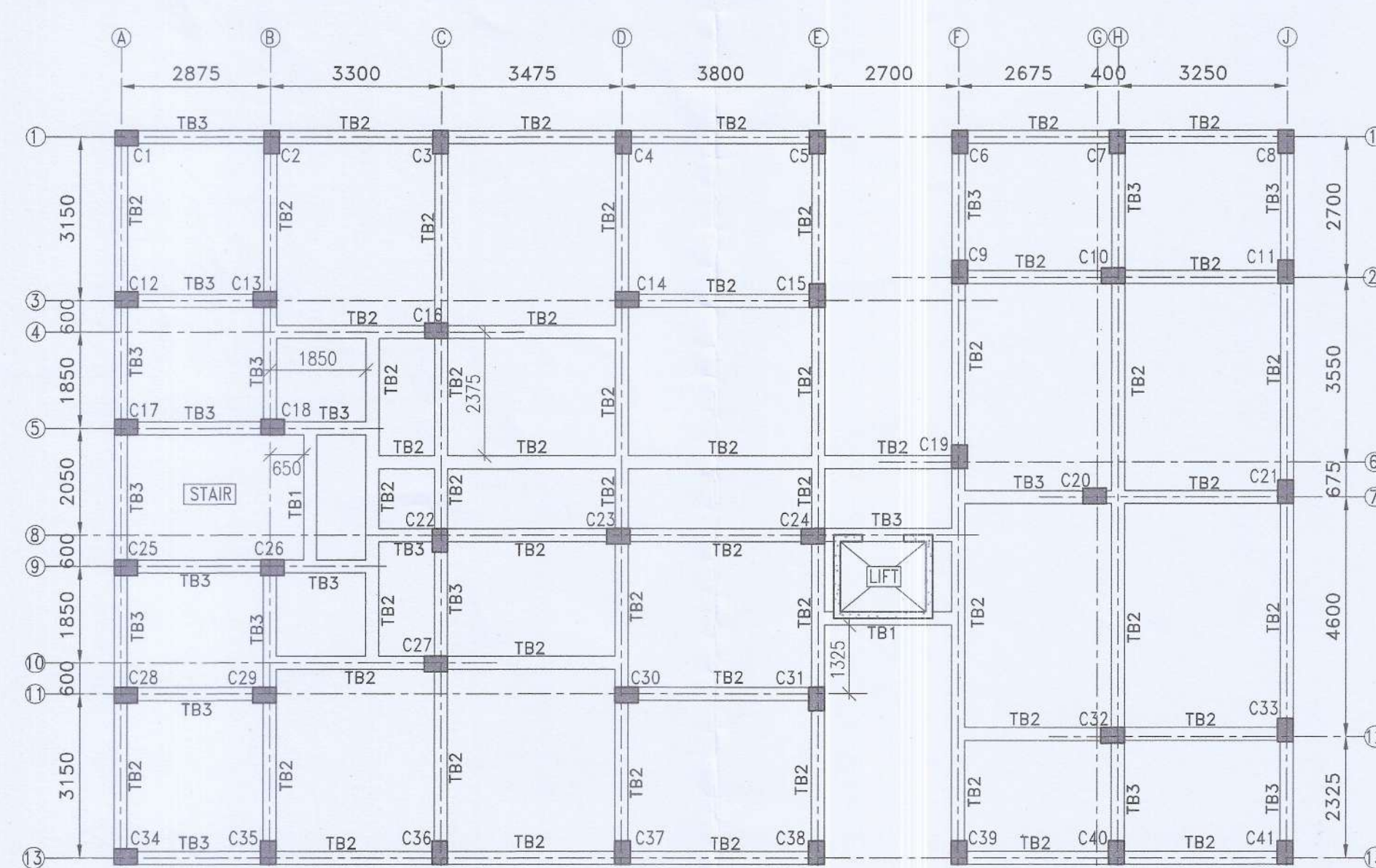
COLUMN LAYOUT PLAN
SCALE 1:100



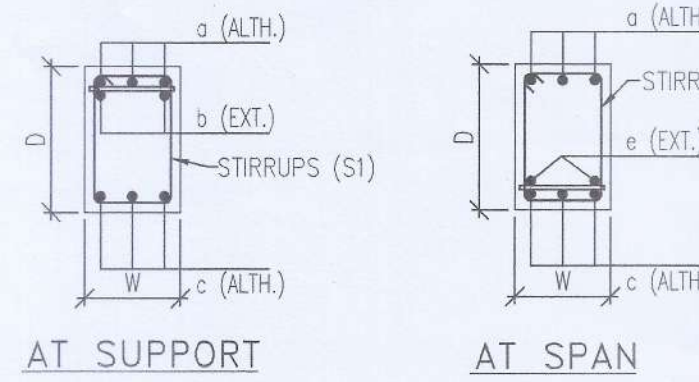
TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVELS (+)2.950m, (+)5.950m, (+)8.950m, (+)11.950m.
S1 MARKED SLABS ARE 115mm THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE-1:100



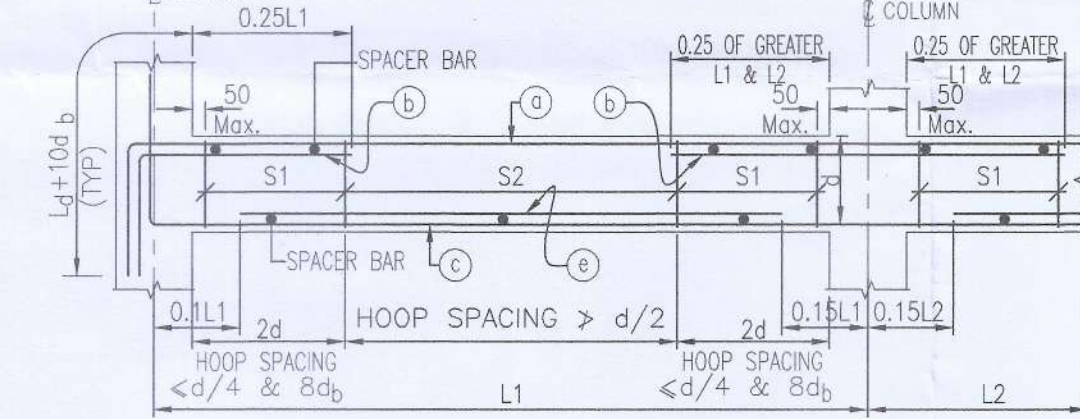
TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB
SCALE-N.T.S.



TIE BEAM LAYOUT PLAN AT LEVEL (±)0.00m.
SCALE-1:100



TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S.

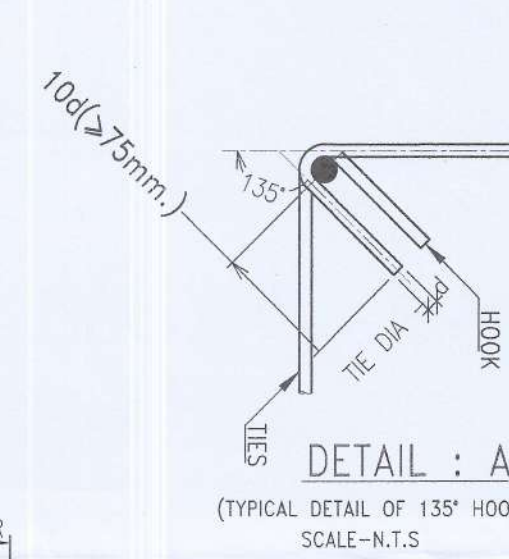


TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE-N.T.S.

SCHEDULE OF STOOL COLUMN				
COLUMN MARKED	NOS. OF COLUMN	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1,ST2 (ROOF TO MUMTY)	06	250x250	250	8 ϕ 150 C/C (1 NO. CLOSED LINK)
ST3,ST4,ST5,ST6 (ROOF TO LMR ROOF)			250	8 ϕ 150 C/C (1 NO. CLOSED LINK)

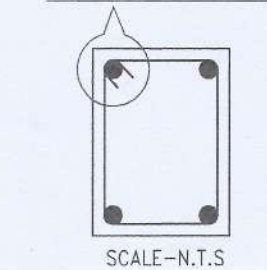
SPECIAL NOTES:-

- 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.
- THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

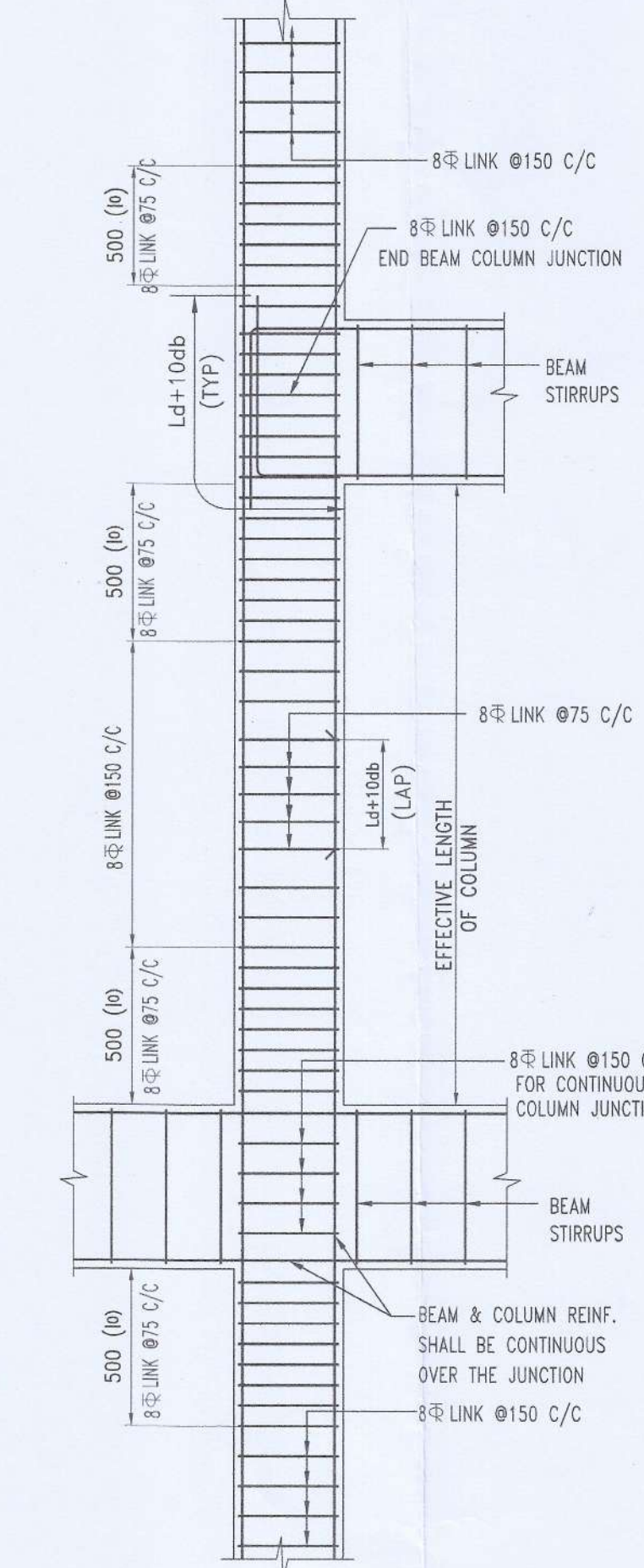


DETAIL: A
(TYPICAL DETAIL OF 135° HOOK)
SCALE-N.T.S.

DETAIL: A



SCALE-N.T.S.



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
SCALE-N.T.S.

L_d = DEVELOPMENT LENGTH IN TENSION
d = DIAMETER OF LONGITUDINAL BAR

SCHEDULE OF COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
C3,C4,C5, C14,C15,C32, C36	07	300X450	300	8 ϕ 75 C/C (3 NOS. CLOSED LINK)
C1,C2,C6,C7,C8, C9,C10,C11,C12, C13,C16,C17, C18,C19,C20, C21,C22,C23, C24,C25,C26, C27,C28,C29, C30,C31,C33, C34,C35,C37, C38,C39,C40, C41	34	300X450	300	8 ϕ 75 C/C (3 NOS. CLOSED LINK)

SCHEDULE OF TIE BEAMS						
BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SPAN)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	
TB1	250 350	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ 100 C/C
TB2	250 450	3-16 ϕ	-	3-12 ϕ	-	2L-8 ϕ 200 C/C
TB3	250 400	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ 100 C/C

SCHEDULE OF TYPICAL BEAMS						
BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SPAN)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	
FB1	250 400	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C
FB2	250 450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 200 C/C
FB2A	250 450	2-16 ϕ +1-12 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 100 C/C
FB3	250 450	2-16 ϕ +1-12 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 100 C/C
FB4	250 450	LAYER 1: 2-16 ϕ LAYER 2: 2-12 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 200 C/C
FB5	250 450	3-16 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 100 C/C
FB6	250 450	LAYER 1: 2-16 ϕ LAYER 2: 3-16 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 100 C/C
HLB	250 450	2-16 ϕ +1-12 ϕ	-	2-16 ϕ +1-12 ϕ	-	2L-8 ϕ 100 C/C

- 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 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).
 - 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-500/500D CONFORMING TO IS-1786-2008.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50 ϕ BAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - i) COLUMNS : 40 mm
 - ii) BEAMS : 30 mm
 - iii) SLABS : 20 mm
 - iv) WAIST SLAB : 20 mm
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE OF M25 AS PER IS:456:2000.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - DEVELOPMENT LENGTH 50D 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 60D IN THE SUPPORTING MEMBER.
 - WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
 - ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UP TO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE- (BLOCK-C)
STRUCTURAL DRAWING OF PROPOSED G+H STORED RESIDENTIAL CUM COMMERCIAL BUILDING AT MOUZA :-KALIKAPUR, JL NO :- 40 ,R.S/L.R. DAG NOS:- 437; L.R. KHATIAN NOS:-3782,3995, R.S. NO:-141;TOUZI NO:-10;P.S:-RAJARHAT UNDER PATHARGHATA GRAM PANCHAYET DISTRICT: NORTH 24 PARGANAS.

SIGNATURE OF OWNER
GITANJALI ENTERPRISE
Rina Chatterjee (Roj) Arbo Das
Partner
GITANJALI ENTERPRISE
Basant K. Jha alin basoff
Partner

SIGNATURE OF ARCHITECT

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.E.(CIVIL) - WBUT
ME (CONSTRUCTION) - JI
P.S.E.-I/BJPSON/130
P.S.E.-II/BJMCO/068
STER/NKDA/21/00010
CVER/NKDA/10/00175
(M)-867517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED
DR. DIPAN K. AR CHATTERJEE
STRUCTURAL ENGINEER (REGD.)
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
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STRUCTURAL CONSULTANT:
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Email-structconenterprise@gmail.com
Ph.-9007714478, 7003201735

DRAWING TITLE
COLUMN, TIE BEAM & TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN WITH REINF. DETAILS, DETAILS OF STAIR.
SCALE:-1:100 OR AS SHOWN
DATE:-07.06.2024
SHEET NO.- 2 OF 3 SHEET SIZE- A1