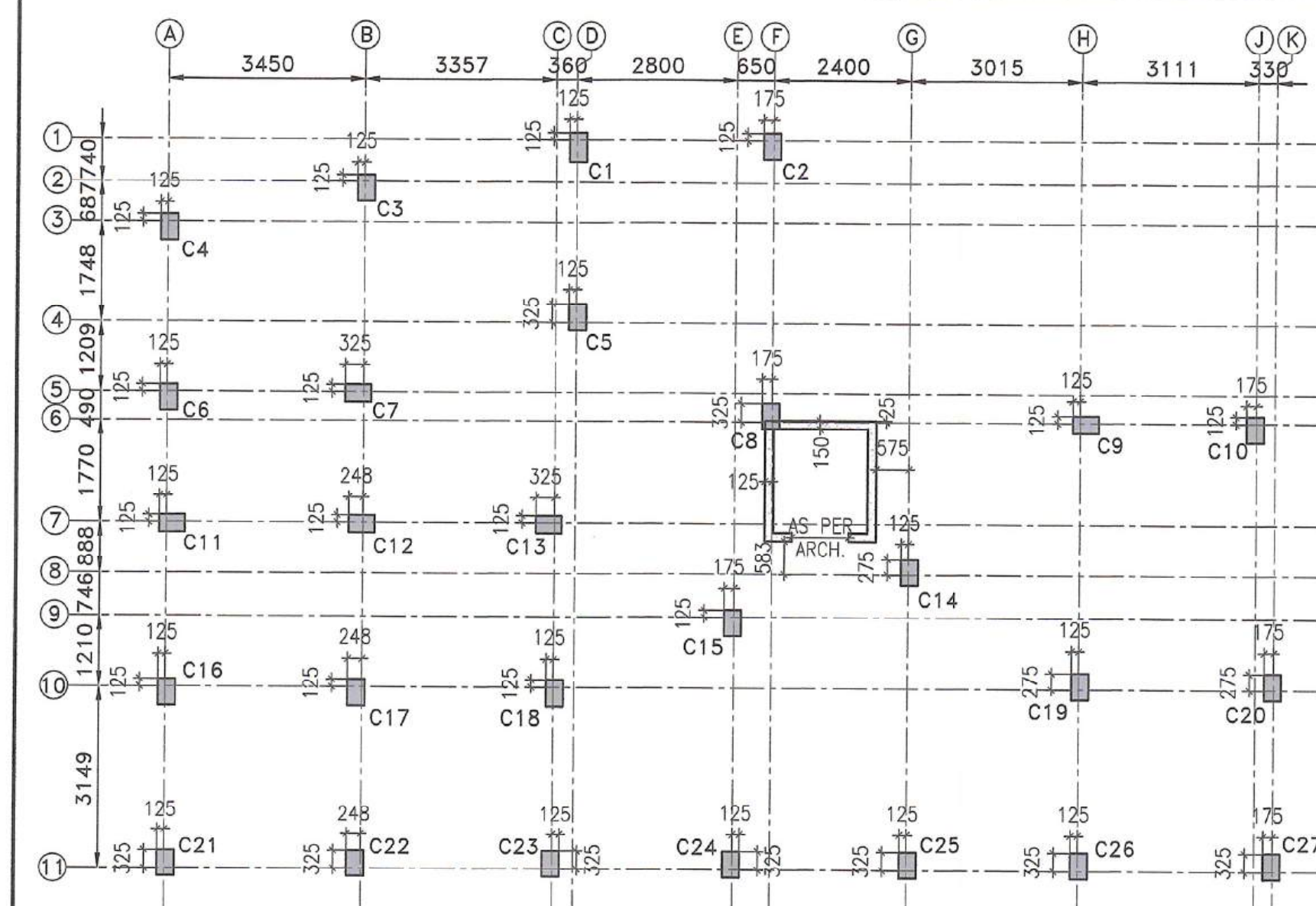
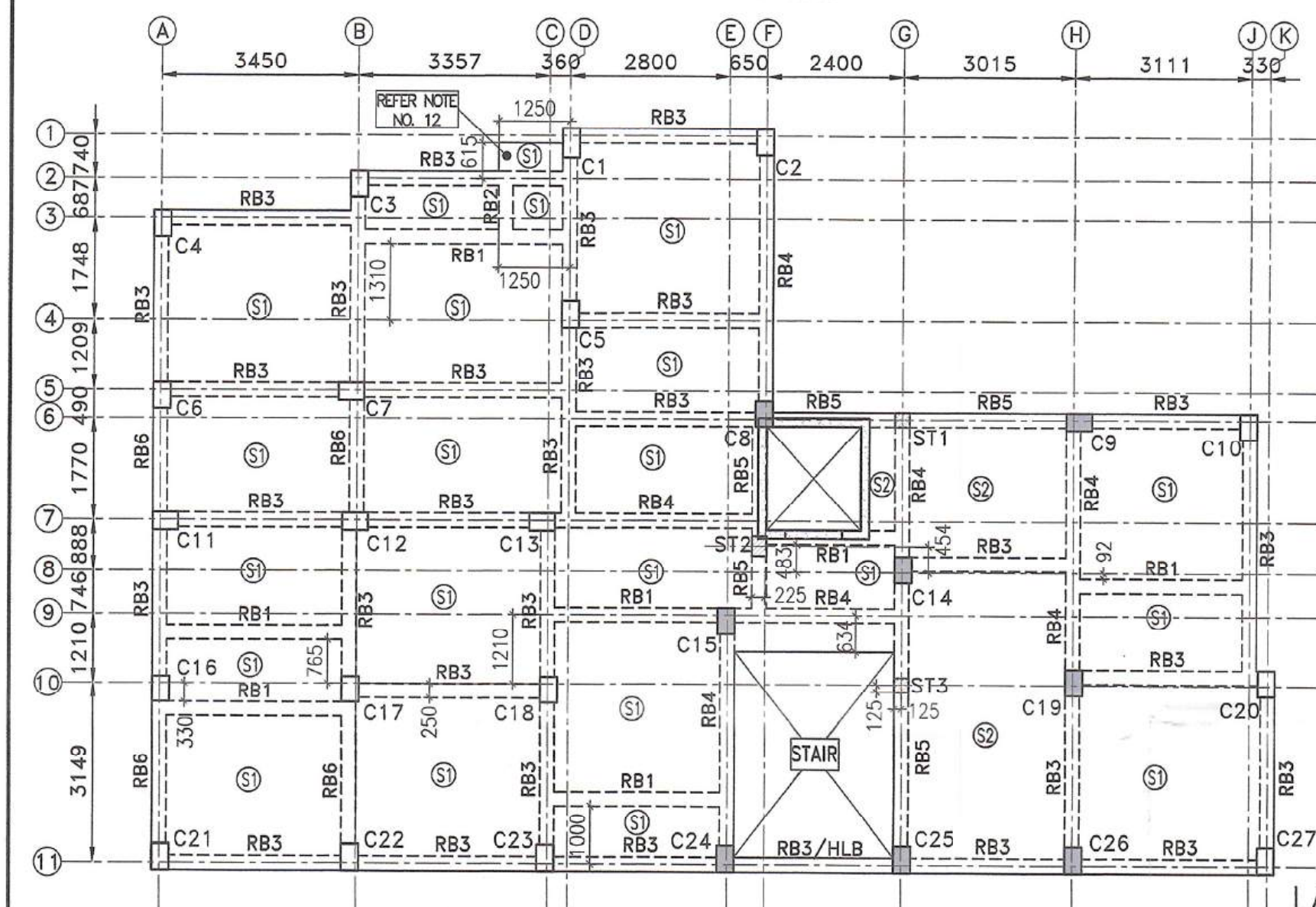




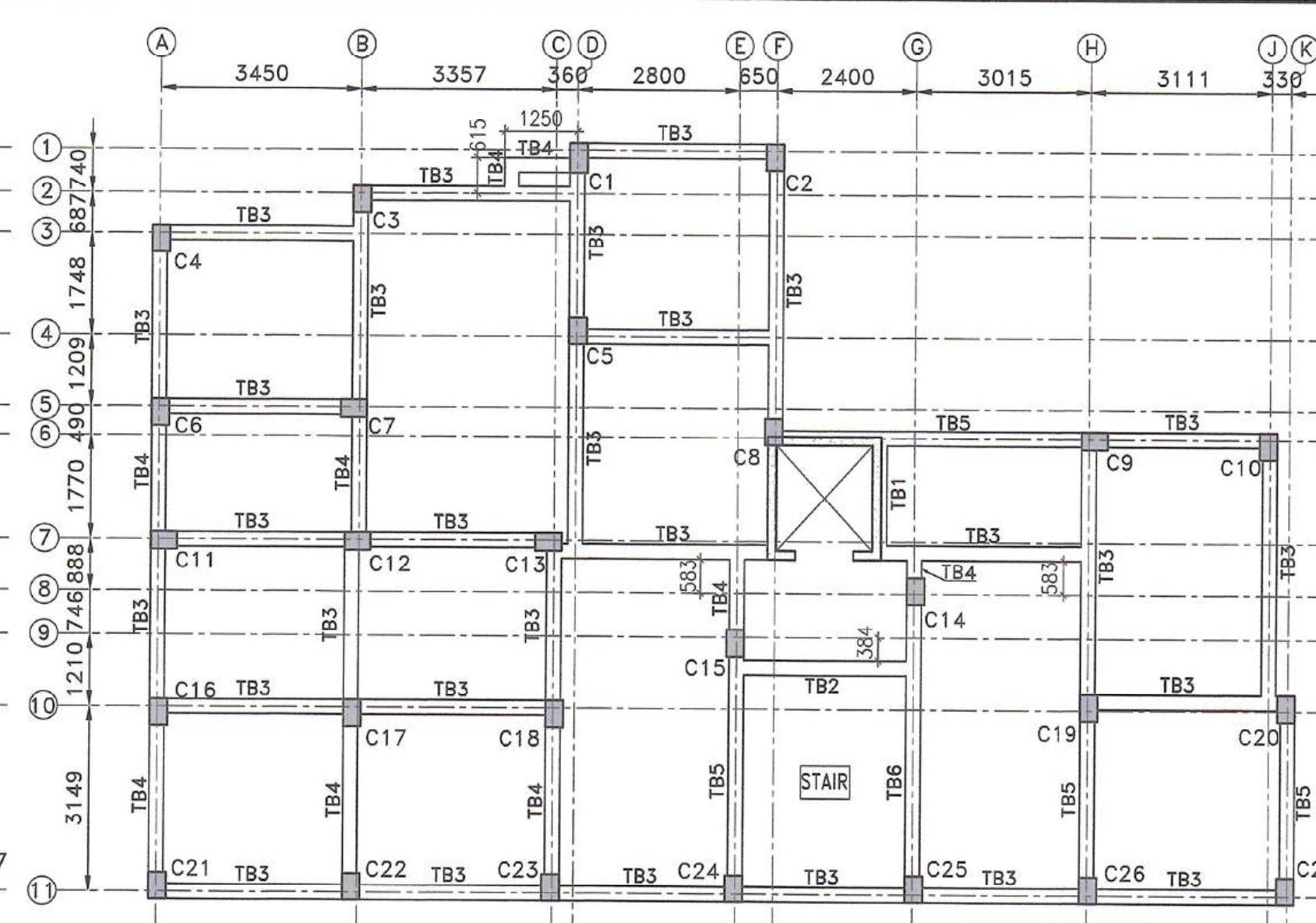
COLUMN LAYOUT PLAN
SCALE-1:100



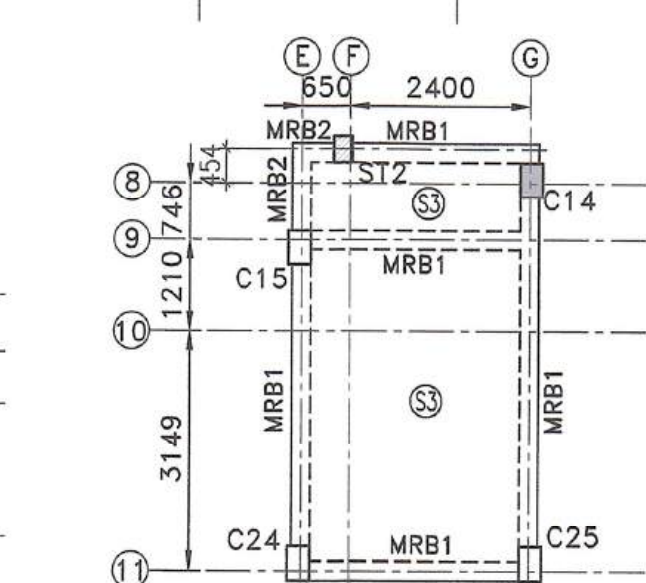
ROOF BEAM AND SLAB LAYOUT
PLAN AT LEVEL (+)15.400m.
S1 MARKED SLABS ARE 115mm. THICK.
S2 MARKED SLABS ARE 125mm. THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE-1:100

SCHEDULE OF ABOVE ROOF BEAMS						
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHOUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHOUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SPAN) (S2)
WTB	250 450	2-12 +1-16	-	3-12	-	2L-8 @200 C/C
MRB1	250 400	2-12 +1-16	-	3-12	-	2L-8 @200 C/C
MRB2	250 400	2-12 +1-16	-	3-12	-	2L-8 @200 C/C
LMFB	250 400	3-12	-	3-12	-	2L-8 @200 C/C
LMRB	250 400	3-12	-	3-12	-	2L-8 @200 C/C

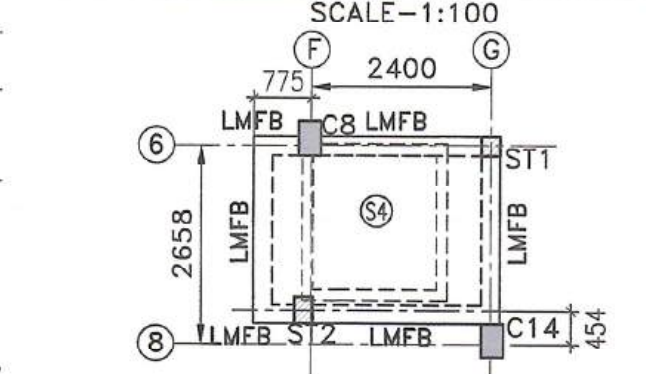
SCHEDULE OF COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING NEAR JUNCTION (10)	REST PORTION
C2,C3,C4,C5, C6,C7,C10, C11,C12,C13, C16,C17,C18, C20,C21,C22, C23,C24,C27	19 300X450		MAIN RNF.: 6-16 @ 44-12 @ 8 @ 75 C/C (3 NOS. CLOSED LINK)	8 @ 150 C/C (3 NOS. CLOSED LINK)
C8,C9,C14, C15,C19,C25, C26	07 300X450		MAIN RNF.: 4-20 @ 46-16 @ 8 @ 75 C/C (3 NOS. CLOSED LINK)	8 @ 150 C/C (3 NOS. CLOSED LINK)
C1	01 300X500		MAIN RNF.: 4-16 @ 46-12 @ 8 @ 75 C/C (3 NOS. CLOSED LINK)	8 @ 150 C/C (3 NOS. CLOSED LINK)



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



MUMTY ROOF BEAM AND SLAB
LAYOUT PLAN AT LEVEL
(+)17.800m.
S3 MARKED SLABS ARE 115mm. THICK.
SCALE-1:100

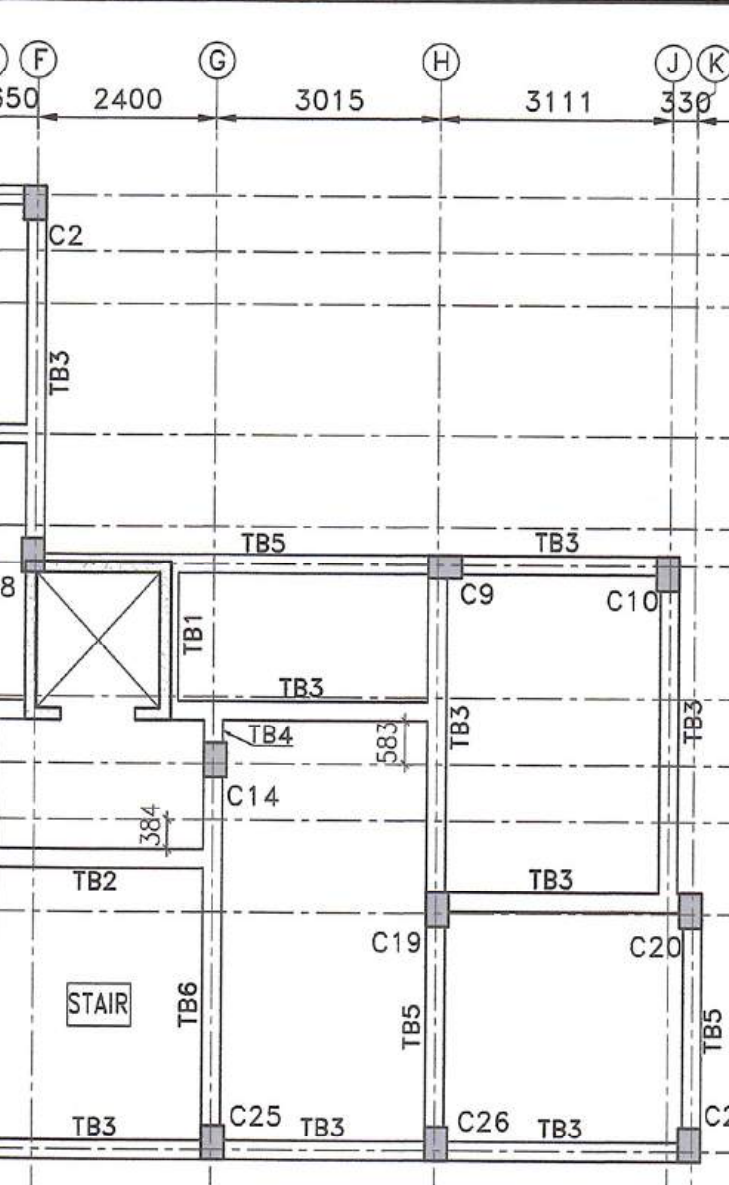


L.M.R FLOOR BEAM AND SLAB
LAYOUT PLAN AT LEVEL (+)17.150m.
S4 MARKED SLABS ARE 150mm. THICK.
SCALE-1:100

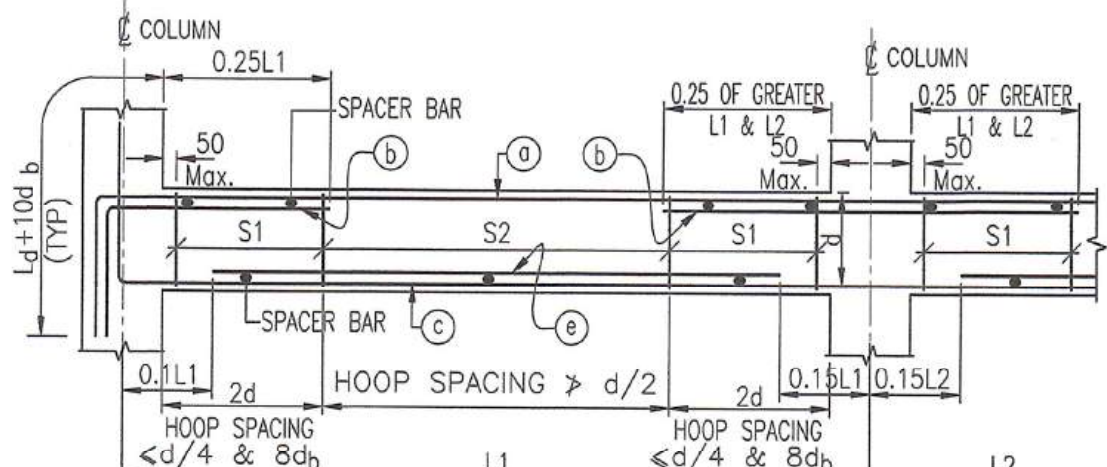
SCHEDULE OF TIE BEAMS						
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHOUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHOUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SPAN) (S2)
TB1	250 350	3-12	-	3-12	-	2L-8 @200 C/C
TB2	250 350	3-12	-	3-12	-	2L-8 @200 C/C
TB3	250 400	3-12	-	2-12 +1-16	-	2L-8 @200 C/C
TB4	250 400	2-12 +1-16	-	2-12 +1-16	-	2L-8 @200 C/C
TB5	250 400	3-12	2-12	2-12 +1-16	-	2L-8 @200 C/C
TB6	250 400	3-12	3-12	2-12 +1-16	-	2L-8 @200 C/C

SCHEDULE OF TYPICAL FLOOR BEAMS						
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHOUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHOUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SPAN) (S2)
FB1	250 400	3-12	-	3-12	-	2L-8 @200 C/C
FB2	250 400	3-12	-	3-12	-	2L-8 @200 C/C
FB3	250 450	2-12 +1-16	-	2-12 +1-16	-	2L-8 @200 C/C
FB4	250 450	2-12 +1-16	-	2-12 +1-16	-	2L-8 @200 C/C
FB5	250 450	2-12 +1-16	2-12	2-12 +1-16	-	2L-8 @200 C/C
FB6	250 450	2-12 +1-16	3-12	2-12 +1-16	-	2L-8 @200 C/C
FB7	250 450	2-12 +1-16	-	2-12 +1-16	-	2L-8 @200 C/C
HLB	250 450	3-16	-	3-16	-	2L-8 @200 C/C

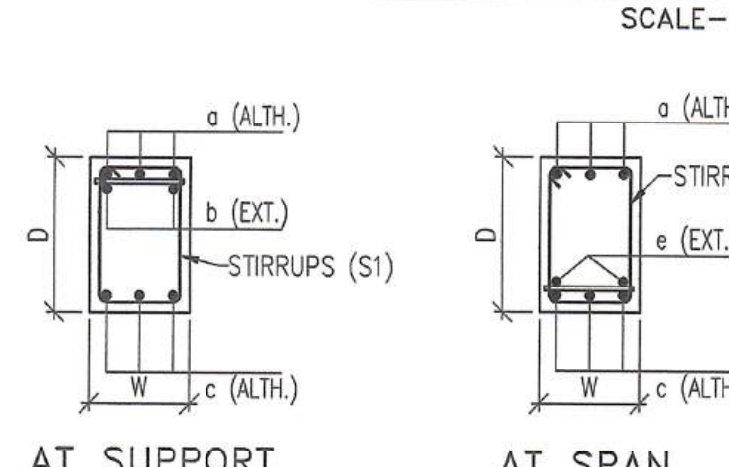
SCHEDULE OF STOOL COLUMNS			
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	STIRRUP ARRANGEMENT & SPACING
ST1 (ROOF TO L.M.R ROOF)	02	250x250	MAIN RNF.: 4-16 @ 8 @ 150 C/C (1 NO. CLOSED LINK)
ST3 (ROOF TO WATER TANK)	01	250x350	MAIN RNF.: 6-16 @ 8 @ 150 C/C (1 NO. OPEN LINK)



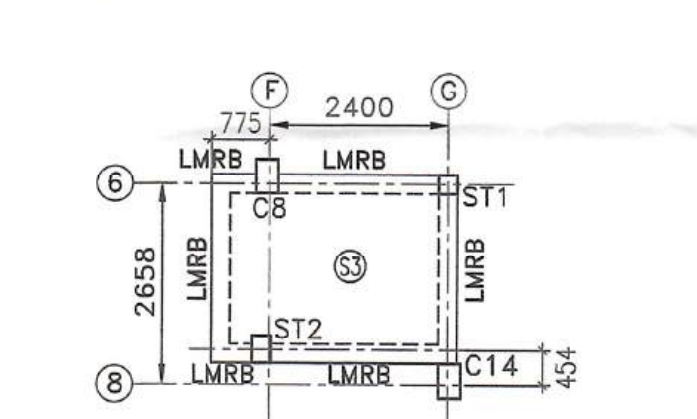
TYPICAL FLOOR BEAM AND SLAB LAYOUT
PLAN AT LEVELS (+)3.200m,
(+)6.250m, (+)9.300m, (+)12.350m.
S1 MARKED SLABS ARE 115mm. THICK.
S2 MARKED SLABS ARE 125mm. THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE-1:100



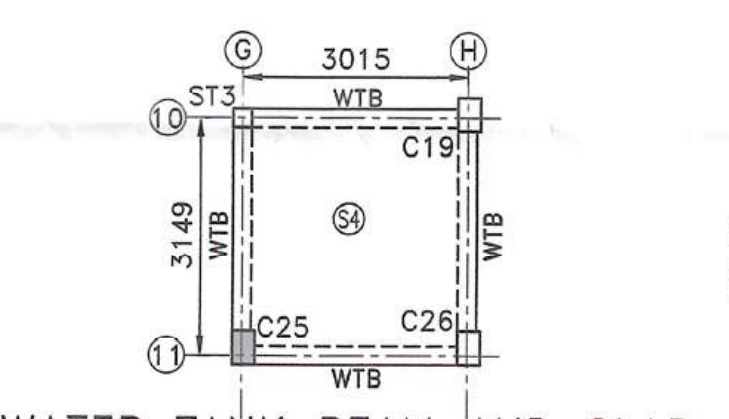
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE-N.T.S



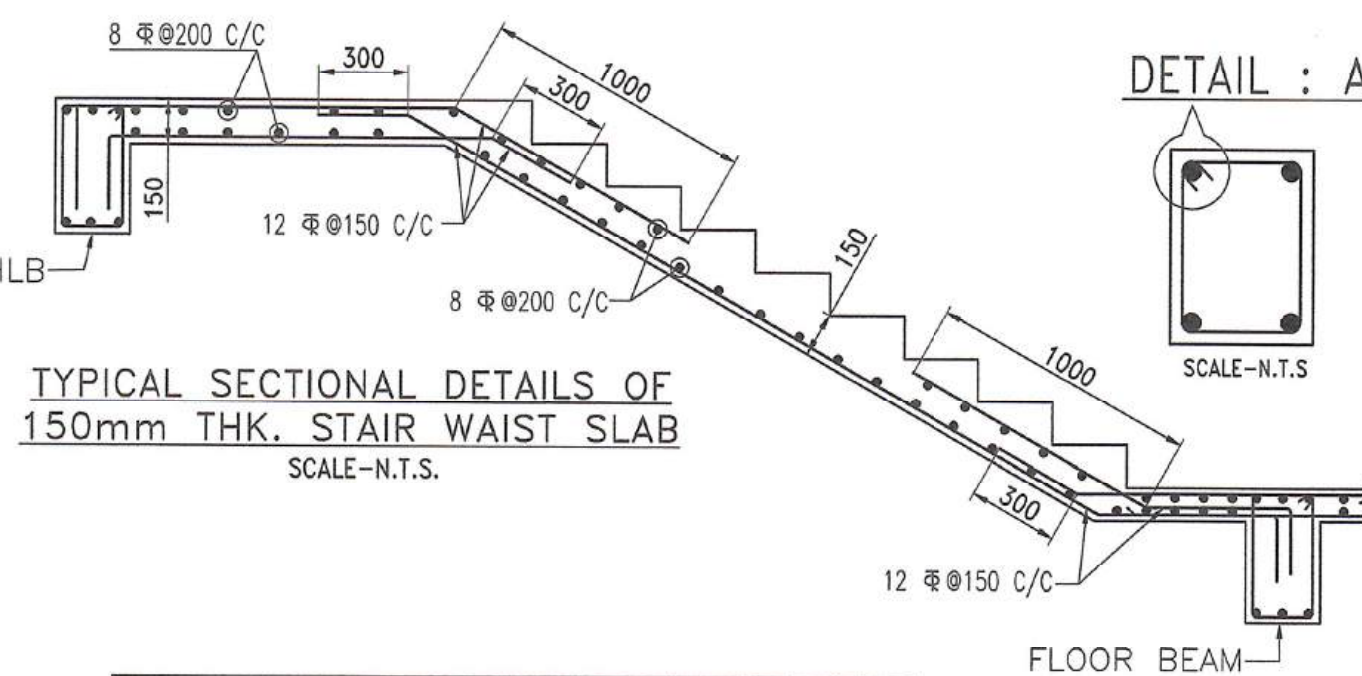
TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S



L.M.R ROOF BEAM AND SLAB
LAYOUT PLAN AT LEVEL
(+)19.550m.
S3 MARKED SLABS ARE 115mm. THICK.
SCALE-1:100



WATER TANK BEAM AND SLAB
LAYOUT PLAN AT LEVEL
(+)16.400m.
WATER TANK CAPACITY- 10,000 LIT.
S4 MARKED SLABS ARE 150mm. THICK.
SCALE-1:100



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

SCHEDULE OF ROOF BEAMS						
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHOUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHOUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SPAN) (S2)
RB1	250 400	3-12	-	3-12	-	2L-8 @200 C/C
RB2	250 400	3-12	-	3-12	-	2L-8 @200 C/C
RB3	250 450	3-12	-	3-12	-	2L-8 @200 C/C
RB4	250 450	3-12	2-12	3-12	-	2L-8 @200 C/C
RB5	250 450	3-12	3-12	3-12	-	2L-8 @200 C/C
RB6	250 450	2-12 +1-16	-	2-12 +1-16	-	2L-8 @200 C/C
HLB	250 450	3-16	-	3-16	-	2L-8 @200 C/C

TYPICAL DUCTILE DETAIL OF
BEAM COLUMN JUNCTION

L d = DEVELOPMENT LENGTH IN TENSION
d = DIAMETER OF LONGITUDINAL BAR
SCALE-N.T.S

- NOTES :
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT IS CODES OF PRACTICE.
 - ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE MENTIONED ONLY BE FOLLOWED. ALL LEVELS GIVEN IN ACCORDANCE WITH ARCHITECTURAL DRAWING.
 - ANY DISCREPANCY IN THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE CONSULTANT BEFORE EXECUTION OF WORK.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT 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 = 50x BAR DIA.
 - CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
 - COLUMNS : 40 mm
 - BEAMS : 30 mm
 - SLABS : 20 mm
 - 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 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
 - WHenever 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 UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE-
STRUCTURAL DRAWING OF PROPOSED G+4 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SMT. ARCHANA ACHARYEE, OVER PLOT NO.- 446, KHATIAN NO.- 2385 OF J.L. NO. - 056, MOUZA- KURURIA, P.S.- FARIDPUR, DIST.- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

Archana Acharyya

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134276

SIGNATURE OF GEO-TECHNICAL ENGINEER

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134276

SIGNATURE OF STRUCTURAL ENGINEER

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134276

SIGNATURE OF THE VETTING AUTHORITY

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
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CA/2021/134276

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STRUCTCON ENTERPRISE
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Email-structconenterprise@gmail.com
Ph.-8100483509
DRAWING TITLE
COLUMN & TIE BEAM LAYOUT PLAN, TYPICAL FLOOR, ROOF, ABOVE ROOF BEAM & SLAB LAYOUT PLAN WITH REINF. DETAILS. DETAILS OF STAIR.
SCALE-1:100 OR AS SHOWN
DATE.-15.07.2024
SHEET NO.- 2 OF 3
SHEET SIZE- A1