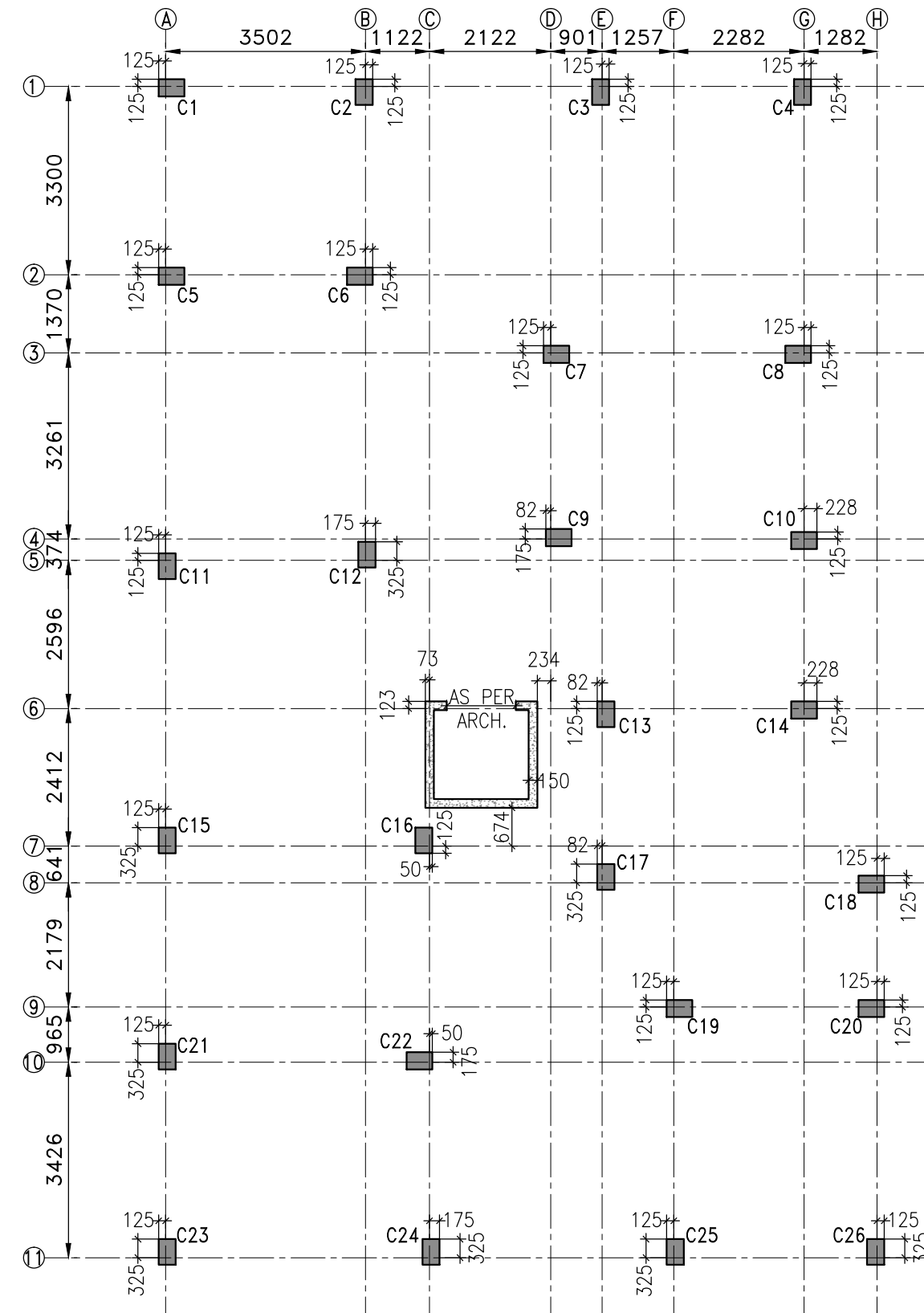
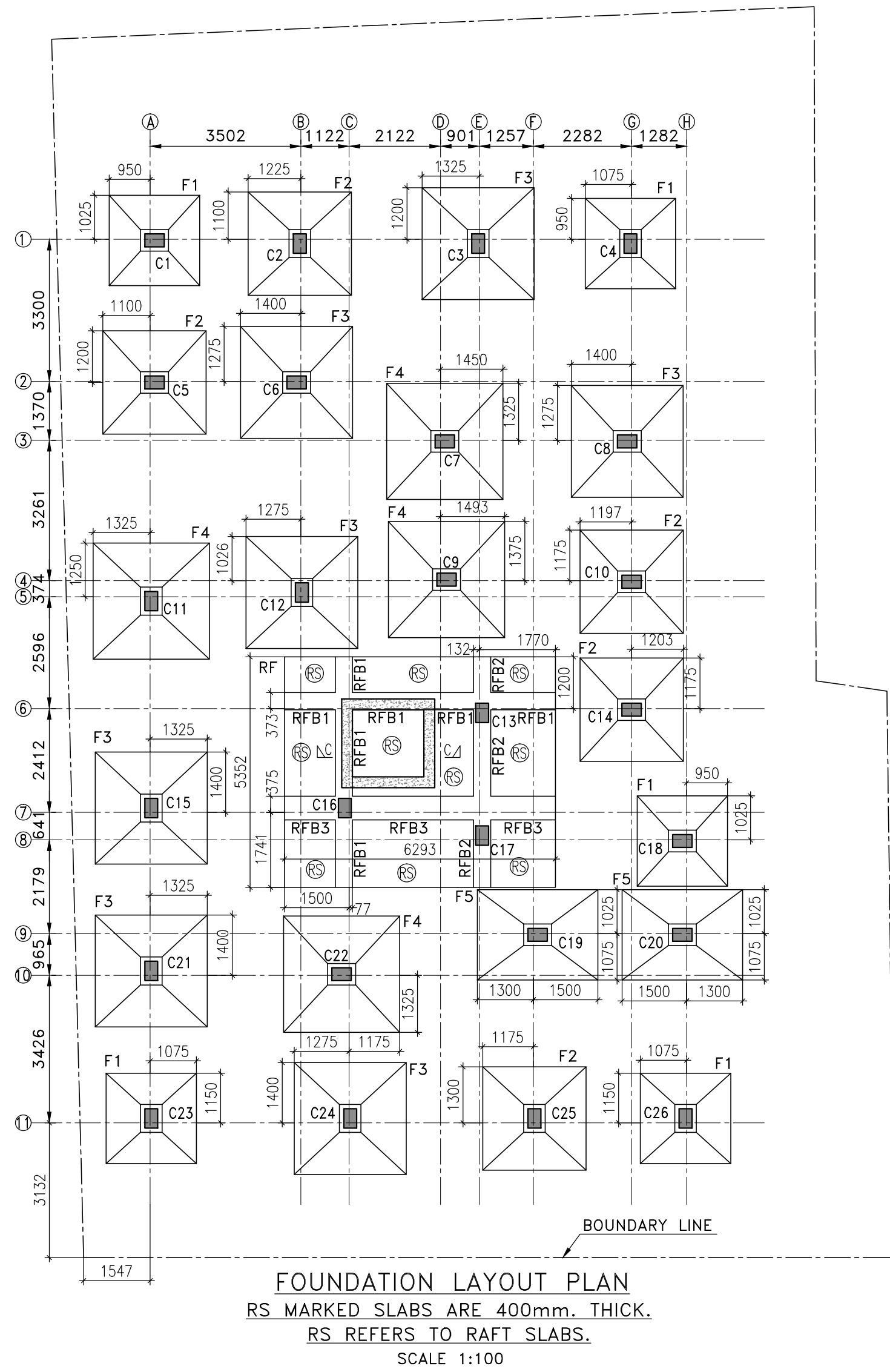




SCHEDULE OF STOOL COLUMNS				
COLUMN MARKED	NO.OF COLUMNS	COLUMN SIZE (mm x mm)	MAIN REINF. ARRANGEMENT	STIRRUP ARRANGEMENT & SPACING
ST1 (ROOF TO MUMTY)	02	250X250	MAIN RNF.: 4-16 Φ	8 Φ 150 C/C (1 NO. CLOSED LINK)
ST4 (ROOF TO WATER TANK)	02	250X250	MAIN RNF.: 4-16 Φ	8 Φ 150 C/C (2 NOS. CLOSED LINK)
ST2,ST3 (ROOF TO L.M.R ROOF)	02	250X250	MAIN RNF.: 4-16 Φ	8 Φ 150 C/C (2 NOS. CLOSED LINK)

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	FOUNDATION MARK	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	F1	2.10m. x 2.10m.	14.35
	F2	2.40m. x 2.40m.	14.13
	F3	2.60m. x 2.60m.	13.96
	F4	2.70m. x 2.70m.	13.87
	F5	2.80m. x 2.10m.	13.00
RAFT	RF	AS SHOWN	11.30

NOTE:-

THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

IMPORTANT NOTE:-

ANY LOOSE OR FILLED UP SOIL FOUND AT FOUNDATION BED MUST BE LIFTED OUT AND REPLACED BY PROPERLY COMPACTED FULL COARSE YELLOW RIVER SAND CUSHION OF 500mm. BASED ON SOIL REPORT.

SCHEDULE OF COLUMNS

COLUMN MARKED	NO.OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING	REST PORTION
C1,C2,C3,C4, C5,C6,C7,C8, C9,C10,C11, C12,C13,C14, C15,C16,C17, C18,C19,C20, C21,C22,C23, C24,C25,C26	26	300X450	MAIN RNF.: 4-16 Φ	8 Φ 75 C/C (3 NOS. CLOSED LINK)	8 Φ 150 C/C (3 NOS. CLOSED LINK)

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SCHEDULE OF RAFT SLAB

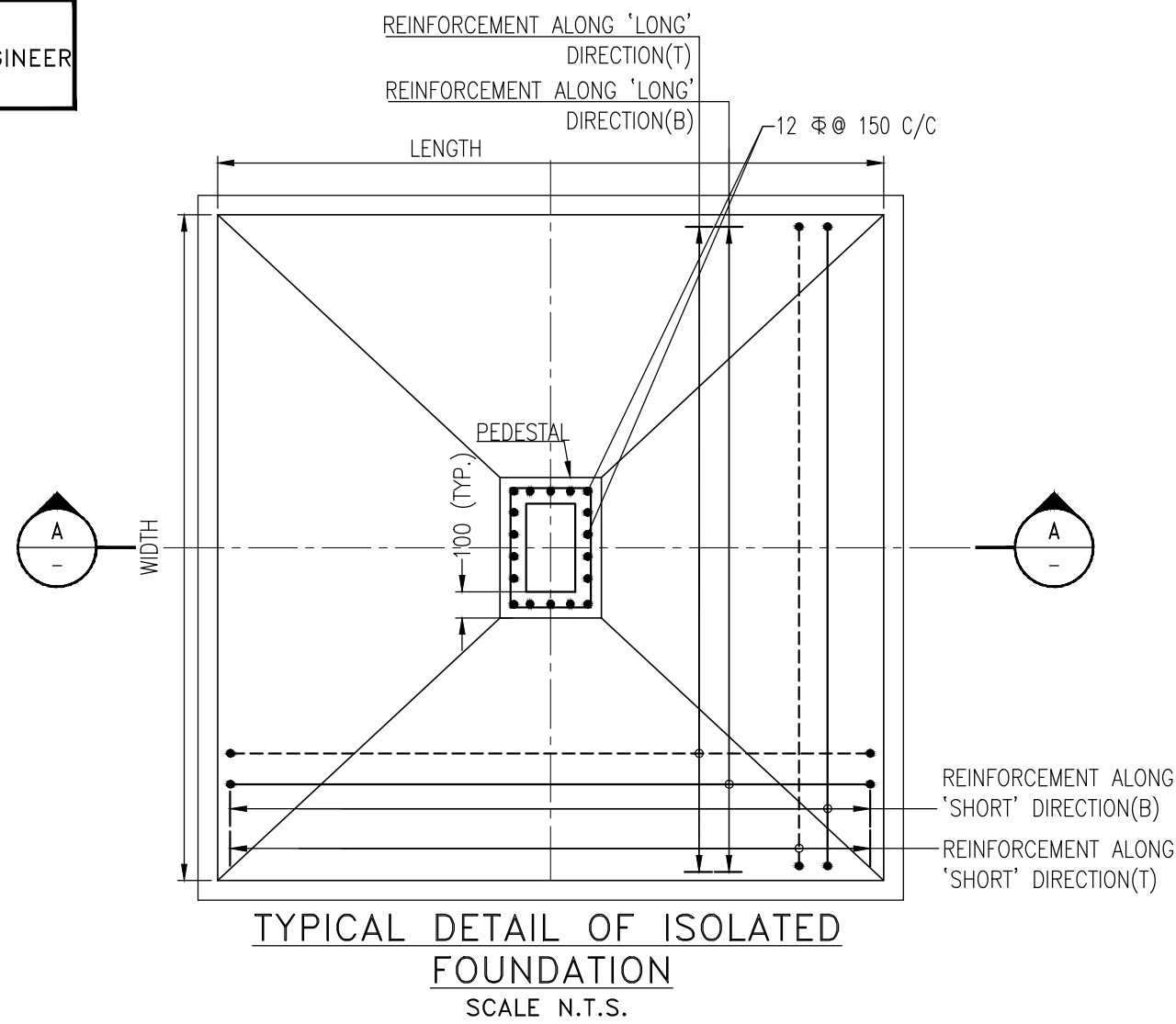
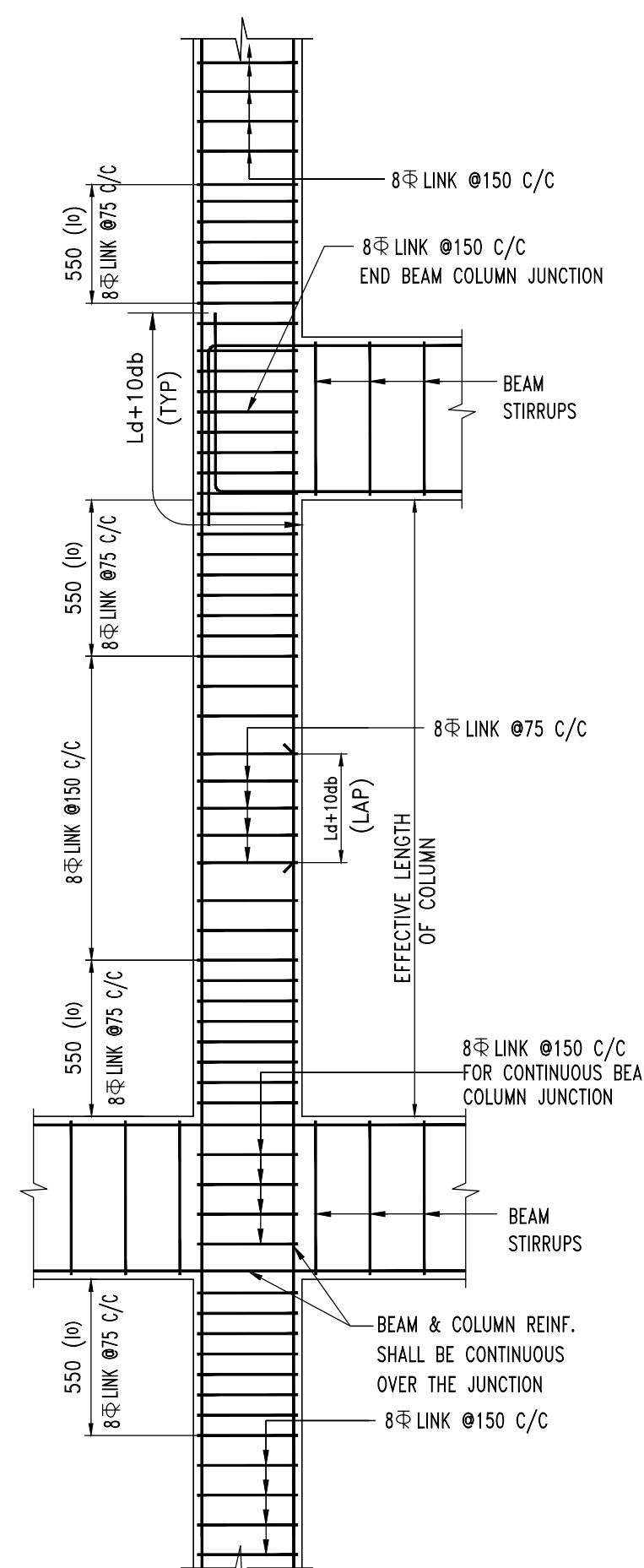
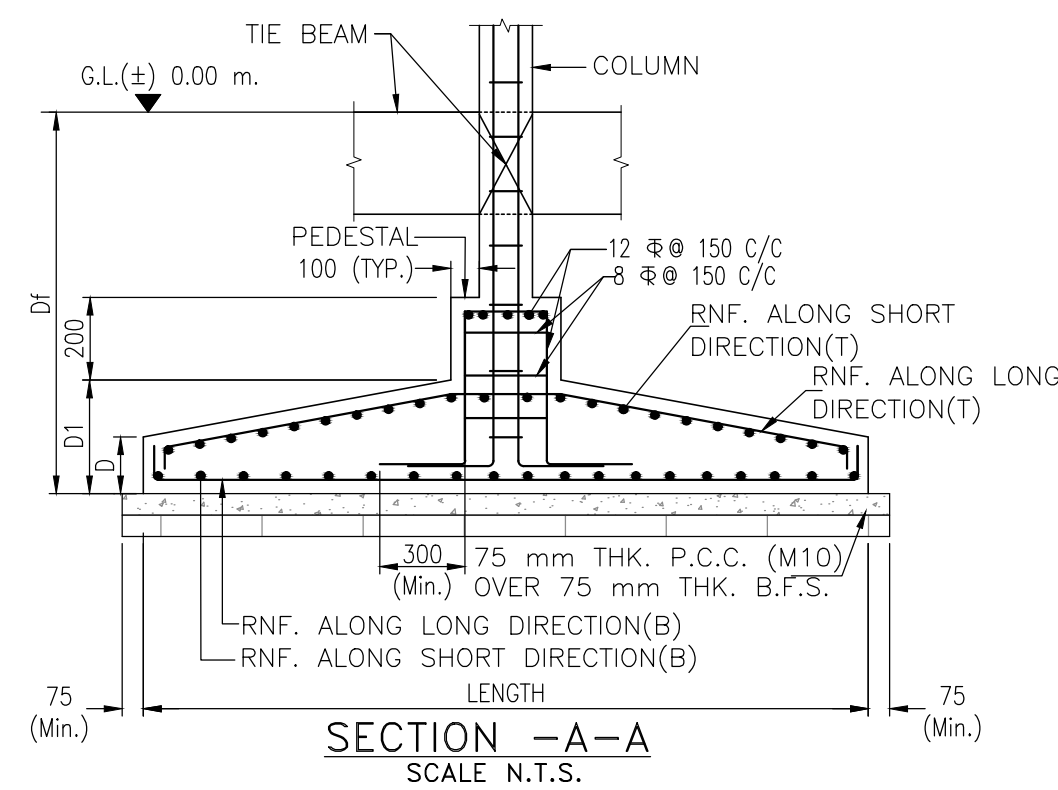
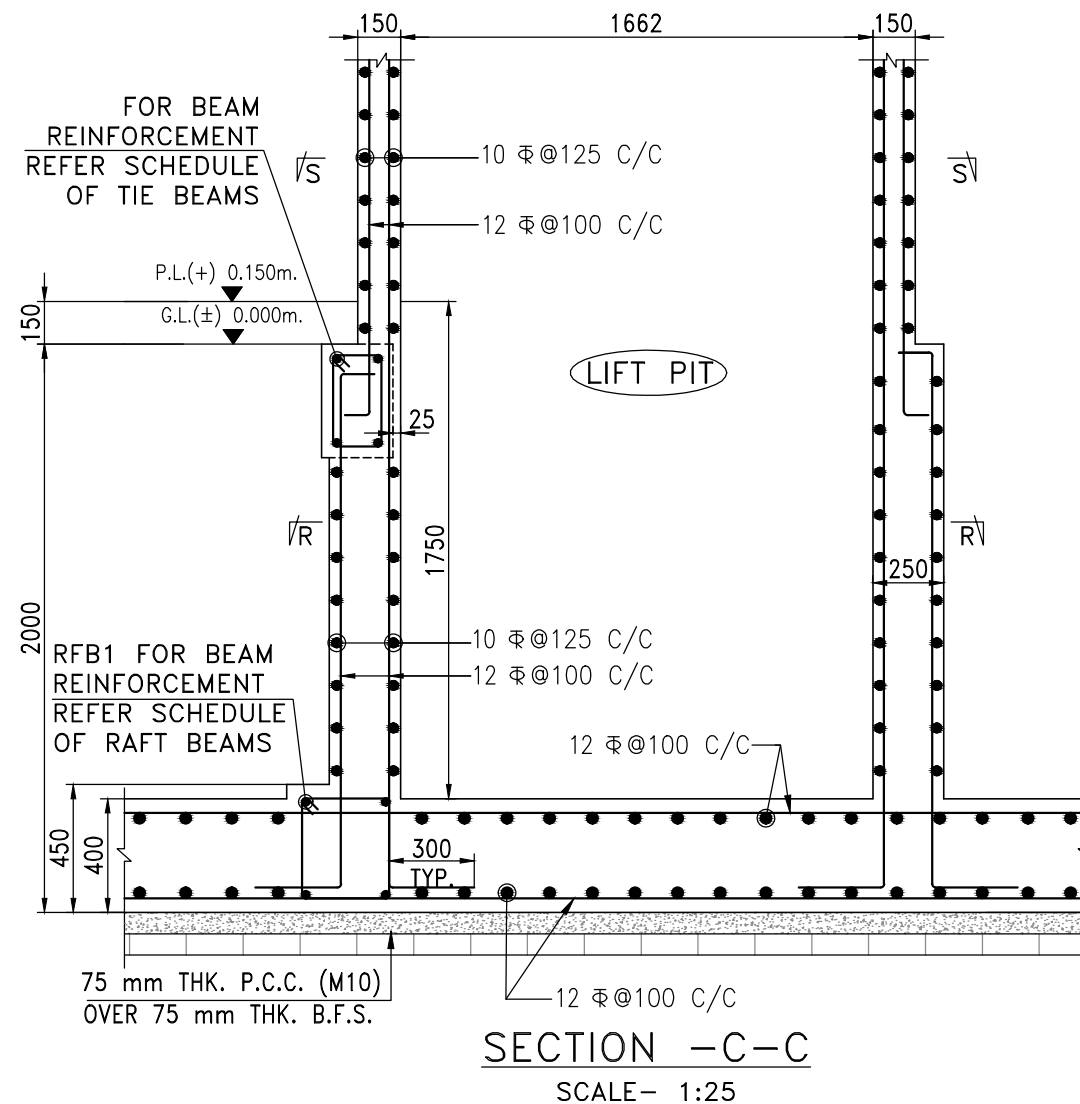
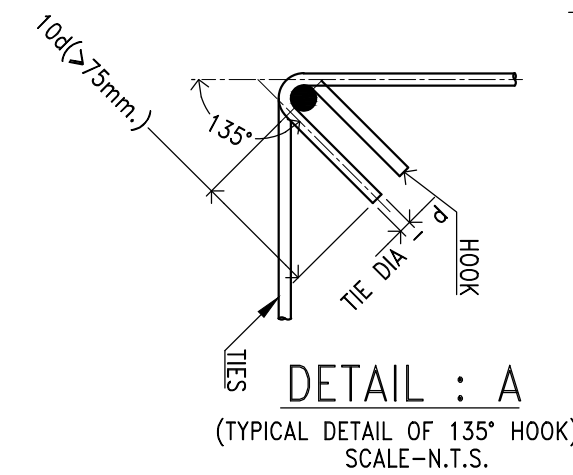
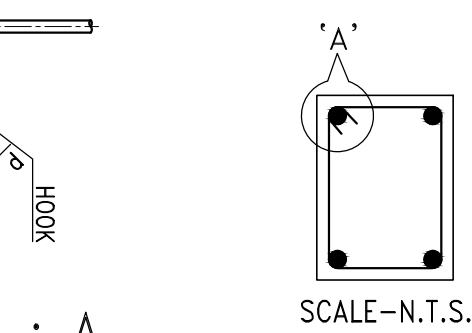
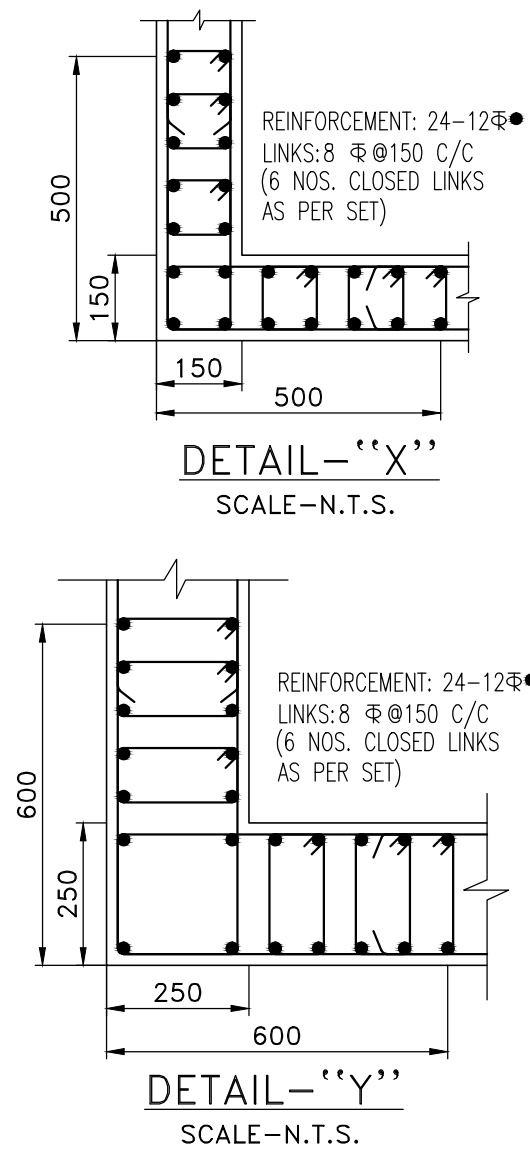
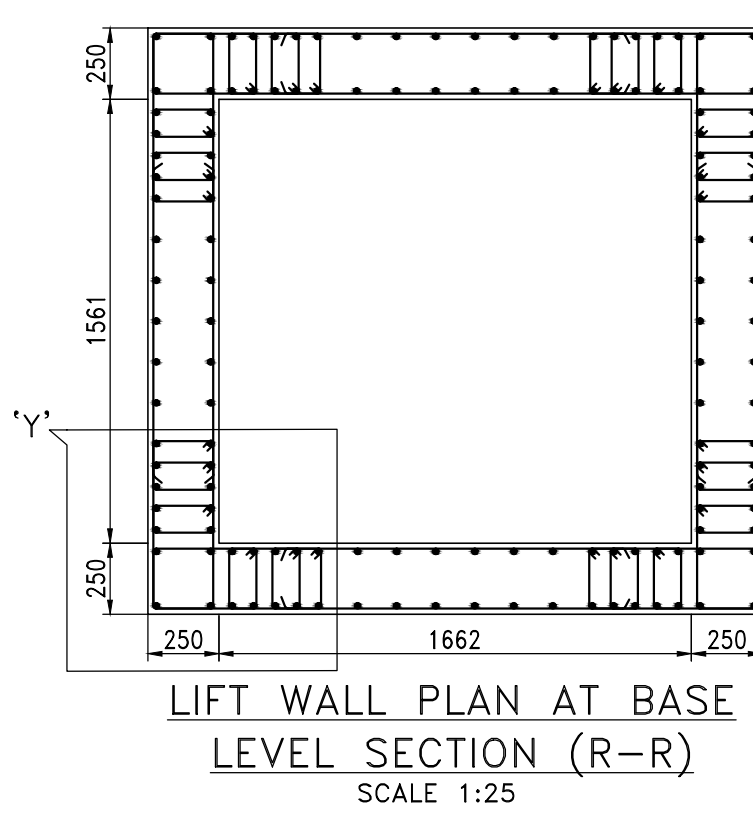
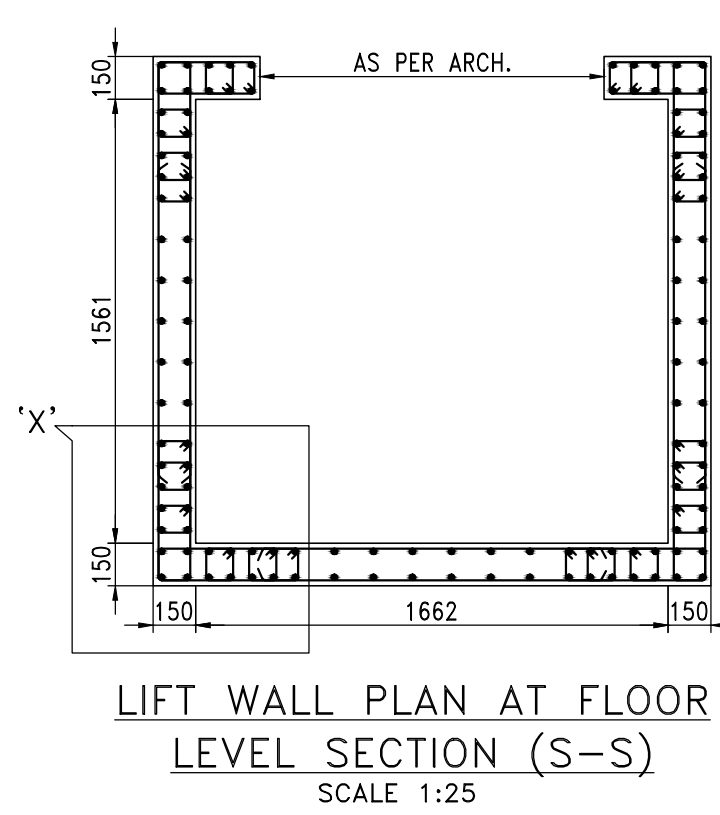
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG BOTH DIRECTION
RS	400	12 Φ 100 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
RFB1	400 x 450	4-16 Φ	4-16 Φ	4L-8 Φ 200 C/C
RFB2	400 x 450	4-16 Φ	4-16 Φ	4L-8 Φ 100 C/C
RFB3	550 x 450	5-16 Φ	5-16 Φ	4L-8 Φ 150 C/C

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS			
			WIDTH (m)	LENGTH (m)	THICKNESS D1 (mm)	DEPTH Df (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION
C1,C4,C18,C23,C26	F1	05	2.10	2.10	450	300	2000	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C
C2,C5,C10,C14,C25	F2	05	2.40	2.40	500	350	2000	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C
C3,C6,C8,C12,C15,C21,C24	F3	07	2.60	2.60	600	350	2000	12 Φ 125 C/C	12 Φ 125 C/C	8 Φ 300 C/C
C7,C9,C11,C22	F4	04	2.70	2.70	600	350	2000	12 Φ 125 C/C	12 Φ 125 C/C	8 Φ 300 C/C
C19,C20	F5	02	2.10	2.80	550	350	2000	12 Φ 150 C/C	12 Φ 100 C/C	8 Φ 300 C/C



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 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50x 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 |
| v) ISOLATED FOUNDATION | : 50 mm |
| vi) RAFT BEAM & SLAB | : 50 mm |
 - GRADE OF CONCRETE FOR SUBSTRUCTURE & SUPERSTRUCTURE WILL BE OF M25 AS PER IS: 456:2000
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 - DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
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 - 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.
 - THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATE FOOTINGS AT DEPTH (-)2.00m. FROM G.L. IN TUNE WITH AS PER SOIL REPORT PREPARED BY SS ASSOCIATES (SUSANTA SAHA).
 - THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
 - THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1893(PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE:-
STRUCTURAL DRAWING OF PROPOSED G+4 STORIED RESIDENTIAL(APARTMENT) BUILDING OF LAND OWNER - VIJAY AGARWAL, KAVITA AGARWAL, & SUJATA MUKHERJEE OVER R.S. PLOT NO.- 1633, L.R. PLOT NO.- 2936, L.R. KHATIAN NO.- 10603,10637,10605, J.L. NO.- 85, MOUZA-GOPINATHPUR, P.S-COKE OVEN, DIST.- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

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

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

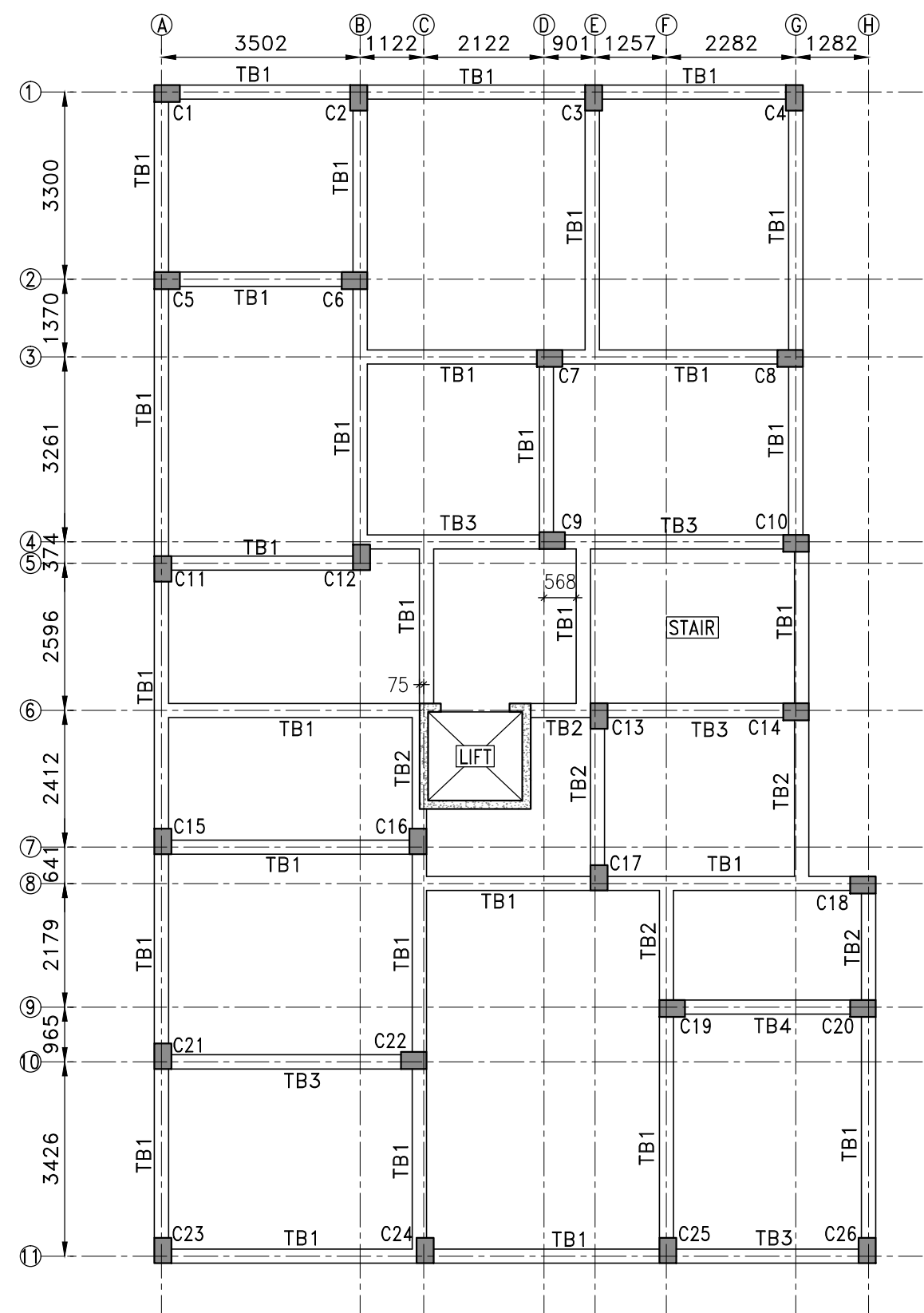
SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT

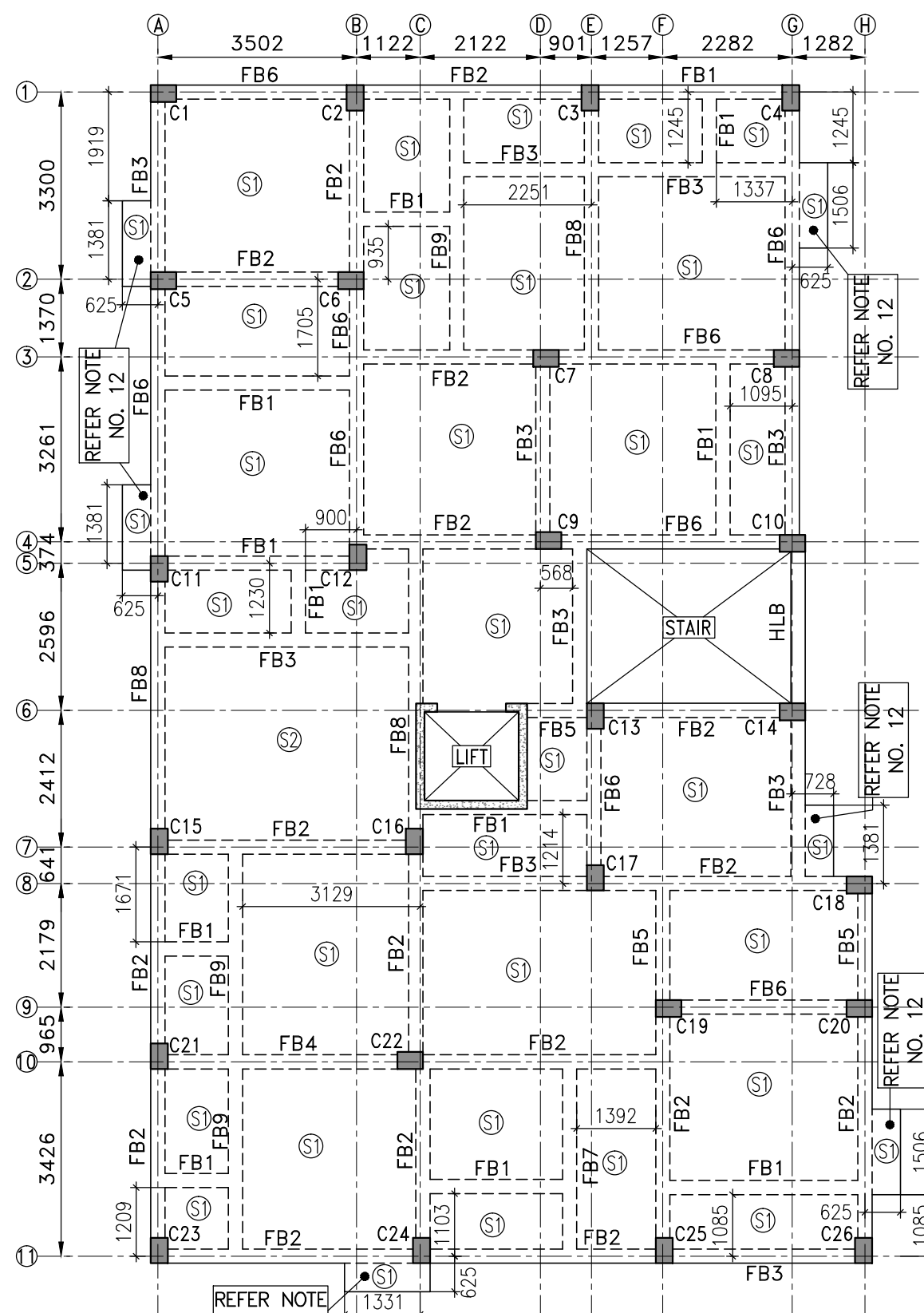
Structcon
STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
96B, KALIKAPUR ROAD,
KOLKATA- 700 099
Email-structconenterprise@gmail.
Ph.-8100483509

DRAWING TITLE
COLUMN & FOUNDATION LAYOUT PLAN WITH REINF. DE
SCALE:-1:100 OR AS SHOWN
DATE:-30.07.2025
SHEET NO.-1 OF 3

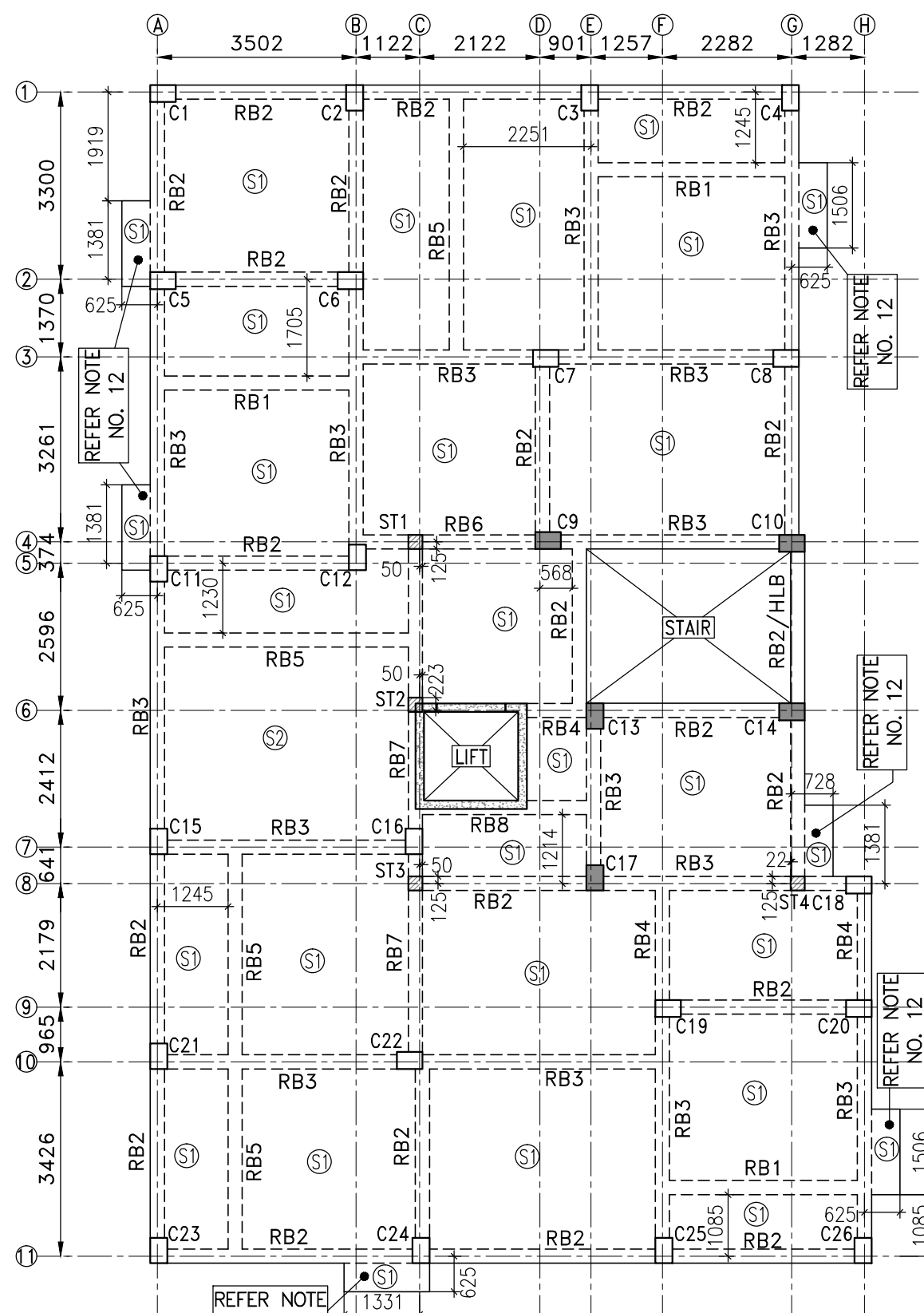
SHEET SIZE- A1



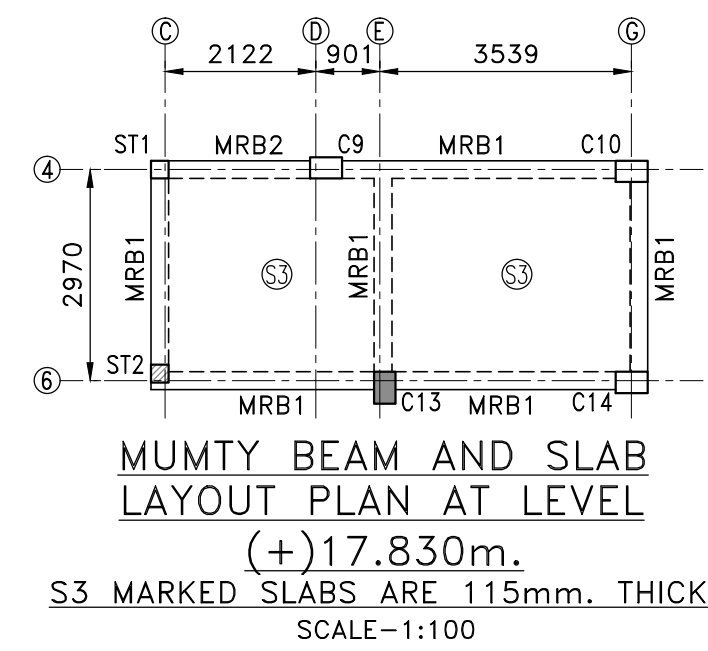
TIE BEAM LAYOUT PLAN
AT LEVEL (±)0.000m.
SCALE-1:100



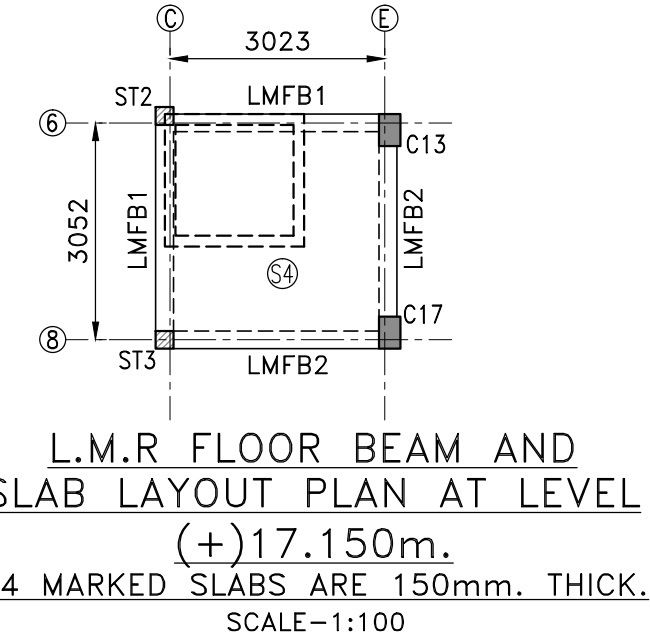
TYPICAL FLOOR BEAM AND SLAB
LAYOUT PLAN AT LEVELS (+)3.200m,
(+)6.250m, (+)9.300m, (+)12.350m.
S1 MARKED SLABS ARE 115mm. THICK.
S2 MARKED SLABS ARE 125mm. THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE-1:100



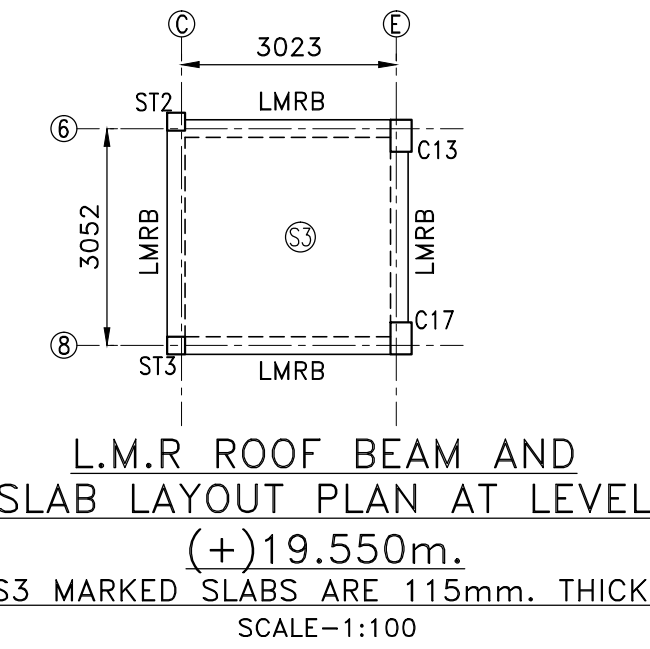
ROOF BEAM AND SLAB LAYOUT
PLAN AT LEVEL (+)15.400m.
S1 MARKED SLABS ARE 115mm. THICK.
S2 MARKED SLABS ARE 125mm. THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE-1:100



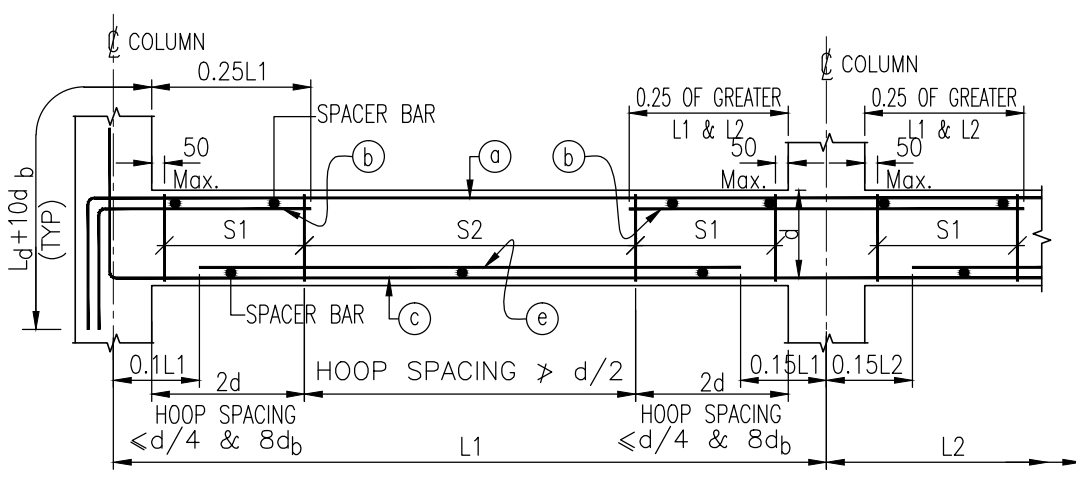
MUMTY BEAM AND SLAB
LAYOUT PLAN AT LEVEL
(+)17.830m.
S3 MARKED SLABS ARE 115mm. THICK.
SCALE-1:100



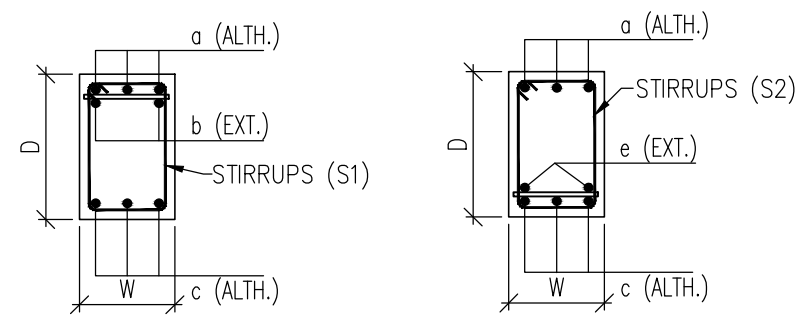
L.M.R FLOOR BEAM AND
SLAB LAYOUT PLAN AT LEVEL
(+)17.150m.
S4 MARKED SLABS ARE 150mm. THICK.
SCALE-1:100



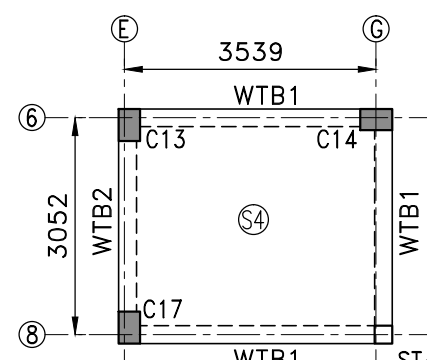
L.M.R ROOF BEAM AND
SLAB LAYOUT PLAN AT LEVEL
(+)19.550m.
S3 MARKED SLABS ARE 115mm. THICK.
SCALE-1:100



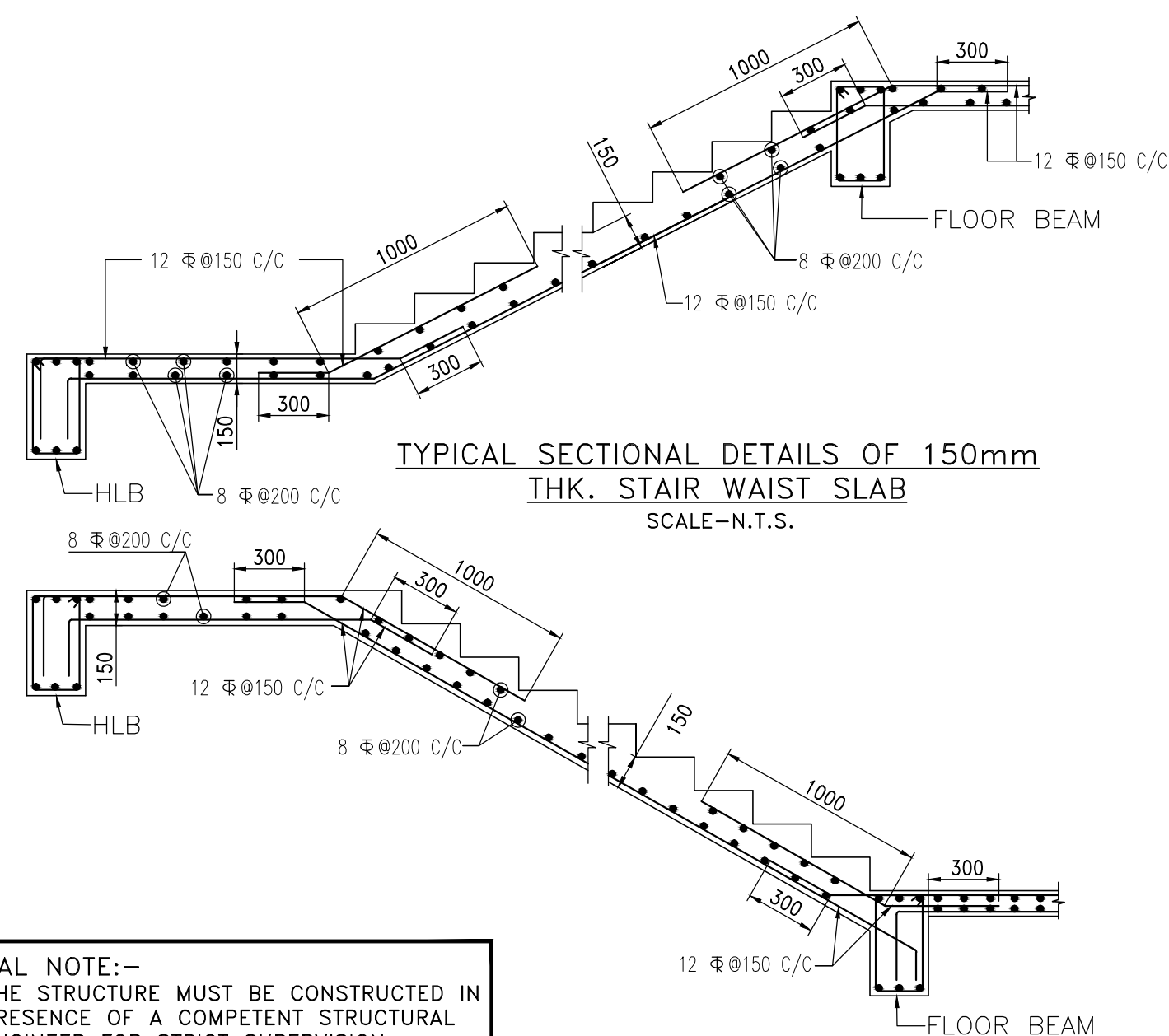
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE-N.T.S.



AT SUPPORT AT SPAN
TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S.



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



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SIGNATURE OF OWNERS

SIGNATURE OF ARCHITECT

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

SIGNATURE OF PANCHAYAT PRADHAN

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY
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968, KALIKAPUR ROAD,
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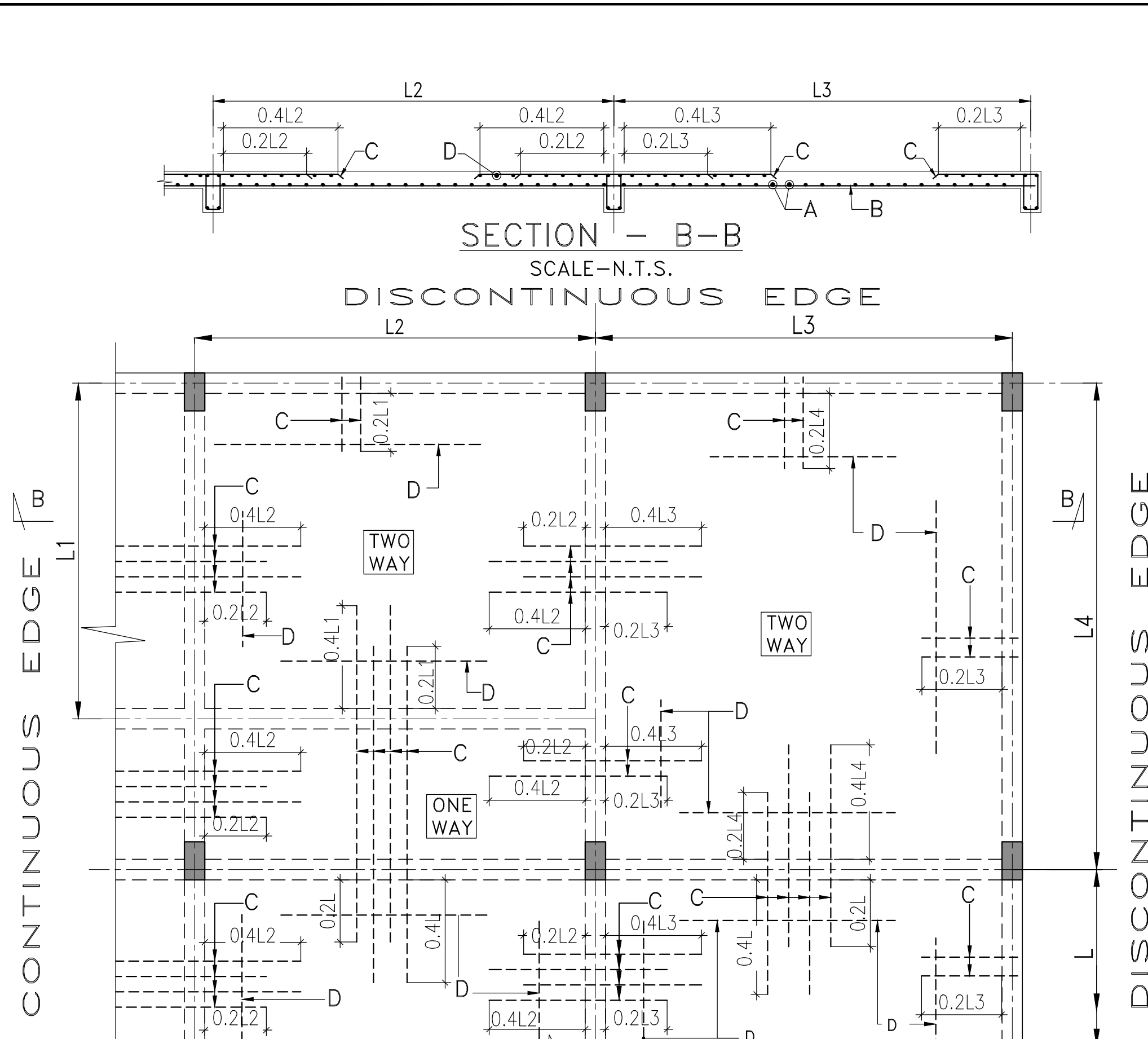
DRAWING TITLE

TIE BEAM LAYOUT PLAN WITH REINF. DETAILS, TYPICAL
ABOVE ROOF BEAM & SLAB LAYOUT PLAN WITH REINF.
DETAILS OF STAIR.

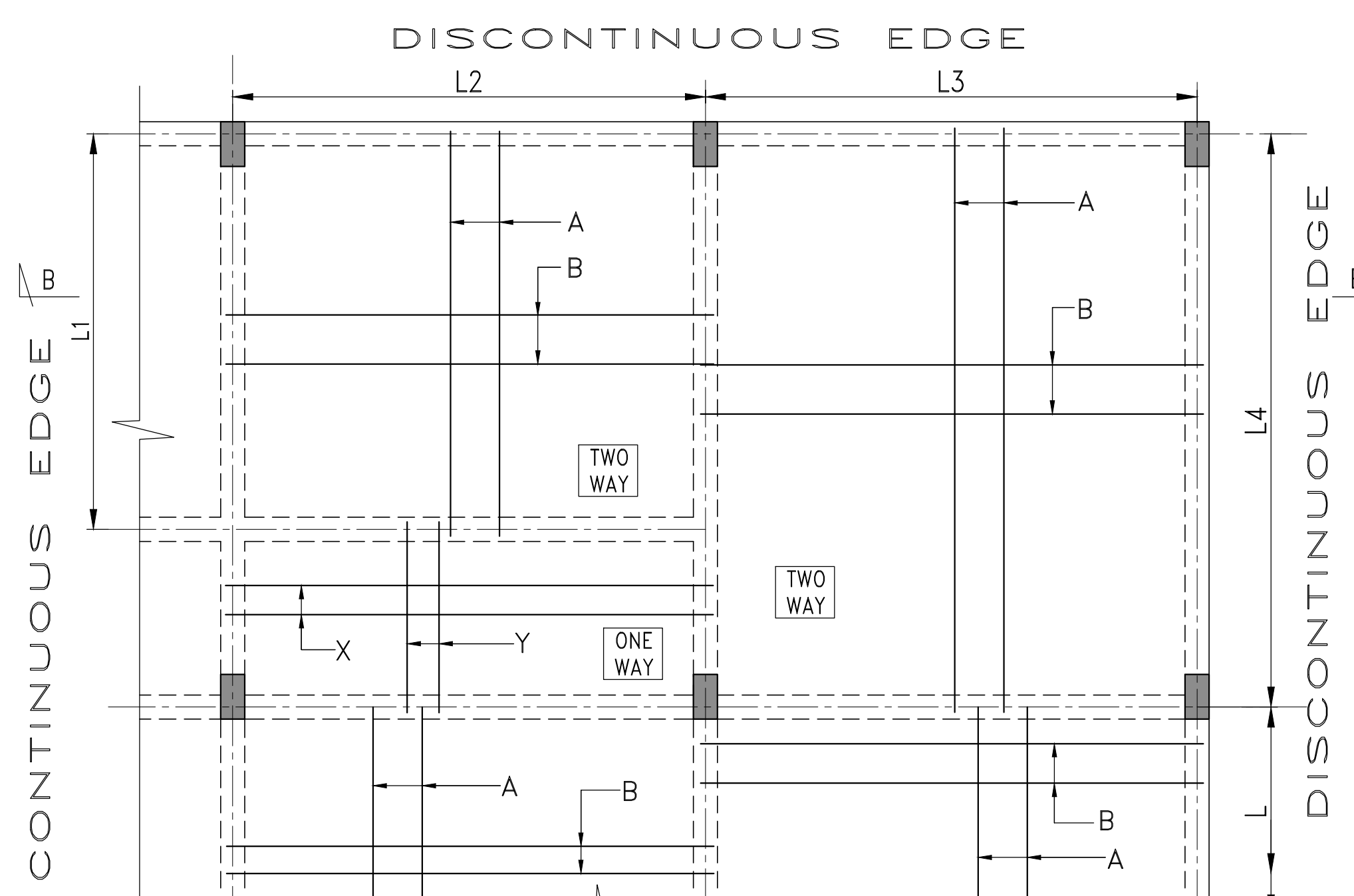
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SHEET NO.- 2 OF 3

SHEET SIZE- A1

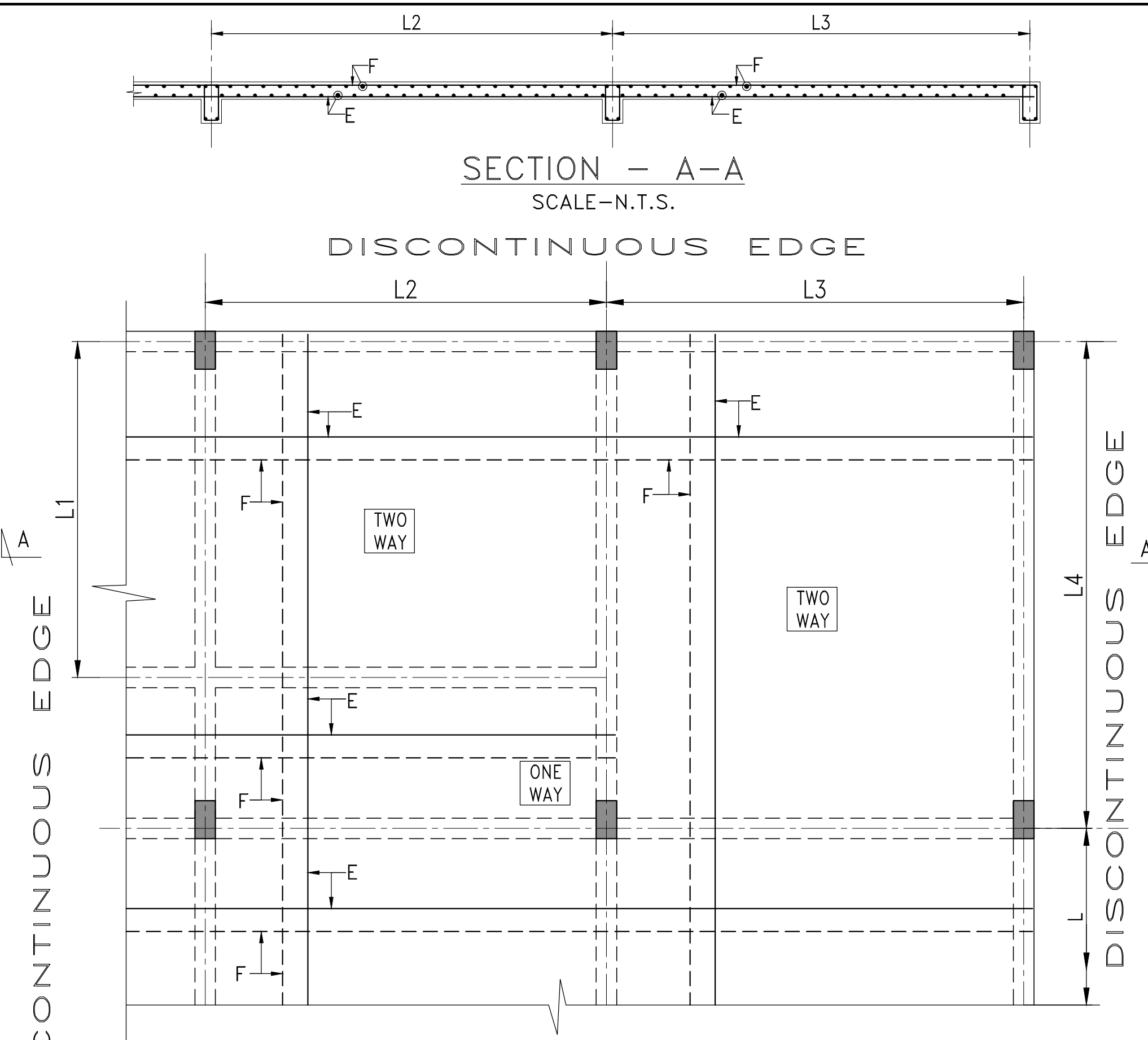




TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(SLAB MARKED S1 & S2)
SCALE-N.T.S.



TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(SLAB MARKED S1 & S2)
SCALE - N.T.S.



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)
(SLAB MARKED S3 & S4)
SCALE-N.T.S.

SCHEDULE OF S1 & S2 MARKED SLABS (TYPICAL FLOOR & ROOF SLABS THICKNESS-115mm & 125mm.)		
BAR MKD.	REINFORCEMENT	POSITION
A	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
B	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
X	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
C	8ø @ 150mm C/C (CURTAILMENT)	TOP
D(BINDER)	8ø @ 200 mm C/C (WHEREVER REQUIRED)	TOP

SCHEDULE OF S4 MARKED SLABS(WATER TANK & L.M.R FLOOR SLAB THICKNESS-150mm.)		
BAR MKD.	REINFORCEMENT	POSITION
E	10T @ 200 mm C/C (ALL THROUGH)	BOT.
F	10T @ 200 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF S3 MARKED SLABS(MUMTY & L.M.R ROOF SLAB THICKNESS-115mm.)		
BAR MKD.	REINFORCEMENT	POSITION
E	8T @ 150 mm C/C (ALL THROUGH)	BOT.
F	8T @ 150 mm C/C (ALL THROUGH)	TOP

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SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

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CA/2021/134276

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Ph.-8100483509

DRAWING TITLE

DETAILS OF SLAB.

SCALE.-1:100 OR AS SHOWN

DATE.- 30.07.2025

SHEET NO.- 3 OF 3

SHEET SIZE- A2

