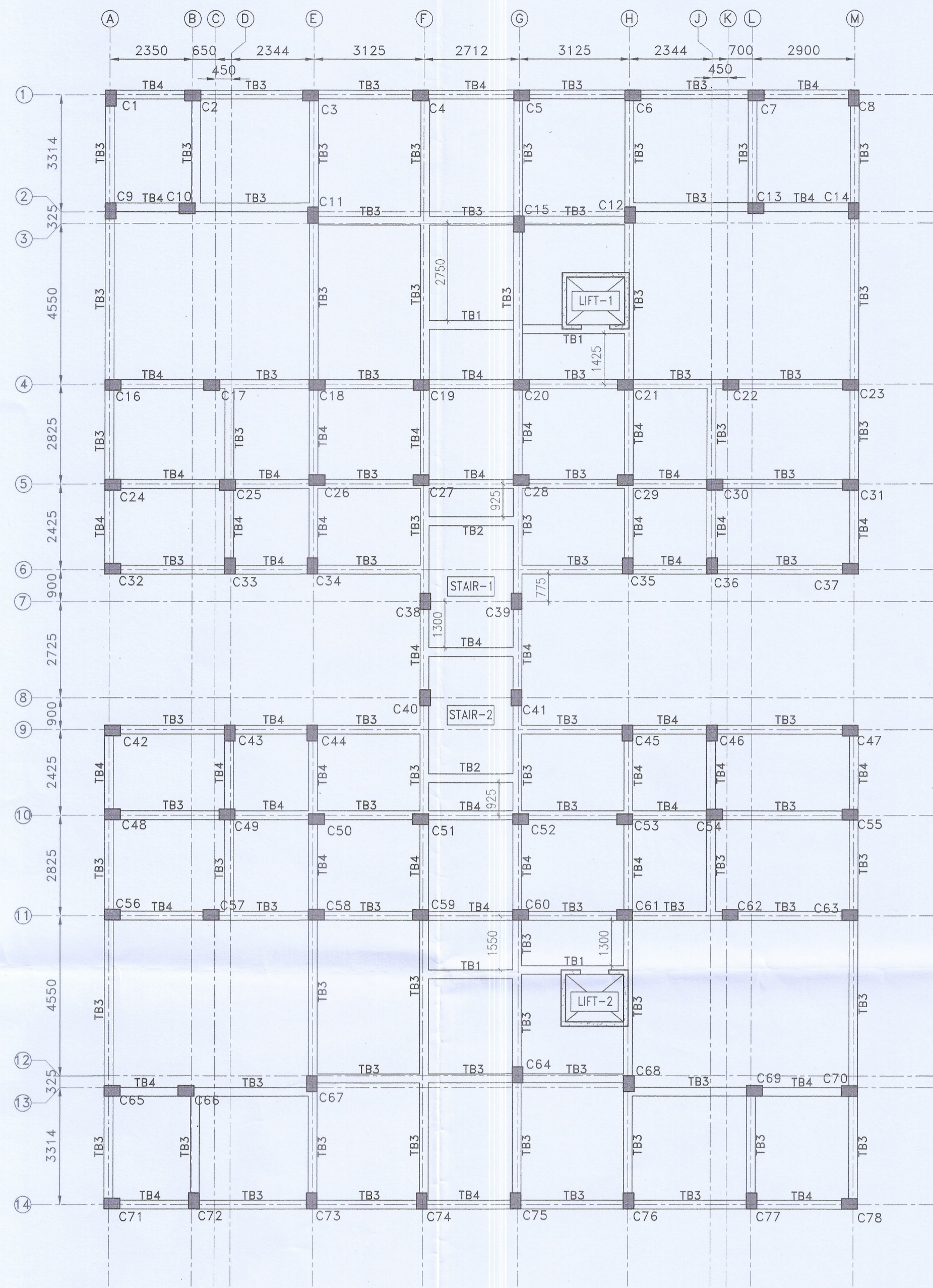


COLUMN LAYOUT PLAN
SCALE 1:100



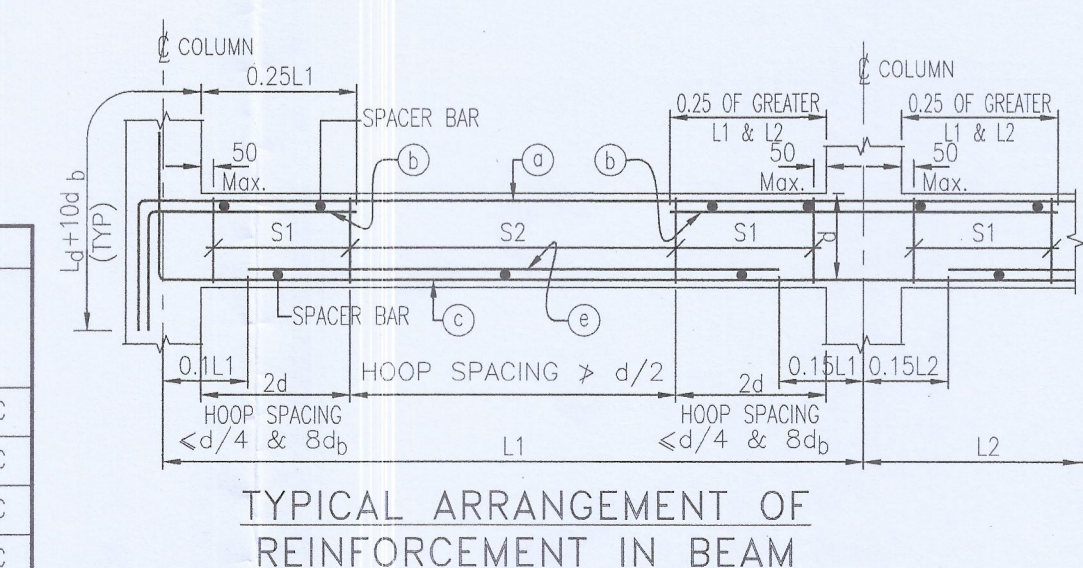
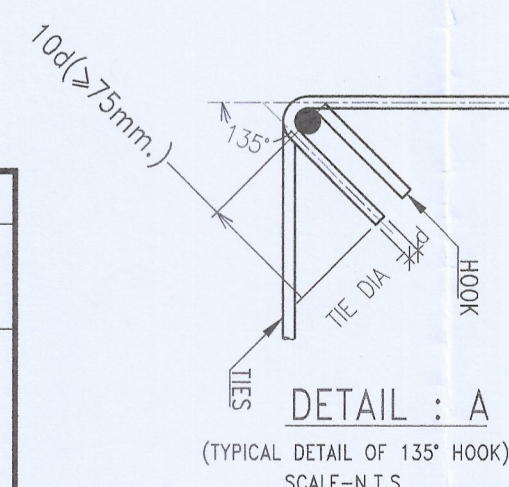
TIE BEAM LAYOUT PLAN
AT LEVEL ±0.00m.
SCALE-1:100

SPECIAL NOTES:-
1. 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.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

SCHEDULE OF COLUMNS				
COLUMN MARKED	NOS.OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING NEAR JUNCTION (a) REST PORTION
C8, C14, C20, C21, C27, C28, C47, C51, C52, C55, C60, C61	12	300x450	 MAIN RNF.:- 4-20 Φ +16-16 Φ	 8 Φ @ 75 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C1, C2, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13, C15, C16, C17, C18, C19, C22, C23, C24, C25, C26, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C48, C49, C50, C53, C54, C56, C57, C58, C59, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78	66	300x450	 MAIN RNF.:- 8-16 Φ +12-12 Φ	 8 Φ @ 75 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)

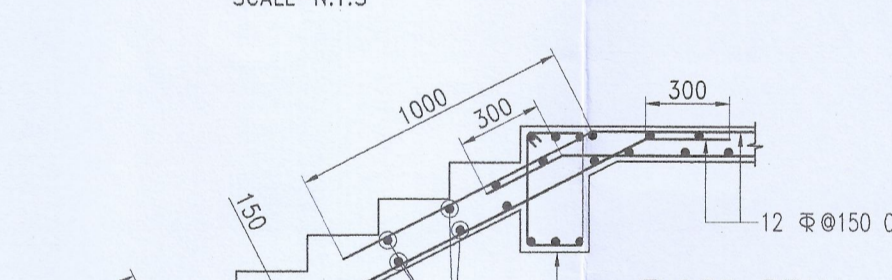
SCHEDULE OF STOOL COLUMNS				
COLUMN MARKED	NOS.OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1, ST2 (ROOF TO WATER TANK-1)	10	250x250	 MAIN RNF.:- 4-16 Φ	 8 Φ @ 150 C/C (1 NO. CLOSED LINK)
ST3, ST4 (ROOF TO L.M.R. ROOF-1)				
ST5, ST6 (ROOF TO MUMNY ROOF)				
ST7, ST8 (ROOF TO WATER TANK-2)				
ST9, ST10 (ROOF TO L.M.R. ROOF-2)				

SCHEDULE OF TIE BEAMS						
BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SPAN) (S2)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	
TB1	250 350	3-12 Φ	-	3-12 Φ	-	2L-8 Φ @ 100 C/C
TB2	250 350	3-12 Φ	-	3-12 Φ	-	2L-8 Φ @ 100 C/C
TB3	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ @ 100 C/C
TB4	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ @ 100 C/C

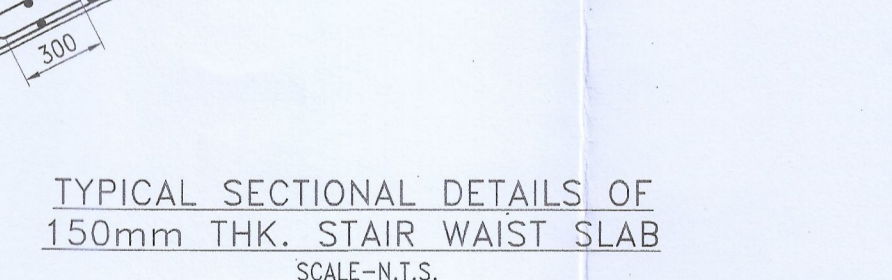


TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION

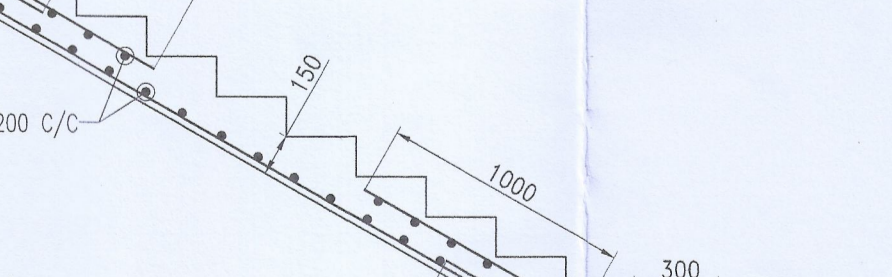
L_d = DEVELOPMENT LENGTH IN TENSION
d = DIAMETER OF LONGITUDINAL BAR
SCALE-N.T.S.



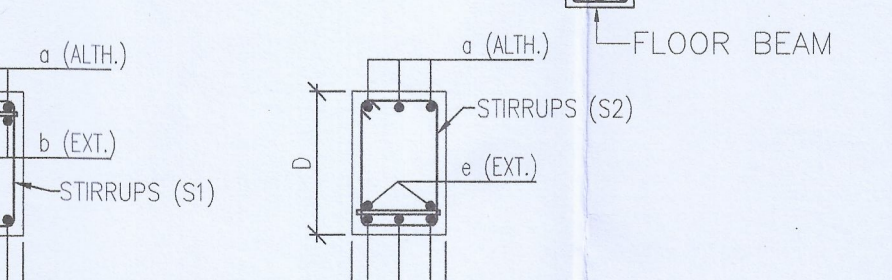
TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB
SCALE-N.T.S.



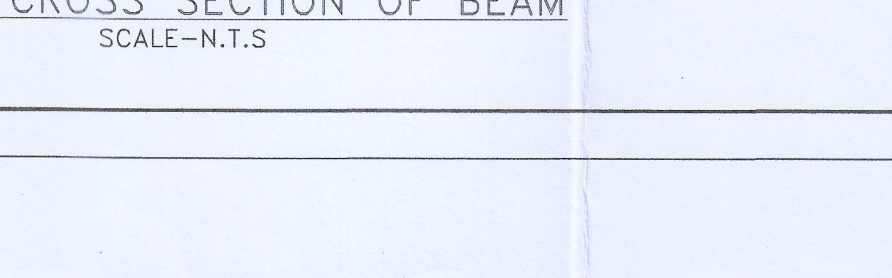
TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S.



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



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



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

- 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 = 50xBAR DIA.
 - CONCRETE CLEAR COVER 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 50xD 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 UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE - (BLOCK-A&B)

STRUCTURAL DRAWING OF PROPOSED G+IV 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
Riku Chandra barty (Raj) Partner
GITANJALI ENTERPRISE
Aho Das Partner
GITANJALI ENTERPRISE
Sanket Kalyan alim Sanket Jha Partner

SIGNATURE OF ARCHITECT

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.TECH (CIVIL) - WBUTU
M.E (CONSTRUCTION) - IIT
ESE-1/RJPSO/130
ESE-11/RMC/664
SP/EN/INDIA/23/00010
COVER/INDIA/10/00175
(M)-8697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

DR. DIPANKAR CHAKRABORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
KALIKAPUR UNIVERSITY
B.E. (UJ) Grad. Module, U Tech (RGPSC) Dist. Module, Ph.D. (IIT KGP)
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STRUCTURAL CONSULTANT:

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Email:-structonenterprise@gmail.com
Ph.-9007714478, 7003201735

DRAWING TITLE

COLUMN LAYOUT, TIE BEAM & SLAB LAYOUT PLAN WITH REINF. DETAILS, DETAILS OF STAIR.

SCALE:-1:100 OR AS SHOWN

DATE:-07.06.2024

SHEET NO.-2 OF 4

SHEET SIZE - A1