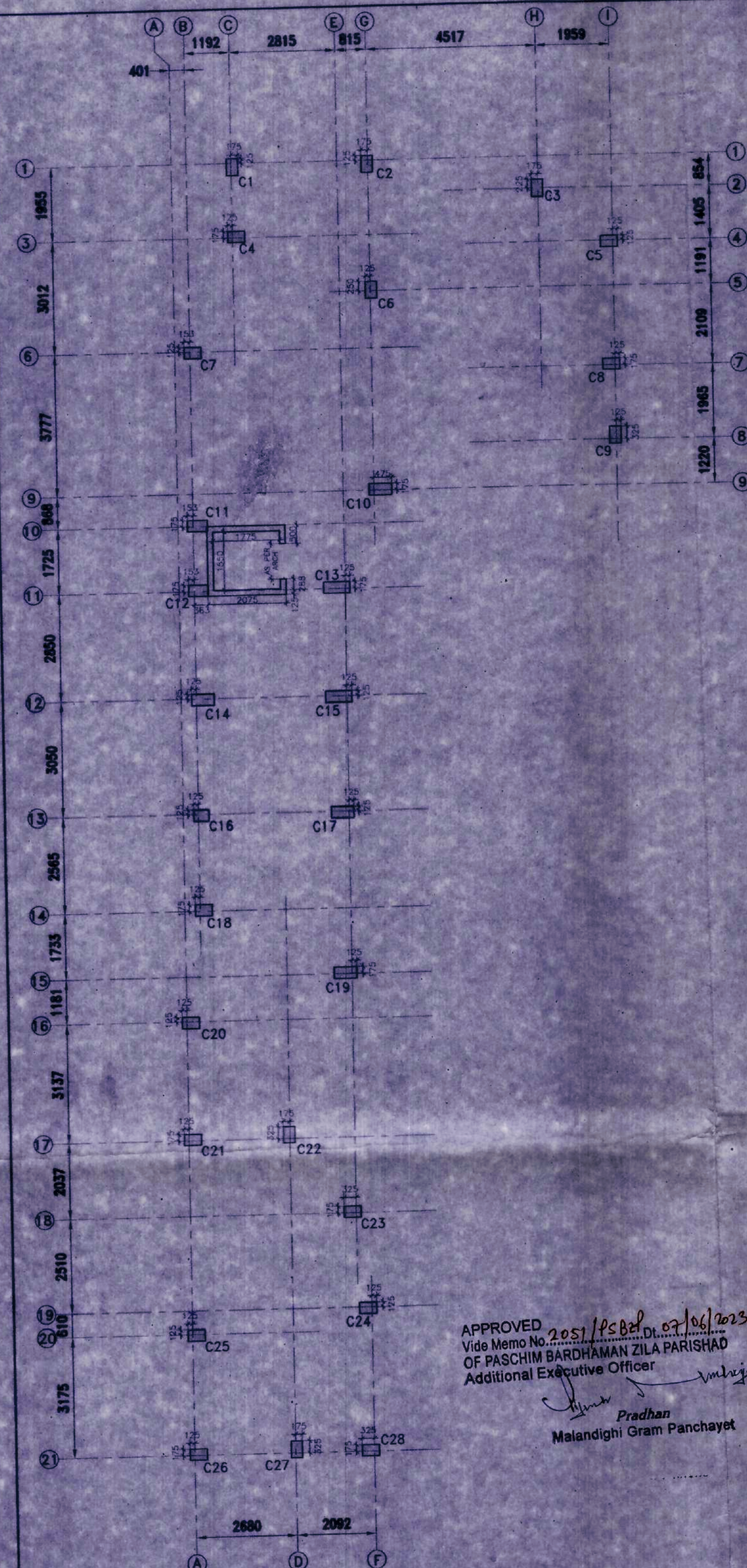
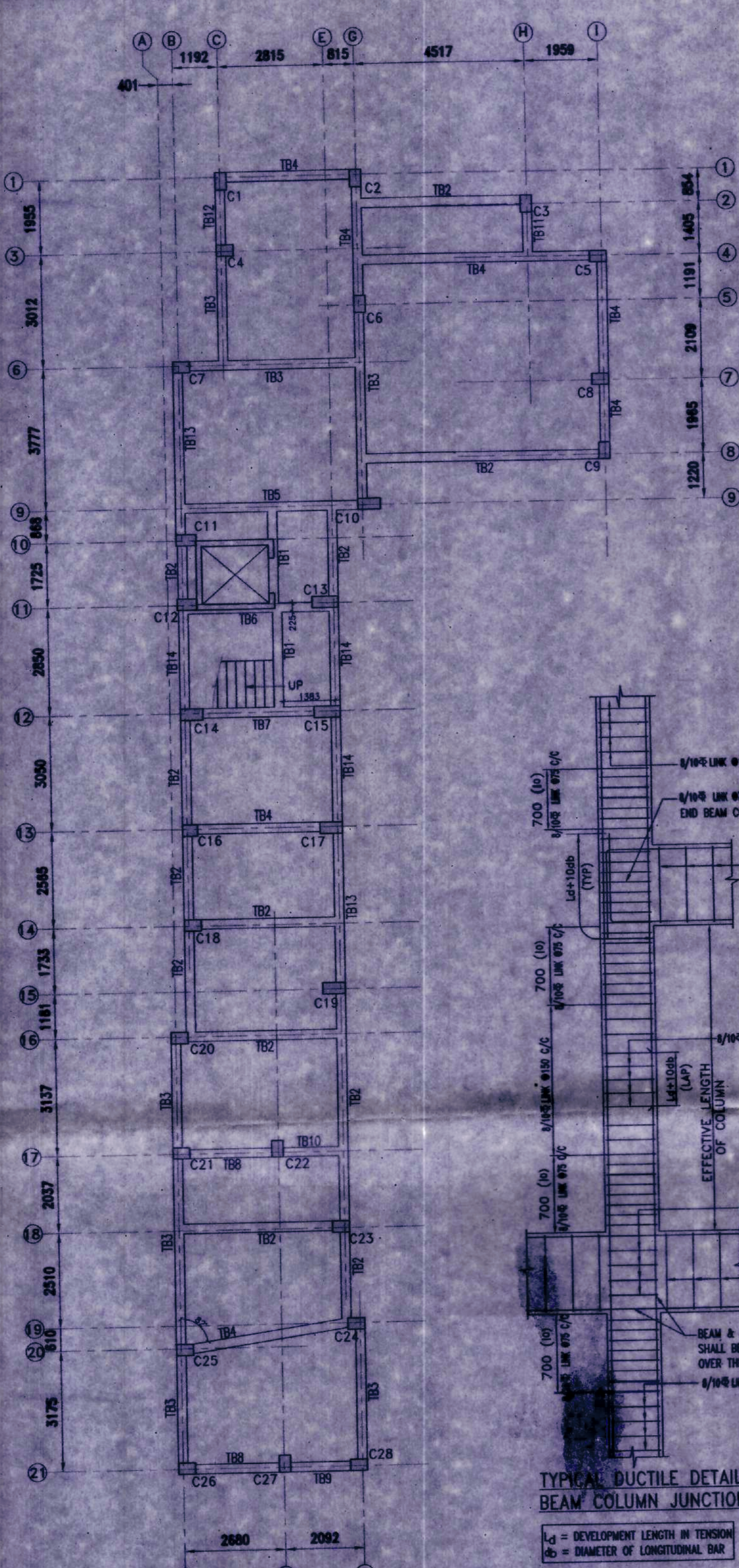




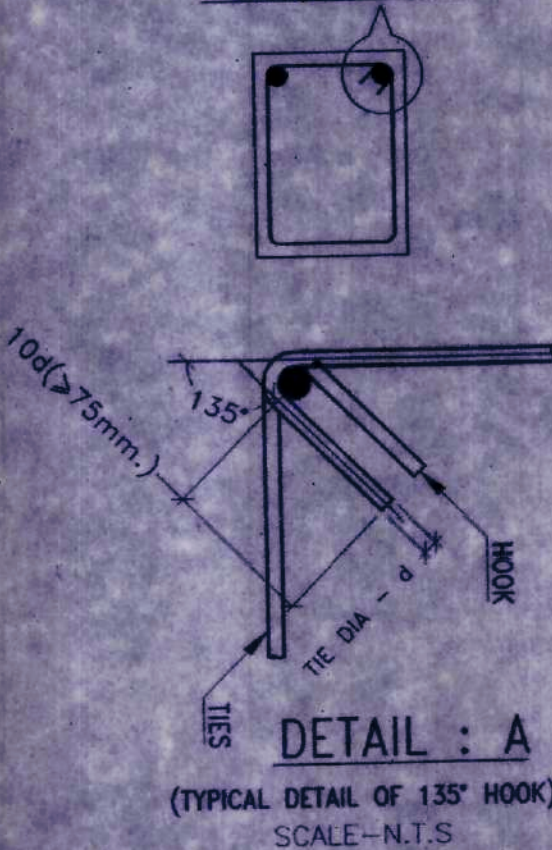
SCALE 1:100

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN	(S1)	(S2)
TB1	250	350	2-12 ϕ +1-16 ϕ	-	2-12 ϕ +1-16 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB2	250	400	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB3	250	400	2-12 ϕ +1-16 ϕ	-	2-12 ϕ +1-16 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB4	250	400	2-12 ϕ +1-16 ϕ	2-12 ϕ	2-12 ϕ +1-16 ϕ	2-12 ϕ	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB5	250	400	3-12 ϕ	3-16 ϕ	3-16 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB6	250	400	3-16 ϕ	3-20 ϕ	3-20 ϕ	-	2L-12 ϕ100 C/C	2L-12 ϕ200 C/C
TB7	250	400	3-12 ϕ	3-16 ϕ	2-12 ϕ +1-16 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB8	250	400	3-16 ϕ	2-12 ϕ	3-20 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB9	250	400	3-16 ϕ	3-12 ϕ	3-20 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB10	250	400	3-16 ϕ +2-12 ϕ	-	3-20 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ100 C/C
TB11	250	400	2-12 ϕ +1-16 ϕ	-	3-12 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ100 C/C
TB12	250	400	2-12 ϕ +1-16 ϕ	-	2-12 ϕ +1-16 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB13	250	400	3-12 ϕ	2-12 ϕ	3-12 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C
TB14	250	400	3-12 ϕ +2-12 ϕ	-	3-12 ϕ +2-12 ϕ	-	2L-8 ϕ100 C/C	2L-8 ϕ200 C/C



SCALE 1:100

DETAIL : A



COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1,ST2 (ROOF TO WATER TANK) ST3,ST4,ST5 (ROOF TO LMR ROOF)	05	250x250	MAIN RNF:- 4-16 ϕ +1-16 ϕ	8 ϕ 50 C/C (1 NOS. CLOSED LINK)

SPECIAL NOTE:-
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.

IMPORTANT NOTE:-
1. ALL CANTILEVER BEAMS MUST BE CAST WITH AN UPWARD PRECAMBER OF 6MM AT THE TIP.

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 3RD FLOOR	3RD FLOOR TO ROOF/ ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING	REST PORTION
C1	1	300X450	MAIN RNF:- 6-16 ϕ +4-12 ϕ	MAIN RNF:- 4-16 ϕ +6-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C2,C8,C26	3	300X450	MAIN RNF:- 10-16 ϕ +6-12 ϕ	MAIN RNF:- 8-16 ϕ +2-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C3,C4,C5,C18,C20	5	300X450	MAIN RNF:- 4-16 ϕ +6-12 ϕ	MAIN RNF:- 4-16 ϕ +6-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C6,C21,C22,C23,C24, C25,C27,C28	8	300X450	MAIN RNF:- 6-20 ϕ +4-16 ϕ	MAIN RNF:- 4-20 ϕ +6-16 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C7	1	300X450	MAIN RNF:- 4-20 ϕ +6-16 ϕ	MAIN RNF:- 4-20 ϕ +6-16 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C9	1	300X450	MAIN RNF:- 10-16 ϕ +6-12 ϕ	MAIN RNF:- 8-16 ϕ +2-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C10,C17	2	300X600	MAIN RNF:- 6-20 ϕ +6-16 ϕ	MAIN RNF:- 4-20 ϕ +6-16 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C11,C12	2	300X525	MAIN RNF:- 8-20 ϕ +4-16 ϕ	MAIN RNF:- 4-20 ϕ +6-16 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C13	1	300X700	MAIN RNF:- 6-25 ϕ +8-20 ϕ	MAIN RNF:- 4-25 ϕ +10-20 ϕ	10 ϕ 75 C/C (4 NOS. CLOSED LINK)	10 ϕ 150 C/C (4 NOS. CLOSED LINK)
C14	1	300X600	MAIN RNF:- 12-16 ϕ +6-12 ϕ	MAIN RNF:- 6-16 ϕ +6-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C15	1	300X700	MAIN RNF:- 4-20 ϕ +10-16 ϕ	MAIN RNF:- 4-20 ϕ +6-16 ϕ	10 ϕ 75 C/C (4 NOS. CLOSED LINK)	10 ϕ 150 C/C (4 NOS. CLOSED LINK)
C16	1	300X400	MAIN RNF:- 8-16 ϕ +4-12 ϕ	MAIN RNF:- 4-16 ϕ +6-12 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)
C19	1	300X600	MAIN RNF:- 12-20 ϕ +6-20 ϕ	MAIN RNF:- 6-20 ϕ +6-16 ϕ	8 ϕ 75 C/C (3 NOS. CLOSED LINK)	8 ϕ 150 C/C (3 NOS. CLOSED LINK)

NOTES :
1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
2. 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).
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50BAR DIA.
6. 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
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE OF M25 AS PER IS-456:2000.
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. 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.
10. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
11. 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
STRUCTURAL DRAWING OF PROPOSED G+6 STORIED RESIDENTIAL APARTMENT BUILDING OF DUTTA & CO. OVER R.S PLOT NO- 1471, L.R PLOT NO-1545, KHATIAN L.R NO- 385, 059, 483, 5413, 5414, 5415, 2717, MOUZA-ARRAH, J.L NO- 091, P.S.- KANKSA.
1) BUDDHADEB MONDAL 2) UTTAM MONDAL
3) JAMINI MONDAL 4) TAPATI MONDAL
5) SADHIN MONDAL 6) CHIROSHREE MONDAL
7) CHANDI BAURI
SIGNATURE OF OWNER

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT
Ar. VIJAYA SINGH MAZUMDER
COA Registered
CA/2021/134278
9332802169/9476428106

SIGNATURE OF GEOTECHNICAL ENGINEER
ASHRAY ARKAR
BCE, ME (SOIL), MIRS
EMPANELLED GEOTECHNICAL ENGINEER
K.M.C. No. : CLASS-1/2

SIGNATURE OF STRUCTURAL ENGINEER
SUSMITA CHAUDHURY
B.TECH (CIVIL)-WBUT
ME (CONSTRUCTION)-JU
ESR-1/JR/PS/00130
ESR-11/KMC/664
STER/NKDA/21/00010
CYBER/NKDA/10/00175
(M)-8697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY
CHECKED
VERIFIED
APPROVED
DATE: 02.08.2022

STRUCTURAL CONSULTANT:
STRUCTON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT,
GROUND FLOOR
988, KALIKAPUR ROAD,
KOLKATA-700 096
Email:-structonenterprise@gmail.com
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DRAWING TITLE
1. COLUMN LAYOUT PLAN WITH REINF. DETAILS.
2. TIE BEAM LAYOUT PLAN WITH REINF. DETAILS.
SCALE-1:100 OR AS SHOWN
DATE-02.08.2022
SHEET NO. - 2 OF 4
SHEET SIZE - A1