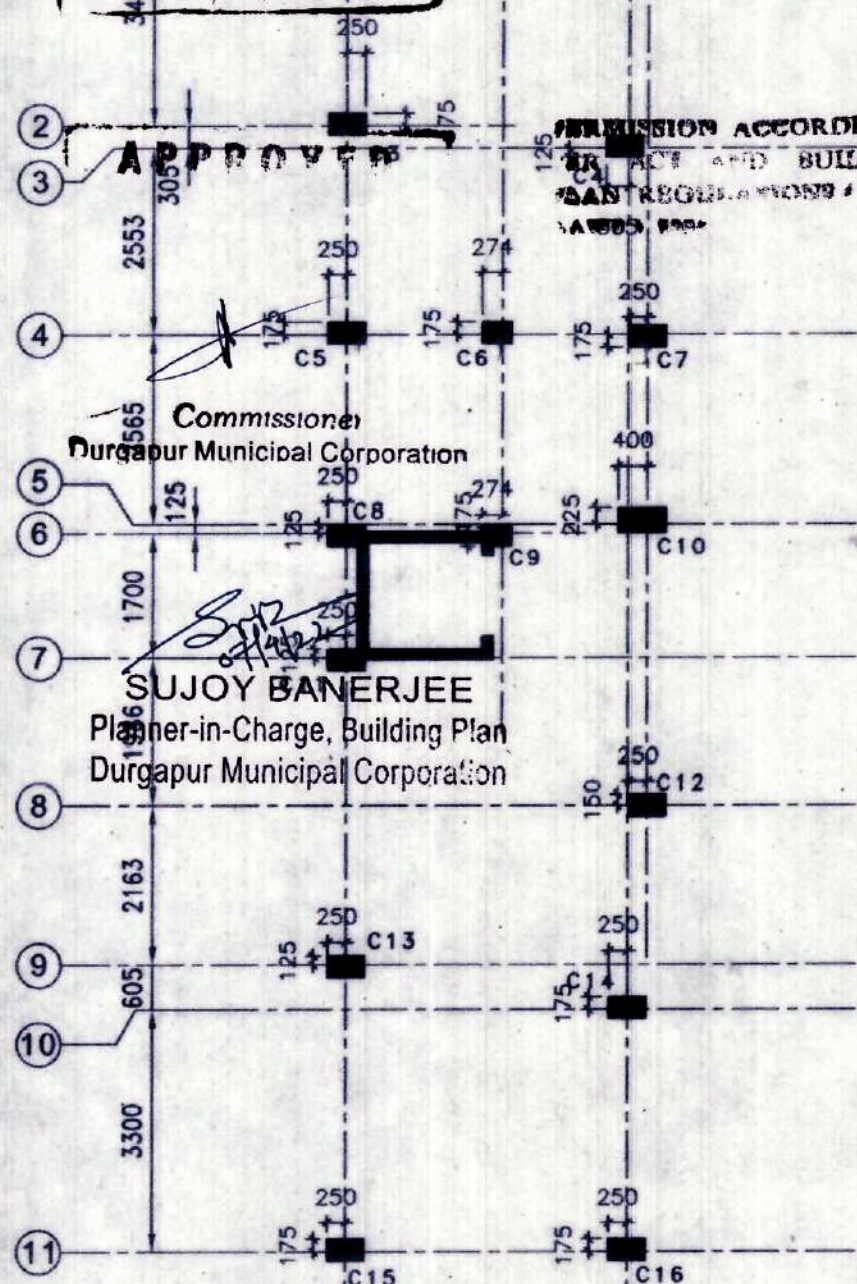


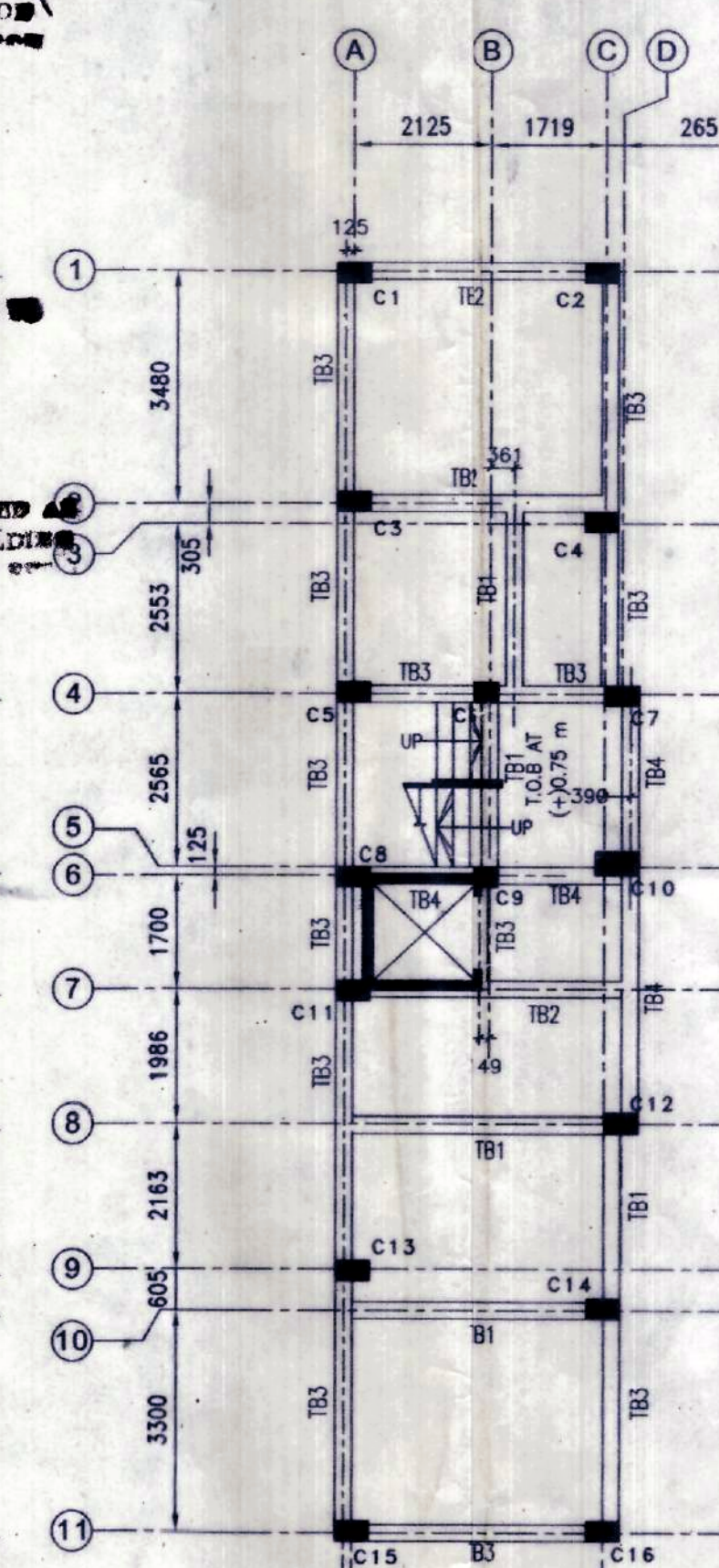


BUILDING PLAN APPROVED
ON THE BASIS OF THE INDIA
CITY BOND, LAND MUTATION
& CONVERSION IS THE RESPONSIBILITY OF THE OWNER

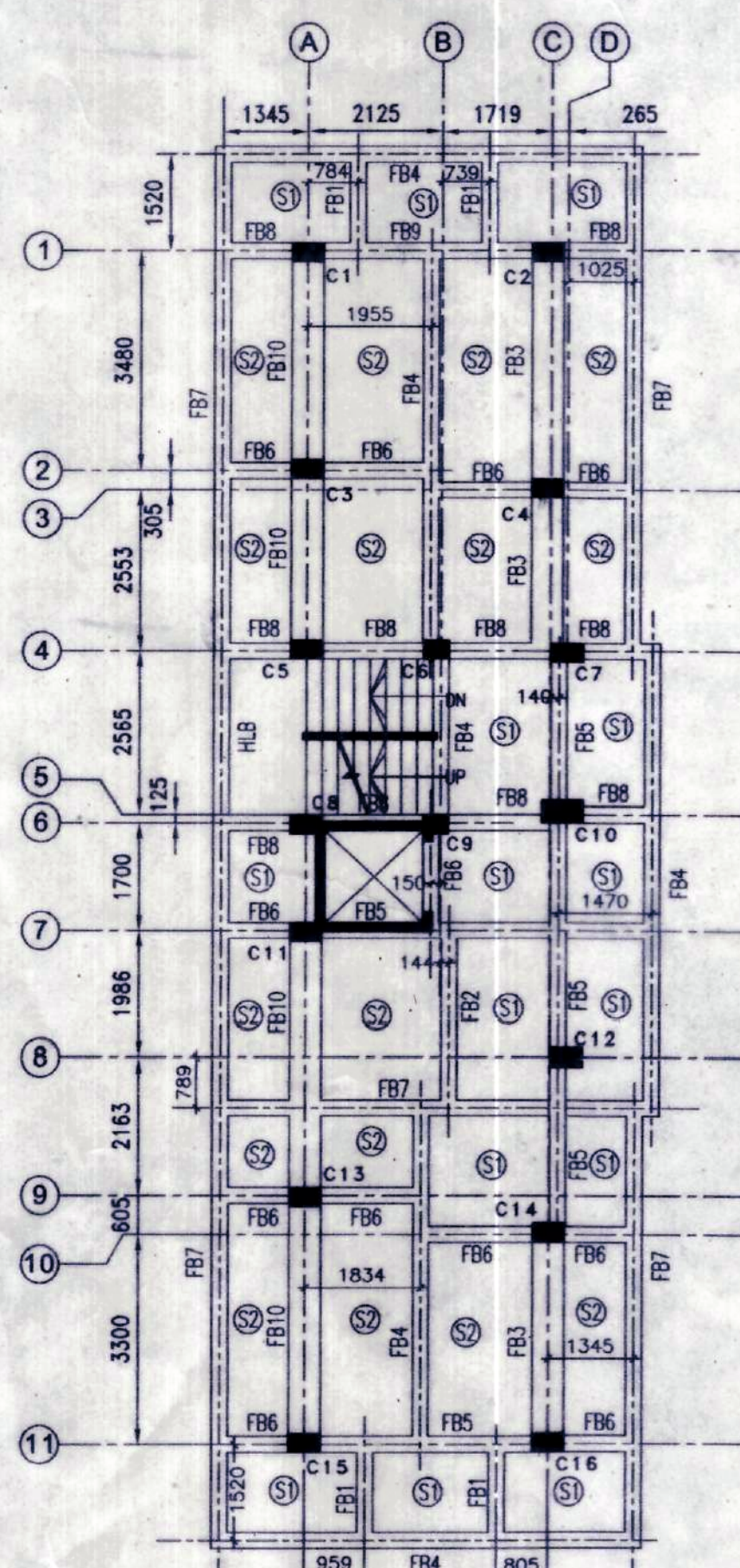
PLAN No. C.B./1321
N.B./C.B./1321/1321
APN: 10.21
Date: 09/07/2021
Commissioner
Durgapur Municipal Corporation
SUJOY BANERJEE
Planner-in-Charge, Building Plan
Durgapur Municipal Corporation



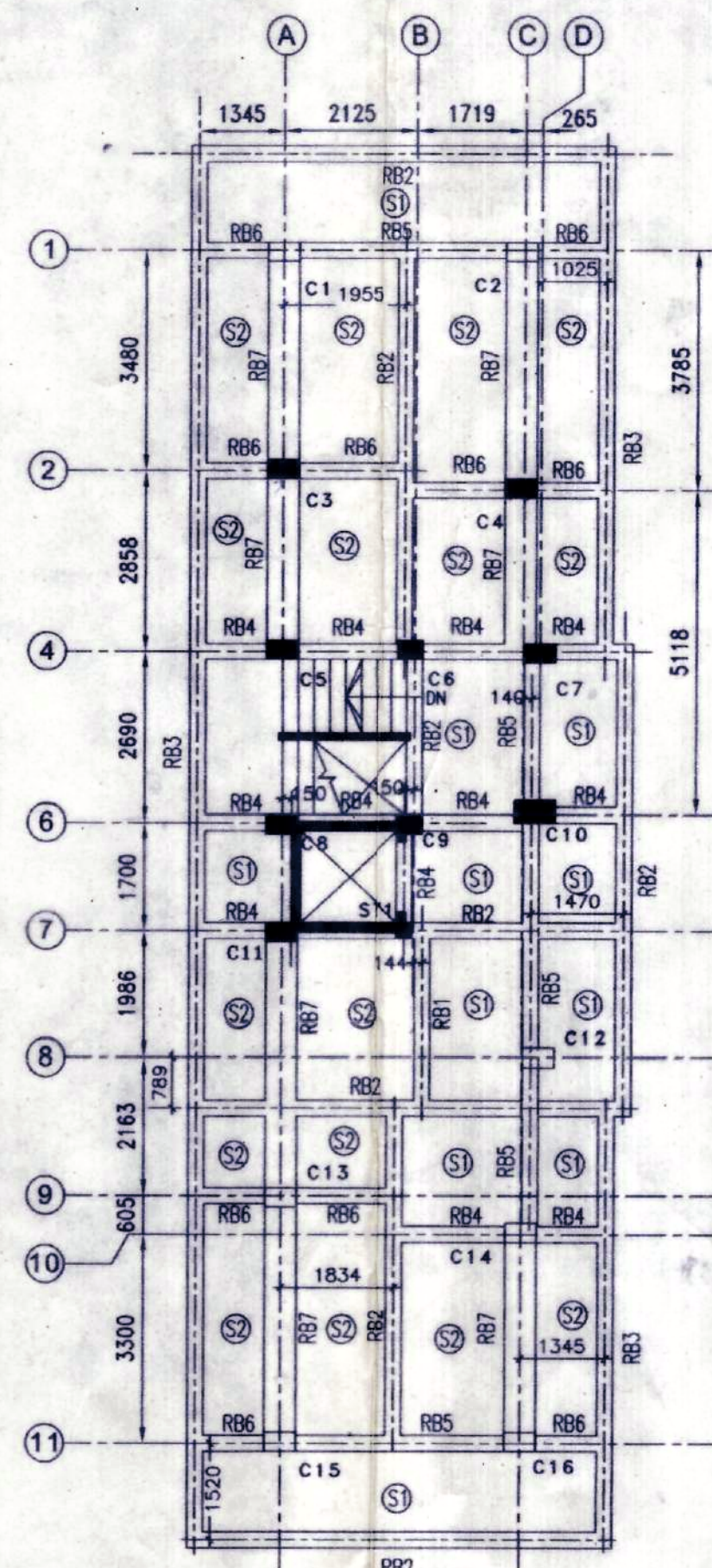
COLUMN LAYOUT PLAN
SCALE 1:100



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



TYPICAL FLOOR BEAMS AND SLAB LAYOUT PLAN
AT LEVELS (+)2.9m, (+)5.8m,
(+)8.7m, & (+)11.6m.
S1 MARKED SLABS ARE 115 mm THICK
S2 MARKED SLABS ARE 150 mm THICK
SCALE- 1:100



ROOF BEAMS AND SLAB LAYOUT PLAN
AT LEVEL (+)14.5m.
S1 MARKED SLABS ARE 115 mm THICK
S2 MARKED SLABS ARE 150 mm THICK
SCALE- 1:100

SPECIAL NOTE:
1.0 THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.
2.0 ALL CANTILEVER BEAMS FROM 1ST FLOOR TO ROOF SHOULD BE CAST WITH PRECAMBER OF 10 mm (BOTH TOP AND BOTT.) AT CANTILEVER TIP.
3.0 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.

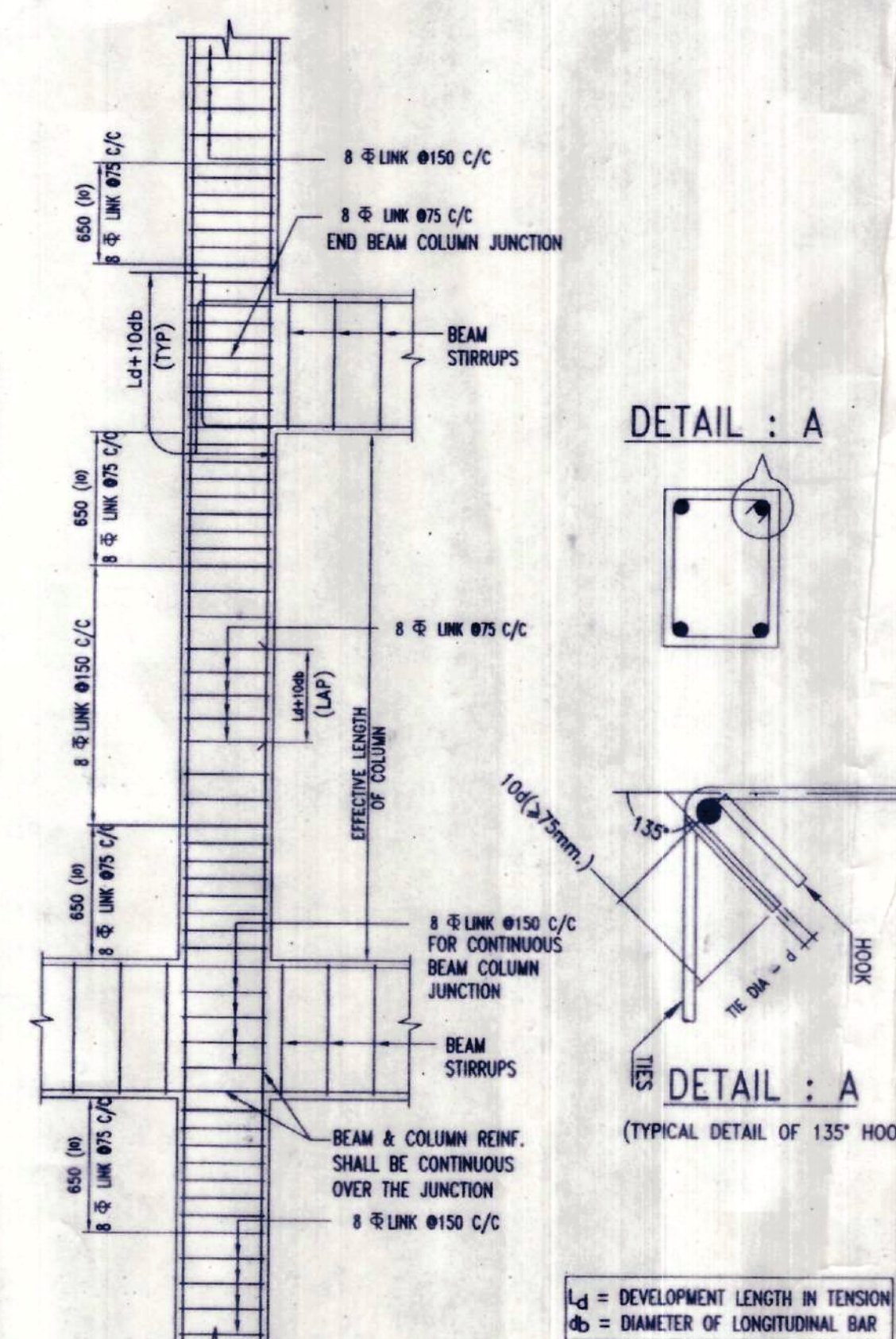
SCHEDULE OF TYPICAL FLOOR BEAMS									
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS		STIRRUPS (AT SPAN)
	WIDTH (W)	DEPTH (D)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	AT SUPPORT (S1)	AT SPAN (S2)	
FB1	250	400	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @100 C/C	
FB2	250	400	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
FB3	500	200	5-16 #	-	5-16 #	-	4L-8 # @200 C/C	4L-8 # @200 C/C	
FB4	250	450	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
FB5	250	450	3-20 #	3-20 #	3-20 #	2-16 #	2L-10 # @100 C/C	2L-10 # @200 C/C	
FB6	250	450	3-20 #	3-20 #	3-20 #	-	2L-10 # @100 C/C	2L-10 # @100 C/C	
FB7	250	450	2-20 #	1-16 #	2-20 #	1-16 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
FB8	250	450	3-20 #	3-20 #	3-20 #	-	2L-12 # @100 C/C	2L-12 # @100 C/C	
FB9	250	450	3-20 #	2-20 #	3-20 #	2-16 #	2L-12 # @100 C/C	2L-12 # @200 C/C	
FB10	500	200	6-16 #	-	6-16 #	-	4L-8 # @100 C/C	4L-8 # @200 C/C	
HLB	250	450	2-16 #	1-20 #	2-16 #	1-20 #	2L-8 # @100 C/C	2L-8 # @150 C/C	

SCHEDULE OF TIE BEAMS									
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS		STIRRUPS (AT SPAN)
	WIDTH (W)	DEPTH (D)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	AT SUPPORT (S1)	AT SPAN (S2)	
TB1	250	400	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
TB2	250	400	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
TB3	250	400	2-20 #	1-16 #	2-20 #	1-16 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
TB4	250	400	3-20 #	-	3-20 #	-	2L-8 # @100 C/C	2L-8 # @200 C/C	

SCHEDULE OF STOOL COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO LMR ROOF	STIRRUP ARRANGEMENT & SPACING
ST1 (ROOF TO LMR ROOF)	01	250x250		8 # @150 C/C (1 NOS. CLOSED LINK)

SCHEDULE OF ROOF BEAMS									
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS		STIRRUPS (AT SPAN)
	WIDTH (W)	DEPTH (D)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	AT SUPPORT (S1)	AT SPAN (S2)	
RB1	250	400	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
RB2	250	450	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
RB3	250	450	2-16 #	2-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @200 C/C	
RB4	250	450	2-16 #	1-12 #	2-16 #	1-12 #	2L-8 # @100 C/C	2L-8 # @100 C/C	
RB5	250	450	3-20 #	-	3-20 #	-	2L-8 # @100 C/C	2L-8 # @200 C/C	
RB6	250	450	3-20 #	-	3-20 #	-	2L-8 # @100 C/C	2L-8 # @100 C/C	
RB7	500	200	5-16 #	-	5-16 #	-	4L-8 # @100 C/C	4L-8 # @200 C/C	

SCHEDULE OF COLUMNS					
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING	
				NEAR JUNCTION (10)	REST PORTION
C6,C9	02	300X400		8 # @75 C/C (2 NOS. CLOSED LINK)	8 # @150 C/C (2 NOS. CLOSED LINK)
C10	01	350X650		8 # @75 C/C (4 NOS. CLOSED LINK)	8 # @150 C/C (4 NOS. CLOSED LINK)
C1,C2, C4,C16	04	300X500		8 # @75 C/C (3 NOS. CLOSED LINK)	8 # @150 C/C (3 NOS. CLOSED LINK)
C3,C5, C8,C14	04	300X500		8 # @75 C/C (3 NOS. CLOSED LINK)	8 # @150 C/C (3 NOS. CLOSED LINK)
C11,C13, C15	03	300X500		8 # @75 C/C (3 NOS. CLOSED LINK)	8 # @150 C/C (3 NOS. CLOSED LINK)
C7,C12	02	300X500		8 # @75 C/C (3 NOS. CLOSED LINK)	8 # @150 C/C (3 NOS. CLOSED LINK)



TYPICAL DUCTILE DETAIL OF
BEAM COLUMN JUNCTION

- 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 = 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
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE 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.

TITLE
STRUCTURAL DRAWING OF PROPOSED OF G+4
STORIED RESIDENTIAL (APARTMENT) BUILDING OF
KEDARNATH CONSTRUCTION OVER R.S PLOT NO. -
1242(P), MOUZA -FULJHORE, J.L. NO- 82, P.S.
- FARIDPUR(N.T.P.S), DIST- PASCHIM BURDWAN.

CERTIFICATE OF OWNER
Subhadip Ray
Anup Ray
Indrajit Ray
Subrata Bagchi
Signature of L.B.S./ENGINEER/ARCHITECT

Vijaya Singh
Ar. VIJAYA SINGH MAZUMDER
CA/2021/134276
9332802166 / 9476426106

VIJAYA SINGH
DMC REGISTERED
LIC NO. - DMC/BPD/60
SIGNATURE OF GEOTECHNICAL ENGINEER
THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

CERTIFICATE OF STRUCTURAL ENGINEER
THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

S. Choudhury 13/8/24
SUSMITA CHOUDHURY
B.TECH (WBUT), M.E. (IU)
CIVIL ENGINEER, INDIA
LICENCE NO. OVER/NKDA/10/00175
M-8897517321, 7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VERIFIED
DR. DIPANKAR CHAKRABORTY
STRUCTURAL ENGINEER, INDIA
PROFESSOR & CHIEF HEAD
CIVIL ENGINEERING DEPARTMENT
B.TECH (WBUT), M.E. (IU)
CIVIL ENGINEER, INDIA
LICENCE NO. OVER/NKDA/10/00175
M-8897517321, 7003201735
EMAIL: Prof.dipankar@gmail.com

DRAWING TITLE
COLUMN LAYOUT, THE BEAM LAYOUT PLAN, TYPICAL FLOOR & ROOF BEAMS
& SLAB LAYOUT & REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN

DATE- 17.08.2021

SHEET NO. - 2 OF 4

