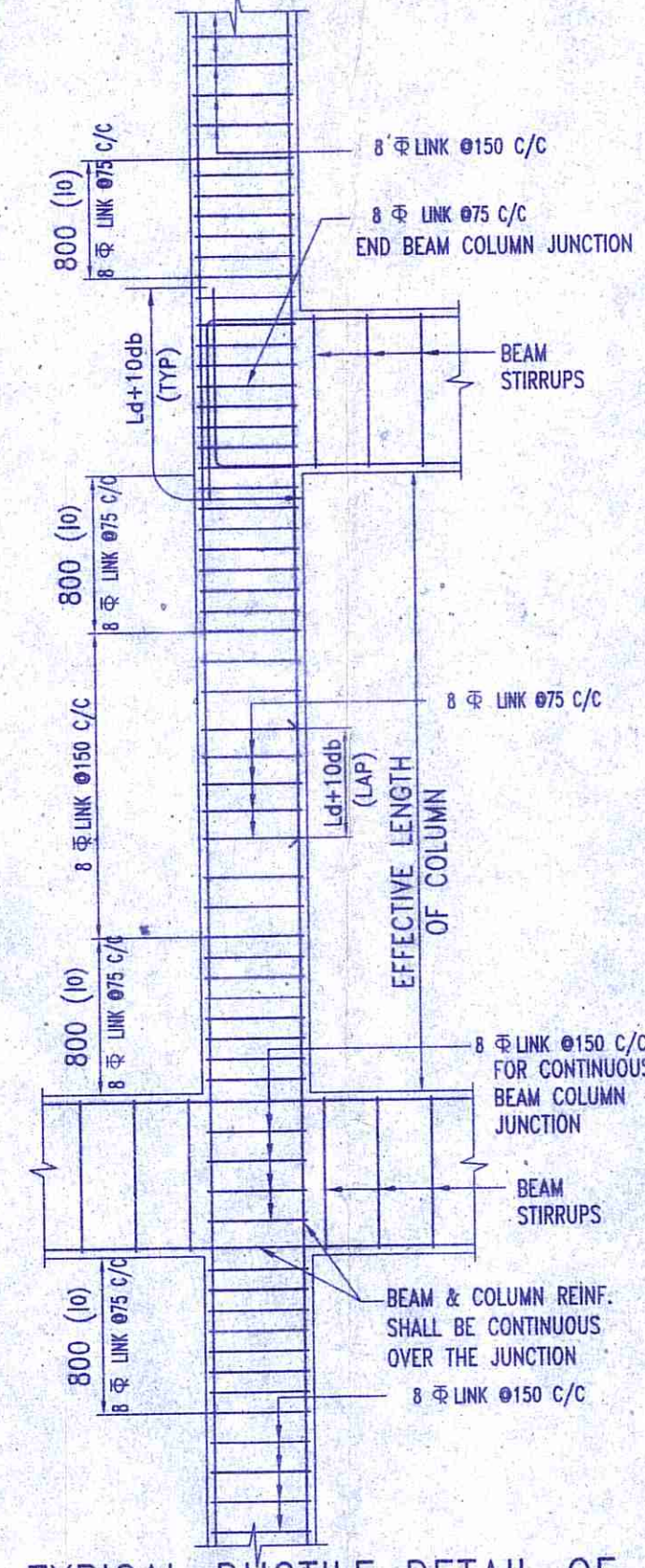


DGP-16
 Approved
 20.02.21
 18.08.2020

Commissioner
 Durgapur Municipal Corporation

MOHAN LAI MAJEE
 Planner-in-Charge, Building Plan,
 Durgapur Municipal Corporation

COLUMN LAYOUT PLAN
 SCALE: 1:100



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
 SCALE: 1:25

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF & ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING	
				NEAR JUNCTION (ϕ)	REST PORTION
C13,C31	02	300X700			
C35	01	300X775			
C1,C3,C4,C9, C10,C11,C15, C16,C17,C18, C20,C21,C22, C23,C26,C28, C33,C38	18	300X450			
C2,C5,C6, C7,C8,C12, C14,C19,C24, C25,C27,C29, C30,C32,C34, C36,C37	17	300X500			
STOOL COLUMN S11,S13,S14 (ROOF TO MUMTY ROOF FLOOR), S12,S15,S18 (ROOF TO LMR ROOF FLOOR), S16,S17 (ROOF TO WATER TANK FLOOR)	08	250x250			

- 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 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 & SUBSTRUCTURE 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 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.
 - IN 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.

SPECIAL NOTES:
 THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 250 mm THICK AAC BLOCKS IN EXTERNAL WALLS & 125 mm THICK AAC BLOCKS IN INTERNAL WALLS.

TITLE
 STRUCTURAL DRAWING OF PROPOSED G+5 STORIED RESIDENTIAL (APARTMENT) BUILDING OF AMANTRAN PROJECTS PVT. LTD. OVER L.R. PLOT NO.- 51(P), 292(P), 295(P), 297(P), L.R. KHATAN NO. - 338, MOUZA - HARBIBAZAR, J.L. NO.- 106, P.S. - NEWTOWNSHIP, DIST.- BURDWAN
 * HOLDING NO.- 43/N
 * I D NO.- 66013
 * CIRCLE/WARD NO. - C/25
 NAME OF STREET - ROAD-71, HARI BAZAR, DGP-06

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

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

ASIM SARKAR
 B.C.E. (SOIL), MGS
 BURNELLED GEOTECHNICAL ENGINEER
 K.M.C. No. : CLASS -12

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.

SUSMITA CHOUDHURY
 B.TECH (WBUTU)
 CIVIL ENGINEER, NKDA
 LICENCE NO.- CVER/NKDA/10/00175

SIGNATURE OF THE VETTING AUTHORITY.

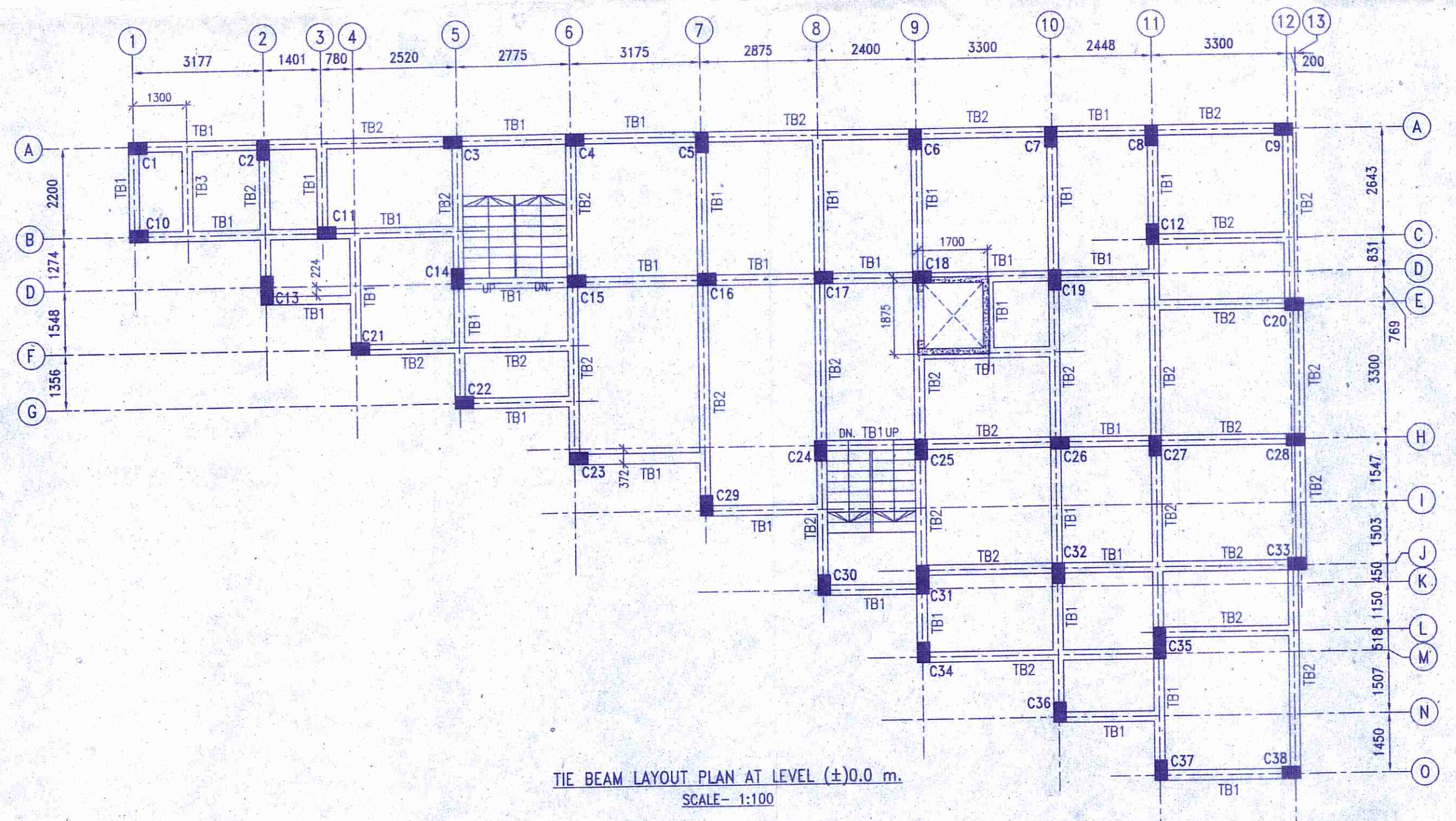
THE SOIL REPORT DOES NOT CONTAIN BEARING CAPACITY CORRESPONDING TO THE RAFT. THEREFORE IT IS EXTREMELY IMPORTANT TO GET A REPORT FROM A COMPETENT GEO-TECHNICAL ENGINEER, BEFORE EXECUTION OF THE WORK, TO VERIFY WHETHER A BEARING CAPACITY OF 11 TON/SQ.M. IS REALLY ACHIEVABLE AT SITE. SO THIS DRAWING IS PROVISIONALLY VETTED WITH THE ABOVE CONDITION.

DR. DIPANKAR BHARADWAJ
 STRUCTURAL ENGINEER
 PROFESSIONAL MEMBER OF THE INDIAN INSTITUTE OF STRUCTURAL ENGINEERS
 JAC (I.S.E.) SOCIETY, CALLETT ROAD, BURDWAN
 B.TECH (WBUTU) GOLD MEDALIST
 PHD (UT) 1987
 I.C.E. 1987
 I.M.S. 1987
 I.A.S. 1987
 I.A.S. 1987
 I.A.S. 1987
 I.A.S. 1987

CERTIFICATE OF OWNER
 THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.

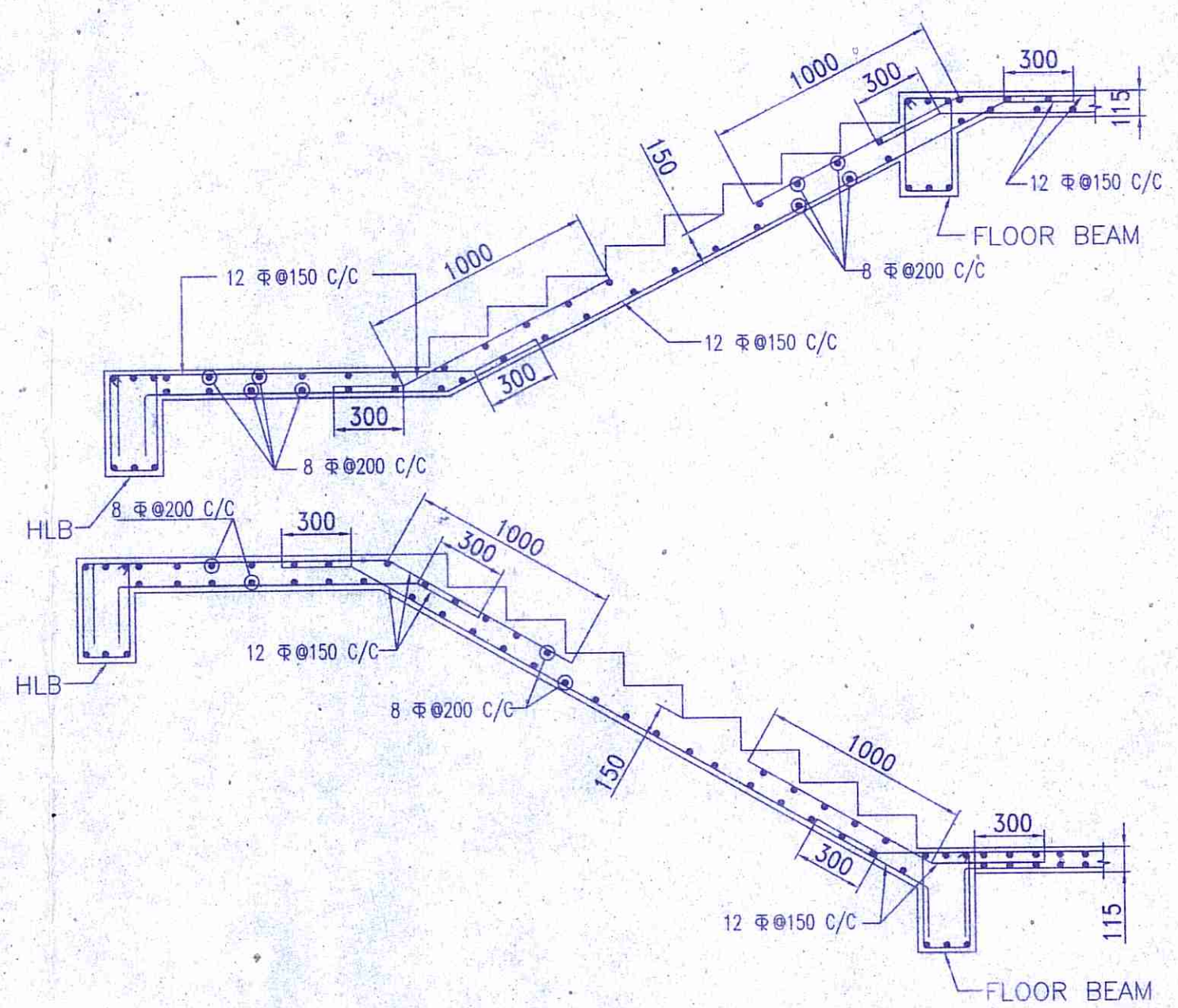
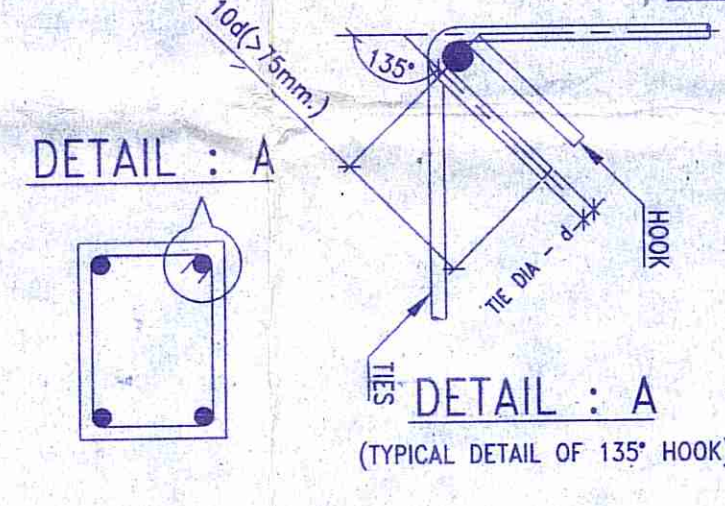
Ashok Majumdar, Debanshu Munshi
 Suresh Mondal
 Surendra Nath Chatterjee

DRAWING TITLE
 COLUMN LAYOUT PLAN & REINFORCEMENT DETAILS, TIE BEAM LAYOUT PLAN & REINFORCEMENT DETAILS, TYPICAL DETAILS OF STAIR.
 SCALE-1:100 OR AS SHOWN
 DATE- 18.09.2020
 SHEET NO. - 2 OF 4



SCHEDULE OF TIE BEAMS

BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN		
TB1	250 x 450	3-16 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
TB2	250 x 450	3-16 Φ	2-12 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
TB3	250 x 400	3-16 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C



TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB
 SCALE: 1:25

