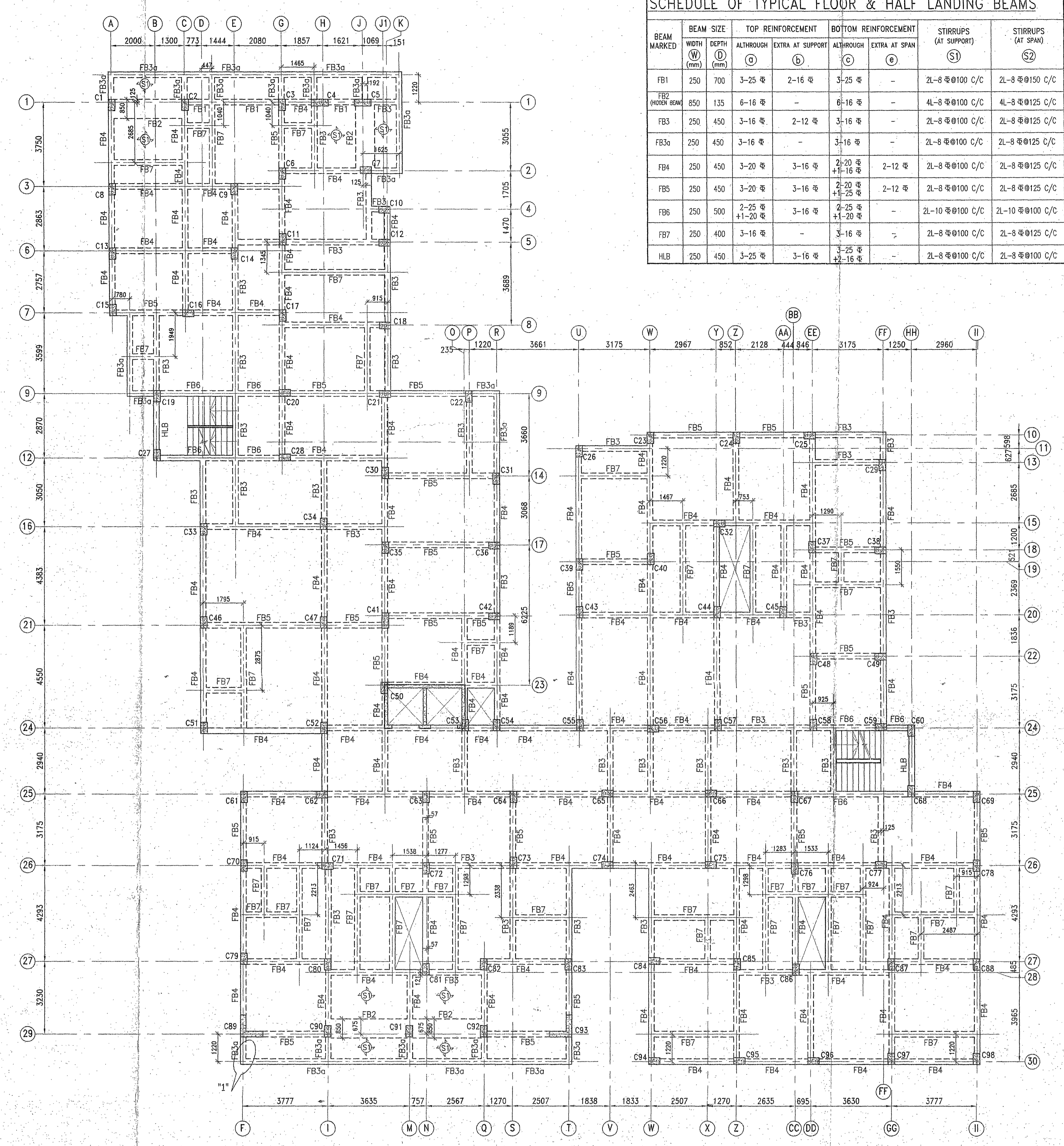


SCHEDULE OF TIE BEAMS

BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN		
TB1	250 450	3-16	-	3-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C
TB2	250 450	3-16	2-12	2-20 +1-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C
TB3	250 450	3-20	2-12	3-20	-	2L-8-#0100 C/C	2L-8-#0125 C/C
TB4	250 400	3-16	-	3-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C



SCHEDULE OF TYPICAL FLOOR & HALF LANDING BEAMS

BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN		
FB1	250 700	3-25	2-16	3-25	-	2L-8-#0100 C/C	2L-8-#0150 C/C
FB2	250 450	3-16	2-12	3-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C
FB3	250 450	3-16	2-12	3-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C
FB4	250 450	3-20	3-16	2-20 +1-16	2-12	2L-8-#0100 C/C	2L-8-#0125 C/C
FB5	250 450	3-20	3-16	2-20 +1-16	2-12	2L-8-#0100 C/C	2L-8-#0125 C/C
FB6	250 500	2-25 +1-20	3-16	2-25 +1-20	-	2L-10-#0100 C/C	2L-10-#0100 C/C
FB7	250 400	3-16	-	3-16	-	2L-8-#0100 C/C	2L-8-#0125 C/C
HLB	250 450	3-25	3-16	3-25	-	2L-8-#0100 C/C	2L-8-#0100 C/C

- 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). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
 - 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-500/500 CONFORMING TO IS-1786-2008.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH + 50BAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
i) SLAB = 20 MM
ii) LIFT SHEAR WALL = 20 MM
iii) BEAMS = 30MM.
iv) BEAMS SURROUNDING THE STAIR ROOM TO MEET 4 HRS. OF FIRE RESISTANCE=70MM.
v) WAIST SLAB TO MEET 4 HRS. OF FIRE RESISTANCE=55MM
 - GRADE OF CONCRETE SHALL BE AS FOLLOWS:-
FOUNDATION TO FOURTH FLOOR: M30
FOURTH FLOOR TO ROOF AND ABOVE: M25
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE, AND CURING SHALL BE DONE PROPERLY.
 - DEVELOPMENT LENGTH SADD 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 AXIS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 50D IN THE SUPPORTING MEMBER DRAWING.
 - IN ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS (IF ANY) THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UP TO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.
 - WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE, THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT THE BOTTOM SIDE. LIGHT WEIGHT AAC BLOCKS ARE TO BE USED IN PLACE OF CONVENTIONAL BRICK WORK AT ALL PLACES.

TITLE
STRUCTURAL DRAWINGS OF PROPOSED G+7
STORIED APARTMENT BUILDING OF "NABAUDYOG
ENTERPRISE" OVER PLOT NO. - 2063, 2064, 2065,
2066, 2067 & 2068(P), MOUZA- ARRAB, J.L.
NO.- 91, KHATIAN NO. - 4514, 4515, 4516, 406,
4508, 4509, 4510, 191, 4511, 4512, 4513, 1461,
4549, 4548 P.S.- KANSA, DIST. - PASHCHIM
BARDHAMAN

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 SEISMO LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT.

Soumyadip Datta
 CIVIL ENGINEER (B.TECH)
 W. B. U. I.
 Subrata Chakravorty
 BICE (I.I.T.), MICE
 CHARTERED ENGINEER
 ESE NO.- 204 (I) OF K.M.C.

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

DR. DIPANKAR CHAKRAVORTY
 Professor, Civil Engineering Department,
 Jadavpur University, Kolkata-700032
 M. E. (I.I.T.), Gold Medalist
 M. Tech (IIT KGP) - Gold Medalist
 P.E. (IIT KGP)
 R-30146451 * O - 2414644 * M - 983118820

CERTIFICATE OF ARCHITECT/ENGINEER
 I DO HEREBY CONFIRM AND CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN PREPARED BY ME, KEEPING THE PROVISION OF NBC OF INDIA AND CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT.

Vijaya Sankar Mazumder
 Consulting Architect
 D.M.C Registered (DM/CE/EP/001)
 VIJAYA SANKAR MAZUMDER, 04/24/2018/0010
 CONSULTING ARCHITECT
 D.M.C REGISTERED
 LIC NO. - 5100/07/00

DECLARATION OF GEOTECHNICAL ENGINEER
 THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT.

PURBARAMAN PASARI
 M.E. (I.I.T.), Chartered Engineer
 P.A.C., Accredited External
 Kolkata-700 034

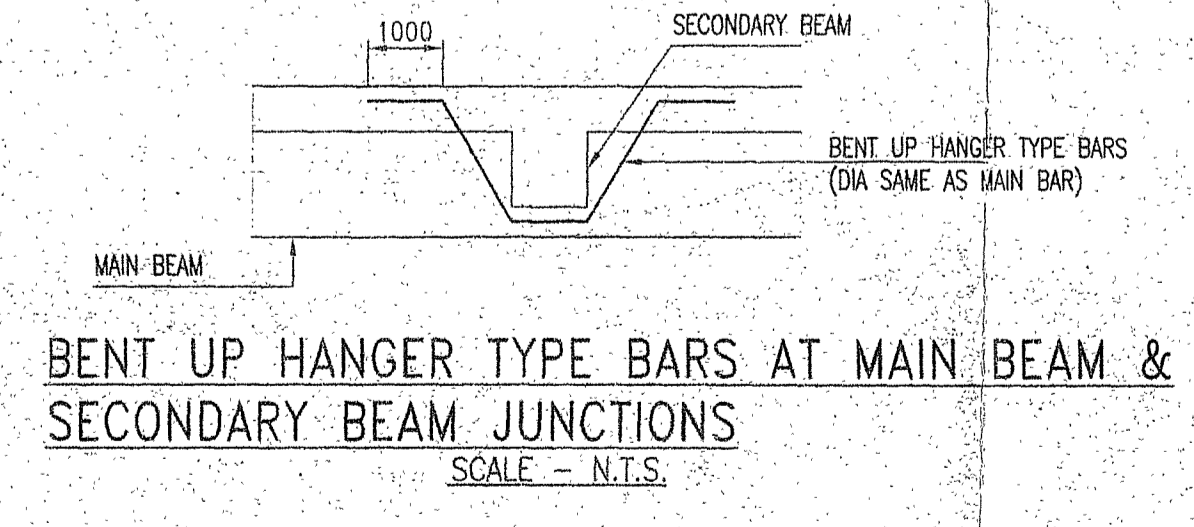
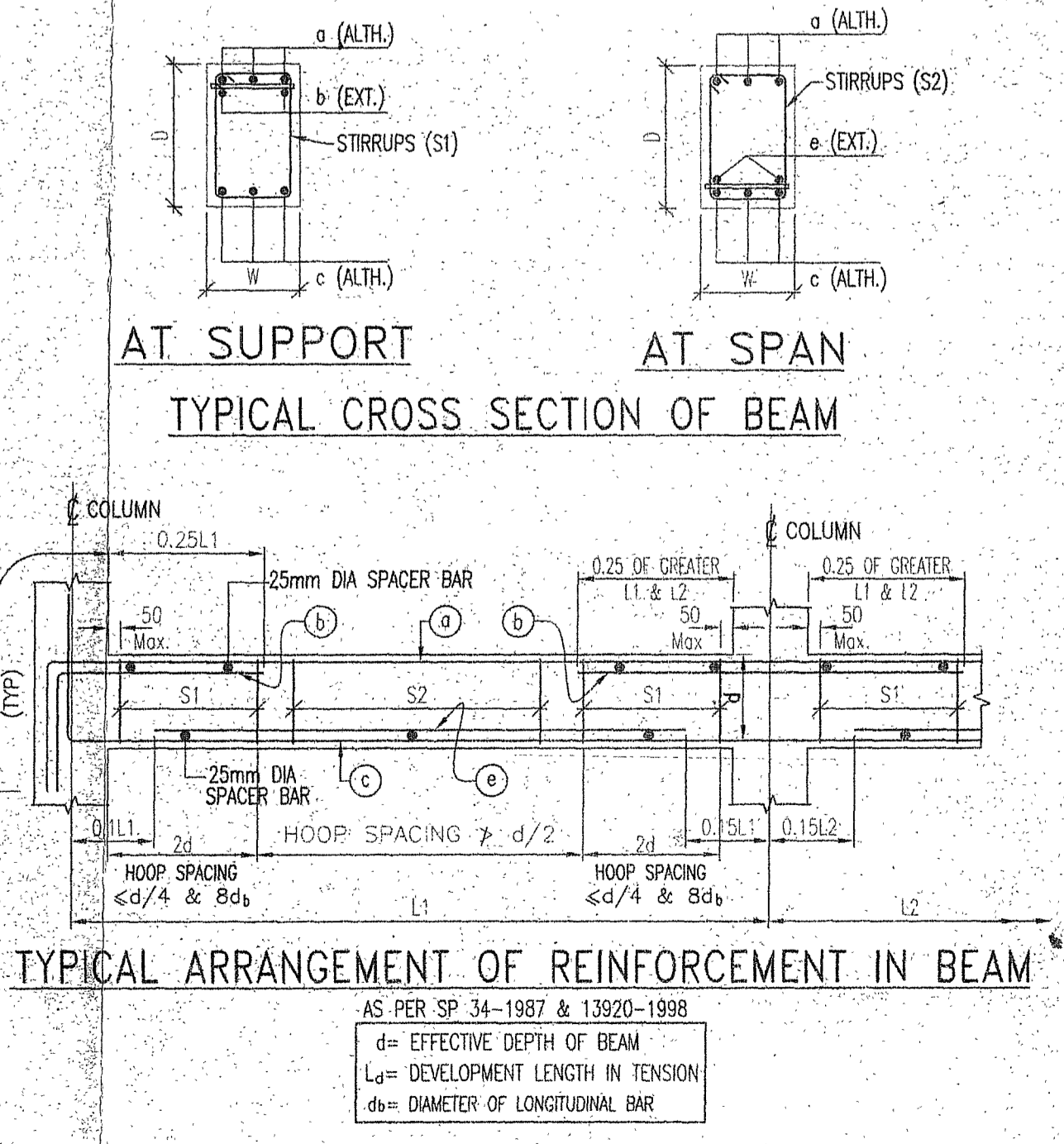
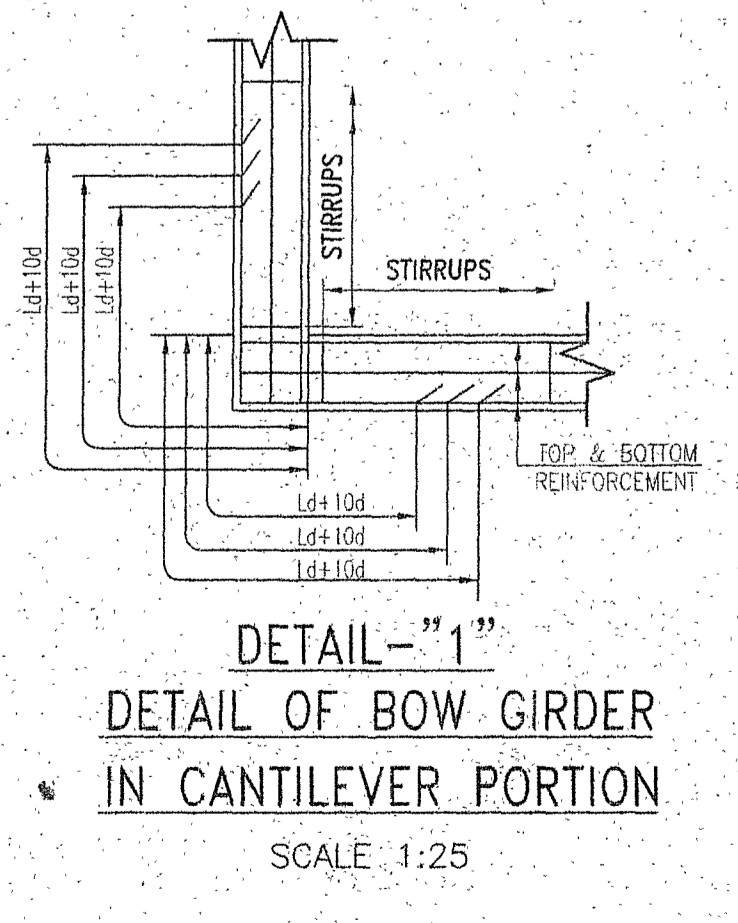
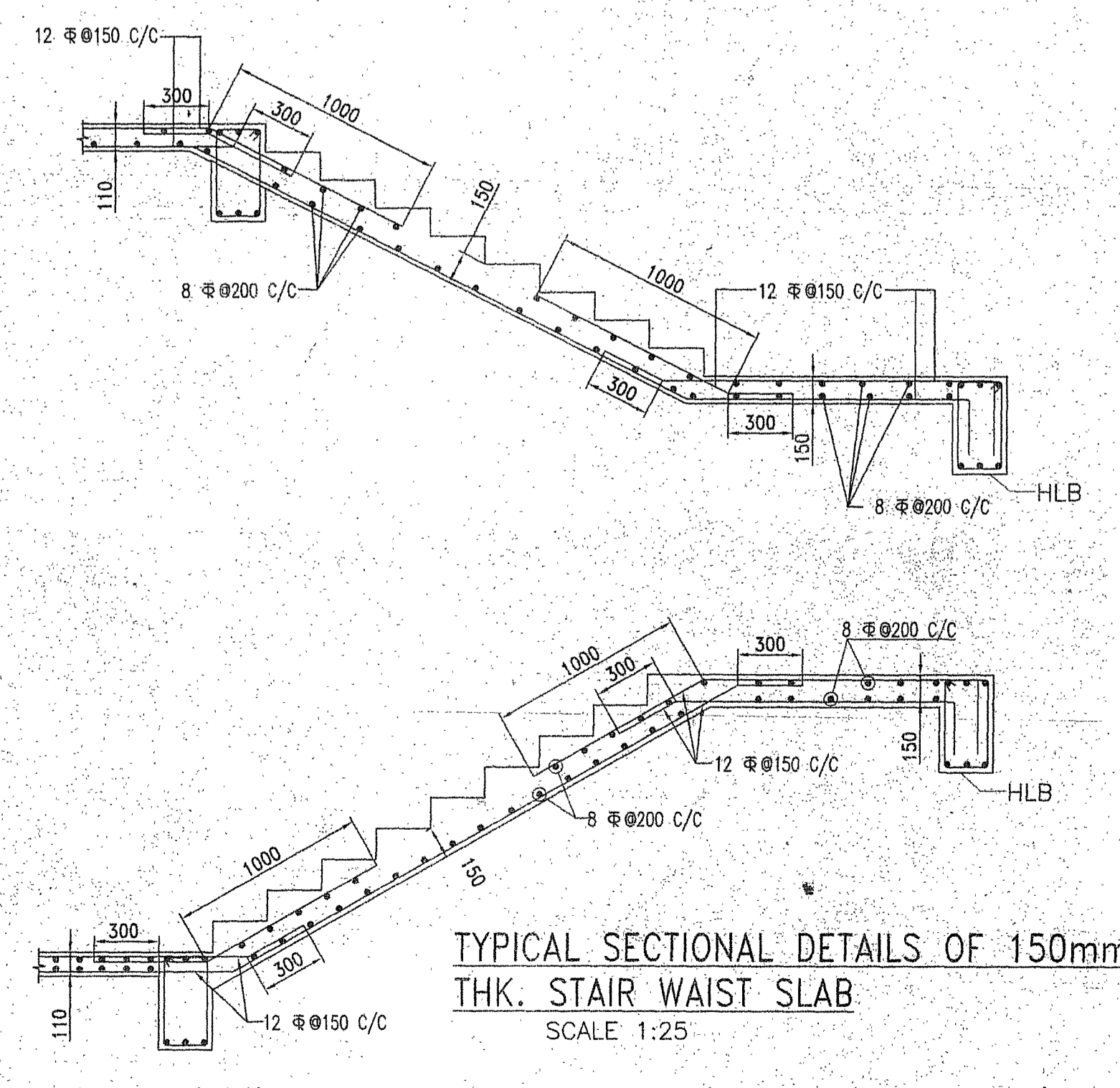
CERTIFICATE OF OWNERS
 THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN, THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.

Nabaudyog Enterprise
Naba Kumar Paul
 Proprietor

SIG. OF PANCHAYAT PRADHAN
 Approved by District Engineer Paschim
 Bardhaman, Billa Pansai, and Memo NO -
 DE/PS/EP/264 dt 20/11/19
 APPROVED
 Pradhan
 Malandighi Gram Panchayat

DRAWING TITLE
 TIE AND TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN,
 STAIR DETAIL.

SCALE: 1:100 OR AS SHOWN
 DATE - 27.07.2018
 SHEET NO. - 3 OF 4



SPECIAL NOTES
 THIS DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 200 mm THICK AAC BLOCKS IN EXTERNAL WALLS & 125 mm THICK AAC BLOCKS IN INTERNAL WALLS.