

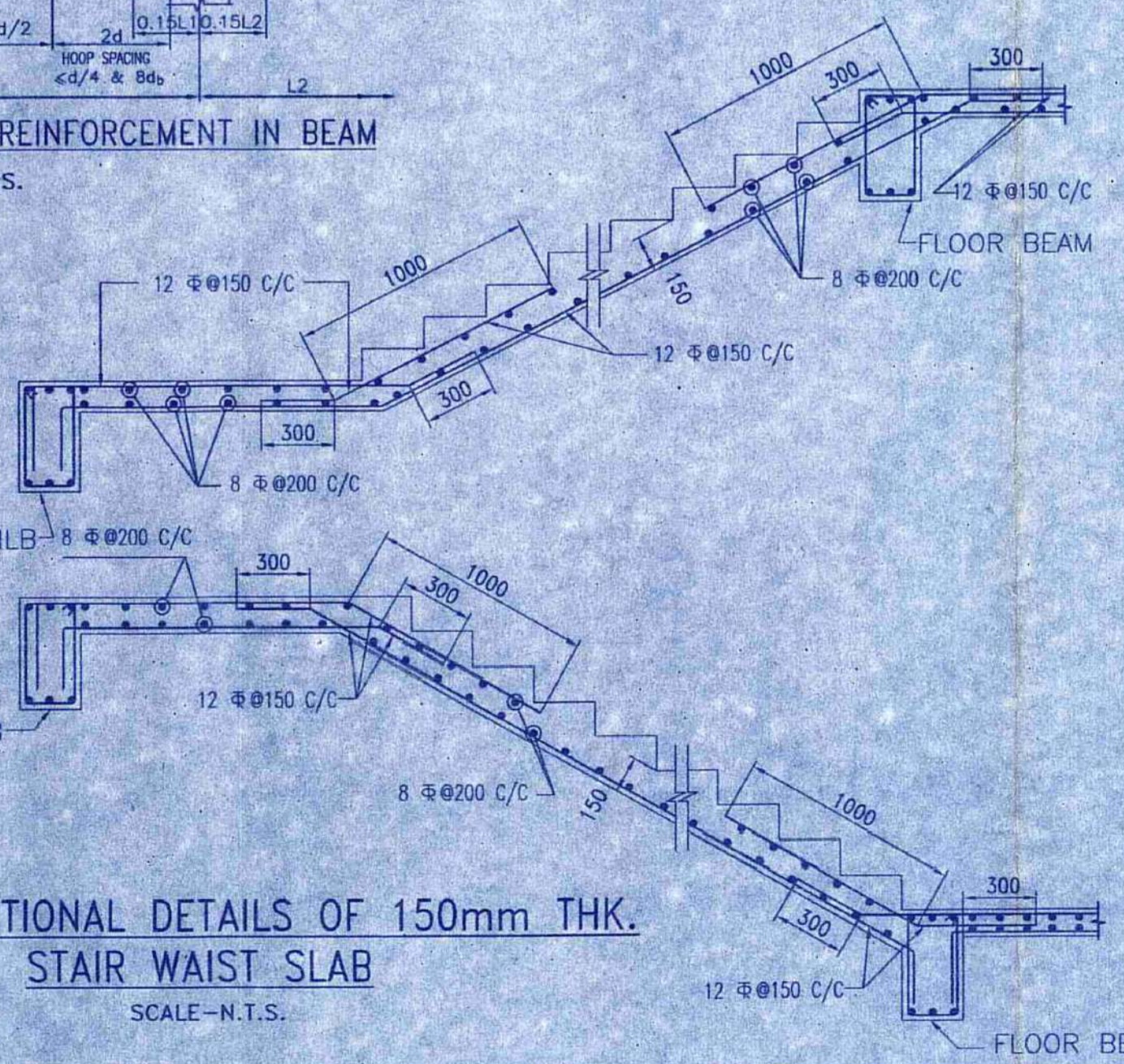
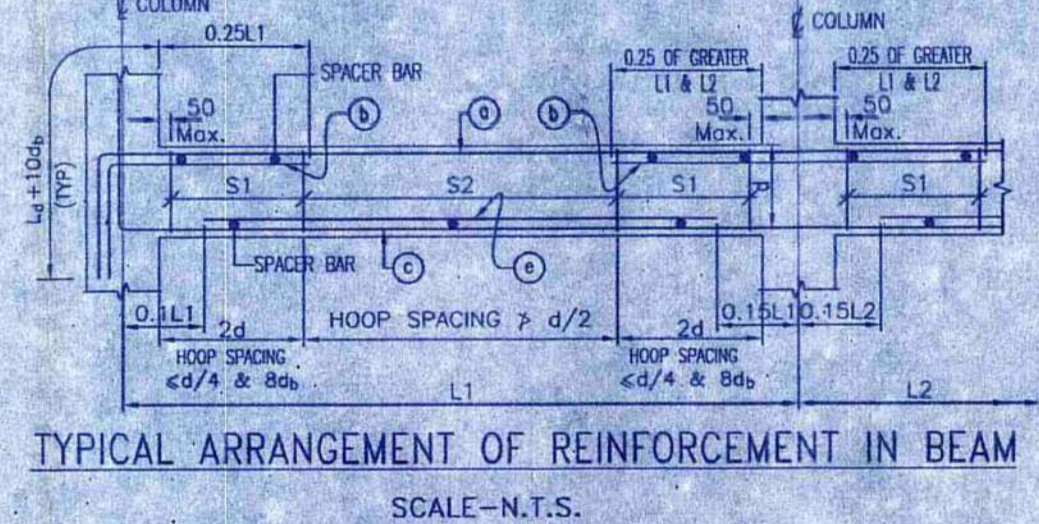
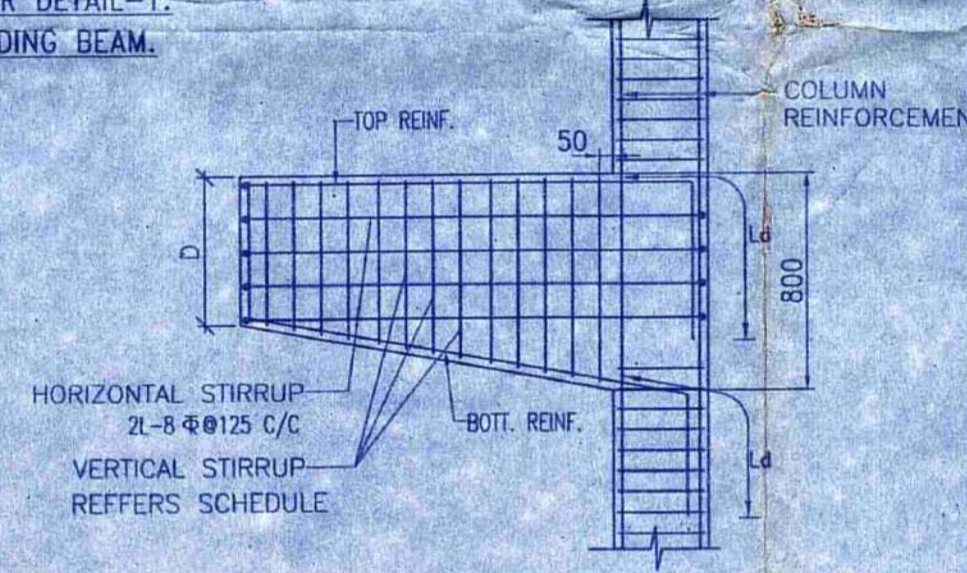
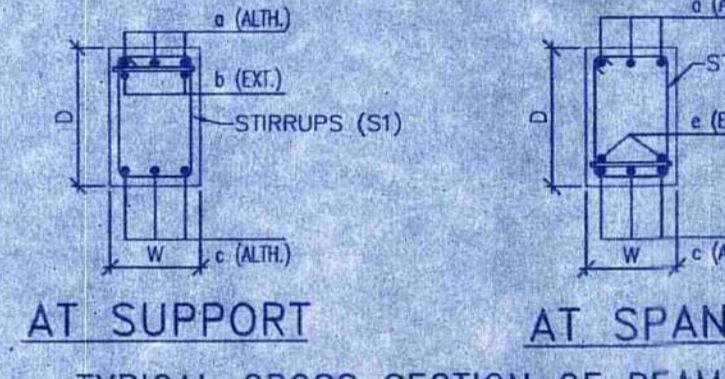
1ST FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)3.050m.
 S1 MARKED SLABS ARE 115 mm THICK.
 S2 MARKED SLABS ARE 135 mm THICK.
 HLB REFERS TO HALF LANDING BEAM.
 SCALE - 1:100

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.

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)		
FB1	250	400	3-12 ϕ	-	2-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB2	250	400	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB3	250	400	3-12 ϕ	-	3-12 ϕ	2-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB4	400	200	4-16 ϕ	-	4-16 ϕ	-	4L-8 ϕ 100 C/C	4L-8 ϕ 200 C/C
FB5	400	200	5-16 ϕ	-	5-16 ϕ	-	4L-8 ϕ 100 C/C	4L-8 ϕ 200 C/C
FB6	250	450	2-16 ϕ	-	2-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB7	250	450	2-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB8	250	450	3-16 ϕ	-	2-12 ϕ	3-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB9	250	450	2-16 ϕ	3-12 ϕ	2-12 ϕ	3-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB10	250	450	3-16 ϕ	3-16 ϕ	2-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB11	250	450	3-16 ϕ	-	2-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB12	250	450	3-20 ϕ	3-20 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB13	250	450	3-20 ϕ	-	3-20 ϕ	-	2L-10 ϕ 100 C/C	2L-10 ϕ 100 C/C
FB14	250	450	3-16 ϕ	3-20 ϕ	3-16 ϕ	2-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB15	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
FB16	250	450	3-16 ϕ	3-16 ϕ	3-16 ϕ	2-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB17	250	450	3-20 ϕ	3-16 ϕ	3-20 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB18	250	450	3-20 ϕ	2-12 ϕ	3-20 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB19	250	450	3-20 ϕ	-	3-20 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
FB20	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB21	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
FB22	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
FB23	250	450	3-16 ϕ	2-16 ϕ	3-16 ϕ	2-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB24	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
FB25	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
HLB	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)		
1FB1	250	400	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB2	250	400	3-12 ϕ	-	3-12 ϕ	2-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB3	250	400	3-12 ϕ	-	3-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB4	250	450	2-12 ϕ	-	2-12 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB5	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB6	250	450	3-16 ϕ	3-12 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB7	250	450	3-16 ϕ	3-16 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB8	250	450	3-16 ϕ	3-12 ϕ	2-16 ϕ	2-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB9	250	450	3-16 ϕ	3-16 ϕ	2-16 ϕ	3-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB10	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB11	250	450	3-16 ϕ	3-20 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB12	250	450	3-16 ϕ	3-20 ϕ	2-16 ϕ	3-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB13	250	450	3-16 ϕ	3-20 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB14	250	450	3-20 ϕ	2-20 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB15	250	450	3-20 ϕ	3-12 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB16	250	450	3-16 ϕ	3-20 ϕ	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB17	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB18	250	450	3-20 ϕ	3-20 ϕ	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB19	250	450	2-12 ϕ	-	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB20	250	450	3-16 ϕ	-	2-12 ϕ	3-12 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
1FB21	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
1FB22	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
1FB23	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
1FB24	250	450	3-16 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
1FB25	250	450	3-20 ϕ	-	2-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
HLB	250	450	3-16 ϕ	-	3-16 ϕ	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C

TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVELS (+)6.10m, (+)9.15m, (+)12.20m.
 S1 MARKED SLABS ARE 115 mm THICK.
 S2 MARKED SLABS ARE 150 mm THICK.
 S3 MARKED SLABS ARE 135 mm THICK.
 FOR * MARKED BEAM REFER DETAIL-1.
 HLB REFERS TO HALF LANDING BEAM.
 SCALE - 1:100



- 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 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.
 - 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.

TITLE
 STRUCTURAL DRAWING OF PROPOSED G+4 STORIED APARTMENT HOUSING COMPLEX BUILDING OF SRI BIDYUT BARAN MONDAL OVER L.R. PLOT NO. - 2802, KHATIAN NO. - 3405, MOUZA - ANDAL, J.L. NO- 52, P.S. - ANDAL, DIST- PASCHIM BARDHAMAN.
 SIGNATURE OF ARCHITECT/ENGINEER

Vijaya Singh Mazumder
 Ar. VIJAYA SINGH MAZUMDER
 COA Registered
 CA/2021/134276
 933262165 / 9476428105

SIGNATURE OF OWNER
Sudipta Basu Mondal

SIGNATURE OF GEO-TECHNICAL ENGINEER
Suvankar Choudhuri
 Suvankar Choudhuri
 B.C.E. M.L.G.S. I.C.W.A. M.E.
 Licence No: AMCO74/075
 Structural Engineer
 Chartered Engineer (R-85389)
 Registered Valuer (VAL-462)
 Geotechnical Consultant

SIGNATURE OF STRUCTURAL ENGINEER
Susmita Choudhury
 SUSMITA CHOUDHURY
 B.TECH (CIVIL) - WBUTU
 M.E. CONSTRUCTION - JU
 ESE - I/RIPSON/130
 ESE - II/KMC/664
 STR/NKDA/21/00010
 COVER/NKDA/10/00175
 (M)-8697517321/7003201735

SIGNATURE OF VETTING AUTHORITY
Gm

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DRAWING TITLE
 1. 1ST & TYPICAL FLOOR BEAM & SLAB LAYOUT PLAN WITH REINFORCEMENT DETAILS.
 2. DETAILS OF STAIR.
 SCALE - 1:100 OR AS SHOWN
 DATE - 22.07.2022
 SHEET NO. - 3 OF 4 SHEET SIZE - A1