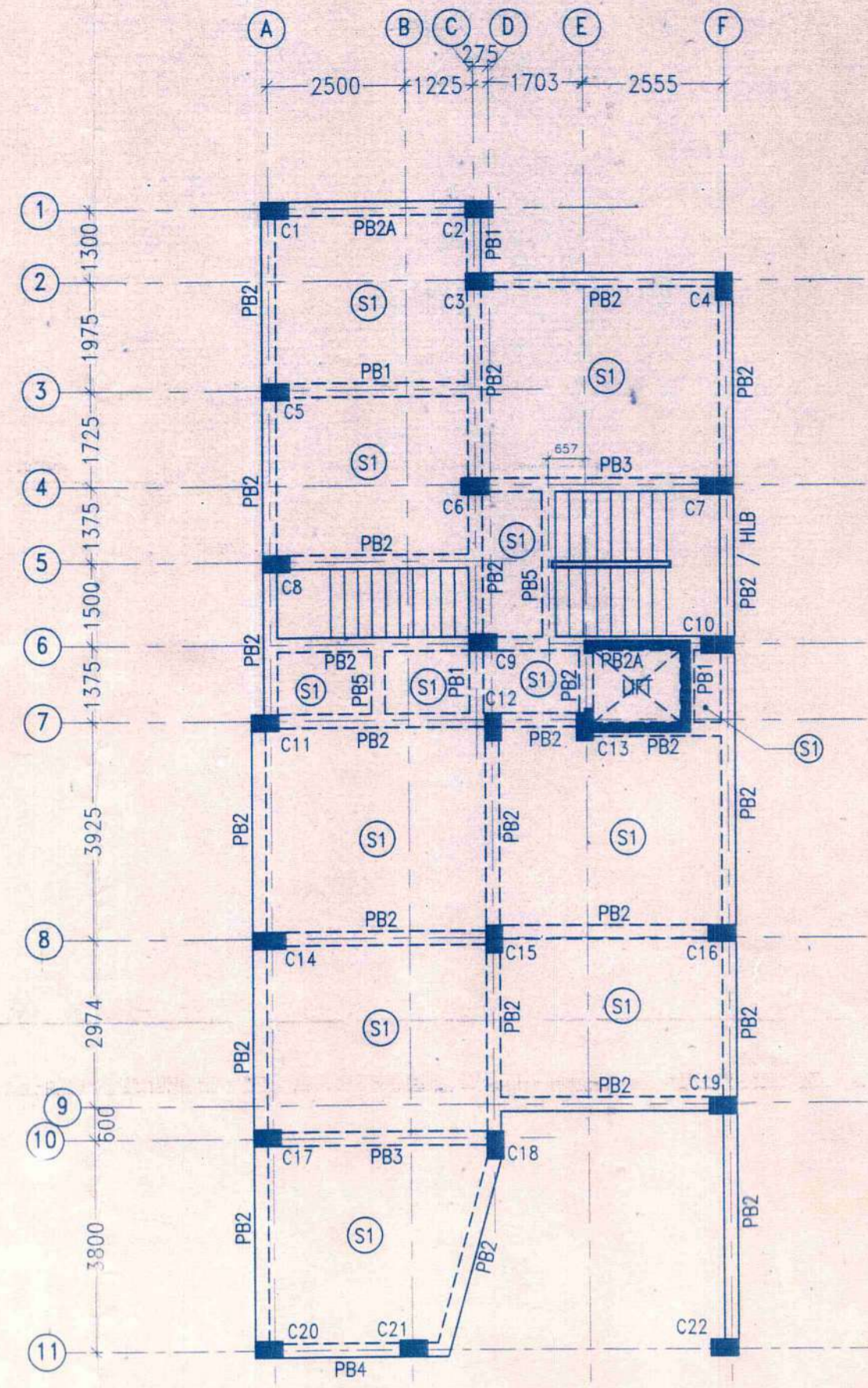
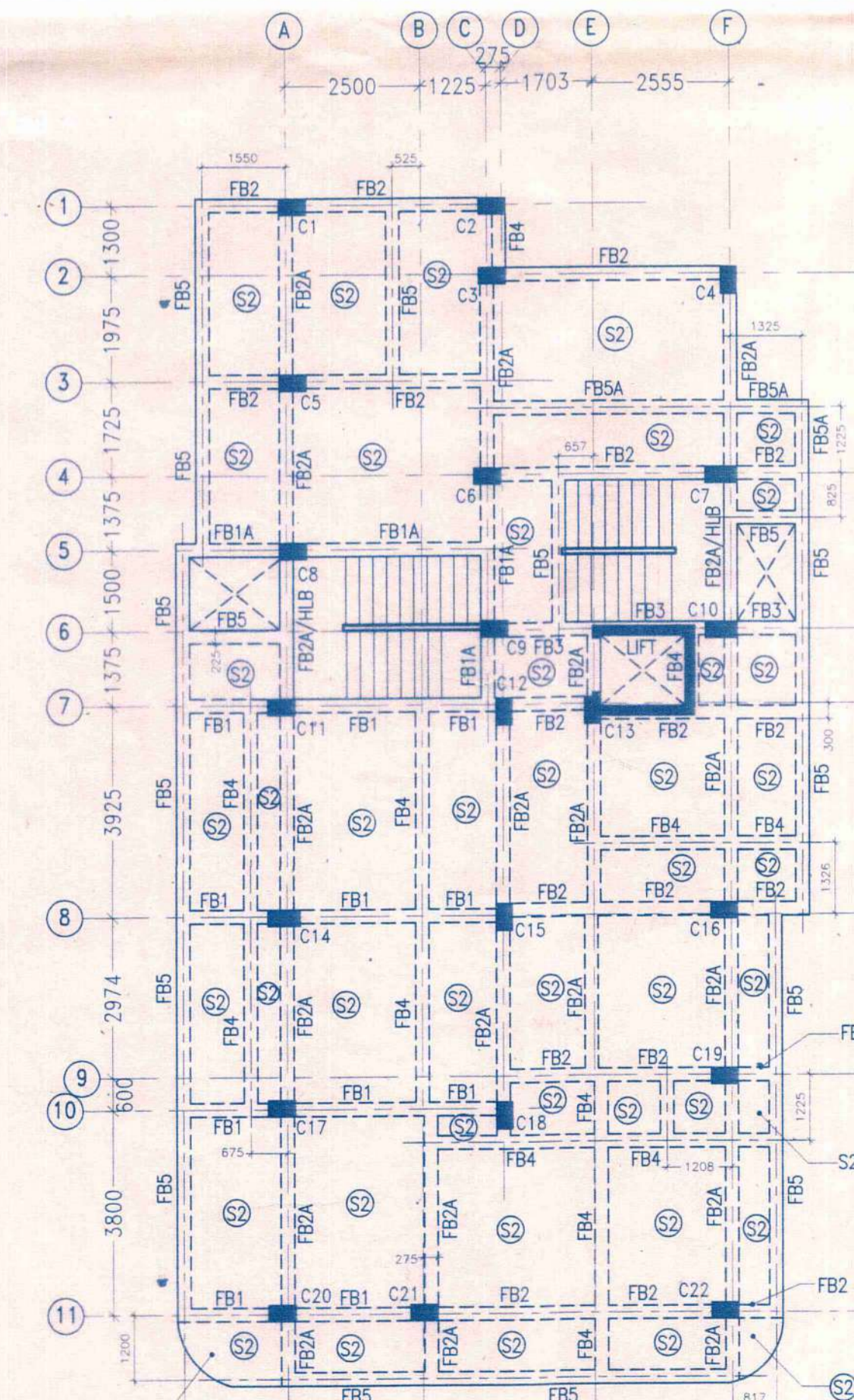


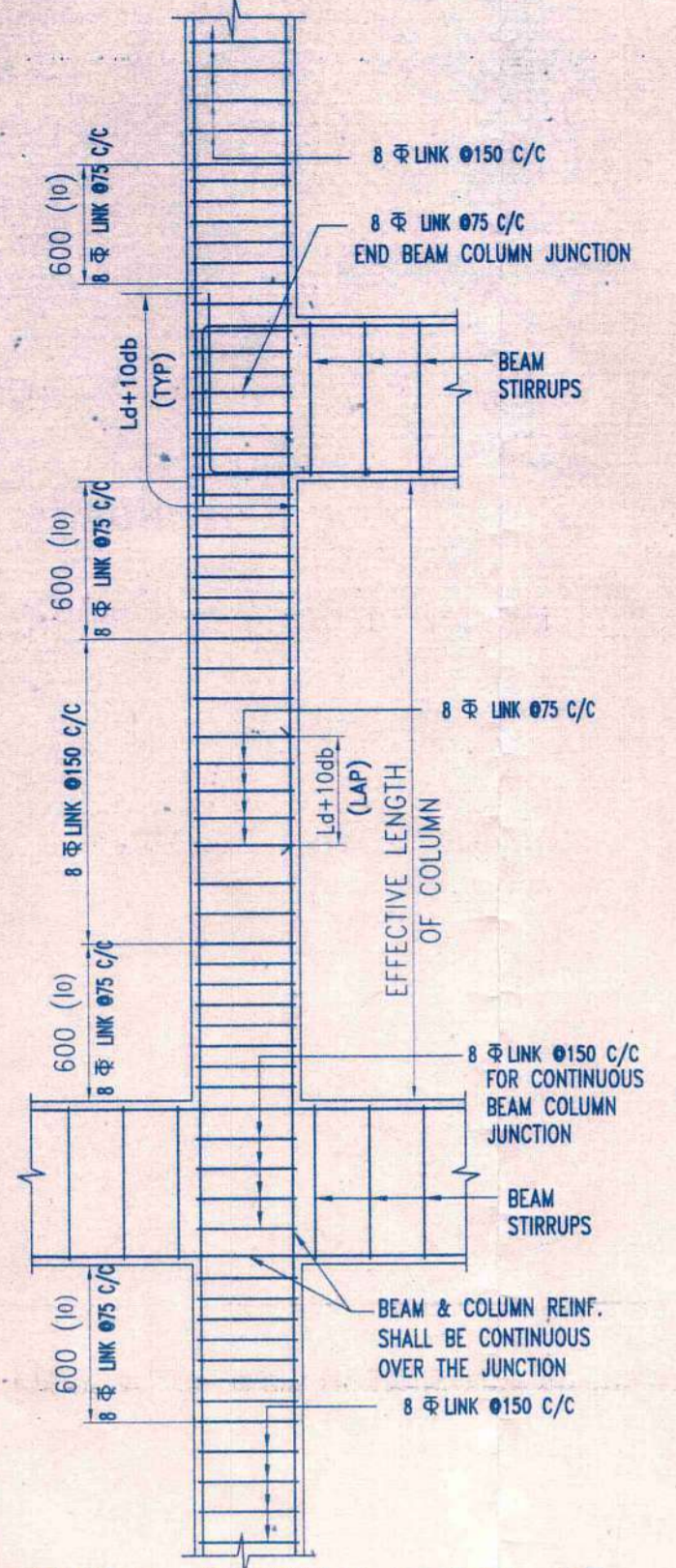
COLUMN LAYOUT PLAN
SCALE-1:100



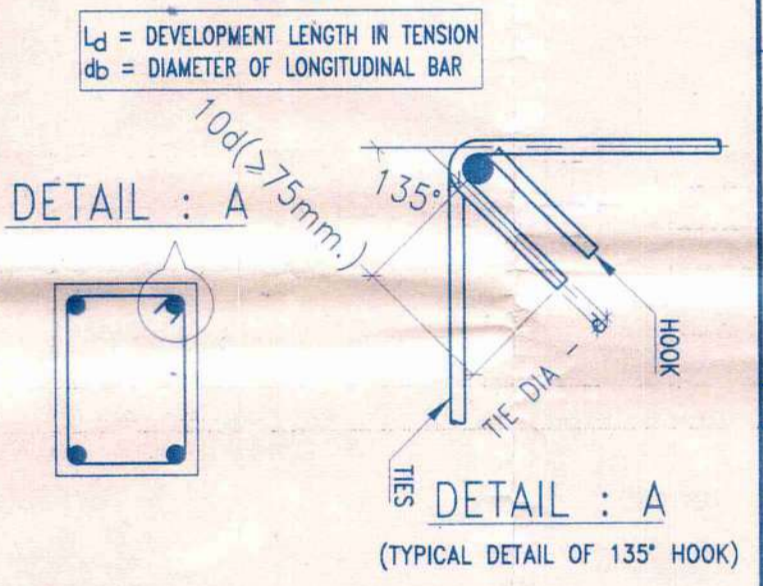
PLINTH BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)0.6 m.
S1 MARKED SLABS ARE 140 mm THICK
SCALE- 1:100



TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)3.65m, (+)6.7m, (+)9.75m, (+)12.8m, (+)15.85m.
S2 MARKED SLABS ARE 110 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE- 1:100



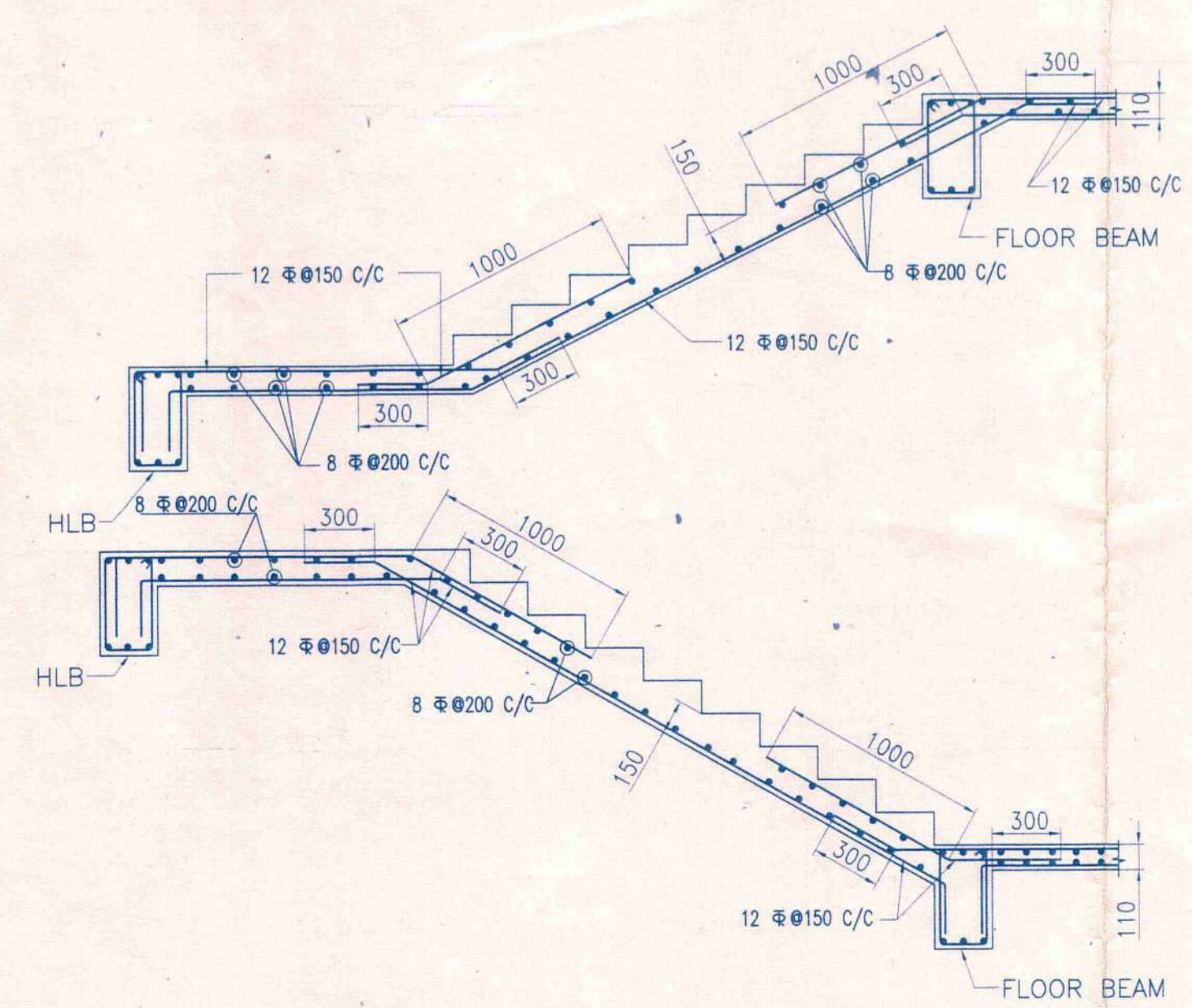
TYPICAL DUCTILE DETAIL OF
BEAM COLUMN JOINT
SCALE: 1:25



BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT) S1	STIRRUPS (AT SPAN) S2
	WIDTH (W)	DEPTH (D)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN		
PB1	250	450	3-16	-	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
PB2	250	450	3-16	2-16	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
PB2A	250	450	3-16	2-16	3-16	+3-16	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
PB3	250	450	3-16	3-16	3-16	3-16	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
PB4	250	450	3-20	3-16	3-20	+2-16	2L-10 ϕ 100 C/C	2L-10 ϕ 200 C/C
PB5	250	400	3-16	-	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
HLB	250	450	3-20	2-12	3-20	-	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)	DEPTH (D)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN		
FB1	250	500	3-20	2-20	3-20	-	2L-10 ϕ 100 C/C	2L-10 ϕ 200 C/C
FB1A	250	500	3-20	2-12	2-16	+1-20	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB2	250	450	3-16	3-16	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB2A	250	450	3-16	2-16	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB3	250	450	3-20	2-12	3-20	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB4	250	450	3-16	-	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB5	250	400	3-16	-	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C
FB5A	250	400	3-16	-	3-16	-	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C
HLB	250	450	3-20	2-16	3-20	-	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 2ND FLOOR		2ND FLOOR TO ROOF & ABOVE ROOF		STIRRUP ARRANGEMENT & SPACING	
			300	600	300	600	NEAR JUNCTION (S)	REST PORTION
C7	01	300X600	300	600	300	600	8 ϕ 075 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)
C10,C14	02	300X600	300	600	300	600	8 ϕ 075 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)
C11,C17,C20	03	300X500	300	500	300	500	8 ϕ 075 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (1 NO. OPEN LINK) (3 NOS. CLOSED LINK)
C3,C4	02	300X500	300	500	300	500	8 ϕ 075 C/C (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (3 NOS. CLOSED LINK)
C8,C15,C16, C21,C22	05	300X500	300	500	300	500	8 ϕ 075 C/C (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (3 NOS. CLOSED LINK)
C1,C2,C5,C6, C9,C12,C13, C18,C19	09	300X500	300	500	300	500	8 ϕ 075 C/C (3 NOS. CLOSED LINK)	8 ϕ 0150 C/C (3 NOS. CLOSED LINK)
STOOL COLUMN								
ST1,ST2 (ROOF TO LMR ROOF SLAB)	02	250x250	250	250			8 ϕ 0150 C/C (2 NOS. CLOSED LINK)	



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

- 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-500/50D CONFORMING TO IS-1786-2008. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 60x BAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - COLUMNS : 40 mm
 - BEAMS : 30 mm
 - SLABS : 20 mm
 - 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 60xD 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 SLABS 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.
 - ALL CANTILEVER BEAMS MUST BE CAST WITH A PRE-CAMBER OF 6mm.

TITLE
STRUCTURAL DRAWINGS OF PROPOSED (B+G+5) STORED RESIDENTIAL CUM COMMERCIAL BUILDING OF BE HOME DEVELOPERS PVT. LTD. REPRESENTED BY ITS DIRECTOR MR. KOUSHIK MUKHERJEE S/O UJJAL KANTI MUKHERJEE OVER PLOT NO. 1620 OF MOUZA DIGNALA, J.L. NO. - 43, KHATIAN NO. - 4938 , P.S. - ANDAL , DIST - PASHCHIM BURDWAN

CERTIFICATE OF ARCHITECT/ENGINEER
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.

SURANJAN DHAR
B.E. (CIVIL), M.E.
CHARTERED ENGINEER (I)
L.B.S. NO. 83/20-21
AMANJAIWAL (B. Arch, MADV (U.K.)
Registered Architect
CA/2017/84653

CHECKED & VERIFIED
DR. DIPANKAR CHAKRAVORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
JADAVPUR UNIVERSITY
KOLKATA
M.TECH (ITKGP) GOLD MEDALIST
P.E.D. (I) I.S.P.I.
(C.P.F.) 033-2457 2588
(M.O) 98501 88652 & 9833993143
EMAIL : Prof.dipankar@gmail.com

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.

BEHOME DEVELOPERS PVT. LTD.
Koushik Mukherjee
Director

DRAWING TITLE
COLUMN LAYOUT PLAN & REINFORCEMENT DETAILS, PLINTH, TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN & REINFORCEMENT DETAILS.
SCALE-1:100 OR AS SHOWN
DATE- 29.06.2020
SHEET NO. - 2 OF 3