

SCHEDULE OF COLUMN (CONCRETE GRADE - M25, STEEL GRADE- FE 500)

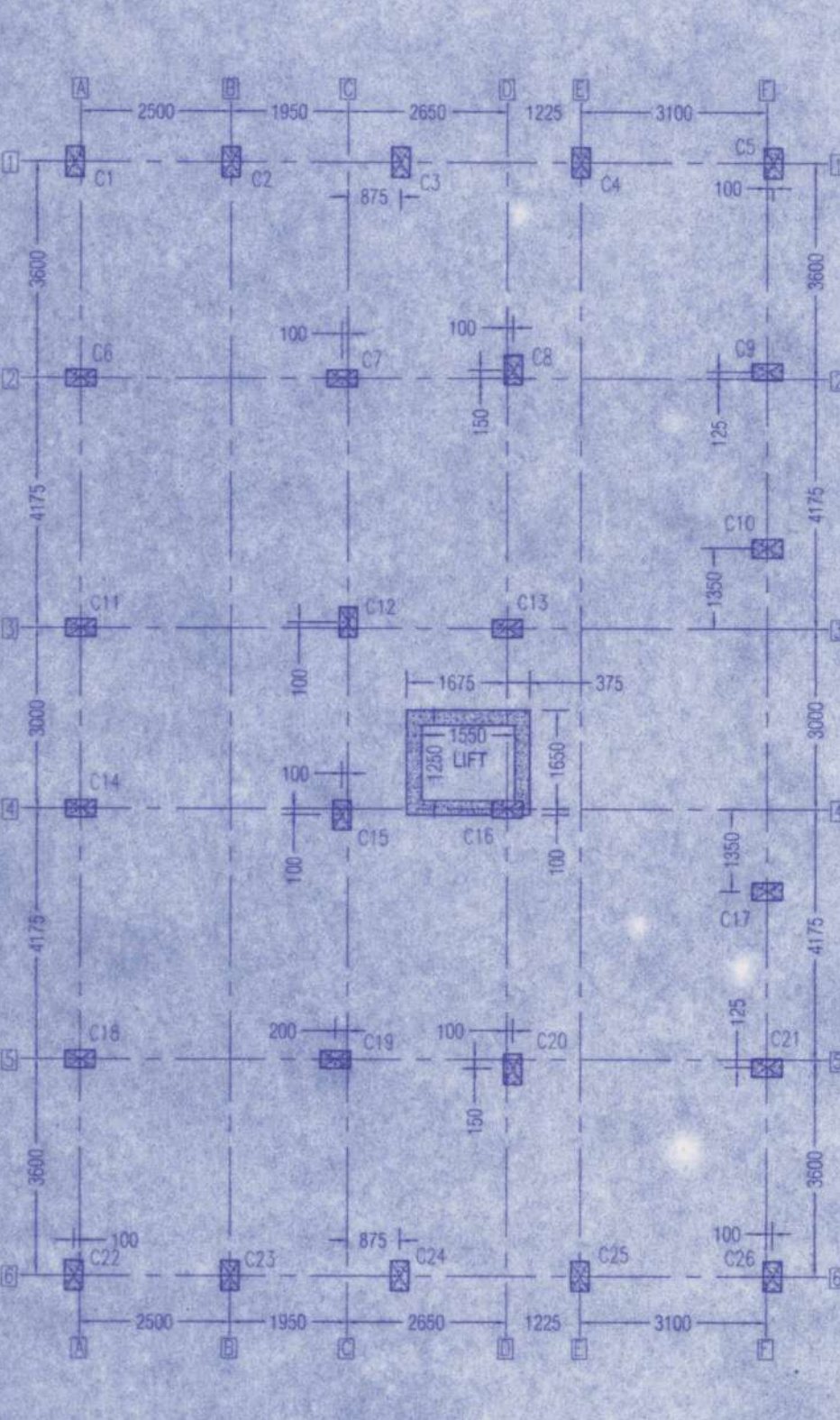
Col. Mkd	SIZE OF COLUMN WITH REINFORCEMENTS (MAIN BAR & LINK)	Q.S. OF COLUMNS	ARRANGEMENT OF LINKS
C1, C2, C5, C9, C13, C16, C21, C22, C23, C26 (10 Nos)	SIZE: (300 X 500)		
	LINKS: 8 Dia Links 750c (Zone A) 8 Dia Links 1250c (Zone B)		
	LO = 1000mm MAIN BARS:		
C3, C4, C8, C10, C12, C15, C17, C24, C25 (9 Nos)	SIZE: (300 X 500)		
	LINKS: 8 Dia Links 750c (Zone A) 8 Dia Links 1250c (Zone B)		
	LO = 1000mm MAIN BARS:		
C6, C7, C11, C14, C18, C19, C20 (7 Nos)	SIZE: (300 X 500)		
	LINKS: 8 Dia Links 750c (Zone A) 8 Dia Links 1250c (Zone B)		
	LO = 1000mm MAIN BARS:		

SCHEDULE OF PILE CAPS : (CONC. GRADE - M25, STEEL GRADE - FE 500 (HYSD))

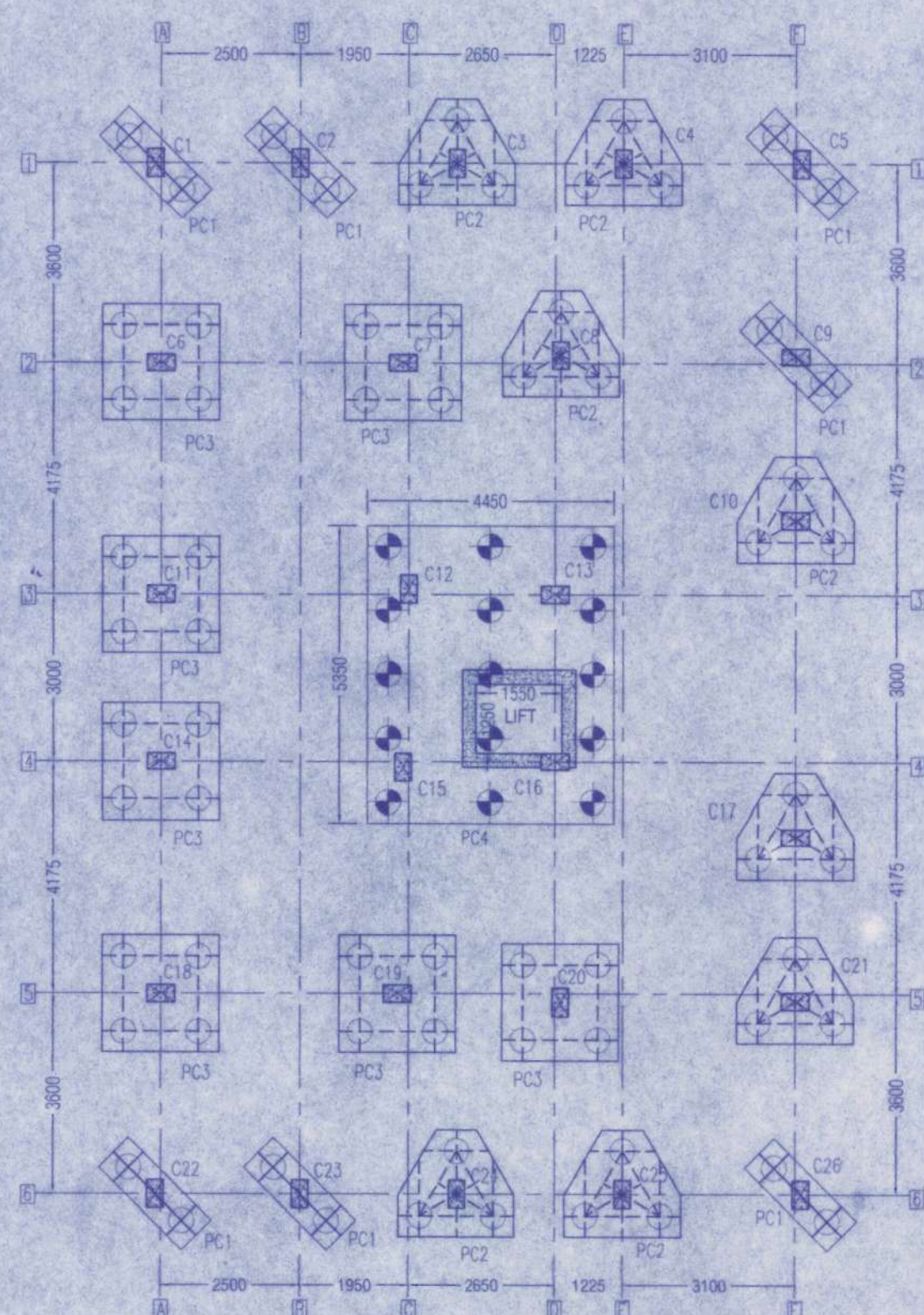
PILE CAP MKD	PILE CAP SIZE (MM)		NO OF PILE	DEPTH (MM)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS	SIDE FACE BARS
	LENGTH	BREADTH			ALONG LONGER SPAN	ALONG SHORTER SPAN	ALONG LONGER SPAN	ALONG SHORTER SPAN		
PC1 (7 Nos)	2100	750	2	800	16 dia @ 150 C/C	16 dia @ 150 C/C	12 dia @ 150 C/C	12 dia @ 150 C/C	4L-10dia @ 150c/c	12 dia @ 150c/c
PC2 (8 Nos)	AS PER DIMENSION		3	850	16 dia @ 150 C/C	16 dia @ 125 C/C	12 dia @ 150 C/C	12 dia @ 125 C/C	-----	12 dia @ 150c/c
PC3 (7 Nos)	2100	2100	4	850	16 dia @ 150 C/C	16 dia @ 150 C/C	12 dia @ 150 C/C	12 dia @ 150 C/C	-----	12 dia @ 150c/c
PC4 (1 Nos)	4450	5300	15	850	20 dia @ 150 C/C	20 dia @ 150 C/C	16 dia @ 125 C/C	16 dia @ 125 C/C	-----	12 dia @ 150c/c

SCHEDULE OF SLABS: (CONCRETE GRADE - M25)

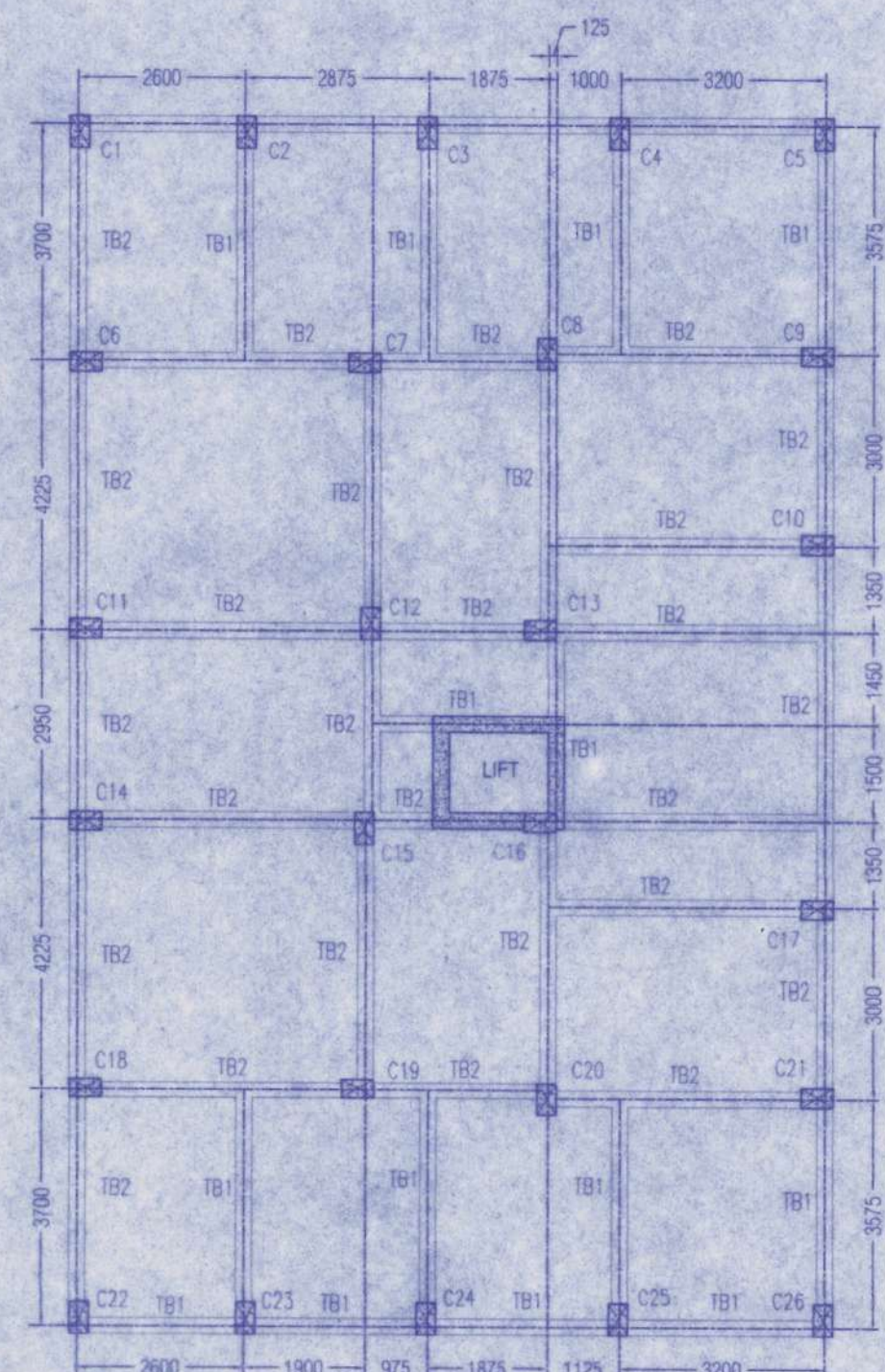
SLAB MKD	SLAB THK	SHORTER SPAN REINFORCEMENT DETAILS (BOTTOM)	LONGER SPAN REINFORCEMENT DETAILS (BOTTOM)	SHORTER SPAN REINFORCEMENT DETAILS (EXT. TOP)	LONGER SPAN REINFORCEMENT DETAILS (EXT. TOP)
S1	125	8 dia @ 150 C/C	8 dia @ 150 C/C	8 dia @ 150 C/C	8 dia @ 150 C/C
S1A	125	8 dia @ 150 C/C	BINDER - 8 dia @ 150 C/C	BINDER - 8 dia @ 150 C/C	BINDER - 8 dia @ 150 C/C
WAST SLAB	175	12 dia @ 100 C/C	BINDER - 8 dia @ 150 C/C	BINDER - 8 dia @ 150 C/C	BINDER - 8 dia @ 150 C/C
BINDER		8 dia @ 200 C/C	(AT TOP)		



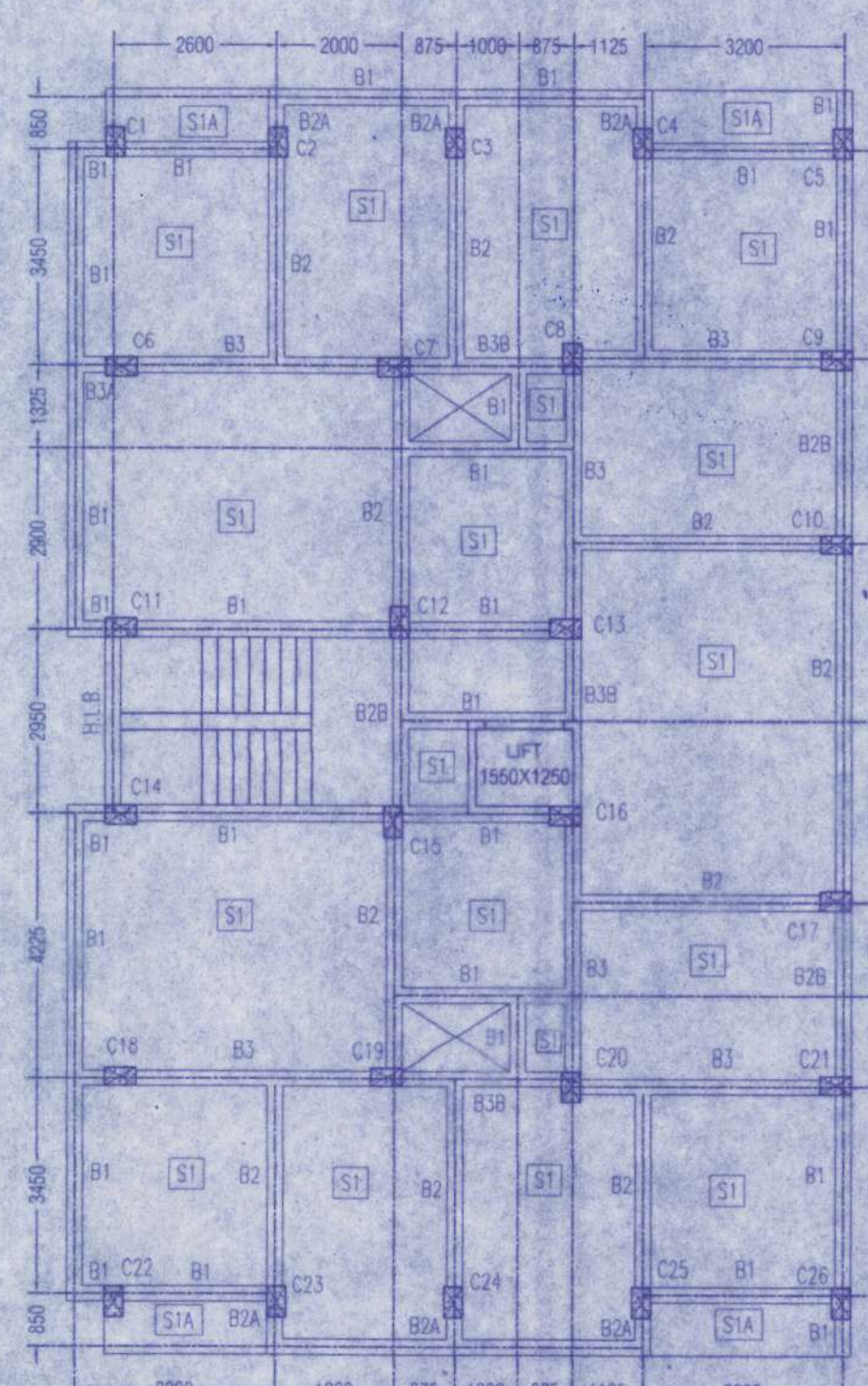
CENTERLINE OF COLUMN
SCALE :- 1:100



PILE FOUNDATION LAYOUT PLAN
SCALE :- 1:100
TOTAL NO OF PILE: 81



TIE BEAM LAYOUT PLAN
SCALE :- 1:100



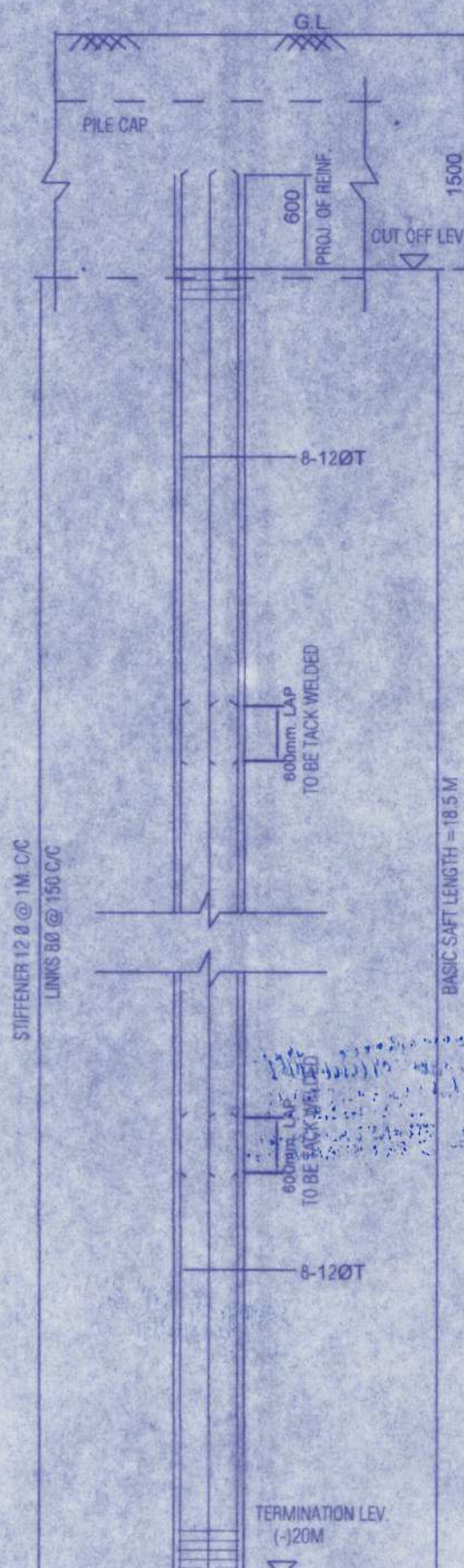
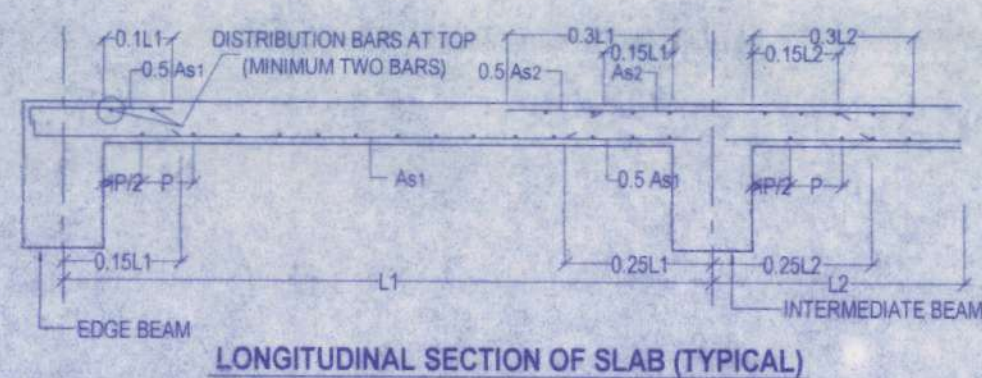
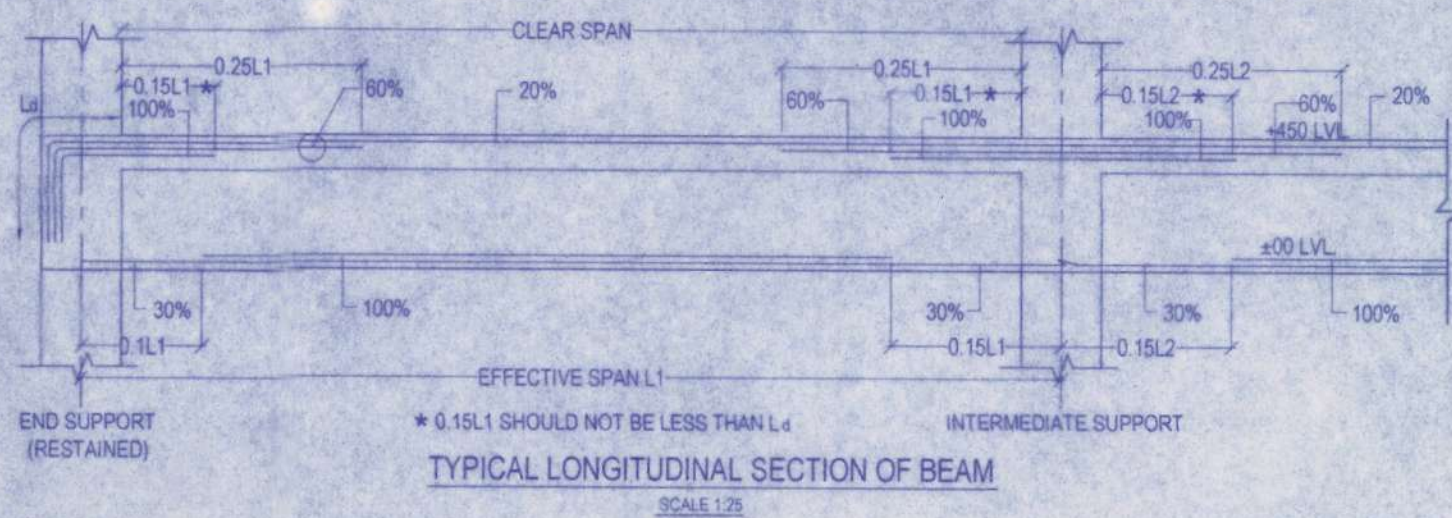
TYPICAL FLOOR SLAB & BEAM LAYOUT PLAN
SCALE :- 1:100

SCHEDULE OF FLOOR BEAM (CONCRETE GRADE - M25, STEEL GRADE- FE 500)

BEAM MKD.	WIDTH	DEPTH	ALTHROUGH TOP	ALTHROUGH BOTTOM	CONT. SUPPORT (EXT. TOP)	MID SPAN (EXT. BOTTOM)	DISCONT. SUPPORT (EXT. TOP)	STIRRUPS AT SUPPORT.	STIRRUPS AT SPAN.
B1	250	450	3 - 16dia	3 - 16dia	---	---	---	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B2	250	450	3 - 16dia	3 - 16dia	2 - 12dia	2 - 12dia	2 - 12dia	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B2A	250	450	3 - 16dia	3 - 16dia	2 - 12dia	---	2 - 12dia	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B2B	250	450	3 - 16dia	3 - 16dia	2 - 12dia	---	---	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B3	250	450	3 - 16dia	3 - 16dia	2 - 16dia	2 - 16dia	2 - 16dia	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B3A	250	450	3 - 16dia	3 - 16dia	2 - 16dia	---	2 - 16dia	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
B3B	250	450	3 - 16dia	3 - 16dia	2 - 16dia	---	---	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C
H.L.B	250	400	3 - 16dia	3 - 16dia	---	2 - 16dia	---	2L-8dia @ 75 C/C	2L-8dia @ 125 C/C

SCHEDULE OF TIE BEAM (CONCRETE GRADE - M20, STEEL GRADE- FE 500)

BEAM MKD.	WIDTH	DEPTH	ALTHROUGH TOP	ALTHROUGH BOTTOM	CONT. SUPPORT (EXT. TOP)	MID SPAN (EXT. BOTTOM)	DISCONT. SUPPORT (EXT. TOP)	STIRRUPS AT SUPPORT.	STIRRUPS AT SPAN.
TB1	250	400	3 - 16dia	3 - 16dia	---	---	---	2L-8dia @ 175 C/C	2L-8dia @ 200 C/C
TB2	250	400	3 - 16dia	3 - 16dia	2 - 10dia	2 - 12dia	2 - 12dia	2L-8dia @ 175 C/C	2L-8dia @ 200 C/C



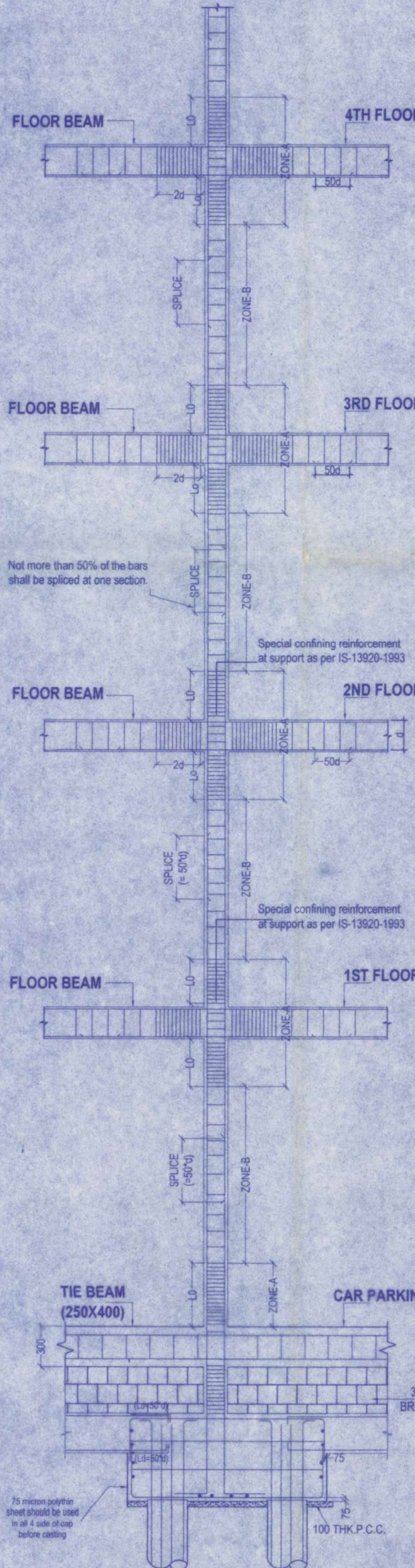
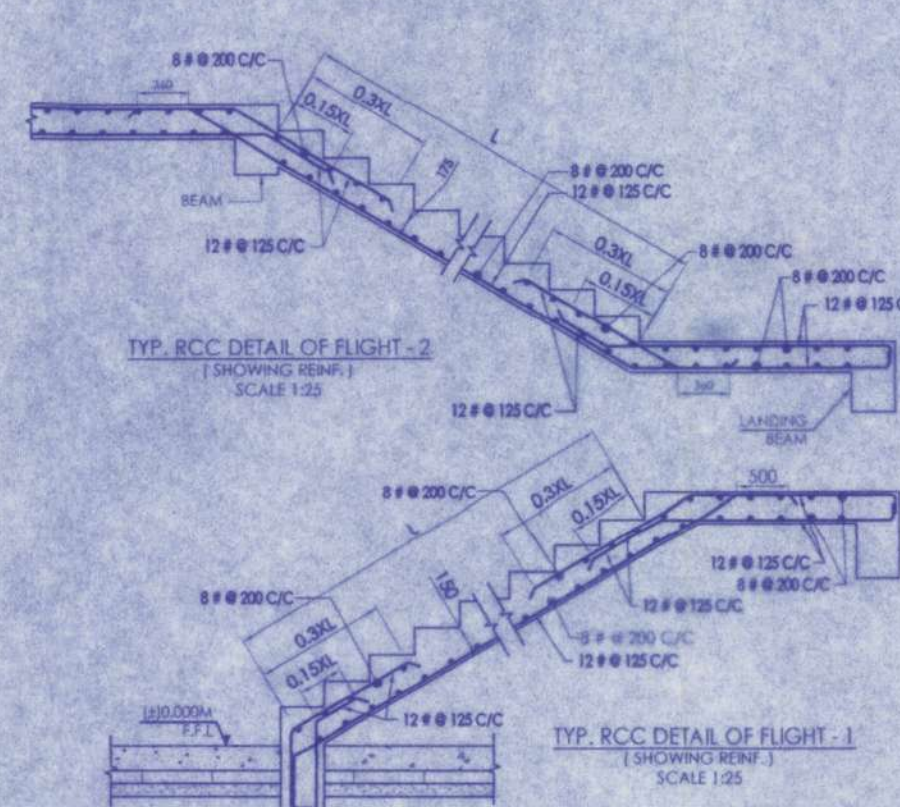
500 DIA BORED CAST-IN-SITU PILE



8-12T

BINDER : 8T HELICAL; PITCH 150
STIFFENER RING : 12T @ 1000 C/C
(SHAFT LENGTH OF PILE 18.5m)
CROSS SECTION OF PILE
SCALE - 1:25

1. PILE DIA = 450mm
2. LENGTH OF PILE = 20m
3. AXIAL CAPACITY OF PILE = 32T
4. CLEAR COVER = 50 MM
5. TOTAL NO. OF PILE = 81 NOS.
6. CUT OFF LENGTH = 1.5 m.



TYP. SECTION OF COLUMN
SCALE = 1:25

STRUCTURAL DRAWING

PROPOSED PLAN FOR CHIV. STORED RESIDENTIAL, CUM COMMERCIAL BUILDING PLAN OF "SUDESHNA MONDAL" AT MOUZA - JATARGACHI, J.I. NO. - 24, P.S. NO. - 135, P.S. & L.R. DAG NO. - 1246 & 1248 (P), L.R. KHATAN NO.-2650 & 2515, P.S - RAJAPPAH AT PRESENT NEW TOWN, DIST. (NORTH) 24 PARGANAS, UNDER - JANGRA, HATARA NO. 2 GRAM PANCHAYET.

DEVELOPED BY:- IDEAL CONSTRUCTION

STRUCTURAL NOTES :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
- 2) GRADE OF CONCRETE = M25
- 3) GRADE OF STEEL = H.Y.S.D. (Fe 500)
- 4) DO NOT SCALE THE DRAWING, WRITTEN DIMENSIONS ARE TO BE FOLLOWED
- 5) BASIS OF DESIGN IS LIMIT STATE METHOD
- 6) LAPS & ANCHORAGE OF REIN. 50 TIMES DIA OF BARS
- 7) CLEAR COVER TO MAIN REINFORCEMENT PILE = 50MM, PILE CAP = 75MM, BEAM = 25 MM, COLUMN = 40 MM, SLAB = 20 MM
- 8) BEARING CAPACITY OF SOIL CONSIDERED AS PER SOIL TEST REPORT.
- 9) THIS DRAWING IS A PRIVATE & CONFIDENTIAL DOCUMENT OF THE CONSULTANT. IT MUST NOT BE COPIED OR CHANGED WITHOUT THEIR CONSENT.

CERTIFICATE OF OWNER

I SHALL NOT CONSTRUCT THE BUILDING IN DEVIATION OF THE SUBMITTED PLANS AND DRAWINGS

IDEAL CONSTRUCTION
Raja Ray
Partner

IDEAL CONSTRUCTION
Rim Pa Sankar
Partner

IDEAL CONSTRUCTION
Sanjina Sultana
Partner

SIGNATURE OF OWNER

CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT HAVE BEEN PREPARED BY ME COMPLYING WITH THE PROVISION OF NEW TOWN KOLKATA PLANNING AREA (BUILDING) RULES, 2014. NO SUCH WRITING & INCORRECT INFORMATION HAS BEEN FURNISHED BY ME INCLUDING AREA CALCULATION CHARTS IN THIS DRAWING & NO VIOLATION OF THE PROVISION OF THESE RULES WILL BE FOUND IN ANY OF THE DRAWINGS & DOCUMENTS SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

Anirudhya Das
Registered Architect
Reg. No. CA/2021/130177

SIGNATURE OF ARCHITECT

CERTIFICATE OF ENGINEER

I CERTIFY THAT THE STRUCTURAL DRAWING & DESIGN OF BOTH THE FOUNDATION & SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT (AS PER THESE RULES, REGULATIONS & CODE MADE) & ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD & THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER CURRENT CODES OF BUREAU OF INDIA STANDARD & NATIONAL BUILDING CODE OF INDIA & CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT OF TO 6/4M STORES & THESE PROVISION SHALL BE ADHERED TO DURING THE CONSTRUCTION.

Abhrajana Dhar
Structural Engineer
M.Tech (Struct), B.Tech (Civil)
Reg. Under N.K.D.A, K.M.C
STERNKDA/10/00251
CV/ENRKNDA/10/00277

SIGNATURE OF ENGINEER

CERTIFICATE OF GEOTECHNICAL ENGINEER

IT IS CERTIFIED THAT COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN & CALCULATION OF THE FOUNDATION BY ANALYSING THE SOIL SAMPLES FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED. I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXPOSED UP TO THE APPROPRIATE DEPTH. THAT HAS BEEN PROPOSED IN THE GEOTECHNICAL REPORT.

S. K. Mandal
B.E. (Civil), M.T.E. (M.T.E. 341) O.S. 1002/042
L.R.S. Chait (M.T.E. 341) J.E.E-II
Consulting Chartered Engineer
Structural & Geotechnical Engineer
SES-1099, LBS-VIAD
Reg. Under N.K.D.A.
And SES-1099, TECH-1
Recommended by M.E.P. Govt. of W.B.

SIGNATURE OF GEOTECHNICAL ENGINEER

VETTED
Dipesh Majumdar

Dr. Dipesh Majumdar
B.E. (Structure), PhD
Assistant Professor
Department of Construction Engineering
Jadavpur University

SIG. OF PROFESSOR

STRUCTURAL CONSULTANT:



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DRAWING TITLE:

PILE & PILE CAP LAY-OUT, THE BEAM LAYOUT, FRAMING PLAN OF TYPICAL FLOOR LEVEL, SCHEDULE OF SLAB, FLOOR BEAM, TIE BEAM, PILE CAP, COLUMNS, SECTION OF LIFT WELL & PILE CAP, PILE & LONGITUDINAL SECTION OF BEAM.

DRAWN BY :- MUILY SAHA

CHECKED BY :- ABHRAJANA DHAR



DRAWING No :- STRUC/01
SCALE 1:100, 1:50, 1:25
DATE: 13.09.2024