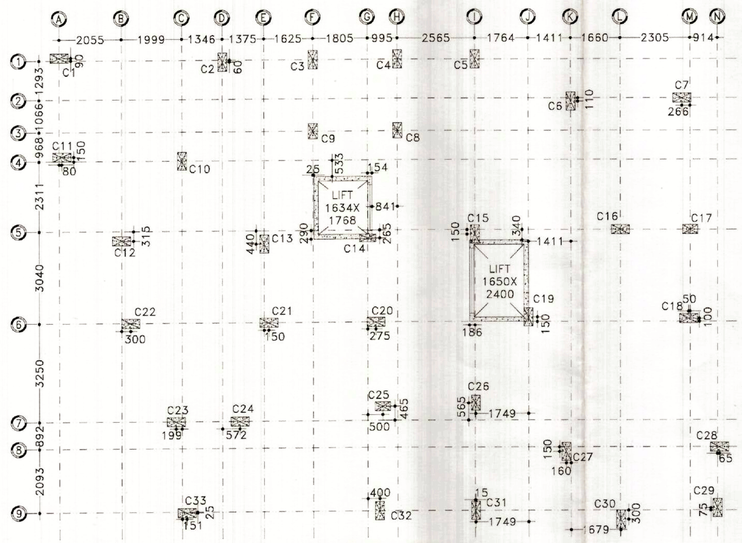
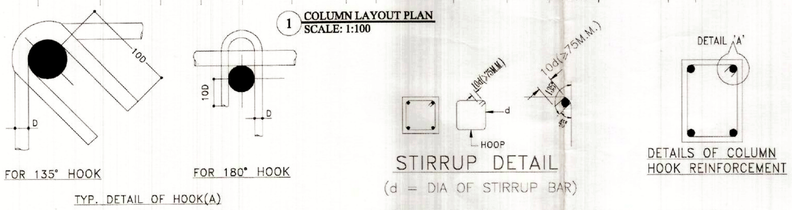
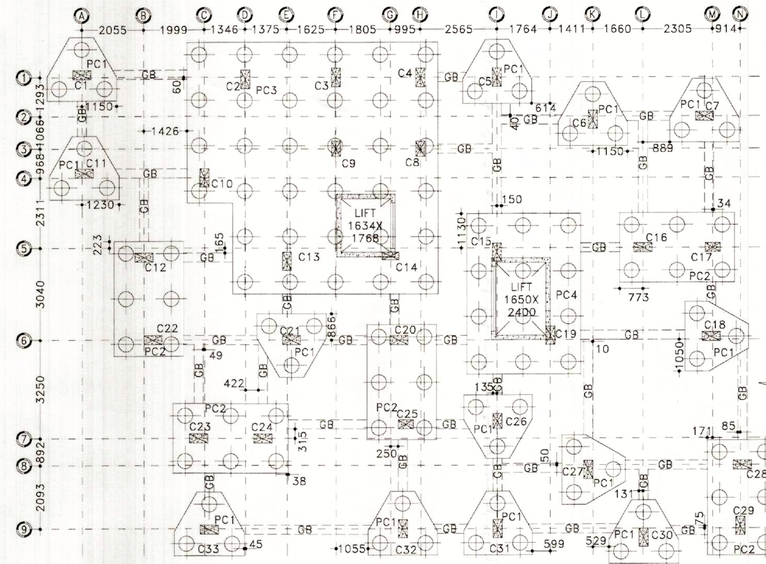


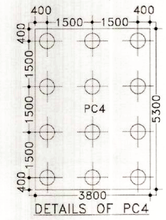
1 **COLUMN LAYOUT PLAN**
SCALE: 1:100

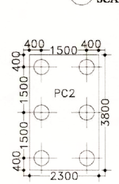


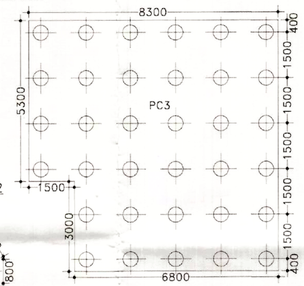
TYP. DETAIL OF HOOK(A)

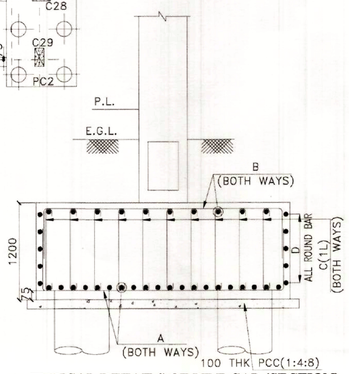


1 **FOUNDATION LAYOUT PLAN**
SCALE: 1:100

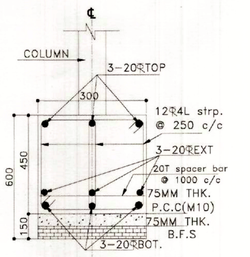




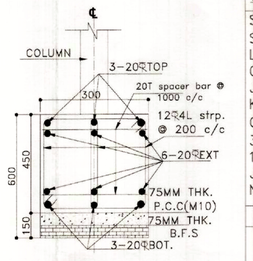




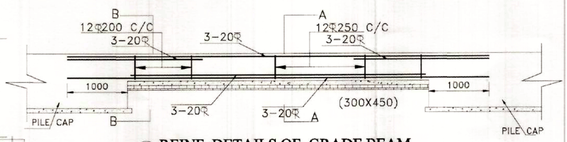
2 **TYPICAL DETAILS OF PILE CAP (SECTION)**
SCALE: 1:50



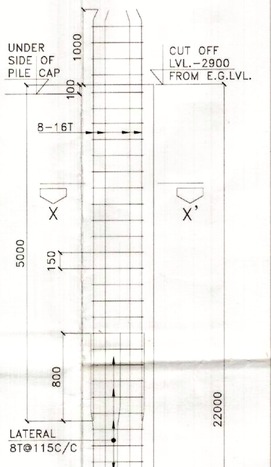
SECTION:- A-A
SCALE - N.T.S



SECTION:- B-B
SCALE - N.T.S

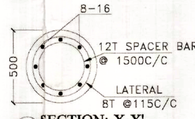


5 **REINF. DETAILS OF GRADE BEAM**
SCALE: 1:100



TYPICAL DETAIL OF 500ϕ PILE

4 **TYPICAL DETAILS OF 500 DIA PILE**
SCALE: 1:50



4A **SECTION:-X-X'**
SCALE: 1:50

2 .SCHEDULE OF PILE — MIN CEMENT CONTENT IN CONCRETE SHALL BE = 400kg/m³

LEGEND	DIA OF PILE (MM)	CUT-OFF LEVEL (M)	PILE LENGTH (M)	MAIN REINFORCEMENT	PILE CAPACITY SAFE WORKING LOAD IN TONS COMPRESSION	TENSION	LATERAL	REMARKS
⊕	500 DIA	EL.(-)2900 EXCEPT PILES UNDER LIFT PIT	22.0	8-16ϕ(ALTH)	-	-	-	CUT OFF LEVEL IS (-) 4.5 LEVEL FROM E.G.L. FOR LIFT

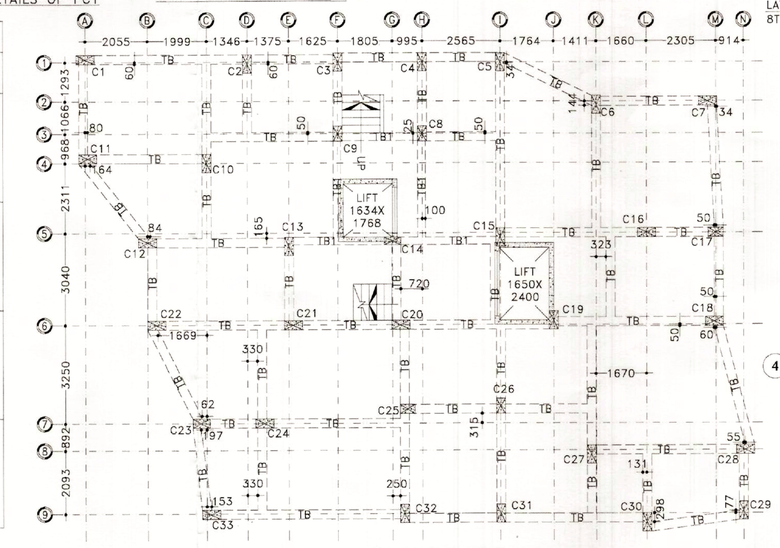
NOTE:- ABOVE ARE THE PILE DETAILS ADOPTED. THESE MUST BE ENSURED AT SITE BY PILE LOAD TEST.

1.SCHEDULE OF COLUMNS

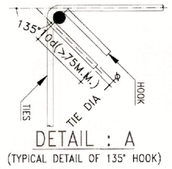
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 3RD FLOOR LONGITUDINAL REINFORCEMENT	4TH FLOOR TO 7TH FLOOR LONGITUDINAL REINFORCEMENT	8TH FLOOR TO ROOF LONGITUDINAL REINFORCEMENT	TIE	SHAPE OF STIRRUPS
C1,C2,C3,C4, C5,C6,C7,C11, C12,C18,C22, C23,C28,C29, C30,C31,C32,C33.	18	600X300	REINFORCEMENT: 12-25ϕ●	REINFORCEMENT: 10-25ϕ● 2-20ϕ○	REINFORCEMENT: 8-25ϕ● 4-20ϕ○	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS:8-@75C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS:8-@150C/C (4 NOS. CLOSED LINK PER SET)	
C10,C13,C15, C16,C19,C20, C21,C24,C27.	09	600X300	REINFORCEMENT: 10-25ϕ● 2-20ϕ○	REINFORCEMENT: 8-25ϕ● 4-20ϕ○	REINFORCEMENT: 6-25ϕ● 6-20ϕ○	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS:8-@75C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS:8-@150C/C (4 NOS. CLOSED LINK PER SET)	
C14.	01	550X300	REINFORCEMENT: 10-25ϕ● 2-20ϕ○	REINFORCEMENT: 8-25ϕ● 4-20ϕ○	REINFORCEMENT: 6-25ϕ● 6-20ϕ○	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS:8-@75C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS:8-@150C/C (4 NOS. CLOSED LINK PER SET)	
C8,C9,C17, C25,C26.	05	500X300	REINFORCEMENT: 10-25ϕ●	REINFORCEMENT: 8-25ϕ● 2-20ϕ○	REINFORCEMENT: 6-25ϕ● 4-20ϕ○	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS:8-@75C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS:8-@150C/C (4 NOS. CLOSED LINK PER SET)	

TABLE NO:-02 (SCHEDULE OF PILE CAP)

PILE CAP MARKED	NAME OF COLUMN	CAP SIZE LENGTH (mm)	CAP SIZE WIDTH (mm)	THICKNESS (mm)	DIA OF PILE	BOTTOM REINFORCEMENT(A) ALONG LONGER DIRECTION	BOTTOM REINFORCEMENT(A) ALONG SHORTER DIRECTION	TOP REINFORCEMENT(B) ALONG LONGER DIRECTION	TOP REINFORCEMENT(B) ALONG SHORTER DIRECTION	C LINK(C) (BOTH DIRECTION)	SIDE FACE REINFORCEMENT (D)	CUT OFF LEV.
PC1(3P)	C1,C5,C6,C7, C11,C18,C21, C26,C27,C30, C31,C32,C33	SEE LAYOUT PLAN		1200	500 ø	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	-2.90 M
PC2(6P)	(C12,C22),(C16,C17) (C20,C245),(C23,C24) (C28,C29)	SEE LAYOUT PLAN		1200	500 ø	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	-2.90 M
PC3(34P)	(C2+C3)+(C4+C8)+ (C9+C10)+(C13+C14) +(LIFT)	SEE LAYOUT PLAN		1200	500 ø	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	-4.5 M
PC3(12P)	(C15+C19+LIFT)	SEE LAYOUT PLAN		1200	500 ø	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	20ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	-4.5 M



1 **TIE BEAM LAYOUT PLAN**
SCALE: 1:100



DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

MANOJ MAITY
Civil / Geotechnical Engineer
Cal. Univ. Regd. No. 2478
Lic. No.- LBPM/163/AMC
G.I.D.S., Durgapur - 16

SIGNATURE OF STRUCTURAL ENGINEER:-

Hitesh Ghosh
Structural Engineer
Lic No.- L.B.P.M/163/AMC-DMC/BPD/165
DCE, B.TECH, G.I.D.S. Durgapur-16
Contact No.- 9333233331

PROJECT NAME:-

STRUCTURAL DRAWING OF PROPOSED (G+9) TEN STORIED RESIDENTIAL APPARTMENT (BLOCK- A) OF LAND OWNER:- SRI ASHOK GHOSH, SMT.LAKSHMI GHOSH,SMT.SIKHA GHOSH,SMT.SANCHITA GHOSH,SMT. JAYANTI MITRA,SRI AVIJIT GHOSH,SRI MITHILESH KUMAR SINGH,SRI PRANABENDU MISRA OVER R.S PLOT NO:- 307(P),307(P)/c,307(P)/b, 307(P)/a,L.R. PLOT:- 529, L.R. KHATIAN NO.:- 1924,1925,2632,2633,2634,2635,2636,2637 J.L NO. -109, OF MOUZA - SANKARPUR, P.S.- N.T.P.S. DIST.- PASCHIM BARDHAMAN.

NOTES :-

1. (±) 0.00 m LEVEL REFERS TO E.G.L.
2. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
3. 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.
4. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
5. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
6. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
7. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
8. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50xBAR DIA.
9. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C
10. CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:- a)Beam:-25mm, b)Column:-40mm, c)Slab:-15mm, d)Footing:-50mm, e)R.C.C Wall:-20mm, f) Stair:- 20mm.
9. Grade of concrete will be M30 for column and M25 for beam and sub structure as per Is: 456:2000.
10. Development length 50xD for lap & spices should be provided as per the provisions laid down in SP34:1987

SIGNATURE OF DEVELOPER/OWNER:-

TARASHREE BUILDERS & DEVELOPERS
Arijit Ghosh
Partner

SIGNATURE OF ARCHITECT:-

Hitesh Ghosh
Consultant Civil Engineer (Class-A)
Lic No.- L.B.P.M/163/AMC-DMC/BPD/165
DCE, B.TECH, G.I.D.S. Durgapur-16
Contact No.- 9333233331

VETTED BY:-

DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.B)

Approved Plan No. 72 ..... on Meeting No. B/2022-23 Date 27/02/2023
Valid upto 05/02/2025
Mallika Kotal 06/09/23
Prodhan
Jemua Gram P.

TITLE:-

COLUMN LAYOUT, SCHEDULE OF COLUMN,FOUNDATION LAYOUT,SCHEDULE OF FOUNDATION SECTIONAL DETAILS OF GRADE BEAM,SECTIONAL DETAILS OF PILE CAP,SECTIONAL DETAILS OF PILE FOUNDATION,STIRRUPS DETAILS,TIE BEAM LAYOUT PLAN.

DRAWN BY:- A BADHIYAKAR, A BHATTACHARJEE

CHECKED BY:- S AKHTAR

SCALE : 1:100, 1:50, 1:25, N.T.S

REV-00

DATE : 16.11.2022

SHEET NO:- STRU/BLOCK-A/ 02-02