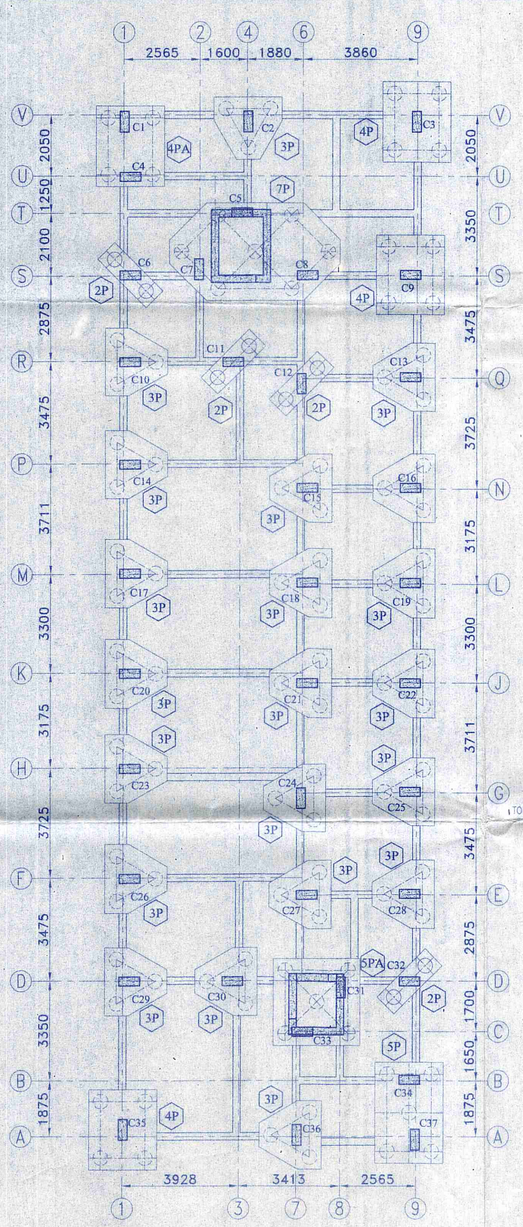
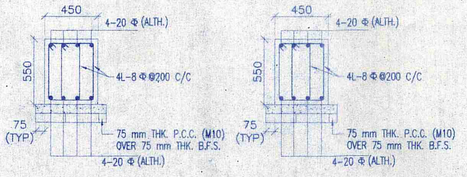


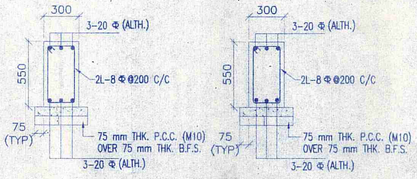
PILE AND PILE LAYOUT PLAN

SCALE 1:100



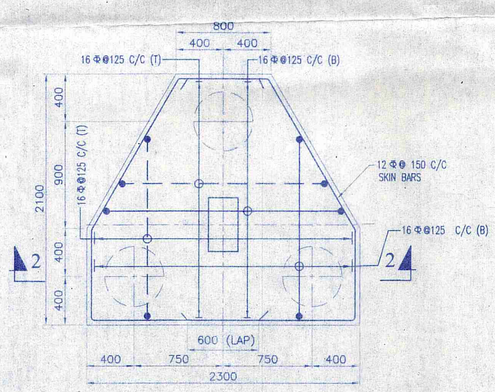
AT SUPPORT AT SPAN

TYPICAL CROSS SECTION OF PERIPHERAL GRADE BEAM



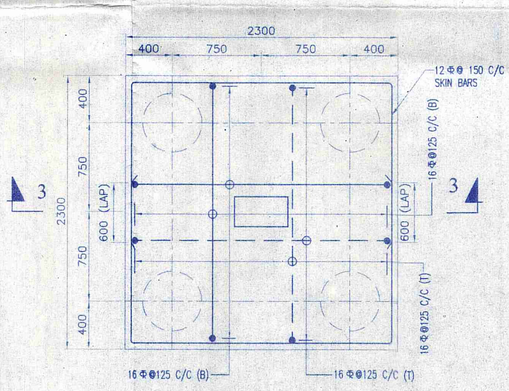
AT SUPPORT AT SPAN

TYPICAL CROSS SECTION OF INSIDE GRADE BEAM



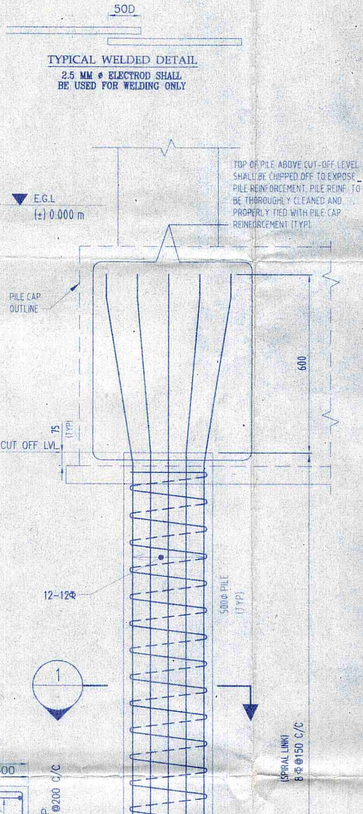
TYP. RNF. DET. OF PILE CAP MKD.-3P

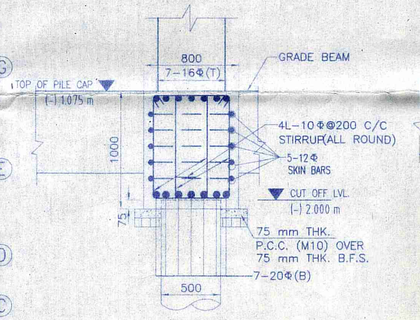
SCALE 1:25



TYP. RNF. DET. OF PILE CAP MKD.-4P

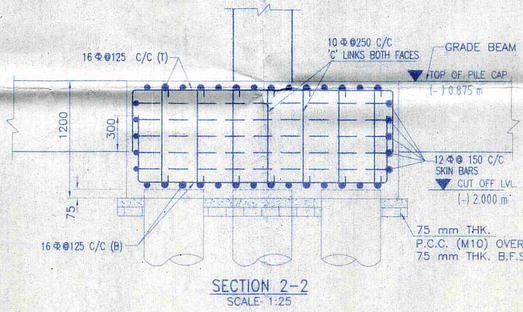
SCALE 1:25





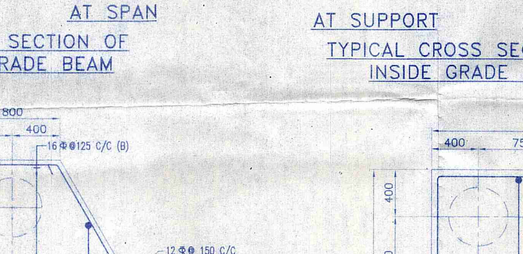
SECTION 1-1

SCALE 1:25



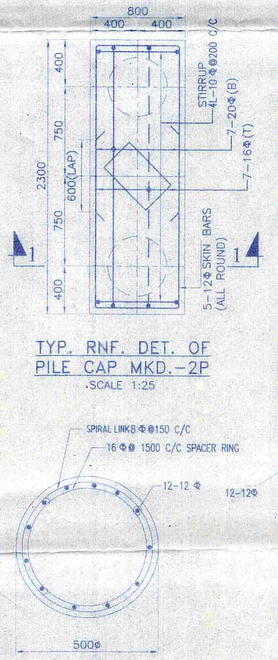
SECTION 2-2

SCALE 1:25



SECTION 3-3

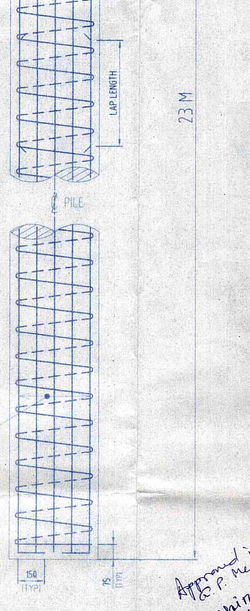
SCALE 1:25



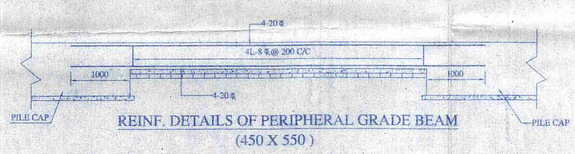
TYP. RNF. DET. OF PILE CAP MKD.-2P

SCALE 1:25

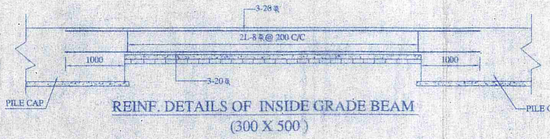
SECTION 1



SECTIONAL ELEVATION (TYP. DETAIL OF 500 DIA PILE)



REINF. DETAILS OF PERIPHERAL GRADE BEAM (450 X 550)



REINF. DETAILS OF INSIDE GRADE BEAM (300 X 500)

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			REMARKS
					COMPRESSION	TENSION	LATERAL	
○	500 DIA	EL.(-)2.0 EXCEPT PILES UNDER LIFT PIT	23.0	12-12 Φ (ALTH.)	92	–	–	CUT OFF LEVEL IS (-) 3.10 M LEVEL UNDER LIFT PIT PILE

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

CERTIFICATE & SIGNATURE OF ARCHITECT:-

Fire Safety Recommendations of West Bengal Fire & Emergency services as stated in Memo no- IND/WB/FES/201/2019/21208 Dated-19/11/2018 have been complied with the architectural drawing namely proposed (G+8)storied building.

SAIKAT SARKAR
Architect & Urban Planner
CA/2011/52469

CERTIFICATE OF GEO-TECHNICAL ENGINEER:-

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

S. K. Mandal
B. E. (Civil), M.I.E., M.I.G.S
L.B.S.- Class-II (K.M.C.) ESE-II
Consulting Chartered Engineer
Structural & Geo-Technical
ESE-II/399, LBS-II/1245

GENESIS INFRASTRUCTURE DEVELOPMENT SERVICES
(AN ORGANIZATION OF CONSULTANT ENGINEERS)
E-mail Id:-gidsbengal@gmail.com &
gidsbengal.project@gmail.com
SPECIALIST IN CONSULTING ,STRUCTURAL DESIGN,SURVEYING & SOIL INVESTIGATING
OFFICE:-C-29, 4TH STREET , Doctor's Colony ,City Centre, Durgapur-713216.
Contact No:- +919333233331,+917699998140

PROJECT NAME:-

STRUCTURAL DRAWING OF PROPOSED G+8 STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF MR. RAJU SINGH S/O LATE KEDAR SINGH,MR.DHANANJOY TEWARI S/O BINDHYACHAL TEWARI,MR.GOLAM SAMIM,S/O HABIBUR RAHAMAN,J.L NO-41,L.R KHATIAN NO-3357,3364,3365,,L.R PLOT NO-2306,MOUZA:-PATSAORA ,P.S-DURGAPUR,DIST;-PASCHIM BARDHAMAN

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE STATED.
2. ±0.00 LVL. REFERS TO E.G.L
3. CLEAR CONCRETE COVER TO MAIN REINFORCEMENT BARS SHALL BE AS FOLLOWS :-

	TOP	BOTTOM	SIDE
a) PILE -	50 mm	50 mm	50 mm
b) PILE CAP -	75 mm	75 mm	75 mm

4. ALL PILES SHALL BE BORED CAST-IN-SITU PILES, DMC METHOD SHALL BE ADOPTED BY CIRCULATING BENTONITE SLURRY OF SP GRAVITY 1.1 TO 1.2 gm/cc.
5. ALL REINFORCEMENT IN PILE SHALL BE HIGH TENSILE STRENGTH COLD TWISTED DEFORMED BAR CONFORMING TO IS-1786-2008 OF GRADE Fe500.
6. CONCRETE GRADE SHALL BE M25 WITH MINIMUM CEMENT CONTENT OF 400Kg/M³ OF CONCRETE & SLUMP BETWEEN 150mm TO 180mm.
7. CONCRETING SHALL BE DONE BY SUITABLE TREMIE ONLY & IT SHOULD BE REACHED WITHIN 500 TO 750mm FROM BOTTOM LEVEL OF BORE HOLE.
8. CONCRETE SHALL BE DONE AS SOON AS POSSIBLE AFTER COMPLETING THE PILE BORE. THE BORE HOLE FULL OF DRILLING MUD SHOULD NOT BE LEFT UNCONCRETED FOR MORE THAN 12 TO 24 HOURS DEPENDING UPON THE STABILITY OF BORE HOLES.
9. FOR PLACING CONCRETE IN PILE BORE A FUNNEL SHOULD BE USED & METHOD OF CONCRETE SHOULD BE SUCH THAT THE ENTIRE VOLUME OF THE PILE BORE IS FILLED UP WITHOUT THE FORMATION OF VOIDS &/ FOR MIXING OF SOIL & DRILLING MUD IN CONCRETE.
10. THE PILE HEADS SHALL PROJECT IN TO THE PILE CAP 75mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
11. 80mm ROLLER TYPE COVER BLOCK WITH MINIMUM THICKNESS 32mm SHALL BE USED.
12. ALL LAP JOINTS AND DEVELOPMENT LENGTHS SHALL BE 50xDIA. & TACK WELDED.
13. INITIAL PILE LOAD TEST AND ONE NUMBER ROUTINE LOAD TEST SHALL BE PERFORMED AS PER IS CODE FOR EVERY 100 PILES.
14. SPACER BAR OF DIA T16 ARE TO BE PROVIDED AT AN INTERVAL OF 1500M C/C TO WELDED.
15. WASHING TO BE DONE WITH 20HP PUMP/VACEL AS PER SITE REQUIREMENT.
16. BENTONITE TO BE USED AS PER IS CODE.
17. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
18. THIS DRAWING SHOULD BE READ ALONG WITH THE CORRESPONDING ARCHITECTURAL DRAWING.
19. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SURVEY DRAWING.
20. PILE CAPACITY OF SOIL & OTHER NECESSARY SUGGESTION HAS BEEN CONSIDERED AS PER SOIL REPORT.

SIGNATURE OF OWNER:-

Golam Samim
Dhananjay Tewari
Raju Singh.

SIGNATURE OF STRUCTURAL ENGINEER:-

The Structural Design and Drawing of Both Foundation and Super Structure 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.

Hirok Ghosh
HIROK 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

VETTED BY:-

Approved in the G.P. Meeting on 21.01.2019 (Meeting no- 9/2018-19)
Pradhan
Ichapur Gram Panchayat
Paschim Bardhaman

Professor
CIVIL ENGINEERING DEPARTMENT
JADAVPUR UNIVERSITY
KOLKATA-32

TITLE:-

PILE & PILE FOUNDATION LAYOUT PLAN, CROSS SECTIONAL DETAILS OF GRADE BEAM, REINFORCEMENT DETAILS OF PILE CAP, SCHEDULE OF PILE CAP.

CHECKED BY : H.GHOSH | SCALE : 1:100, 1:50, 1:25, N.T.S
DATE : 21.07.2018 | REV-00
SHEET NO:- GIDS/STR01-05

Approved in the G.P Meeting on 21.01.2019 (Meeting no- 9/2018-19)
Pradhan
Ichapur Gram Panchayat
Paschim Bardhaman
13,1,2021