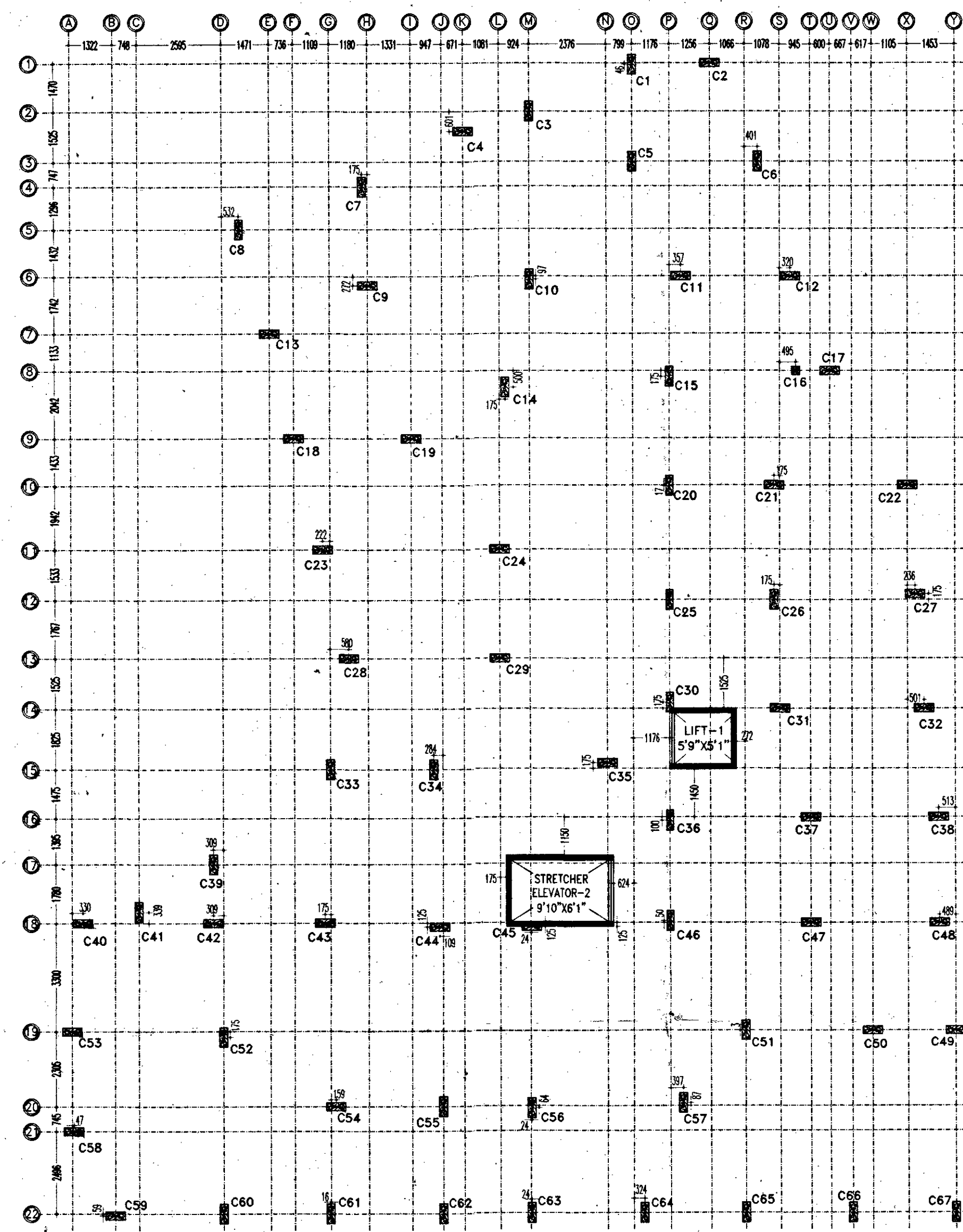


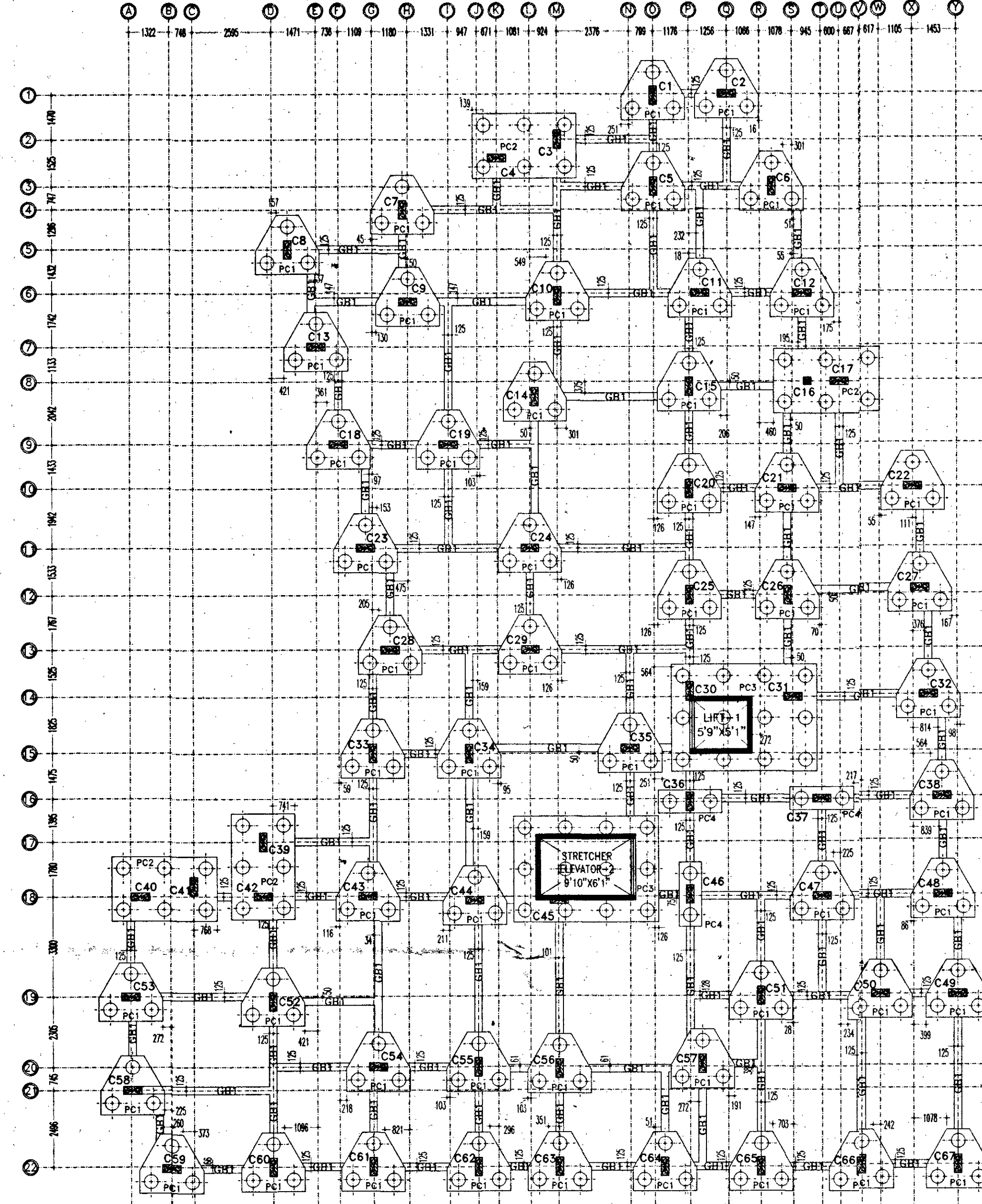


1. COLUMN LAYOUT PLAN
SCALE: 1:100

1. SCHEDULE OF COLUMNS						
COLUMN MARKED	NOS. OF COLUMNS	FOUNDATION TO 2ND FLOOR	3RD FLOOR TO 5TH FLOOR	6TH FLOOR TO ROOF	TIE	SHAPE OF STIRRUPS
C1, C2, C3, C6, C7, C12, C13, C18, C19, C23, C26, C38, C39, C40, C41, C48, C49, C53, C55, C56, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67	30	600X250 REINFORCEMENT: 12-25 ϕ 6-20 ϕ	600 REINFORCEMENT: 6-25 ϕ 6-20 ϕ	600 REINFORCEMENT: 4-25 ϕ 8-20 ϕ	NEAR JUNCTION (UPTO 1/3) LENGTH LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET)	
C5, C9, C10, C11, C14, C20, C21, C25, C29, C31, C32, C34, C35, C37, C42, C43, C47, C50, C51, C52, C54	21	600X250 REINFORCEMENT: 6-25 ϕ 6-20 ϕ	600 REINFORCEMENT: 4-25 ϕ 8-20 ϕ	600 REINFORCEMENT: 4-25 ϕ 8-20 ϕ	NEAR JUNCTION (UPTO 1/3) LENGTH LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET)	
C4, C8, C15, C17, C22, C24, C27, C28, C30, C33, C36, C44, C45, C46, C57	15	600X250 REINFORCEMENT: 6-25 ϕ 6-20 ϕ	600 REINFORCEMENT: 4-25 ϕ 8-20 ϕ	600 REINFORCEMENT: 12-20 ϕ	NEAR JUNCTION (UPTO 1/3) LENGTH LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET)	

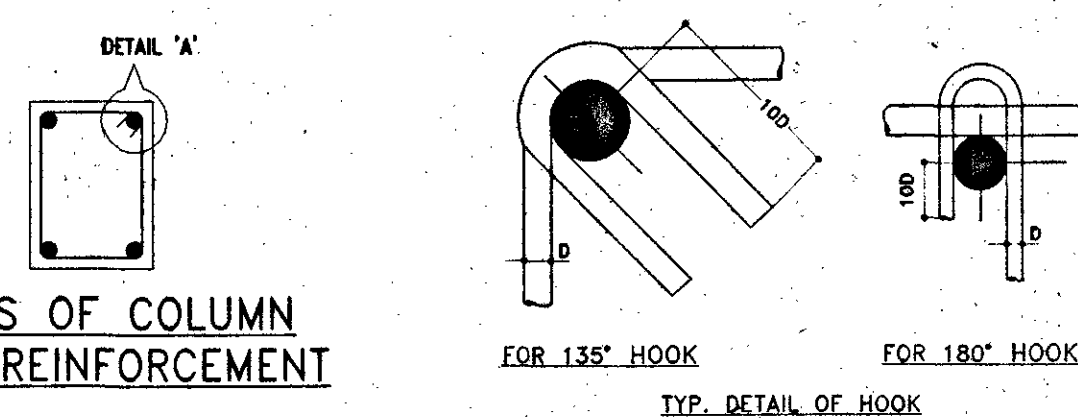
SCHEDULE OF PILE						
LEGEND	DIA OF PILE (MM)	CUT-OFF LEVEL (M)	PILE LENGTH (M)	MAIN REINFORCEMENT	SAFE WORKING LOAD IN TONS	REMARKS
	450 DIA	EL. (-) 1700 EXCEPT PILES UNDER LIFT PIT	22.0	8-16 ϕ (ALH)	54	CUT OFF LEVEL IS (-) 3.35 M LEVEL FROM E.G.L. FOR LIFT

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

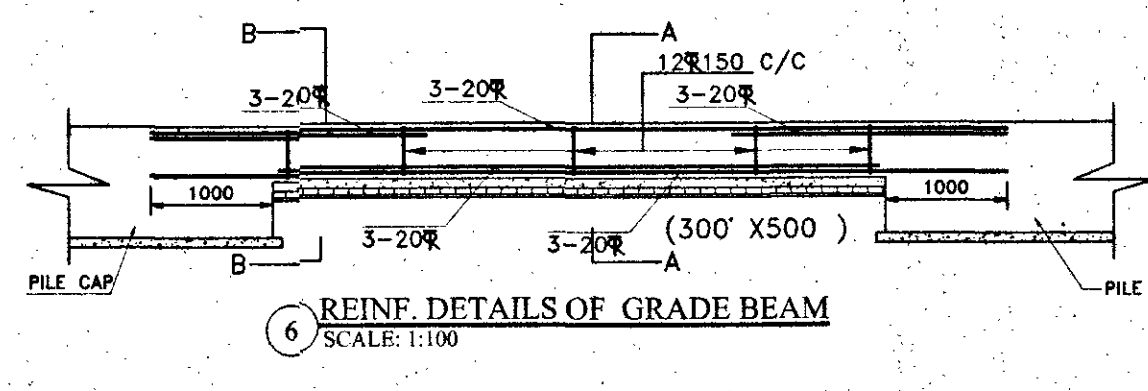


2. FOOTING WITH GRADE BEAM LAYOUT PLAN
SCALE: 1:100

TABLE NO.-07 (SCHEDULE OF PILE CAP (450 # PILE))									
PILE CAP MARKED	NAME OF COLUMN	CAP SIZE			BOTTOM REINFORCEMENT (A)		TOP REINFORCEMENT (B)		C LINK (C) (BOTH DIRECTION)
		LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION	
PC1 (3P)	C1, C2, C3, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C32, C34, C35, C38, C43, C44, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67	1200	1200	1200	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	16 ϕ 100 C/C
PC2 (2P)	C3+ C4, C16+ C17, C39+ C42, C40+ C41	2100	3450	1200	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	16 ϕ 100 C/C
PC3 (12P)	C30+ C31+ LIFT, C45+ LIFT	4800	3450	1200	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	16 ϕ 100 C/C
PC4 (2P)	C36, C37, C46	2100	750	1200	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	20 ϕ 150 C/C	16 ϕ 100 C/C



DETAILS OF COLUMN HOOK REINFORCEMENT



6. REINFORCEMENT DETAILS OF GRADE BEAM

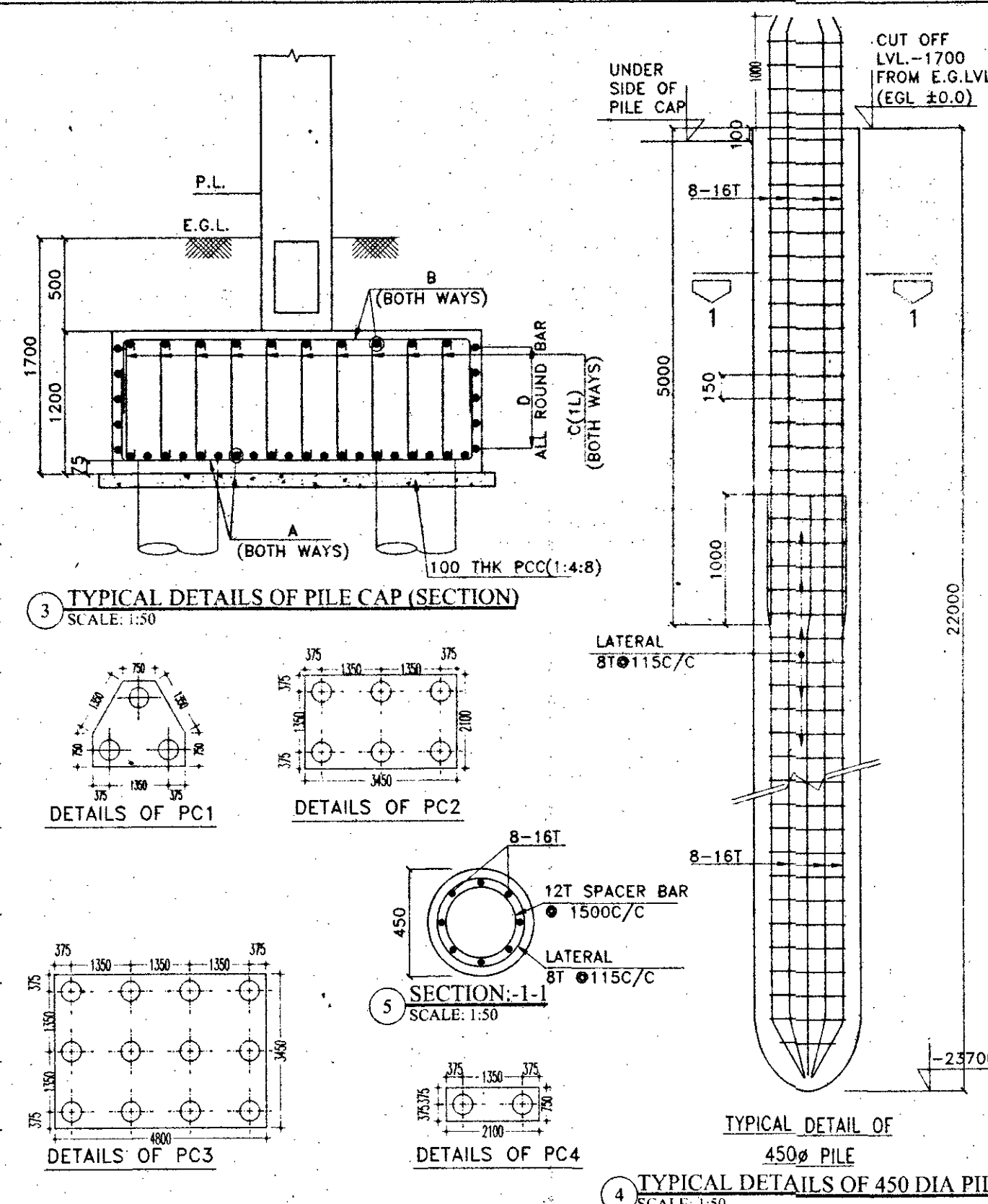


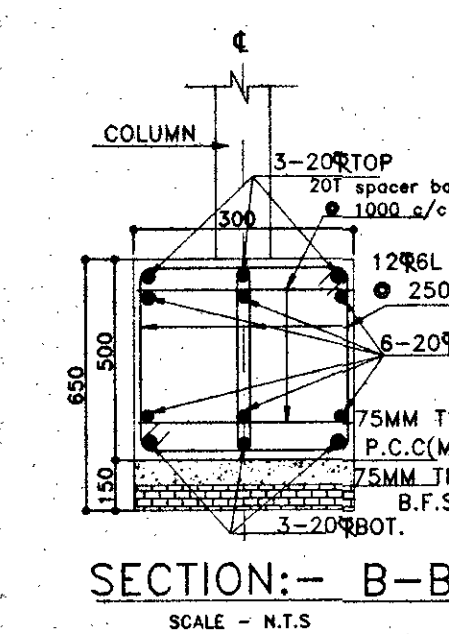
TABLE NO.-02 (SCHEDULE OF COLUMNS)

COLUMN MARKED	NOS. OF COLUMN	FOUNDATION TO ROOF	TIE	SHAPE OF STIRRUPS
C16	01	250X250 REINFORCEMENT: 4-20 ϕ	NEAR JUNCTION (UPTO 1/3) LENGTH LINKS: 250/150 C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 250/150 C (2 NOS. CLOSED LINK PER SET)	

DETAIL - A
(TYPICAL DETAIL OF 135° HOOK)

STIRRUP DETAIL
(d = DIA OF STIRRUP BAR)

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



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

PROJECT NAME:-
STRUCTURAL DRAWING OF PROPOSED (G+8) NINE STORED RESIDENTIAL CUM COMMERCIAL BUILDING OF MR. SHAYAN KUMAR DEY, S/O MR. MADAN MAHON DEY, MR. TAPAN KUMAR MUKHERJEE S/O LATE. SUBAL MUKHERJEE, MRS. KAKALI MONDAL W/O SRI. SUSHIL MONDAL, MR. PRITHVIRAJ PANDEY, S/O SRI. TATHAGATA PANDEY, MR. KANAI LAL PANDEY, S/O MR. LATE GANAPATI PANDEY, (DEVELOPED BY ARADHYA SPACE DEVELOPERS) P.S. PLOT NO-78/72, L.R. PLOT NO-89/107, L.R. KHATAN NO-2068, 1189, 1463, 1646, 2079, L.R. J.L. NO-111, R.S. J.L. NO-99, 11, MOJLA-TETIKHOLA, P. S. -N.W. TOWNSHIP, DIST-PASCHIM BANGURAHMAN WIST BANGAL-713212

- NOTES :-**
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE STATED.
 - ±0.00 LVL. REFERS TO E.G.L.
 - CLEAR CONCRETE COVER TO MAIN REINFORCEMENT BARS SHALL BE AS FOLLOWS :-
TOP: 50 mm
BOTTOM: 75 mm
SIDE: 50 mm
 - ALL PILES SHALL BE BORED CAST-IN-SITU PILES, DMG METHOD SHALL BE ADOPTED BY CIRCULATING BENTONITE SLURRY OF SP GRAVITY 1.1 TO 1.2 gm/cc.
 - ALL REINFORCEMENT IN PILE SHALL BE HIGH TENSILE STRENGTH COLD TWISTED DEFORMED BAR CONFORMING TO IS-1786-2008 OF GRADE Fe500.
 - CONCRETE GRADE SHALL BE M25 WITH MINIMUM CEMENT CONTENT OF 400kg/M OF CONCRETE & SLUMP BETWEEN 150mm TO 180mm.
 - CONCRETING SHALL BE DONE BY SUITABLE TREMIE ONLY & IT SHOULD BE REACHED WITHIN 500 TO 750mm FROM BOTTOM LEVEL OF BORE HOLE.
 - 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.
 - 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.
 - THE PILE HEADS SHALL PROJECT IN TO THE PILE CAP 75mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
 - 80mm ROLLER TYPE COVER BLOCK WITH MINIMUM THICKNESS 32mm SHALL BE USED.
 - ALL LAP JOINTS AND DEVELOPMENT LENGTHS SHALL BE 50DIA, & TACK WELDED.
 - INITIAL PILE LOAD TEST AND ONE NUMBER ROUTINE LOAD TEST SHALL BE PERFORMED AS PER IS CODE FOR EVERY 100 PILES.
 - SPACER BAR OF DIA 16 ARE TO BE PROVIDED AT AN INTERVAL OF 1500M C/C TO WELDED.
 - WASHING TO BE DONE WITH 20HP VACCEL AS PER SITE REQUIREMENT.
 - BENTONITE TO BE USED AS PER IS CODE.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - THIS DRAWING SHOULD BE READ ALONG WITH THE CORRESPONDING ARCHITECTURAL DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SURVEY DRAWING.
 - PILE CAPACITY OF SOIL & OTHER NECESSARY SUGGESTION HAS BEEN CONSIDERED AS PER SOIL REPORT.

SIGNATURE OF STRUCTURAL ENGINEER:-

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

VETTED BY:-

TITLE:-
COLUMN & PILE FOOTING LAYOUT PLAN, SCHEDULE OF COLUMN & PILE FOUNDATION, SECTIONAL DETAILS OF PILE WALL, DETAILS OF HOOK & STIRRUP.

OFFICE USED:- **SIGNATURE OF ARCHITECT:-** **SIGNATURE OF DEVELOPER/OWNER:-**

ARADHYA SPACE DEVELOPERS **ARADHYA SPACE DEVELOPERS**

GIDS Engineering Pvt. Ltd.
(Architects, Engineers, Contractors and Business Solutions)
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:- +919332333331, +917699988140

DATE :- 02.11.2021
REV-00
SCALE :- 1:100, 1:50 1:25, N.T.S.
SHEET NO:- GIDS/STRU 01-02