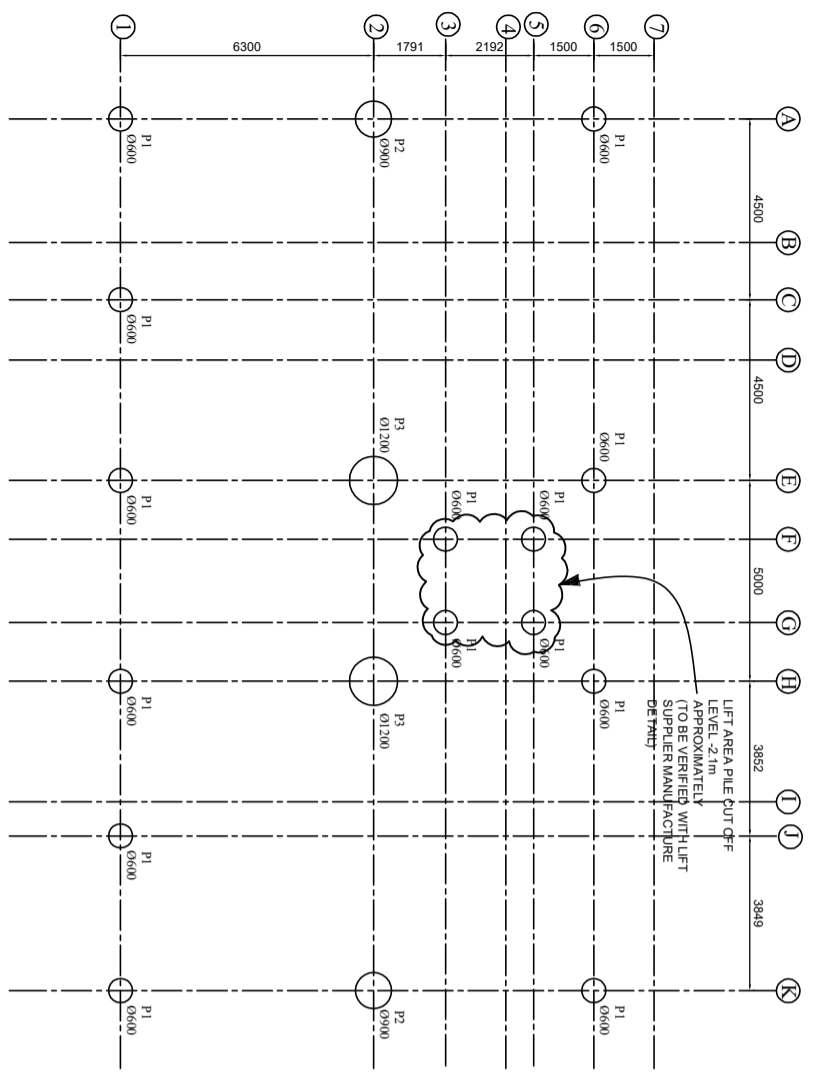


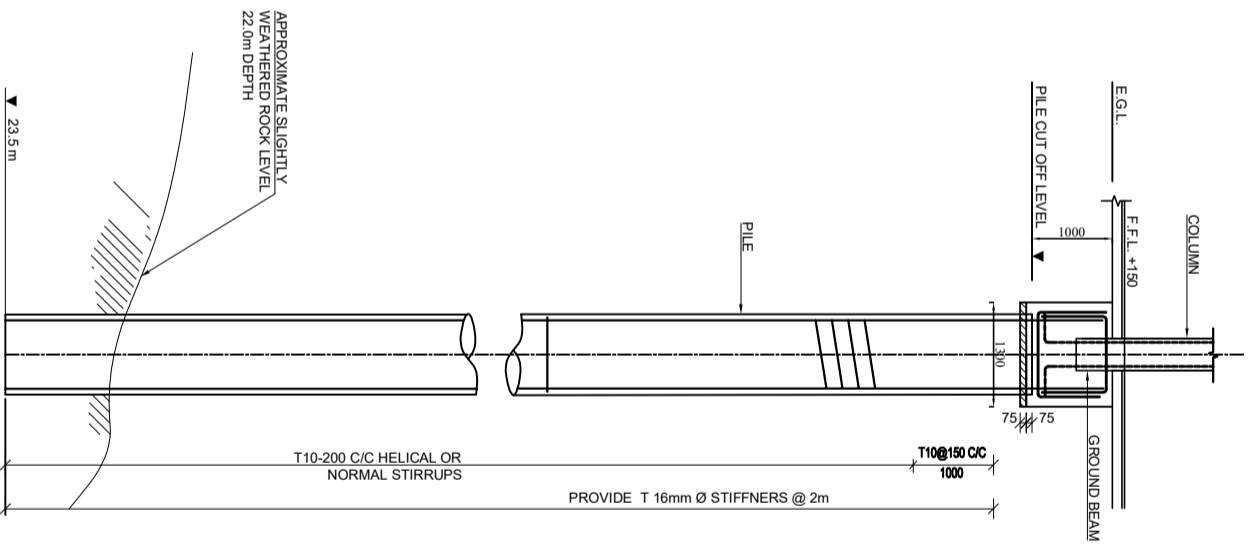
**ORIGINAL**



**LAYOUT OF PILES**  
SCALE 1:100

NOTE:  
PILE CUT OFF LEVEL 0.9m FOR 600mm DIA, 1.2m FOR 900mm DIA PILES AND 1.35m FOR 1200mm DIA PILES EXCEPT THE PILES MARKED FOR LIFT AREA.

SIZE	REINFORCEMENT	LEGEND
Ø600	 R10@150 mm SPACING FOR 1m FROM PILE CUT OFF LEVEL R10@200mm FOR REMAINING PILE LENGTH T12 STIFFNER BARS @ 2000 C/C	P1
Ø900	 T10@150 mm SPACING FOR 1m FROM PILE CUT OFF LEVEL R10@200mm FOR REMAINING PILE LENGTH T16 STIFFNER BARS @ 2000 C/C	P2
Ø1200	 T10@150 mm SPACING FOR 1m FROM PILE CUT OFF LEVEL R10@200mm FOR REMAINING PILE LENGTH T16 STIFFNER BARS @ 2000 C/C	P3



**TYPICAL PILE ELEVATION**  
SCALE 1:50

**NOTE**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE AND RESOLVE ALL DISCREPANCIES IF ANY WITH THE ARCHITECT/ENGINEER BEFORE COMMENCEMENT OF WORK.
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE STATED.
- A COPY OF PILE SETTING OUT PLAN SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS. THIS DRAWING SHALL BE PREPARED BY A LICENSED SURVEYOR.
- THE CONTRACTOR IS REQUIRED TO SUBMIT TRIAL MIX OF THE CONCRETE FOR THE ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION OF PILES.
- ALL TEMPORARY WORKS NECESSARY FOR THE SUCCESSFUL INSTALLATION OF THE PILE SHALL BE DEMOLISHED TO BE INCLUSIVE IN THE CONTRACT.
- REFER TO SUD/DEV/18 SPECIFICATIONS FOR BARED AND CAST IN-SITU REINFORCED CONCRETE PILES BY THE INSTITUTE FOR CIDA AND OTHER SPECIFICATIONS FOR THE CONSTRUCTION AND TESTING OF PILES.
- REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE CONSULTING ENGINEER BEFORE CONCRETING.
- MINIMUM LAP AND ANCHORAGE LENGTH IN REINFORCEMENT TO BE 32X SMALLER BAR DIAMETER.
- PILE CUT OFF LEVEL TO BE 75 mm ABOVE THE PILE CAP BOTTOM LEVEL.
- MINIMUM COVER TO STEEL REINFORCEMENT IN PILES SHOULD BE 75mm. COVER BLOCKS SHOULD BE PRODUCED USING GRADE 35 CONCRETE AND MAX. AGGREGATE SIZE 10mm.
- CONCRETE GRADE C30 & TYPE OF CEMENT SHALL BE PPC OR SULPHUR RESISTANCE CEMENT.
- TYPE OF REINFORCEMENT - YIELD STRENGTH  $f_y = 500 \text{ N/mm}^2$  BE ANCHORED INTO THE PILE CAP.
- REINFORCEMENT OF PILES SHOULD EXTEND BEYOND THE PILE CUT OFF LEVEL A MINIMAL LENGTH OF 520 OF MAIN BARS TO BE ANCHORED INTO THE PILE CAP.
- EACH PILE SHOULD BE CONCRETED AND ADEQUATE LENGTH ABOVE THE PILE CUT OFF LEVEL TO ALLOW FOR SLUMP AND WEAR CONCRETE WITH LANTAGE AT THE TOP SO THAT AT CUT OFF POINT SOUND CONCRETE OF THE SPECIFIED STRENGTH IS OBTAINED.
- THE DATUM LEVEL WILL BE GIVEN BY THE ENGINEER AT THE SITE.
- ALL PILES SHOULD BE DRIVEN TO THE HARD BASEMENT ROCK AND SOCKETED 1500mm INTO THE ROCK UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER/APPROXIMATE PILE LENGTH 235m.
- INTEGRITY TEST TO BE CARRIED OUT FOR ALL PILES. IF THE INTEGRITY TEST FAILS, THE CONTRACTOR SHALL PROVIDE THE ADEQUACY OF PILE CAPACITY BY LOAD TEST.
- A FAILED PILE HAS TO BE COMPENSATED BY A NEW PILE. COMPENSATION PILES SHALL BE AT THE CONTRACTORS COST.
- TOTAL NUMBER OF PILES

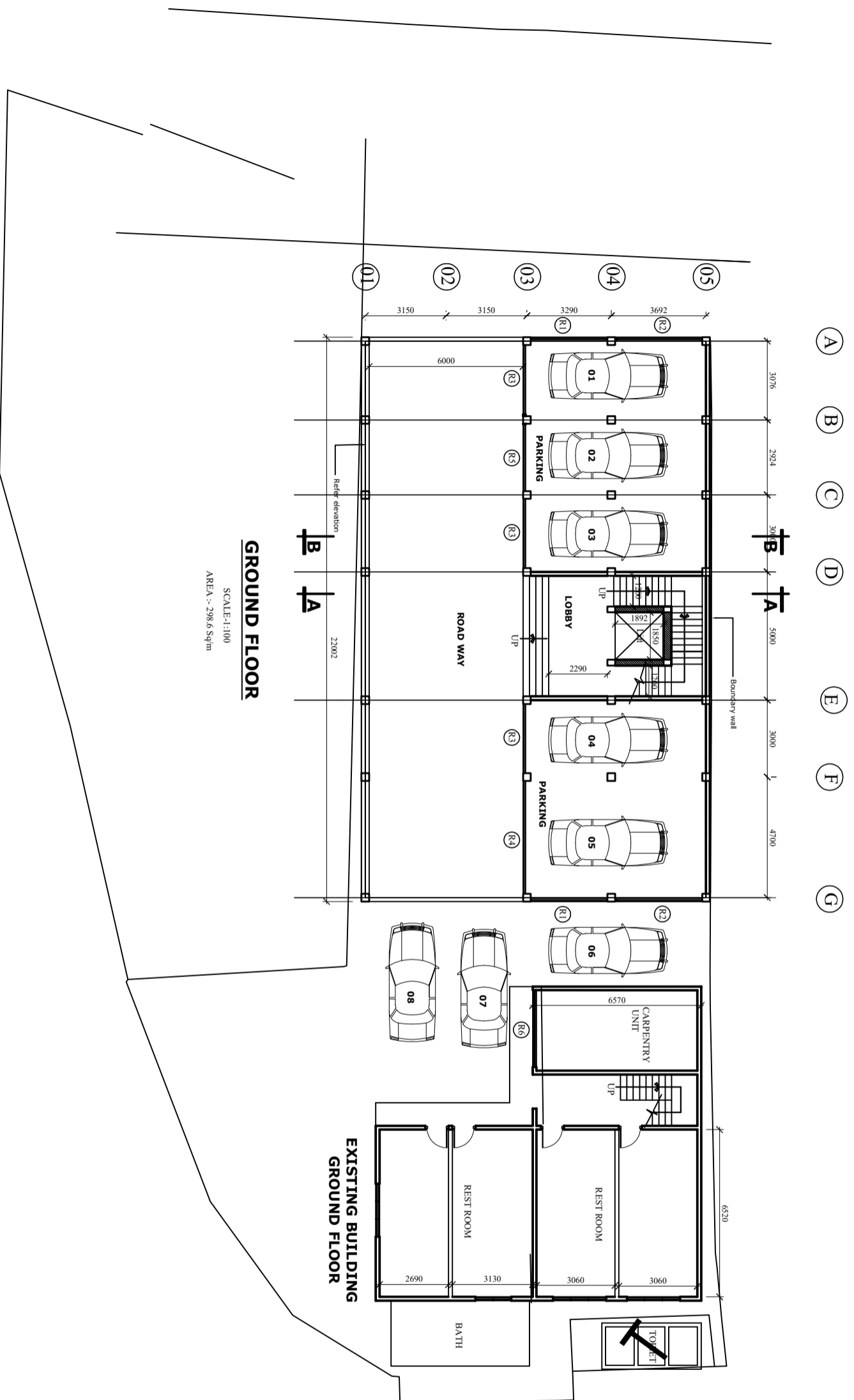
PILE DIAMETER (mm)	NUMBER OF PILES
600	14
900	02
1200	02
<b>TOTAL</b>	<b>18</b>

- PILE CENTER SHALL NOT BE DEVIATED MORE THAN 75 mm IN ANY DIRECTION. (REFER SPECIFICATION & CIDA SPECS).
- CONTRACTOR SHALL BE THROUGH WITH SOIL REPORT.
- PREVIOUS BORING SHEETS & ETC.
- CONTRACTOR TO MAINTAIN & SUBMIT THE FOLLOWING MINIMUM DOCUMENTS TO THE SITE REPRESENTATIVE OF ENGINEER.
  - QA/QC CHECK SHEET SIGNED BY QA/QC MANAGER
  - PILE BORING RECORD
  - PILE CONCRETE RECORD, TRUCK MIXER RECORD & TEST CURVE RECORD
  - PILE RECORD CONCRETING STAGE
- THE PILING SEQUENCE SHALL BE SO SEQUENCED CONSIDERING THAT NO TWO PILES WITHIN A RADIUS OF 10mm ARE INSTALLED WITHIN 48 HOURS.
- 800mm DIAMETER PILE MARKED FOR PDA TEST SHOULD BE CAST AND TESTED WITH PDA TEST FOR 200KN. THE CONTRACTOR SHALL PROVIDE THE PDA TEST REPORT AND REPUTED PILE TESTING AGENCY TO CHECK THE PERFORMANCE OF THE PILE FOR CONSIDERATION IN REVIEW OF THE PILE DIAMETER LAYOUT.
- MATERIAL TESTING SHALL BE DONE AS PER CRITERIA GIVEN BY SLS 1114-1 AND ICTAD.
- AS BUILT PILE COORDINATES SHOULD BE SUBMITTED SOON AFTER THE PILING WORK COMPLETION.

**PROPOSED OFFICE AND QUARTERS  
BUILDING FOR PROJECT MANAGEMENT  
DIVISION, CAMPBLE PARK, COLOMBO 08**

**DESIGN OF PILES  
(TENDER DRAWINGS)**

**ORIGINAL**



**GROUND FLOOR**

SCALE: 1:100  
AREA: - 298.6 Sq/m

**PROPOSED OFFICE AND QUARTERS  
BUILDING FOR PROJECT MANAGEMENT  
DIVISION, CAMPBLE PARK, COLOMBO 08**

**GROUND FLOOR PLAN  
(TENDER DRAWINGS)**