
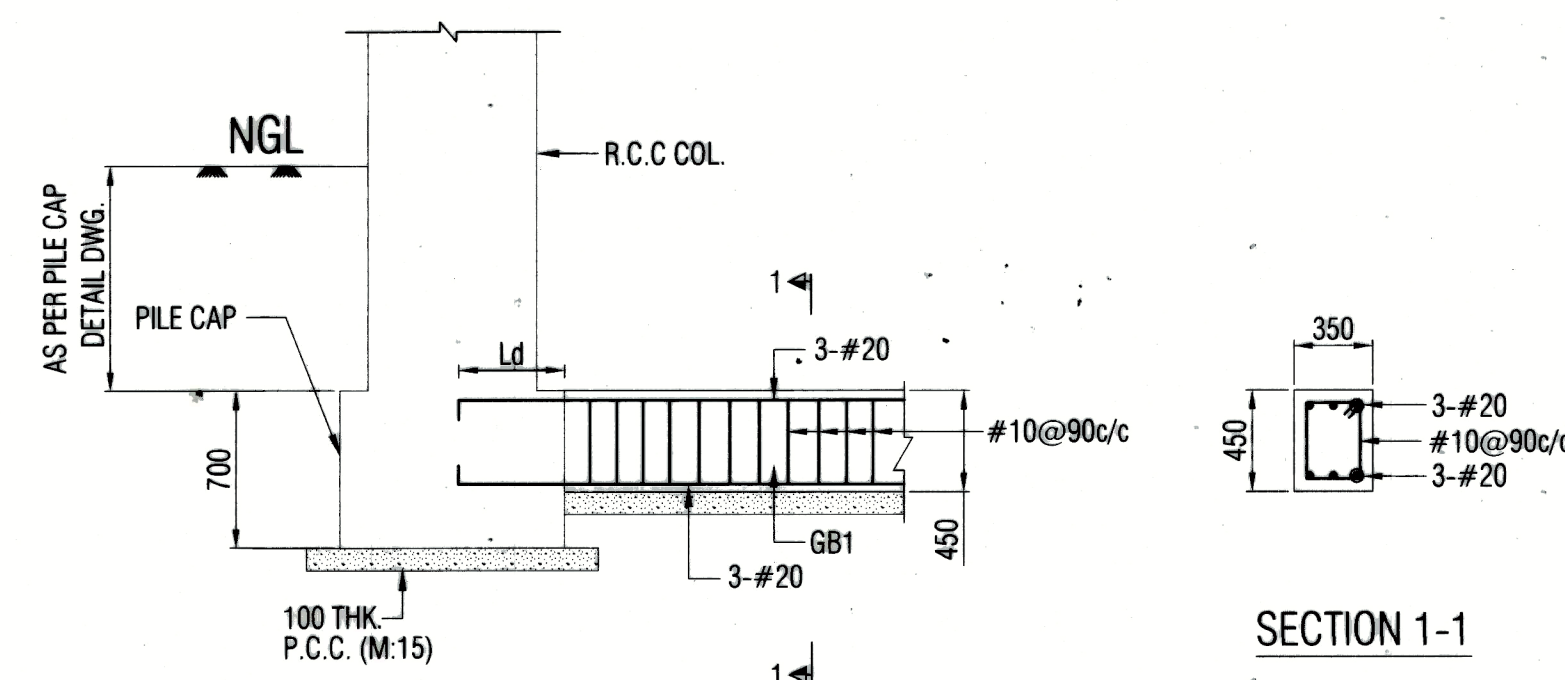


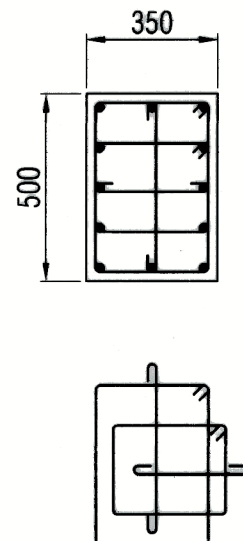
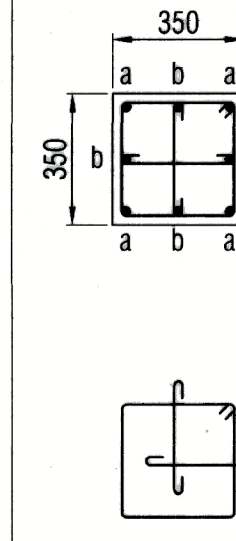
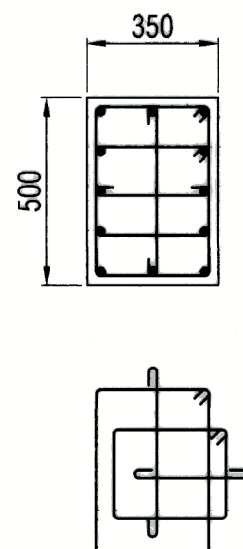
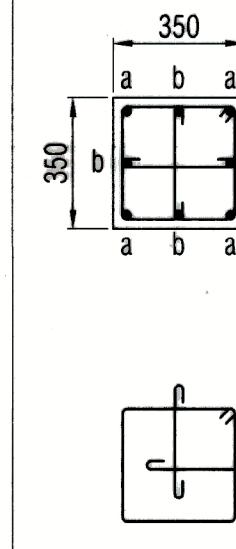
LAYOUT OF PILE & PILE CAP

PILE TYPE	DIA OF PILE	SAFE LOAD CAPACITY (SEE NOTE 8)		LENGTH	REMARKS
		VERTICAL (KN)	HORIZONTAL (KN)		
P1 	450 DIA	210	15	6.0 M	REFER SEPARATE DETAIL

PILE CAP NO.	NOS. REQD	NOS. OF PILE IN GROUP	DIA OF PILE	PILE CUT-OFF LEVEL (CoL) (M) SEE NOTE BELOW
PC1	07	02	450	(-) 1.125
PC2	03	03	450	(-) 1.125
PC3	02	01.	450	(-) 1.125

PILE MKD.	DIA OF PILE	VERTICAL STEEL (a)	HELICAL TIES (b)	GUIDED RING (c)	REMARKS
P1	450	12 - #12	#10@150C/C	#16@1000C/C	



PLINTH BEAM LEVEL TO ROOF SLAB LEVEL	REINFORCEMENT ARRANGEMENT		
	COL. SIZE b x l	350 x 500	350 x 350
	LONGITUDINAL REINFORCEMENT (NOS-mmØ)	12-#16	4-#16(a) + 4-#12(b)
	CONFINING REIN. WITHIN IO	#10@75c/c	#10@75c/c
	TRANSVERSE WITHIN I1	#10@150c/c	#10@150c/c
	DISTANCE(IO)IN MM	500	500
FOUNDATION LEVEL TO PLINTH BEAM LEVEL	REINFORCEMENT ARRANGEMENT		
	COL. SIZE b x l	350 x 500	350 x 350
	LONGITUDINAL REINFORCEMENT (NOS-mmØ)	12-#16	4-#16(a) + 4-#12(b)
	CONFINING REIN. WITHIN IO	#10@75c/c	#10@75c/c
	TRANSVERSE WITHIN I1	#10@75c/c	#10@75c/c
	DISTANCE(IO)IN MM	-	-
	COLUMN MARKED	C1	C2

- 1) THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS & CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.
- 2) ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
- 3) ALL ROOM DIMENSION, CENTER LINE DIMENSION SHALL BE SET AS PER ARCHITECTURAL DRAWING.
- 4) FOR STRUCTURAL GENERAL NOTES, REFER DWG. NO. GDR/KPT/005/STR/01.
- 5) FOR STRUCTURAL STANDARD TYPICAL DETAILS, REFER DWG. NO. GDR/KPT/005/STR/02. SHT. 01 & 02
- 6) BEAMS AND OTHER STRUCTURAL MEMBER SHALL NOT BE CUT THROUGH TO PROVIDE DRAIN PIPES ETC. SLEEVES OF SUITABLE SIZE MAY BE PROVIDED AT THE TIME OF CASTING THE SLAB TO TAKE OUT THE PIPES LATER.
- 7) GRADE OF CONCRETE FOR PILES, PILE CAPS AND GRADE BEAM SHALL BE M30 DESIGN MIX. UNLESS NOTED OTHER WISE
- 8) DESIGN SAFE LOAD OF PILE HAS BEEN TAKEN AS MENTIONED UNDER SCHEDULE OF PILE. INITIAL TEST AS PER IS: 2911 (PART 4) SHALL BE CARRIED OUT FOR LOAD TWO AND HALF TIMES OF SAFE LOAD CAPACITY OF PILE. IN THE EVENT OF ANY VARIATION AT SITE, MATTER SHALL BE REFERRED TO THIS HQ BY GE.
- 9) ROUTINE LOAD TEST ON WORKING PILES SHALL BE CARRIED OUT AS PER IS: 2911 (PART 4)
- 10) CONCRETE OF PILE SHALL BE DONE BY TREMIE METHOD ONLY WITH MS LINER/CASING ONLY. MAXIMUM SIZE OF AGGREGATE SHALL BE 20 MM.
- 11) THE PILING AND PILE CAP WORK SHALL CONFORM TO PROVISIONS IN IS 2911 (PART-1)
- 12) PILING WORK SHALL COMMENCE ONLY AFTER CARRYING OUT INITIAL LOAD TEST AS PER IS 2911-2013 (PART 4) AND WRITTEN APPROVAL BY GE.
- 13) PILING DEPTH AND FOUNDING STRATA SHALL BE APPROVED BY GE BEFORE CONCRETING. THE DEPTH OF PILE SHALL BE AS PER MENTIONED IN THE DRAWING. ANY VARIATION IN DEPTH SHALL BE REPORTED TO HQ IMMEDIATELY BY GE.
- 14) THE VERTICAL REINFORCEMENT OF PILE AND COLUMN SHALL BE TAKEN INTO THE PILE CAP FOR FULL DEVELOPMENT LENGTH.
- 15) THE MINIMUM CEMENT CONTENT SHALL BE 400 KG/CUM FOR PILING WORK.
- 16) BORED CAST-IN-SITU CONCRETE PILE (AS PER IS-2911 (PART-1/SEC-2)) HAS BEEN PROPOSED BASED ON SOIL INVESTIGATION REPORT.
- 17) RECORDS OF LOAD TEST RESULTS INCLUDING PHOTOGRAPHIC RECORD OF BOTH INITIAL AND ROUTINE LOAD TEST SHALL BE MAINTAINED BY THE GE.
- 18) GEO-TECHNICAL REPORT IS PREPARED BY 'GEO TEST HOUSE'
- 19) THE FOUNDATION STRATA OF EACH PILE SHALL BE APPROVED BY THE GARRISON ENGINEER.
- 20) CARE SHOULD BE TAKEN TO PRESERVE THE COVER INDICATED AND THE ALIGNMENT OF THE REINFORCEMENT THROUGHOUT THE WHOLE OPERATION OF PLACING THE CONCRETE. CENTRE LINE OF COLUMN SHOULD COINCIDE WITH THE CENTRE OF GRAVITY OF THE PILE CAP.
- 21) PILE DRAWINGS ARE PREPARED BASED ON COLUMN ALIGNMENTS. EACH COLUMN ALIGNMENT MUST BE CHECKED WITH ARCHITECTURAL DRAWINGS BEFORE EXECUTION.
- 22) BORING OF PILES SHALL BE DONE WITHOUT CAUSING ANY DAMAGE LIKE CAVING OF ADJACENT PILES.
- 23) NON - DESTRUCTIVE INTEGRITY TEST ON ALL THE PILES SHALL BE CARRIED OUT AS PER IS:2911 PART - 4.
- 24) ALL PILING WORK SHALL BE DONE AS PER IS 2911 PART -1 SECTION 2. THE LAYOUT AND CO-ORDINATES BE GOT APPROVED BY THE GARRISON ENGINEER ON SITE BEFORE COMMENCEMENT OF THE WORK.
- 25) THE PILE SHALL PROTRUDE INTO THE PILE CAP BY ATLEAST 75mm.

REV.	DATE	DESCRIPTION	SIGNATURE
REVISIONS			

 <p>SIGNATURE OF CONSULTANT:- VISHAL SHAH GENERAL MANAGER- DESIGN</p>	<p>KANDLA PORT TRUST</p> <p>REF. DRG. NO.:-</p>	<p>SHT. NO.</p>
<p>CONSULTANT :</p>  <p>GEO DESIGNS & RESEARCH (P) LTD.</p>	<p>B-10 KRISHNA IND. ESTATE, OPP. B.I.D.C GORWA ESTATE, VADDODARA - 390 016 TELEFAX : 91-265-2290222 2283081, 2282305 E-mail : designmeseng@geogroup.in</p>	

DRAWN BY	KINJAL	DRG. NO.	GDR/KPT/005/STR/31	
DESIGNED BY	RICHA	PROJECT NO.	SHEET NO.	REVISION
REVIEWED BY	HQJEFA	GDBU23005	01 OF 01	R0
SCALE	NOT TO SCALE			
DATE	04-07-2024			