

SCHEDULE OF BORE CAST - IN- SITU (BCIS) PILE (SEE NOTE 10 & 11)

PILE TYPE	DIA OF PILE	SAFE LOAD CAPACITY (SEE NOTE 8)		LENGTH	REMARKS
		VERTICAL (KN)	HORIZONTAL (KN)		
P1	750 DIA	509	52	10.0 M	REFER SEPERATE DETAIL

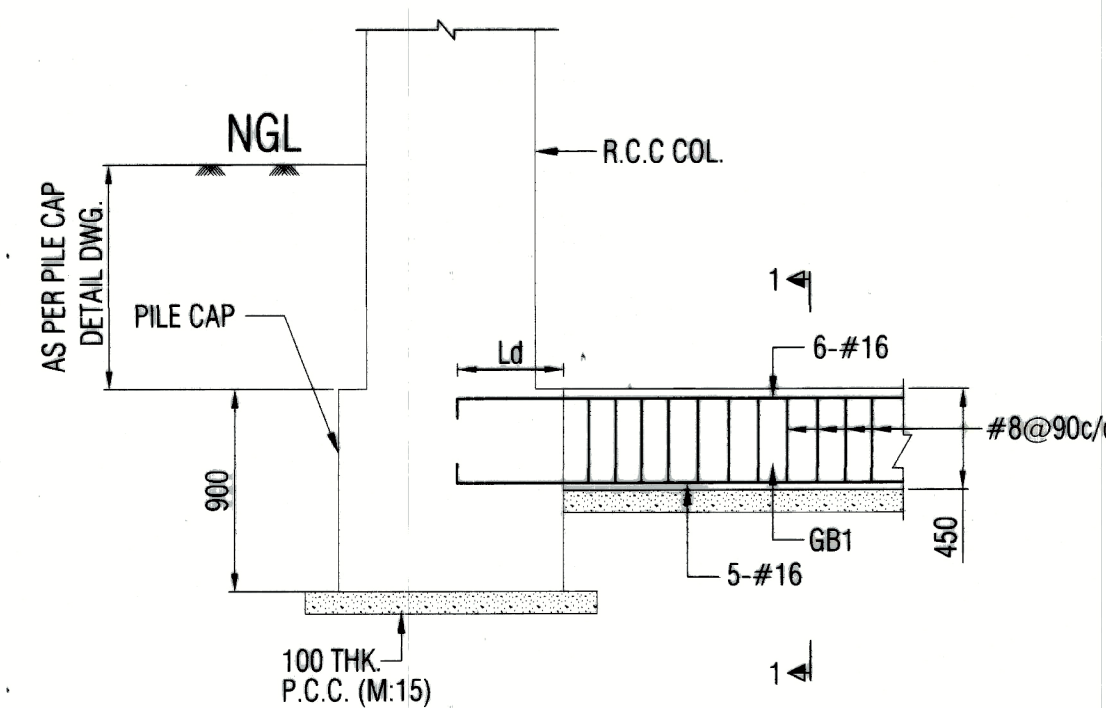
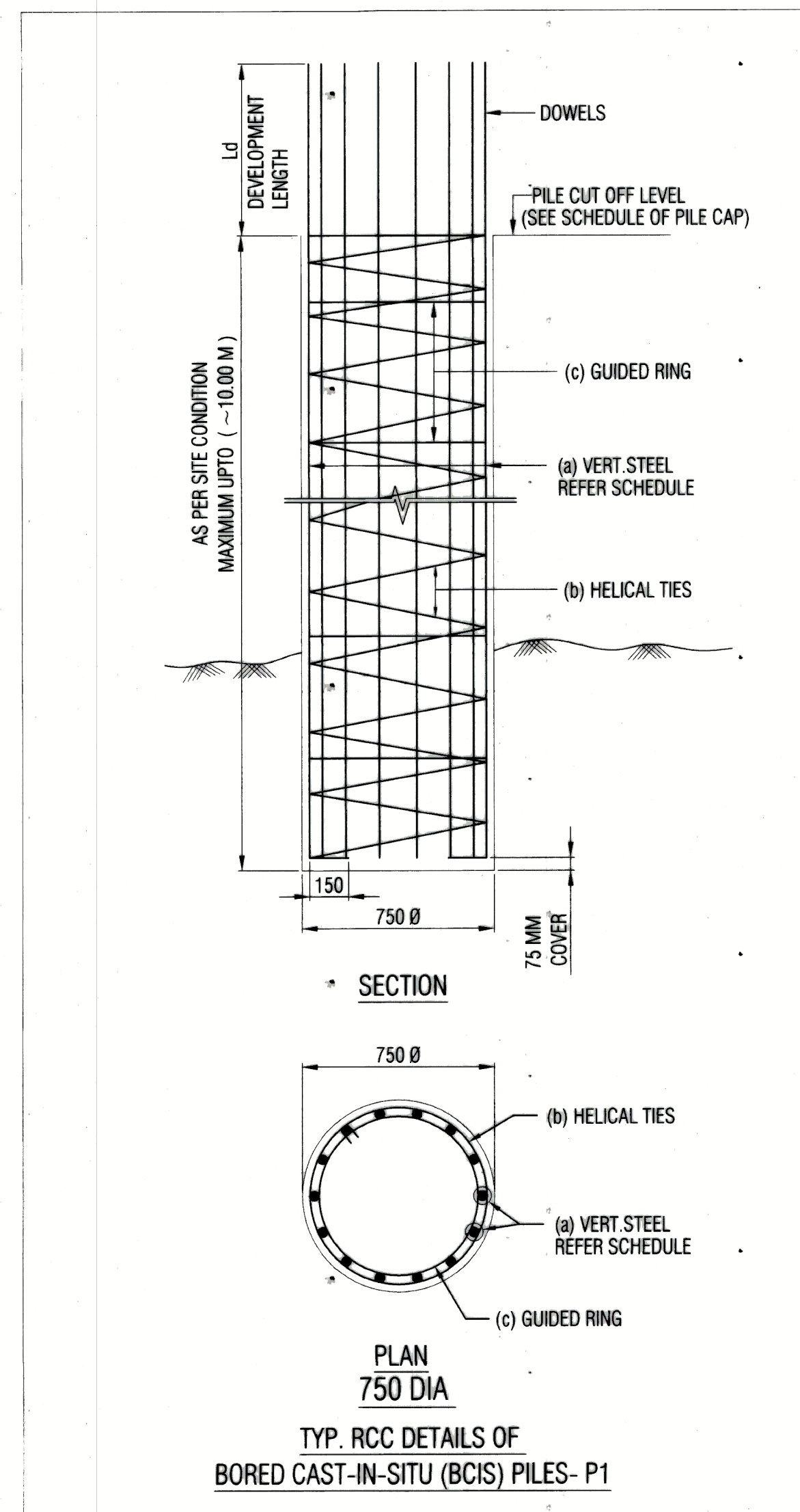
SCHEDULE OF PILE CAP.

PILE CAP NO.	NOS. REQD	NOS. OF PILE IN GROUP	DIA OF PILE	PILE CUT-OFF LEVEL (CoL) (M) SEE NOTE BELOW
PC1	41	02	750	(-) 1.325
PC2	34	03	750	(-) 1.325
PC3	02	04	750	(-) 1.325
PC4	33	06	750	(-) 1.325
PC5	01	08	750	(-) 1.325
PC6	02	10	750	(-) 1.325
PC7	03	12	750	(-) 1.325
PC8	01	09	750	(-) 1.325
PC9	04	15	750	(-) 1.325
PC10	02	06	750	(-) 1.825
PC11	01	12	750	(-) 1.825
PC12	01	09	750	(-) 1.825

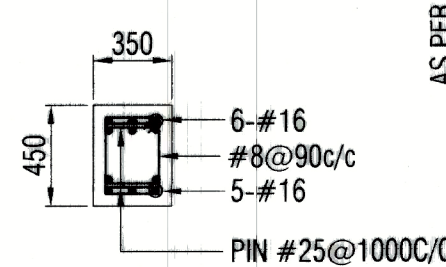
NOTE:- CUT OF LEVEL OF PILES ARE WORKED OUT CONSIDERING NATURAL GROUND LEVEL ELEVATION (NGL) AS ( ± ) 0.00 M

SCHEDULE OF PILE VERTICAL STEEL.

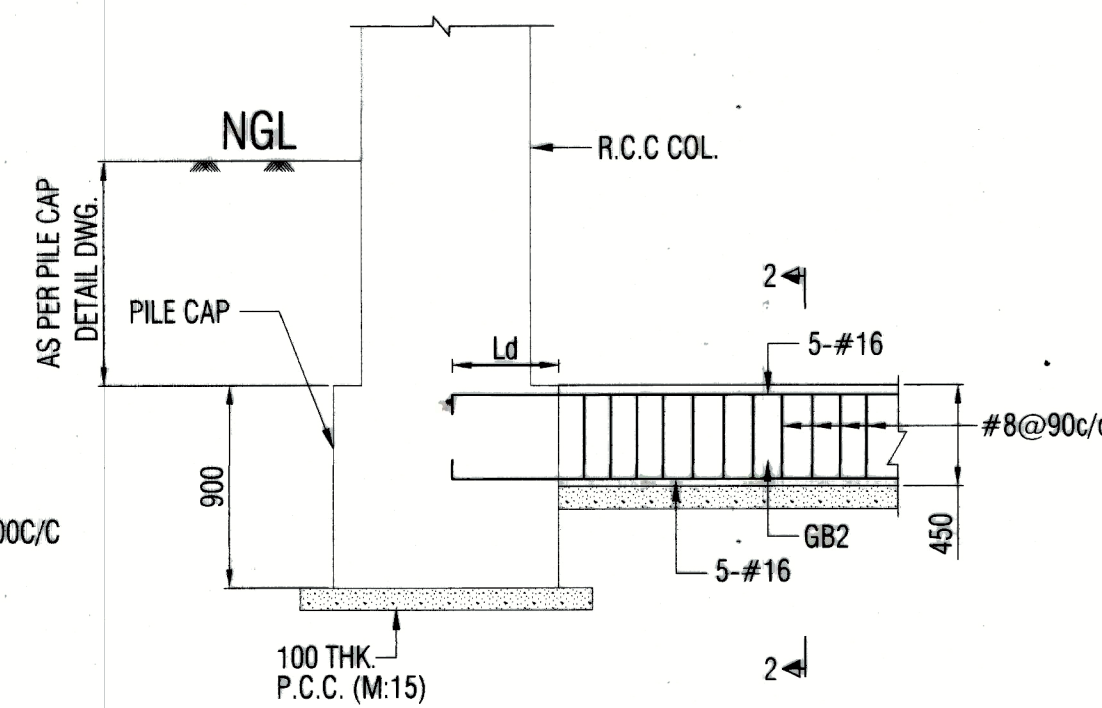
PILE MKD.	DIA OF PILE	VERTICAL STEEL (a)	HELICAL TIES (b)	GUIDED RING (c)	REMARKS
P1	750	14 - #16	#10@150C/C	#16@1000C/C	



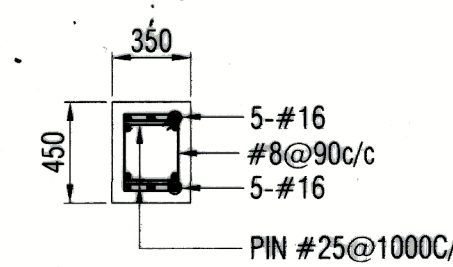
DETAIL OF GRADE BEAM (GB1)  
(350 x 450 DEEP)



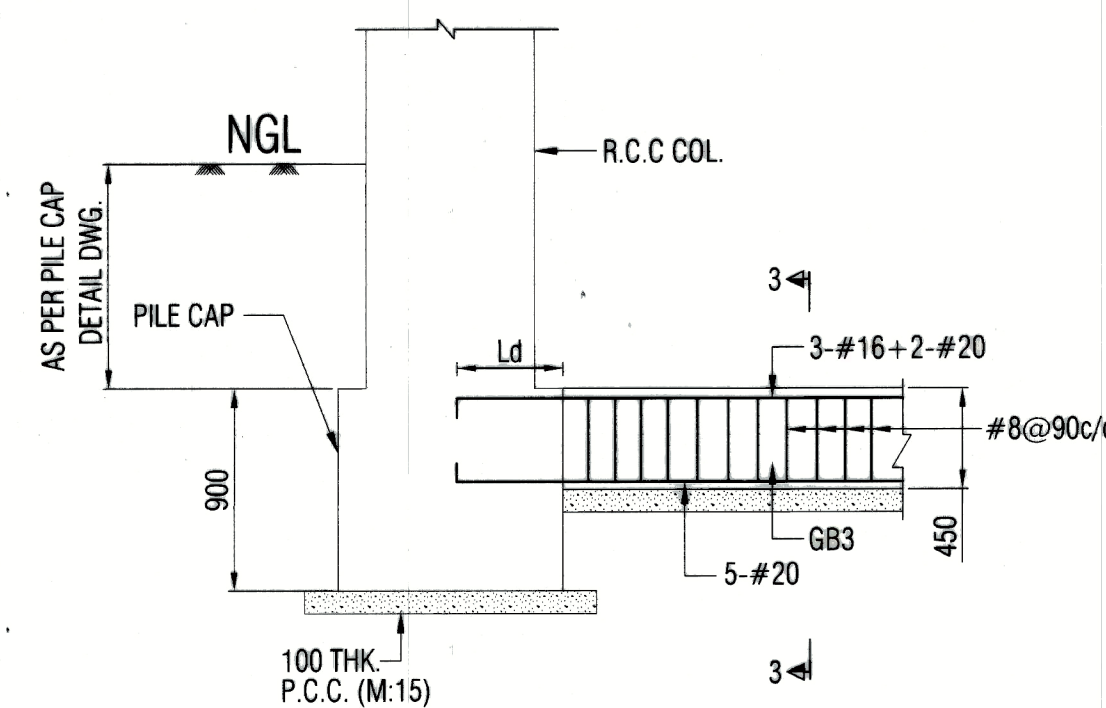
SECTION 1-1



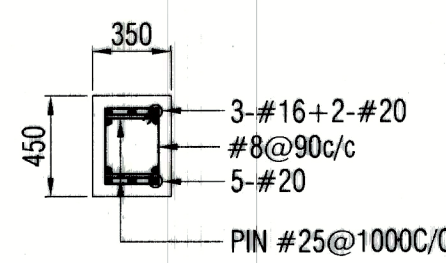
DETAIL OF GRADE BEAM (GB2)  
(350 x 450 DEEP)



SECTION 2-2



DETAIL OF GRADE BEAM (GB3)  
(350 x 450 DEEP)



SECTION 3-3

NOTE:-

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS & CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.
- ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
- ALL ROOM DIMENSION, CENTER LINE DIMENSION SHALL BE SET AS PER ARCHITECTURAL DRAWING.
- FOR STRUCTURAL GENERAL NOTES, REFER DWG. NO. GDR/KPT/005/STR/01.
- FOR STRUCTURAL STANDARD TYPICAL DETAILS, REFER DWG. NO. GDR/KPT/005/STR/02. SHT. 01 & 02
- 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.
- GRADE OF CONCRETE FOR PILES, PILE CAPS AND GRADE BEAM SHALL BE M30 DESIGN MIX. UNLESS NOTED OTHERWISE
- 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 REFERED TO THIS HQ BY GE.
- ROUTINE LOAD TEST ON WORKING PILES SHALL BE CARRIED OUT AS PER IS: 2911 (PART 4)
- CONCRETE OF PILE SHALL BE DONE BY TREMIE METHOD ONLY WITH MS LINER/CASING ONLY. MAXIMUM SIZE OF AGGREGATE SHALL BE 20 MM.
- THE PILING AND PILE CAP WORK SHALL CONFORM TO PROVISIONS IN IS 2911 (PART-1)
- PILING WORK SHALL COMMENCE ONLY AFTER CARRYING OUT INITIAL LOAD TEST AS PER IS 2911-2013 (PART 4) AND WRITTEN APPROVAL BY GE.
- 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.
- THE VERTICAL REINFORCEMENT OF PILE AND COLUMN SHALL BE TAKEN INTO THE PILE CAP FOR FULL DEVELOPMENT LENGTH.
- THE MINIMUM CEMENT CONTENT SHALL BE 400 KG/CUM FOR PILING WORK.
- BORED CAST-IN-SITU CONCRETE PILE (AS PER IS-2911 (PART-1/SEC-2)) HAS BEEN PROPOSED BASED ON SOIL INVESTIGATION REPORT.
- RECORDS OF LOAD TEST RESULTS INCLUDING PHOTOGRAPHIC RECORD OF BOTH INITIAL AND ROUTINE LOAD TEST SHALL BE MAINTAINED BY THE GE.
- GEO-TECHNICAL REPORT IS PREPARED BY "GEO TEST HOUSE"
- THE FOUNDATION STRATA OF EACH PILE SHALL BE APPROVED BY THE GARRISON ENGINEER.
- 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.
- PILE DRAWINGS ARE PREPARED BASED ON COLUMN ALIGNMENTS. EACH COLUMN ALIGNMENT MUST BE CHECKED WITH ARCHITECTURAL DRAWINGS BEFORE EXECUTION.
- BORING OF PILES SHALL BE DONE WITHOUT CAUSING ANY DAMAGE LIKE CAVING OF ADJACENT PILES.
- NON - DESTRUCTIVE INTEGRITY TEST ON ALL THE PILES SHALL BE CARRIED OUT AS PER IS: 2911 PART - 4.
- 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.
- THE PILE SHALL PROTRUDE INTO THE PILE CAP BY ATLEAST 75mm.

CHECKED & VETTED

Dr. Neelima Satyam D.  
Professor  
Department of Civil Engineering  
Indian Institute of Technology Indore  
Simrol, Indore-453552, India

REV.	DATE	DESCRIPTION	SIGNATURE
		REVISIONS	

PROJECT:-  
CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING  
FOR DEENDAYAL PORT AUTHORITY, KANDLA.

NAME OF WORK:-  
ADMINISTRATIVE BUILDING

TITLE:-  
RCC DETAIL OF PILE, PILE CAP, GRADE BEAM &  
SCHEDULE

KANDLA PORT TRUST

SIGNATURE OF CONSULTANT:-  
VISHAL SHAH  
GENERAL MANAGER- DESIGN

CONSULTANT:  
GEO DESIGNS & RESEARCH (P) LTD.

DRAWN BY	BALU NAKUM	DRG. NO.	GDR/KPT/005/STR/11
DESIGNED BY	RICHA	PROJECT NO.	SHEET NO.
REVIEWED BY	HOJEFA	GDBU23005	03 OF 07
SCALE	NOT TO SCALE		RO
DATE	04/07/2024		