

1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.

2. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 35Mpa FOR BORED CAST-IN-SITU PILE AND PILE CAP.

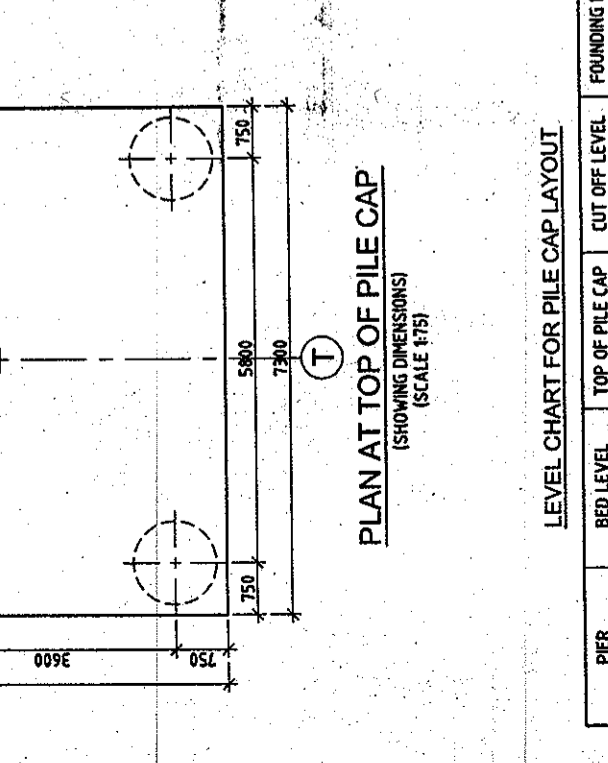
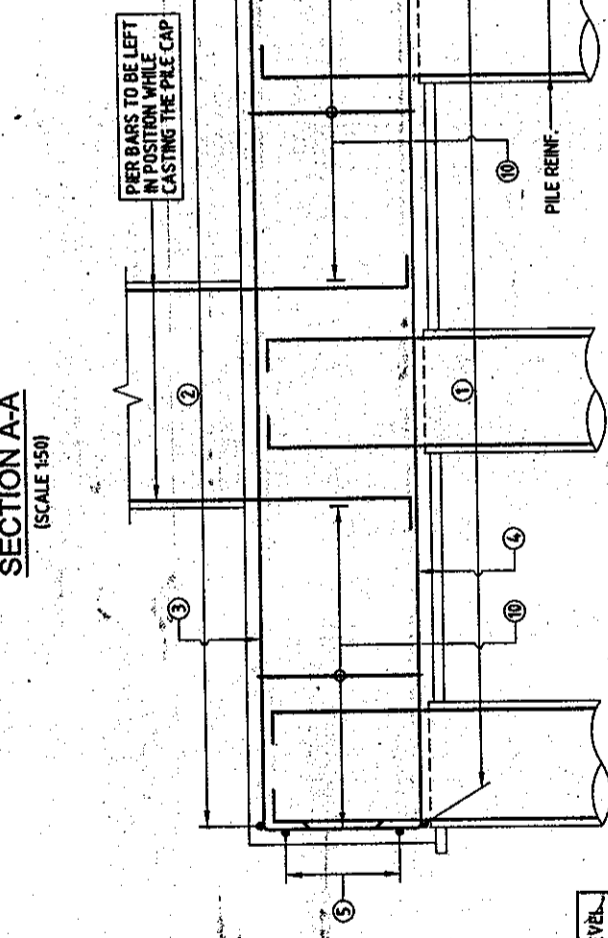
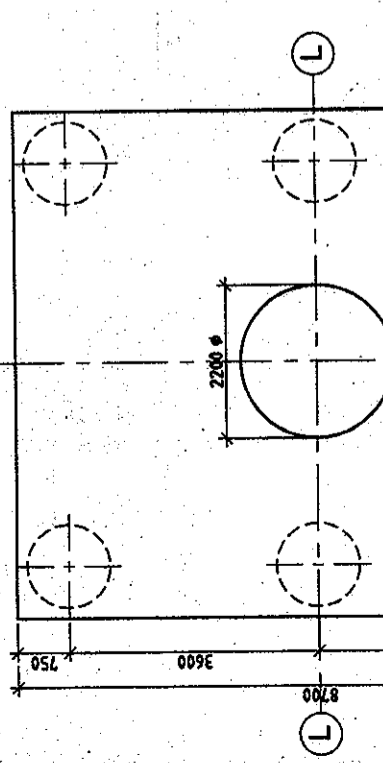
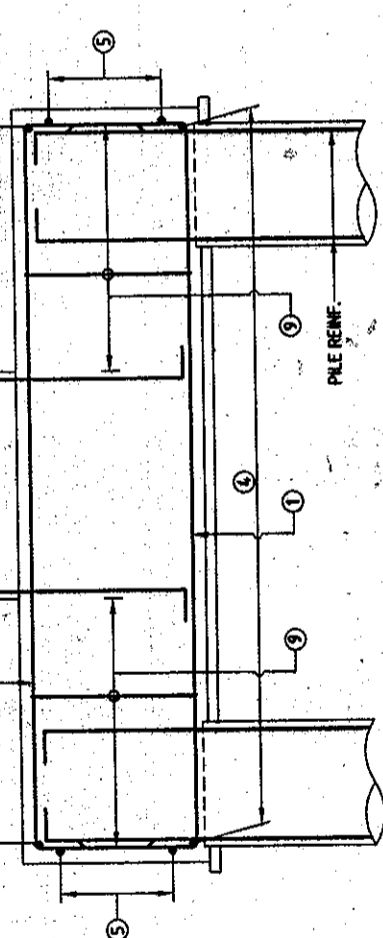
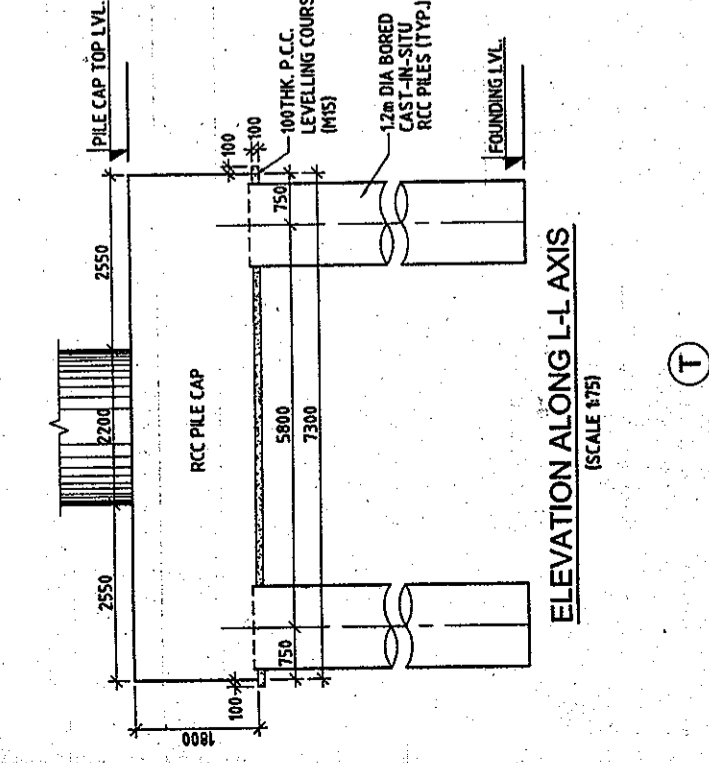
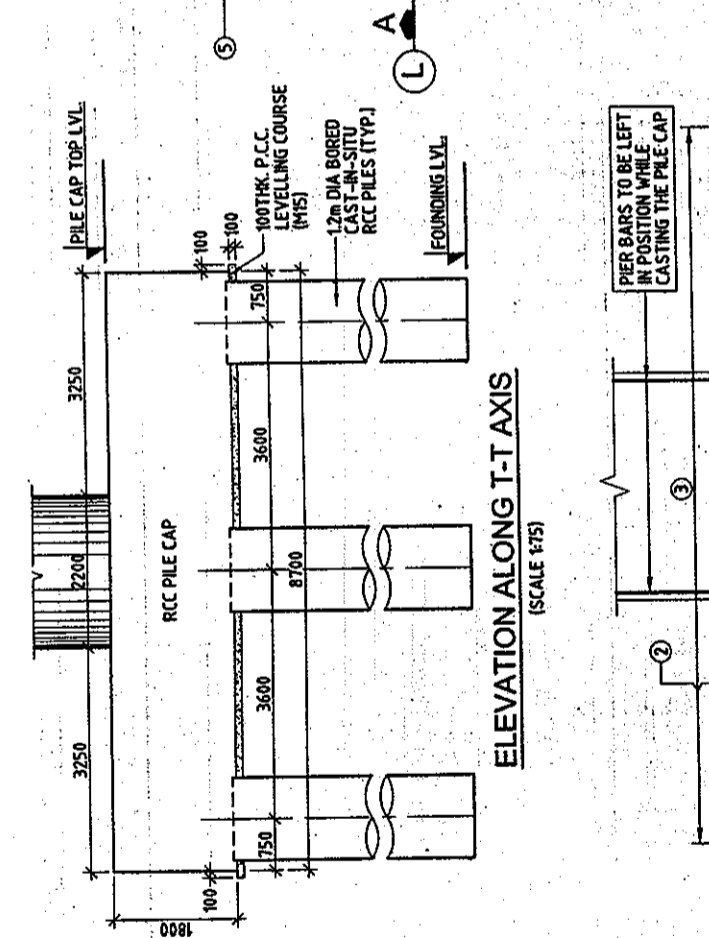
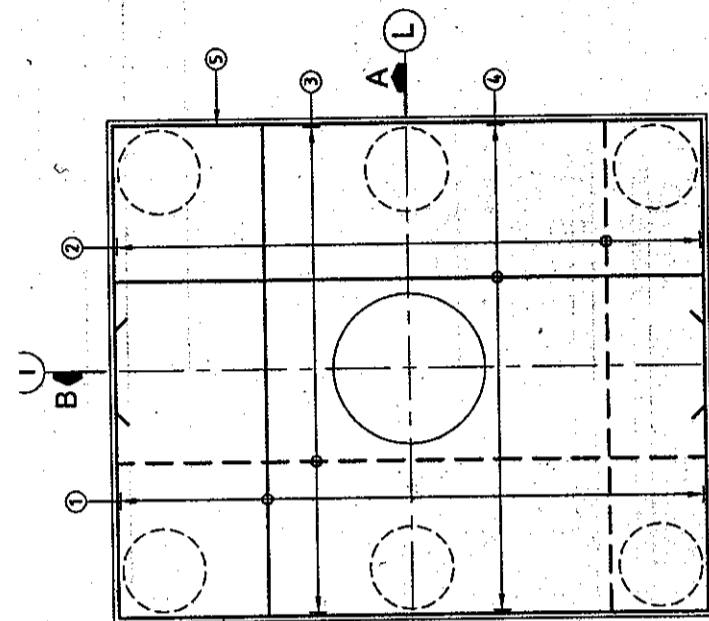
3. CLEAR COVER TO SHALL BE AS FOLLOWS.
 (i) FOR PILE --- 75mm
 (ii) FOR PILE CAP --- 75mm

4. TMT HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING TO IS:1786 SHALL ONLY BE USED.

5. MINIMUM BOND LENGTH SHALL BE 42 x DIA OF BAR.
 6. MINIMUM LAP LENGTH FOR REINFORCEMENT BAR SHALL BE 72 x DIA OF BARLAPS SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY ONE SECTION.

7. LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
 8. ACTUAL LOAD TEST SHALL BE CARRIED OUT ON A TEST PILE AS PER STANDARD SPECIFICATIONS TO DETERMINE VERTICAL AND LATERAL CAPACITY OF PILE. IT SHALL HOWEVER BE ENSURED THAT IT IS NOT LESS THAN DESIGN VALUES.

REFERENCE DRAWINGS:-
 i) 1213/SMC/LUDHIANA/21+100/G-01 (SHEET 1 OF 7 TO 7 OF 7)
 ii) 1213/SMC/LUDHIANA/21+100/E-05 (SHEET 2 OF 2)



REINFORCEMENT DETAIL

BAR NO.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	62 Nos.	[Symbol]
2	16	150	[Symbol]
3	16	150	[Symbol]
4	25	67 Nos.	[Symbol]
5	16	8 Nos.	[Symbol]
7	25	32 Nos.	[Symbol]
8	10	200	[Symbol]
8a	10	100	[Symbol]
9	16	150	[Symbol]
10	16	150	[Symbol]

LEGENDS:
 BAR ON TOP FACE
 APPROVED FOR EXECUTION
 ISSUED

Assistant Engineer Design (IP)
 Executive Engineer Design (IP)
 Chief Engineer (IP)

PUNJAB P.W.D. (B & R)

LEVEL CHART FOR PILE CAP LAYOUT

PIER DESIGNATION	BED LEVEL	TOP OF PILE CAP LEVEL	CUT OFF LEVEL	FOUNDING LEVEL
P5	246.795	246.295	244.545	230.845

PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BY-PASS LUDHIANA

PROJECT TITLE:

CONSULTANT: **SMC**
 SMC (Punjab) Pvt. Ltd.
 6/F BUILDING IN S.C. TOWER, 6th FLOOR,
 CHANDRY, PHASE-1, GURGAON,
 HARYANA-122002

CLIENT: **PIDB**
 PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

REVISIONS:

REV	DATE	DESIGN	CHECKED	APPROVED	REVISIONS
R1	27/09/2009	VNM	S.L.HIRI	S.L.HIRI	REVISED AS PER P.B. PWD COMMENTS
R0	26/05/2009	VNM	S.L.HIRI	S.L.HIRI	FIRST ISSUE

SCALE: AS SHOWN
 SHEET SIZE: A2
 PROJECT NO: 1213/SMC/LUDHIANA/21+100/E-05 (SHEET 1 OF 2)
 DRAWN: DPR
 DIMENSIONS: 1213/SMC/LUDHIANA/21+100/E-05 R1