

NOTES:-

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.

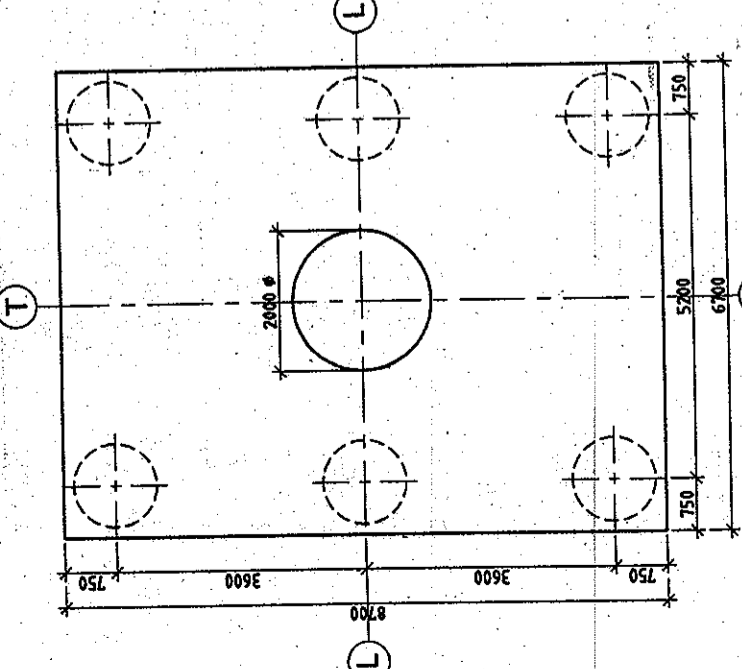
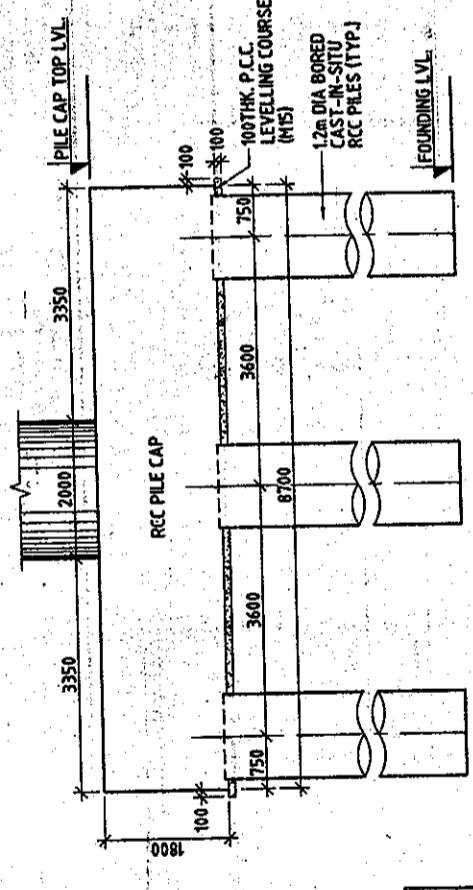
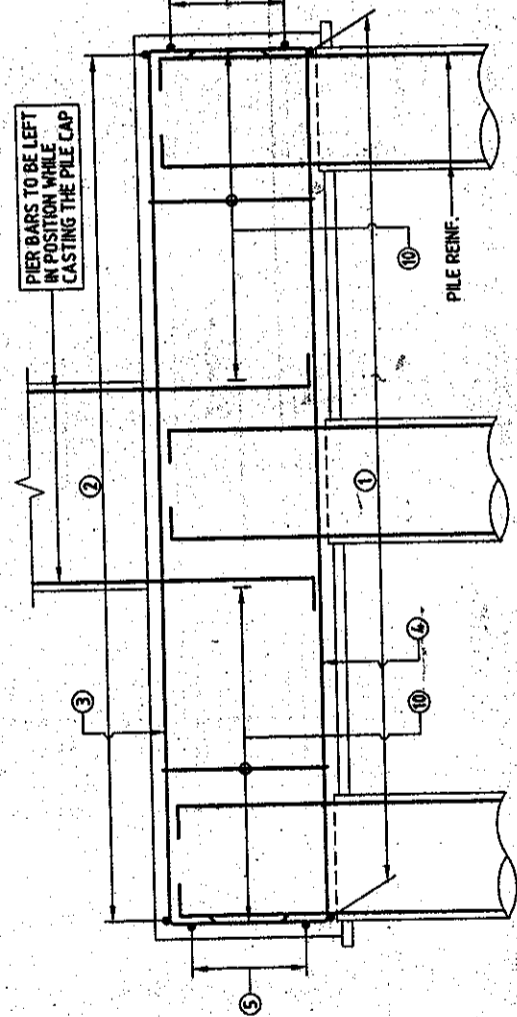
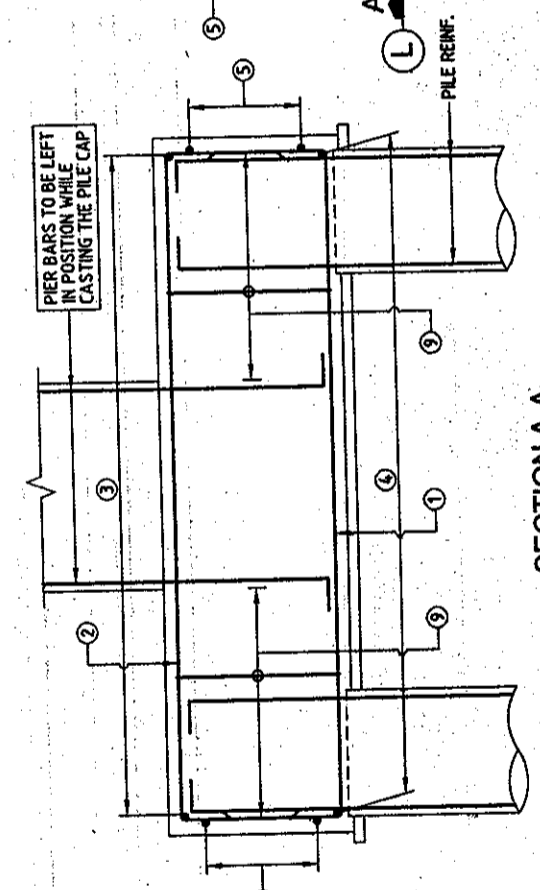
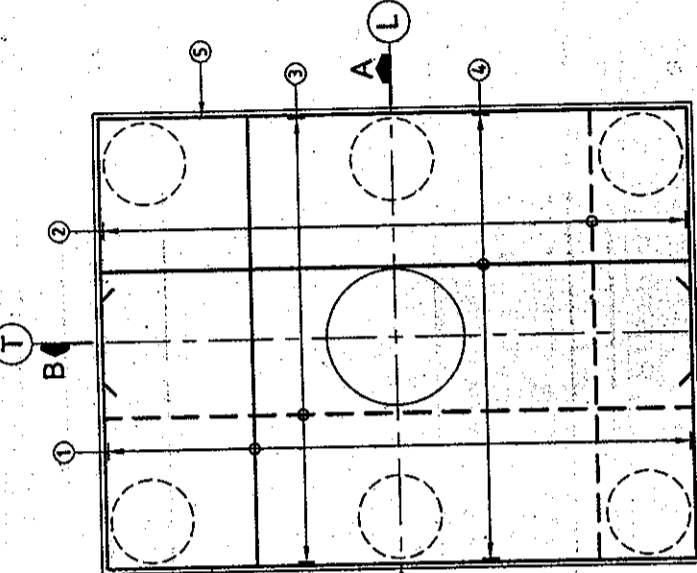
REFERENCE DRAWINGS:-

- i) 12/13/SMEC/LUDHIANA/22+005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
- ii) 12/13/SMEC/LUDHIANA/22+005/E-09 (SHEET 2 OF 2)

REINFORCEMENT DETAIL:-

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	52 Nos.	[]
2	16	150	[]
3	16	150	[]
4	25	56 Nos.	[]
5	16	8 Nos.	[]
7	25	28 Nos.	[]
8	10	200	[]
8a	10	100	[] 7 LEGGED
9	16	150	[]
10	16	150	[] 6 LEGGED

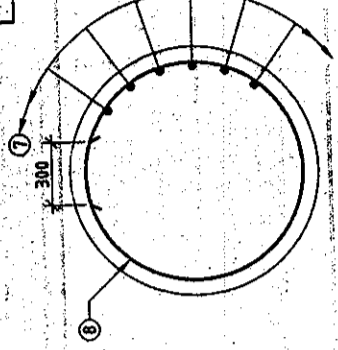
LEGENDS:
APPROVED FOR EXECUTION
 23/10/2009
 Assistant Engineer Design (IP)
 23/10/2009
 Executive Engineer Design (IP)
 Chief Engineer (IP)
 PUNJAB P.W.D. (B & R)



LEVEL CHART FOR PILE CAP LAYOUT

PIER DESIGNATION	BED LEVEL	TOP OF PILE CAP LEVEL	CUT OFF LEVEL	FOUNDING LEVEL
P14	246.703	246.203	244.453	230.753

R.C.C. DETAILS OF PILE SECTION C-C (SCALE 1/75)



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

THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SMEC INDIA PVT. LTD. AND IS ISSUED TO THE PARTY FOR THE SPECIFIC PURPOSE AS STATED IN THE AGREEMENT AND IT SHALL NOT BE REPRODUCED, COPIED, LOANED OR OTHERWISE DISPOSED OFF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE OTHER THAN FOR WHICH IT IS ISSUED.

REV	DATE	BY	CHECKED	APPROVED	DETAILS OF REVISION
R1	20/08/2009	MKS	VNM	VNM	REVISED AS PER PR.PWD COMMENTS
R0	20/05/2009	MKS	VNM	VNM	FIRST ISSUE

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

CONSULTANT: **SMEC**
 SMEC (INDIA) PVT. LTD.
 8/F BUILDING NO. 3, C-1 TORNSHAW FLOOR,
 CHANDIGARH, INDIA - 160002
 TEL: 0172-430042, 430100

CLIENT: **PIDB**
 PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD
 H-1/STRUCTURE/12/13/VFNA/DPR/Revised Drawings R2 (Feb 08) Bridge Gt. 22+005/15/10/VER CH22+005 E-49.dwg

SCALE: AS SHOWN
 SHEET SIZE: A2
 SHEET NO: 21
 PROJECT NO: 12/13/SMEC/LUDHIANA/22+005/E-09
 DRAWN: DPR
 CHECKED: DRW
 APPROVED: R1