

- 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.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 35mpa FOR BORED CAST-IN-SITU PILE AND PILE CAP.
- CLEAR COVER TO SHALL BE AS FOLLOWS.
 - (i) FOR PILE --- 75mm
 - (ii) FOR PILE CAP --- 75mm
- THE HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING TO IS-1786 SHALL ONLY BE USED.
- MINIMUM BOND LENGTH SHALL BE 42 x DIA OF BAR.
- 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.
- LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
- 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/22+005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
 ii) 1213/SMC/LUDHIANA/22+005/E-05 (SHEET 2 OF 2)

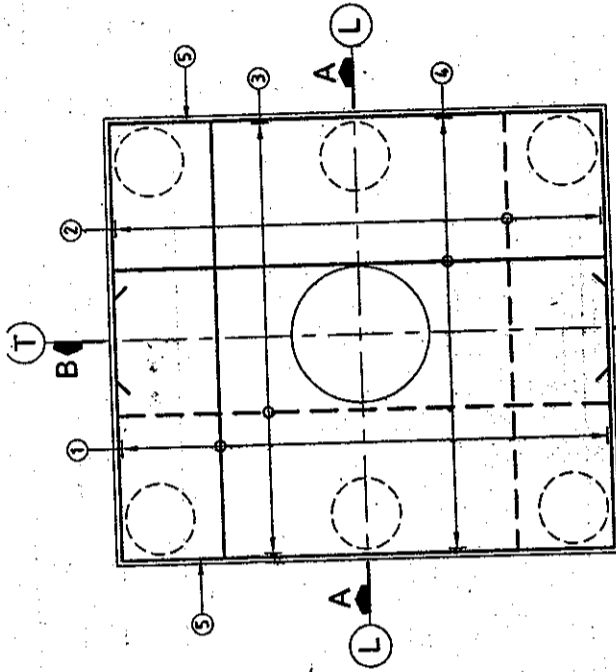
BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	64 Nos.	[]
2	16	150	[]
3	16	150	[]
4	25	54 Nos.	[]
5	16	8 Nos.	[]
7	25	26 Nos.	[]
8	10	200	[]
8a	10	100	[]
9	16	150	[] 6 LEGGED
10	16	150	[] 5 LEGGED

LEGENDS:
 --- BAR ON TOP FACE
 --- APPROVED FOR EXECUTION
 --- ISSUED

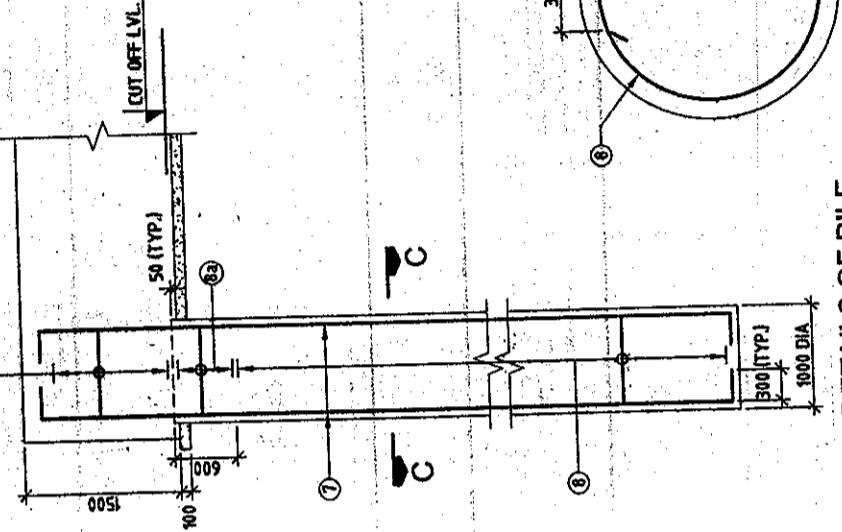
22/10
 Assistant Engineer
 Design (IP)
 PUNJAB P.W.D. (B & R)

22/10
 Executive Engineer
 Design (IP)
 Chief Engineer
 IP

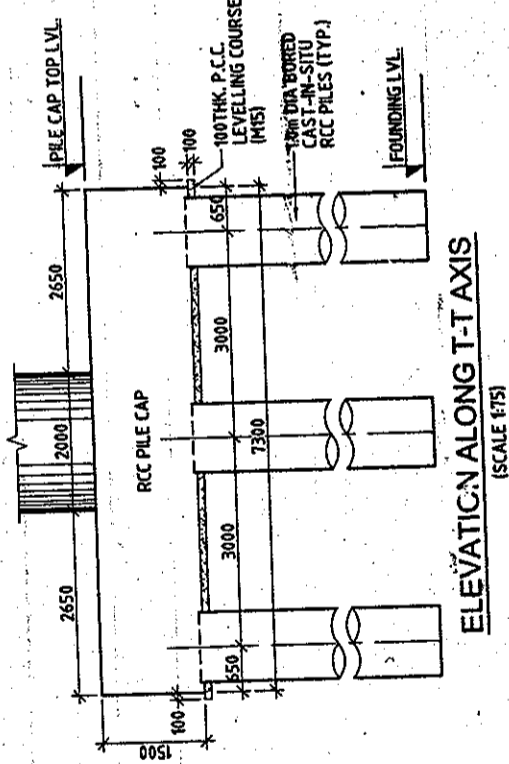
DETAILED PROJECT REPORT
 DIMENSIONAL & REINF. DETAILS OF
 PILE, PILE CAP, PIER & PIER CAP
 (SHEET 1 OF 8)
 1213/SMC/LUDHIANA/22+005/E-05
 R1



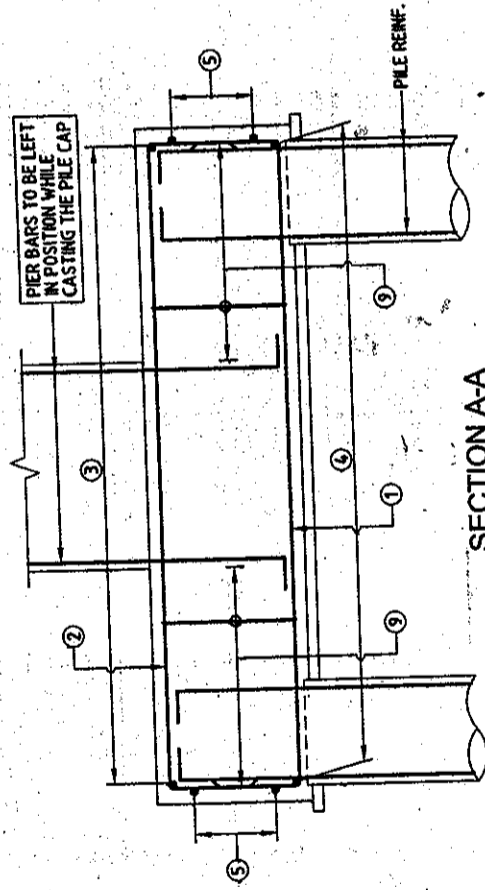
PLAN
 (SHOWING PILE CAP REINFORCEMENT)
 (SCALE 1/75)



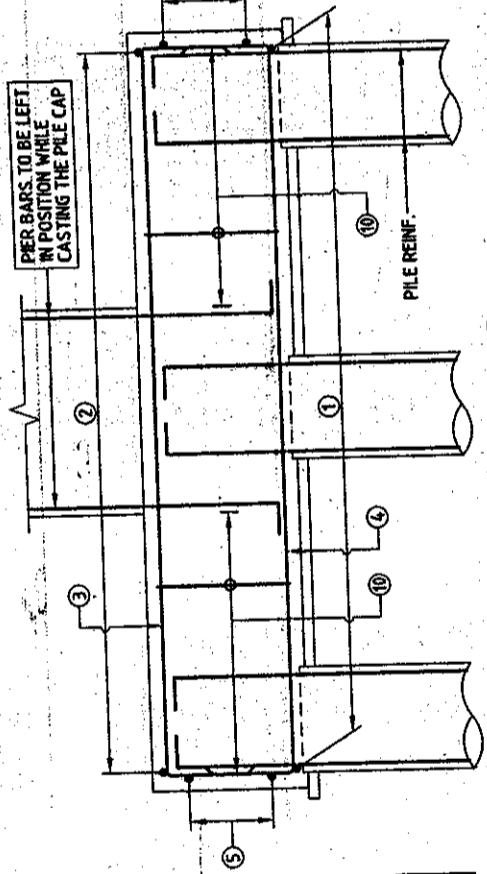
SECTION C-C
 (SCALE 1/20)



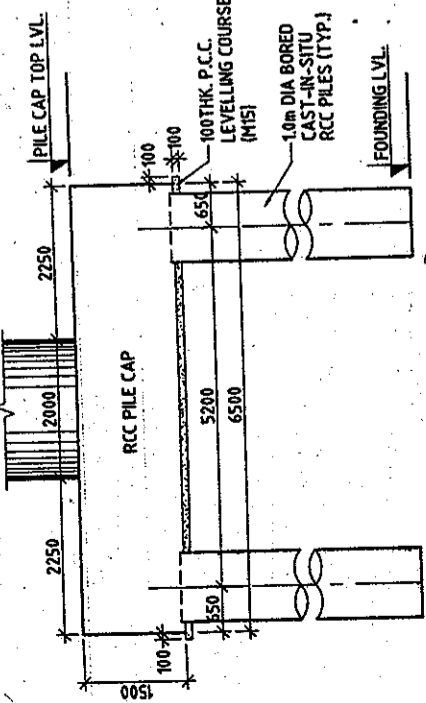
ELEVATION ALONG T-T AXIS
 (SCALE 1/75)



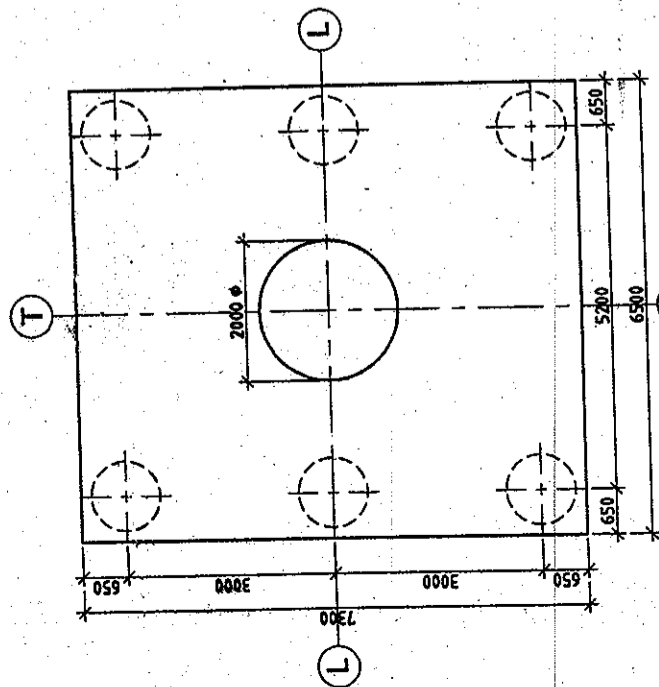
SECTION A-A
 (SCALE 1/50)



SECTION B-B
 (SCALE 1/50)



ELEVATION ALONG L-L AXIS
 (SCALE 1/75)



PLAN AT TOP OF PILE CAP
 (SHOWING DIMENSIONS)
 (SCALE 1/75)

PIER DESIGNATION	BED LEVEL	TOP OF PILE CAP LEVEL	CUT OFF LEVEL	FOUNDING LEVEL
P5	246.521	246.021	244.571	230.571

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

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 PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

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

REVISIONS:

REV	DATE	DRAWN	CHECKED	DESIGN	APPROVED	REVISION COMMENTS
R1	28/08/2009	MKS	VNM	VNM	S LAHIRI	REVISED AS PER P.B. PWD COMMENTS
R0	22/05/2009	MKS	VNM	VNM	S LAHIRI	FIRST ISSUE

SCALE: AS SHOWN
 SHEET SIZE: A2
 DRW: DPR
 SHEET 1 OF 8