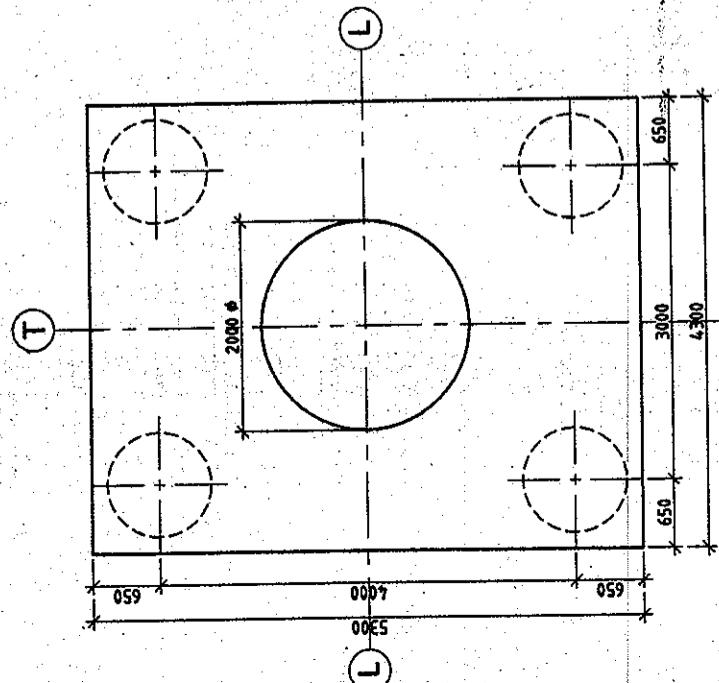


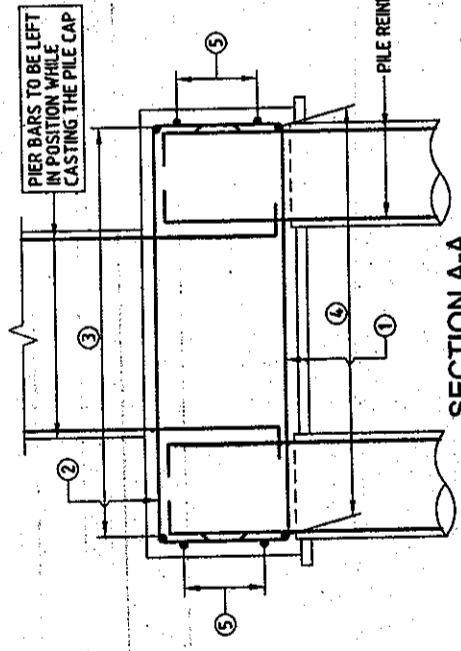
ELEVATION ALONG L-L AXIS  
(SCALE 1:50)



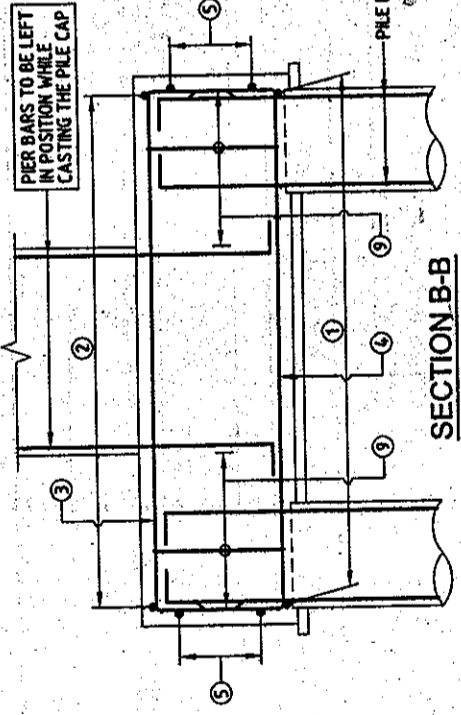
PLAN AT TOP OF PILE CAP  
(SHOWING DIMENSIONS)  
(SCALE 1:50)

LEVELS CHART FOR PILE CAP LAYOUT

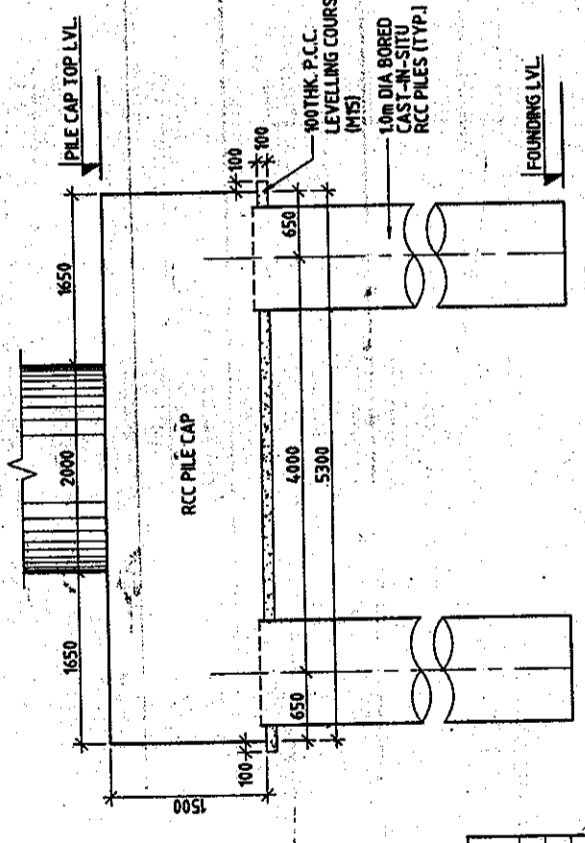
PIER DESIGNATION	BED LEVELS	TOP OF PILE CAP LEVELS	CUT OFF LEVELS	FOUNDING LEVELS
P2	246.648	246.168	244.698	230.698
P3	246.577	246.077	244.627	230.627
P6	246.510	246.010	244.560	230.560
P10	246.709	246.209	244.759	230.759
P12	246.688	246.188	244.738	230.738
P13	246.676	246.176	244.726	230.726



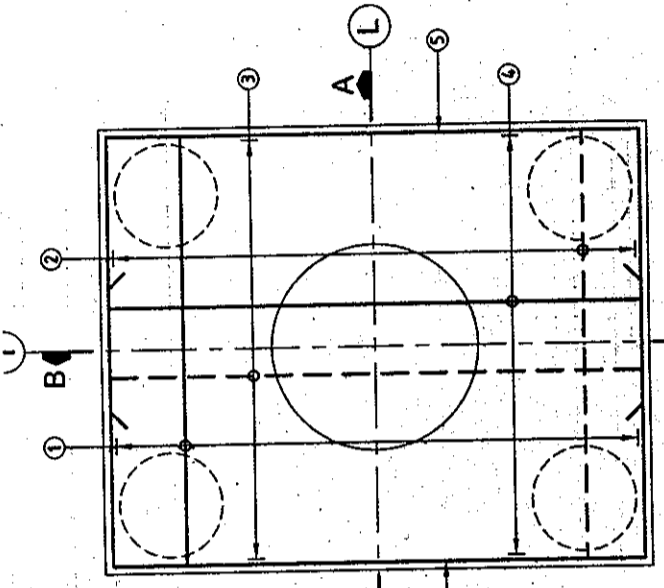
SECTION A-A  
(SCALE 1:50)



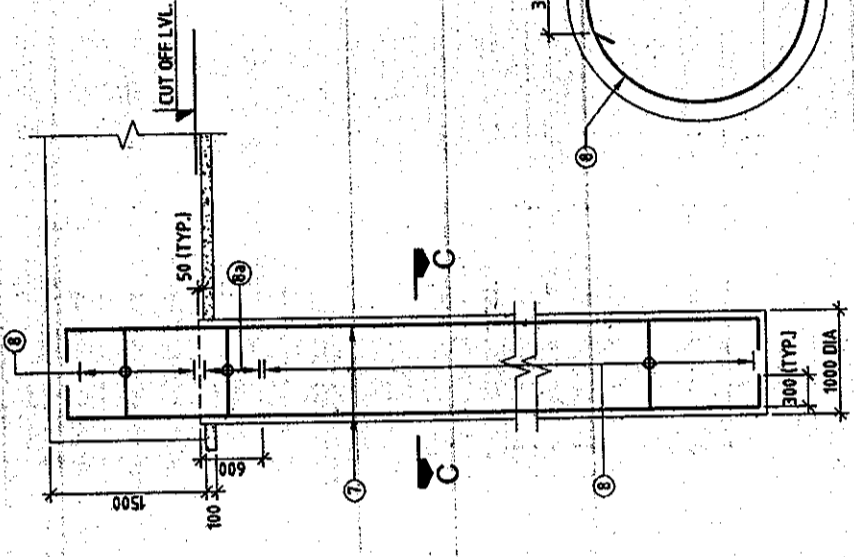
SECTION B-B  
(SCALE 1:50)



ELEVATION ALONG T-T AXIS  
(SCALE 1:50)



PLAN  
(SHOWING PILE CAP REINFORCEMENT)  
(SCALE 1:50)



SECTION C-C  
(SCALE 1:20)

REINFORCEMENT DETAIL:

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	27 Nos.	┌
2	16	150	┌
3	16	150	┌
4	25	35 Nos.	┌
5	16	8 Nos.	┌
7	25	15 Nos.	┌
8	10	200	○
8a	10	100	○
9	16	150	□ 4 LEGGED

LEGENDS:

BAR ON TOP FACE  
APPROVED FOR EXECUTION  
ISSUED

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

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

- 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 FOR REINFORCEMENT BAR SHALL BE 72 x DIA OF BAR/LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY ONE SECTION.
- L-L REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND T-T 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:-

- 1213/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
- 1213/SMEC/LUDHIANA/22-005/E-03 (SHEET 2 OF 2)

SCALE: AS SHOWN

SHEET SIZE: A2

REVISIONS:

REV	DATE	DRAWN	DESIGN	CHECKED	APPROVED	REVISIONS
R1	28/08/2009	MKS	VNM	VNM	S L/H/RI	REVISED AS PER P.R. PWD COMMENTS
R0	21/05/2009	MKS	VNM	VNM	S L/H/RI	FIRST ISSUE

DETAILS OF REVISION

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

CONSULTANT: SMEC

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

DATE: 14/05/2009

PROJECT NO: 1213/SMEC/LUDHIANA/22-005 E-03.dwg

PROJECT NO: 1213/SMEC/LUDHIANA/22-005 E-08

PROJECT NO: 1213/SMEC/LUDHIANA/22-005 E-08