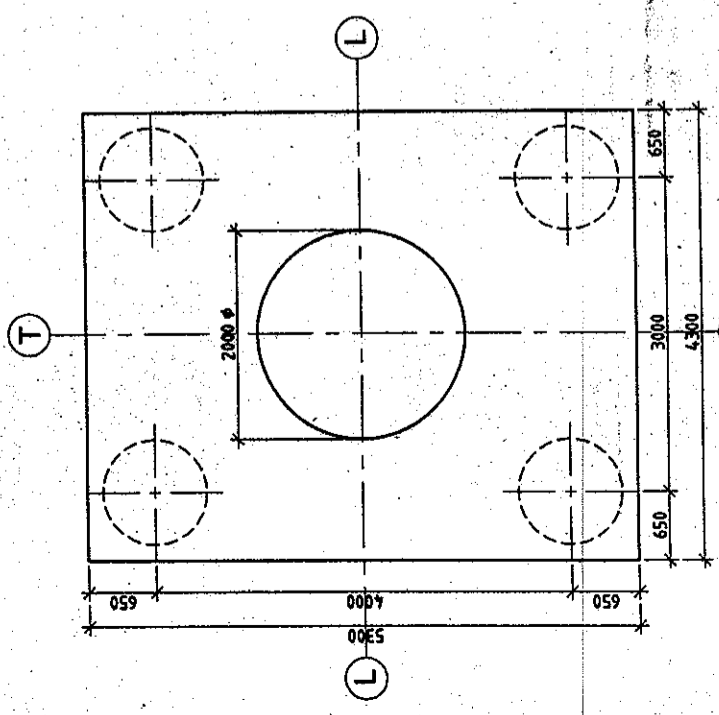


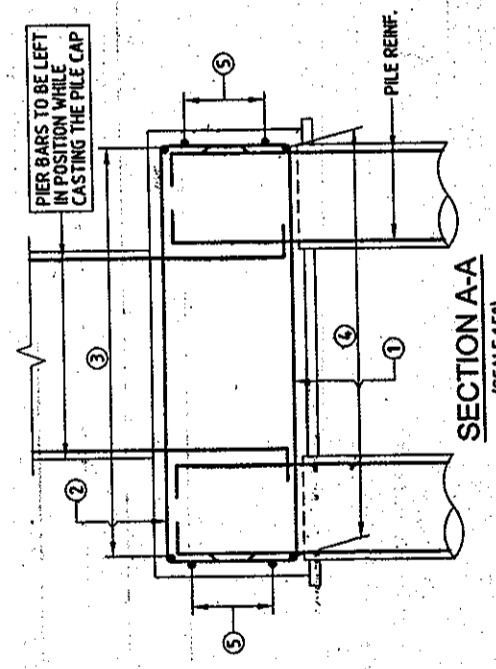
ELEVATION ALONG L-L AXIS
(SCALE 1:50)



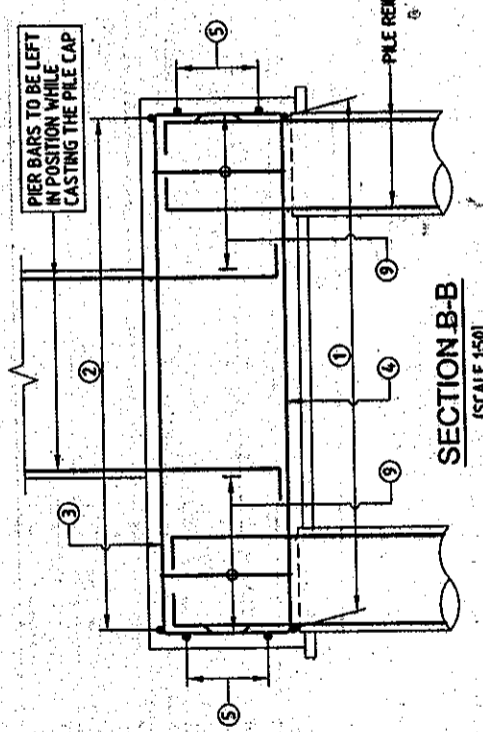
PLAN AT TOP OF PILE CAP
(SHOWING DIMENSIONS)
(SCALE 1:50)

PIER DESIGNATION	BED LEVELS	TOP OF PILE CAP LEVELS	CUT OFF LEVELS	FOUNDING LEVELS
P2	246.703	246.203	244.753	230.753
P3	246.723	246.223	244.773	230.773
P6	246.818	246.318	244.868	230.868
P7	246.832	246.332	244.882	230.882
P12	246.604	246.104	244.654	230.654
P13	246.572	246.072	244.622	230.622
P16	246.580	246.080	244.630	230.630
P17	246.590	246.090	244.640	230.640

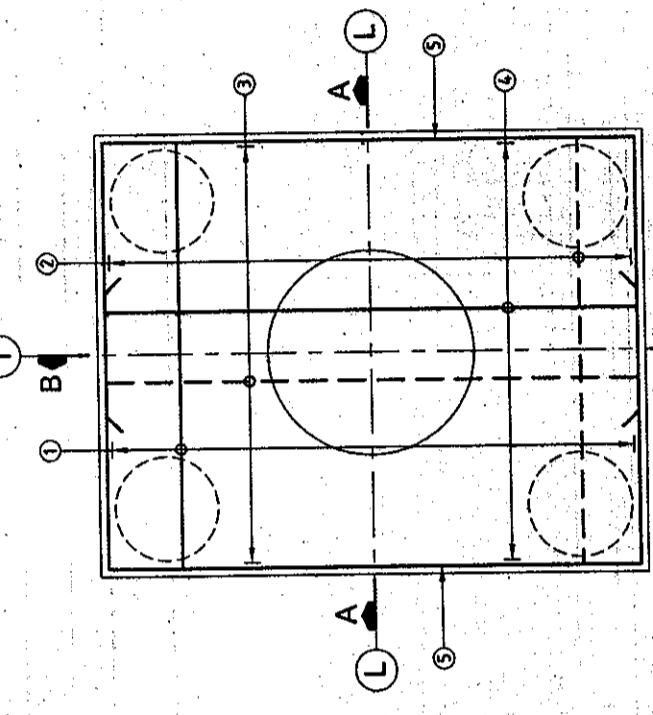
LEVELS CHART FOR PILE CAP LAYOUT



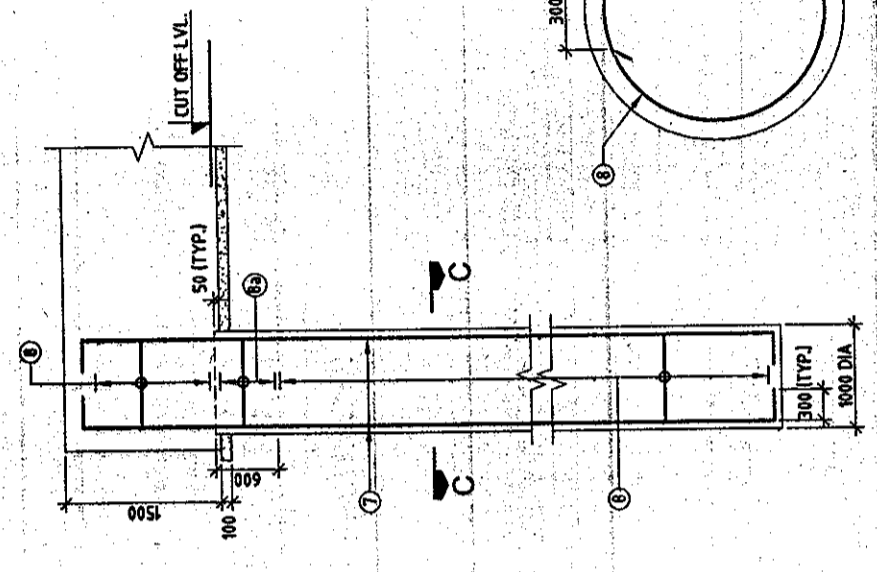
SECTION A-A
(SCALE 1:50)



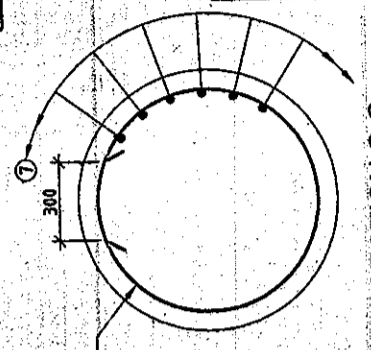
SECTION B-B
(SCALE 1:50)



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



R.C.C. DETAILS OF PILE
(SCALE 1:50)



SECTION C-C
(SCALE 1:20)

BAR NO.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	19 Nos.	[L]
2	16	150	[L]
3	16	150	[L]
4	25	37 Nos.	[L]
5	16	8 Nos.	[L]
7	25	15 Nos.	[L]
8	10	200	[O]
8a	10	100	[O]
9	16	150	[L] 4 LEGGED

REINFORCEMENT DETAIL

LEGENDS:

APPROVED BY: *[Signature]* Chief Engineer (IP)

DESIGNED BY: *[Signature]* Executive Engineer (IP)

PROJECT: PINJAB 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
- TMT 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:-

- 1219/SM/EC/LUDHIANA/211-100/G-01 (SHEET 1 OF 7 TO 7)
- 1219/SM/EC/LUDHIANA/211-100/E-03 (SHEET 2 OF 2)

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CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT: SMC PVT. LTD.
SMC (INDIA) PVT. LTD.
D/F BUILDING NO. 8, C TOWER, 2ND FLOOR,
CHIBET CITY, PHASE-1, GURGAON,
TARU, HARYANA-122002, INDIA

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

REV	DATE	BY	CHKD	DESIGN	CHECKED	APPROVED	REVISION
R1	27/08/2009	MKS	VNM	S/HR	S/HR	S/HR	REVISED AS PER P.B. PWD COMMENTS
R0	25/05/2009	MKS	VNM	S/HR	S/HR	S/HR	FIRST ISSUE

SCALE: AS SHOWN

SHEET SIZE: A2

DETAILED PROJECT REPORT

DIMENSIONAL & REINFT. DETAILS OF PILE, PILE CAP, PIER & PIER CAP

1219/SM/EC/LUDHIANA/211-100/E-03

SHEET 1 OF 2

DRW: [Signature] DEP

78

