



- 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:-

- 1) 12/13/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
- 2) 12/13/SMEC/LUDHIANA/22-005/E-08 (SHEET 2 OF 2)

REINFORCEMENT DETAIL:

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	62 Nos.	┌
2	16	150	┌
3	16	150	┌
4	25	52 Nos.	┌
5	16	8 Nos.	┌
7	25	26 Nos.	┌
8	10	200	○
8a	10	100	○
9	16	150	▤ 6 LEGGED
10	16	150	▤ 6 LEGGED

LEGENDS:

- BAR ON TOP FACE
- BAR ON BOTTOM FACE

APPROVED FOR EXECUTION

ISSUED: 2/5/10

Design (IP): [Signature]

Executive Engineer: [Signature]

Chief Engg (IP): [Signature]

Design (IP): [Signature]

LEVEL CHART FOR PILE CAP LAYOUT

PIER DESIGNATION	BED LEVEL	TOP OF PILE CAP LEVEL	CUT OFF LEVEL	FOUNDING LEVEL
P9	246.696	246.196	244.746	230.746

PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYEPASS LUDHIANA

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT: SMEC (INDIA) PVT. LTD.

PROJECT TITLE: PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYEPASS LUDHIANA

SCALE: AS SHOWN

SHEET SIZE: A2

REV: R1, R0

DATE: 23/05/2009

DESIGN: VNM

CHECKED: VNM

DRAWN: MKS

APPROVED: VNM

REVISIONS: REVISED AS PER P.B. PWD COMMENTS, FIRST ISSUE

DETAILS OF REVISION: [Table with columns for REV, DATE, DESIGN, CHECKED, APPROVED]

PROJECT REPORT: DIMENSIONAL & REINFT. DETAILS OF PILE, PILE CAP, PIER & PIER CAP

SHEET 1 OF 2

12/13/SMEC/LUDHIANA/22-005/E-08

R1

