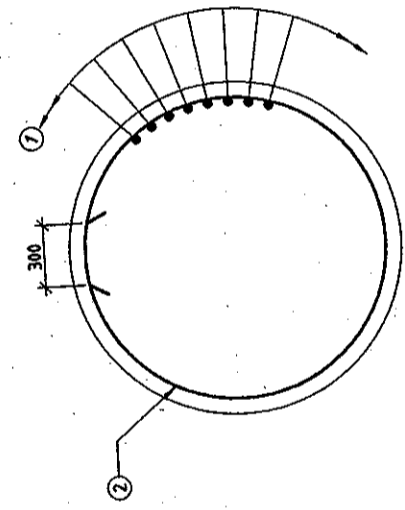
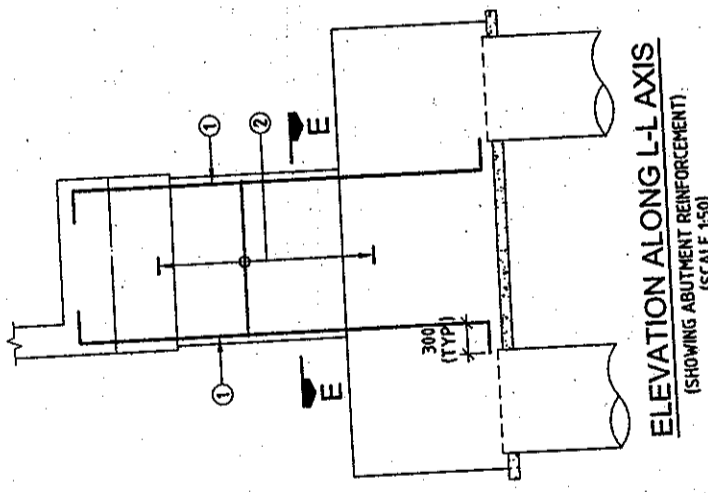
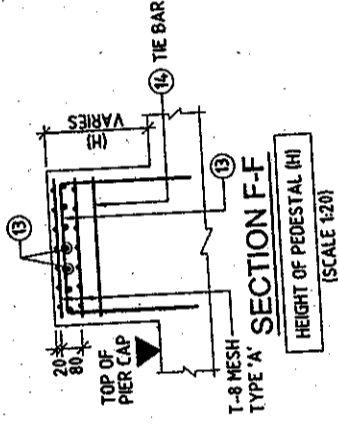
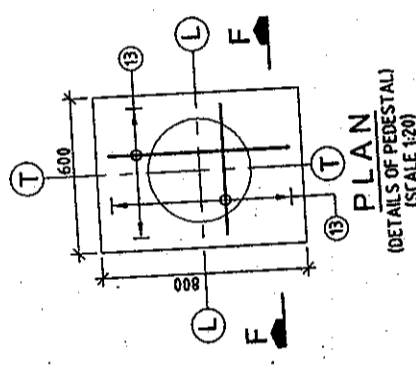
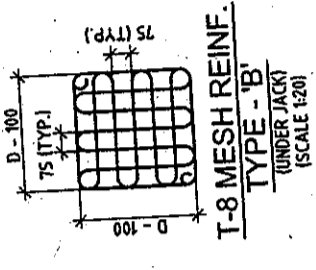
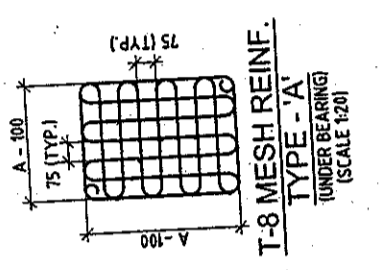
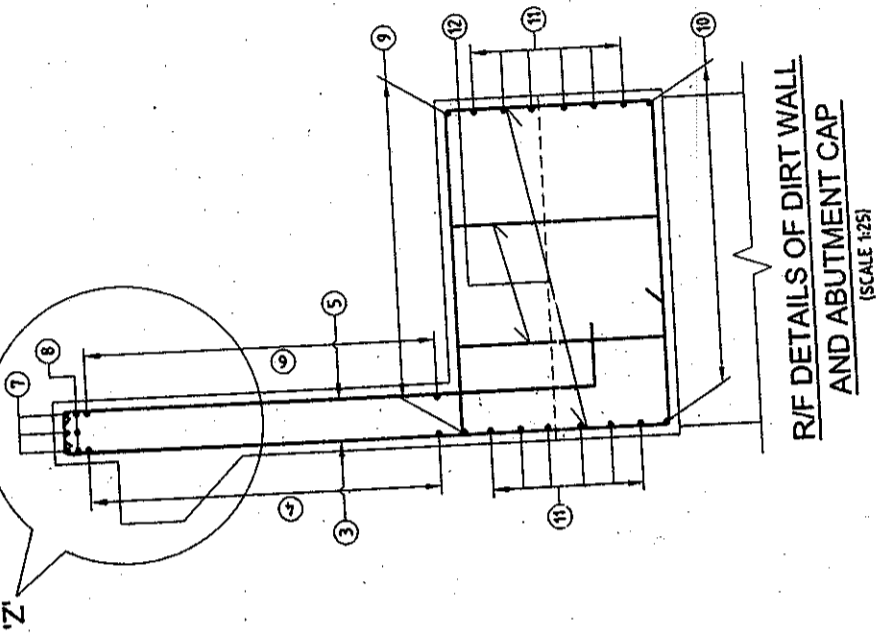
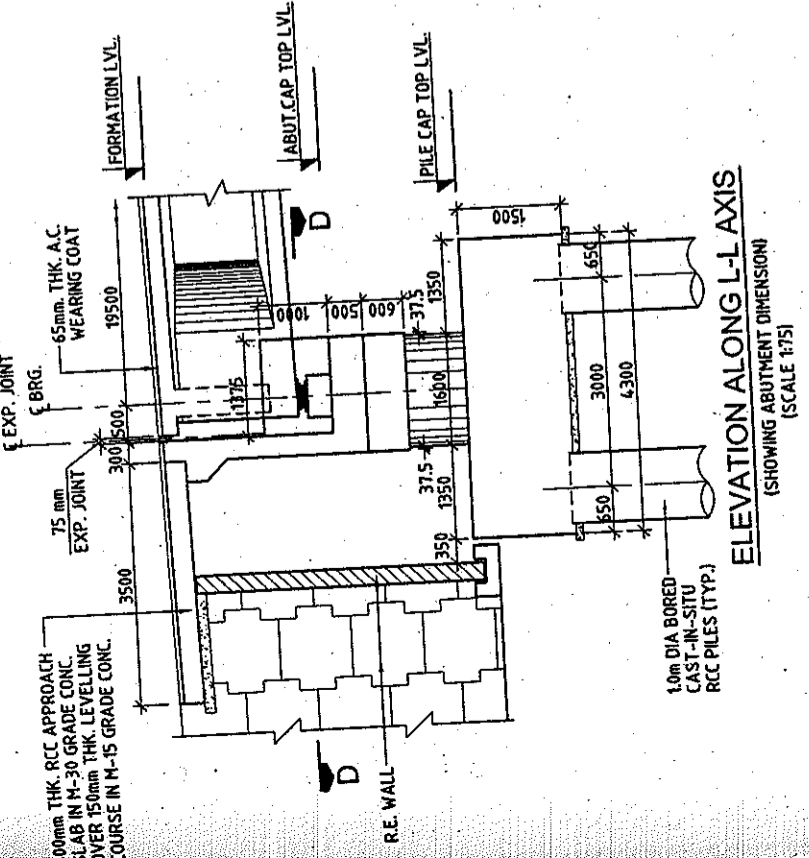
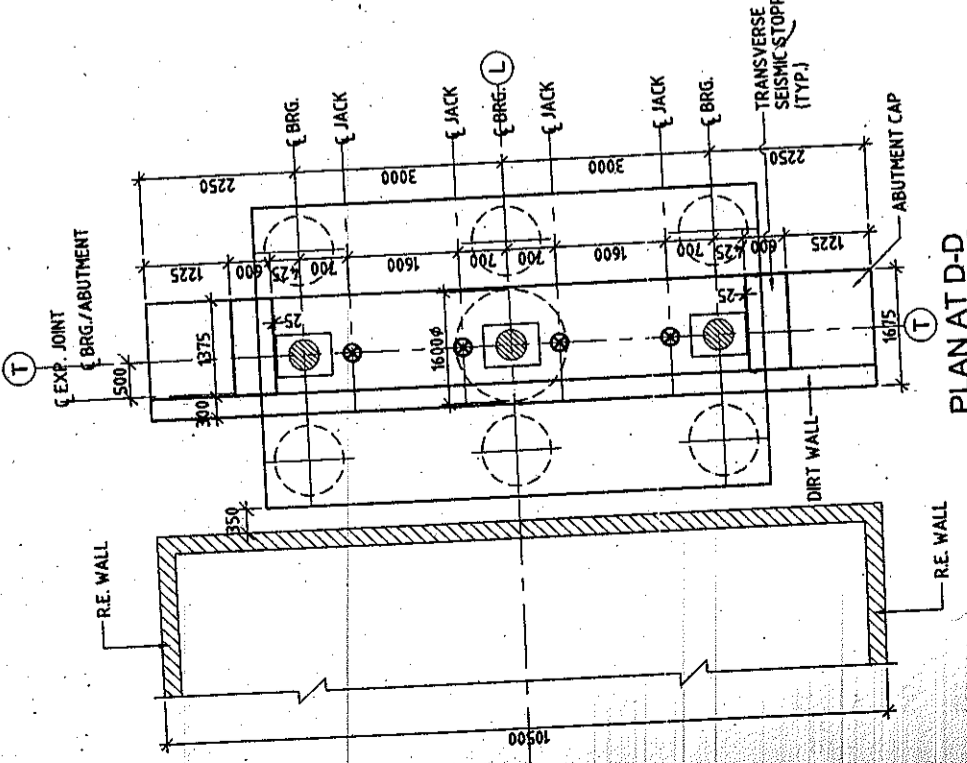


- NOTES:-**
- ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
 - CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH 150mm CUBES AS FOLLOWS:-
 ABUTMENT -----M35
 ABUTMENT CAP -----M35
 CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOLLOWS.
 (i) FOR SUBSTRUCTURE ----- 50mm
 (ii) FOR FOUNDATION ----- 75mm
 (iii) 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 BAR. LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY ONE SECTION.
 - IN ABUTMENT SHAFT T-10 OPEN LINKS (OR S LOOPS) WITH HOOK PLACED AROUND THE VERTICAL BARS ARE PLACED AT THE RATE OF 4 LINKS IN ONE SQUARE METER.
 - LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
 - A IS THE DIMENSIONS OF THE BEARINGS WHICH IS TO BE FURNISHED BY THE MANUFACTURER.
 - D = DIA OF JACK.
- REFERENCE DRAWINGS:-**
- 1213/SMEC/LUDHIANA/24+686/G-01 (SHEET 1 OF 10 OF 10)
 - 1213/SMEC/LUDHIANA/24+686/E-01 (SHEET 1 OF 2)



LEVELS CHART FOR ABUTMENT

ABUTMENT DESIGNATION	FORMATION LEVELS	ABUTMENT TOP LEVELS	BED LEVELS
AD	250.613	248.198	244.405
AL	250.021	247.606	243.019



REINFORCEMENT DETAIL:

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	20	40 Nos.	[Symbol]
2	12	125	[Symbol]
3	16	150	[Symbol]
4	12	150	[Symbol]
5	16	150	[Symbol]
6	12	150	[Symbol]
7	16	3 Nos.	[Symbol]
8	16	3 Nos.	[Symbol]
9	32	21 Nos.	[Symbol]
10	16	12 Nos.	[Symbol]
11	16	12 Nos.	[Symbol]
12	16	150	[Symbol]
13	12	75	[Symbol]
14	12	150	[Symbol]

LEGENDS:

- BAR ON TOP FACE
- BAR ON BOTTOM FACE

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

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

DETAILED PROJECT REPORT

DIMENSIONAL & REINF. DETAILS OF PILE, PILE CAP, ABUTMENT SHAFT, ABUTMENT CAP & DIRT WALL
 (SHEET 2 OF 2)

SCALE: AS SHOWN
 SHEET SIZE: A2

DRW: DPR
 DRW: DRW

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

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT: SMEC (INDIA) PVT. LTD.

PROJECT NO: 24+686/G-01

DATE: 28/05/2009

REV: R0

DATE: 28/05/2009

DESIGN: VNM

CHECKED: VNM

APPROVED: S. SAHRI

FIRST ISSUE

DETAILS OF REVISION

1213/SMEC/LUDHIANA/24+686/E-01

R0



THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF S.M.E.C. 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, LENT OR OTHERWISE DISPOSED OFF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE OTHER THAN FOR WHICH IT IS PREPARED.