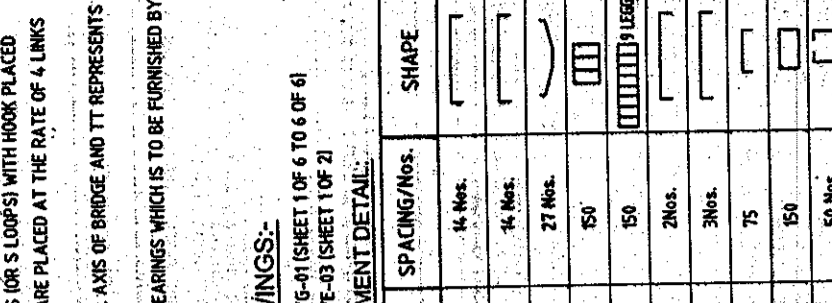
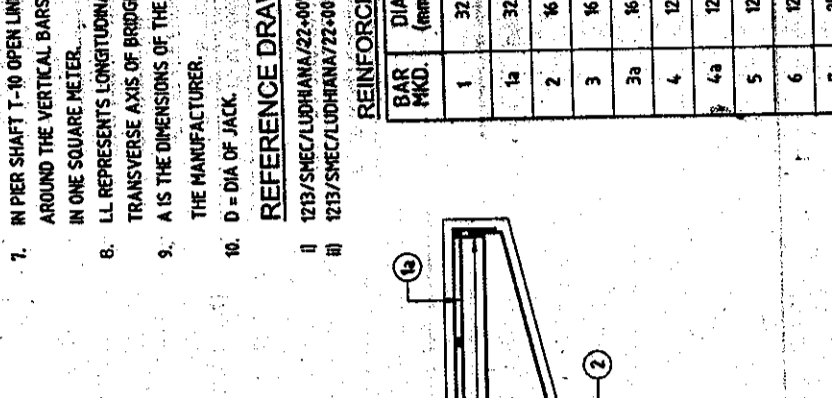
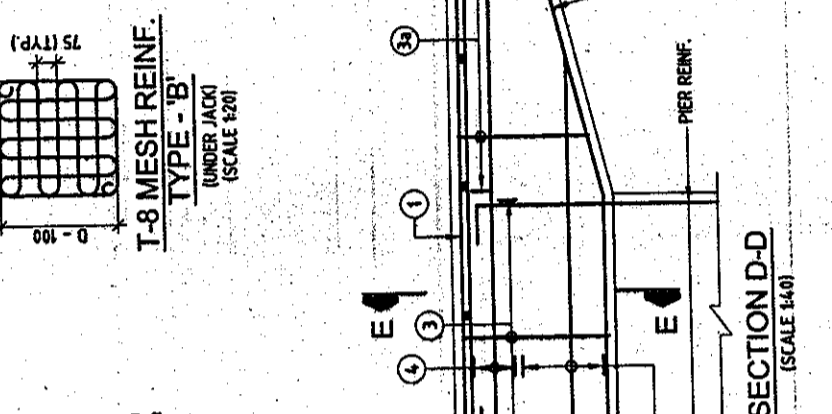
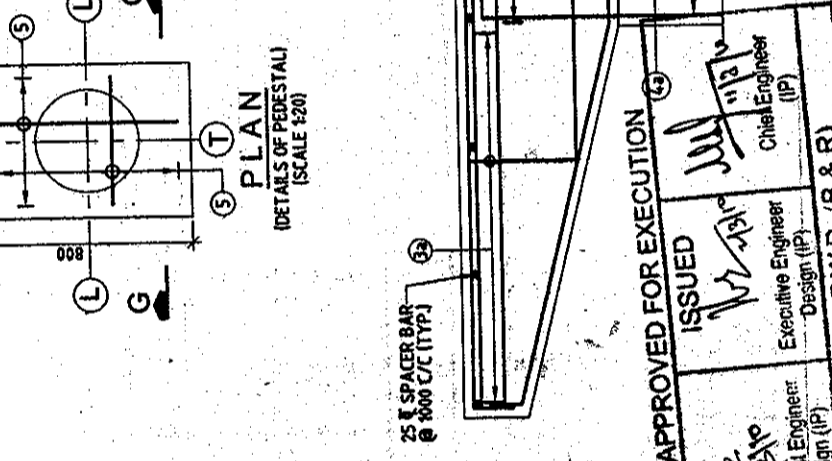
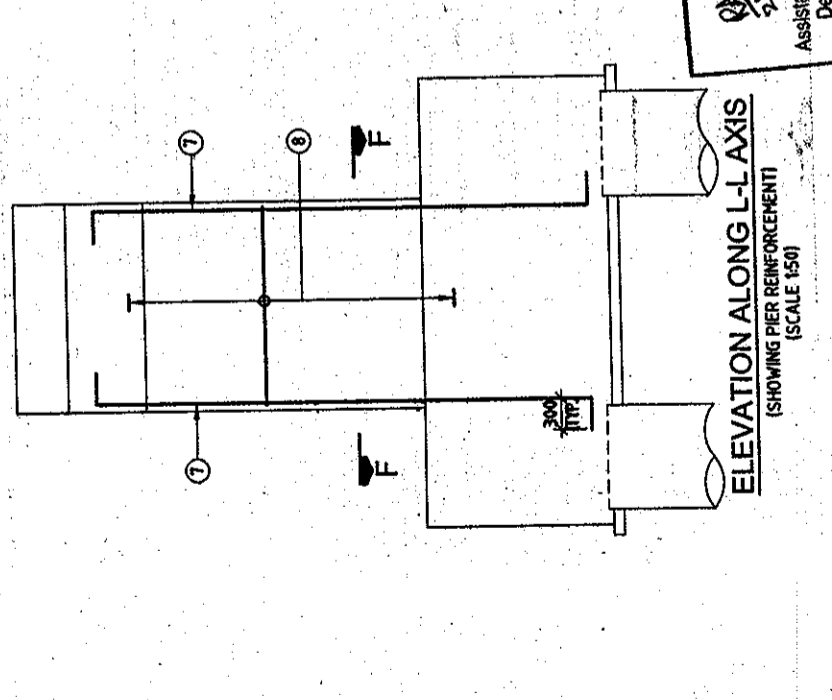
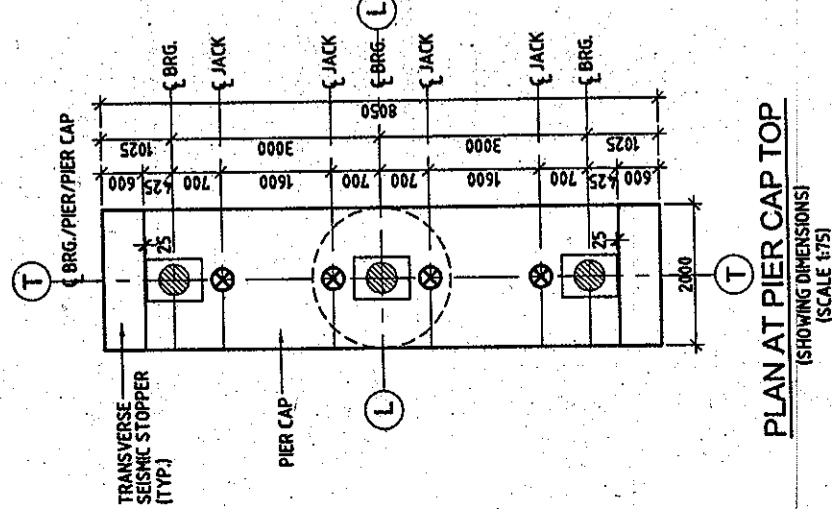


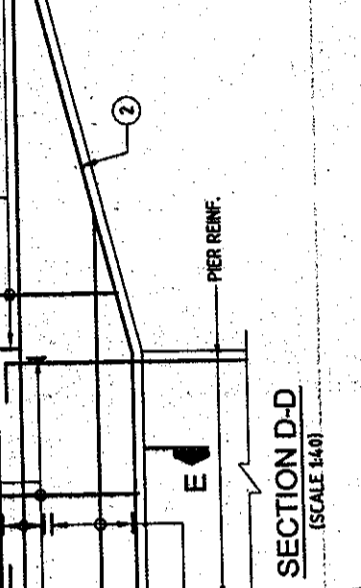
- ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH 150mm CUBES AS FOLLOWS:-
PIER -----M35
PIER CAP -----M35
CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOLLOWS.
(i) FOR SUBSTRUCTURE ----- 50mm
(ii) FOR FOUNDATION ----- 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.
- IN PIER 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:-
 (i) 1213/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
 (ii) 1213/SMEC/LUDHIANA/22-005/E-03 (SHEET 1 OF 2)

REINFORCEMENT DETAIL:

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	32	14 Nos.	[Diagram]
1a	32	14 Nos.	[Diagram]
2	16	27 Nos.	[Diagram]
3	16	150	[Diagram]
3a	16	150	[Diagram]
4	12	2Nos.	[Diagram]
4a	12	3Nos.	[Diagram]
5	12	75	[Diagram]
6	12	150	[Diagram]
7	25	50 Nos.	[Diagram]
8	12	125	[Diagram]



APPROVED FOR EXECUTION

ISSUED

Assistant Engineer Design (IP)

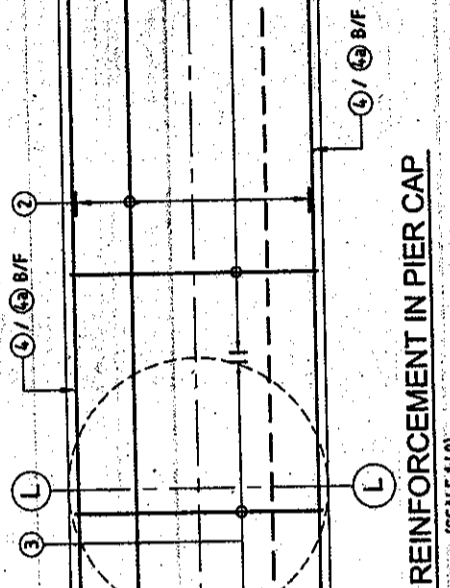
Executive Engineer Design (IP)

Chief Engineer (IP)

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

LEVELS CHART FOR PIER

PIER DESIGNATION	FORMATION LEVELS	PIER CAP TOP LEVELS	BED LEVELS
P2	252.300	249.885	246.648
P3	252.960	250.545	246.577
P6	254.823	252.408	246.510
P10	254.277	251.862	246.709
P12	252.960	250.545	246.688
P13	252.300	249.885	246.676



APPROVED FOR EXECUTION

ISSUED

Assistant Engineer Design (IP)

Executive Engineer Design (IP)

Chief Engineer (IP)

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

LEGENDS:
 --- BAR ON TOP FACE
 --- BAR ON BOTTOM FACE

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

SCALE: AS SHOWN
 SHEET SIZE: A2
 DRAW: DPR/1
 SHEET NO: 2 OF 2

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

DATE: 21/05/2019
 DRAWN: VNM
 CHECKED: VNM
 APPROVED: S. S. SINGH

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT: S.M.E.C. PUNJAB

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

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

DATE: 21/05/2019

SCALE: AS SHOWN

SHEET NO.: 2 OF 2

