

- 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.
- PROPOSED BRIDGE IS DESIGNED FOR ONE LANE OF IRC CLASS 70R OR 2 LANE OF CLASS 'A' LOADING WHICHEVER GOVERNS. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES AS :-
 i) FOR RCC SUPERSTRUCTURE ----- 40MPa
 ii) FOR PSC SUPERSTRUCTURE ----- 45MPa
 iii) FOR CRASH BARRIER ----- 40MPa
 iv) FOR SUBSTRUCTURE ----- 35MPa
 v) FOR PILE & PILE CAP ----- 35MPa
 vi) FOR PILE TO OUTER MOST STEEL SHALL BE AS FOR CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOR
 ii) FOR SUPERSTRUCTURE ----- 40mm
 iii) FOR SUBSTRUCTURE ----- 50mm
 iv) FOR PILE & PILE CAP ----- 75mm
- TMT HIGH YIELD STRENGTH DEFORMED BARS OF GRAD Fe-415 CONFORMING TO IS:1786 SHALL ONLY BE USED. BACK FILLING BEHIND ABUTMENTS & RETURN WALLS SHALL CONSIST OF GRANULAR MATERIAL.
- 65mm THK. AC WEARING COAT SHALL CONSIST OF UNDER LAYER OF MASTIC ASPHALT 25mm THK. AND ONE LAYER OF ASPHALTIC CONC. 40mm. AS PER MORTH SPECIFICATION SECTION 500.
- STRIP SEAL TYPE EXPANSION JOINTS OF PROVEN QUALITY SHALL BE PROVIDED, IN TERMS OF MODIFIED INTERIM SPECIFICATIONS FOR EXPANSION JOINTS ISSUED VIDE "MORTH" CIRCULAR NO.RW/NH-34055/1/96-S&R DATED 30-11-2000 & 25-01-2001.
- SLOPE/MEDIAN WIDTH AT THE STRUCTURE LOCATION SHALL BE PROVIDED AS PER RELEVANT HIGHWAY CROSS SECTION.
- PILE CAP TOP AND FOUNDING LEVELS SHOWN IN THE DRAWINGS ARE TO BE VERIFIED AT SITE AND ANY SIGNIFICANT CHANGE IN THOSE SHALL BE BROUGHT INTO NOTICE OF DESIGNER BEFORE EXECUTION.
- VERTICAL PILE CAPACITY 250 TONS FOR 1.0M DIA AND 1.2M DIA PILES. LATERAL LOAD CAPACITY 20 TONS FOR 1.0M DIA PILES. LATERAL LOAD CAPACITY 30 TONS FOR 1.2M DIA PILES. PILE CAPACITY TO BE CONFIRMED BY PILE LOAD TEST.

- REFERENCE DRAWINGS:-**
- 1213/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 7 TO 6 OF 7)
 - 1213/SMEC/LUDHIANA/22-005/E-01 TO E-9 (SHEET 1 OF 2 & 2 OF 2)
 - 1213/SMEC/LUDHIANA/SUP-53 TO 63
 - 1213/SMEC/LUDHIANA/SUP-64 & 65 (SHEET 1 OF 2 & 2 OF 2)
 - 1213/SMEC/LUDHIANA/SUP-66 TO 69
 - 1213/SMEC/LUDHIANA/MISC-01 & 06

APPROVED FOR EXECUTION

Assistant Engineer Design (P)	Executive Engineer Design (P)	Chief Engineer (P)

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

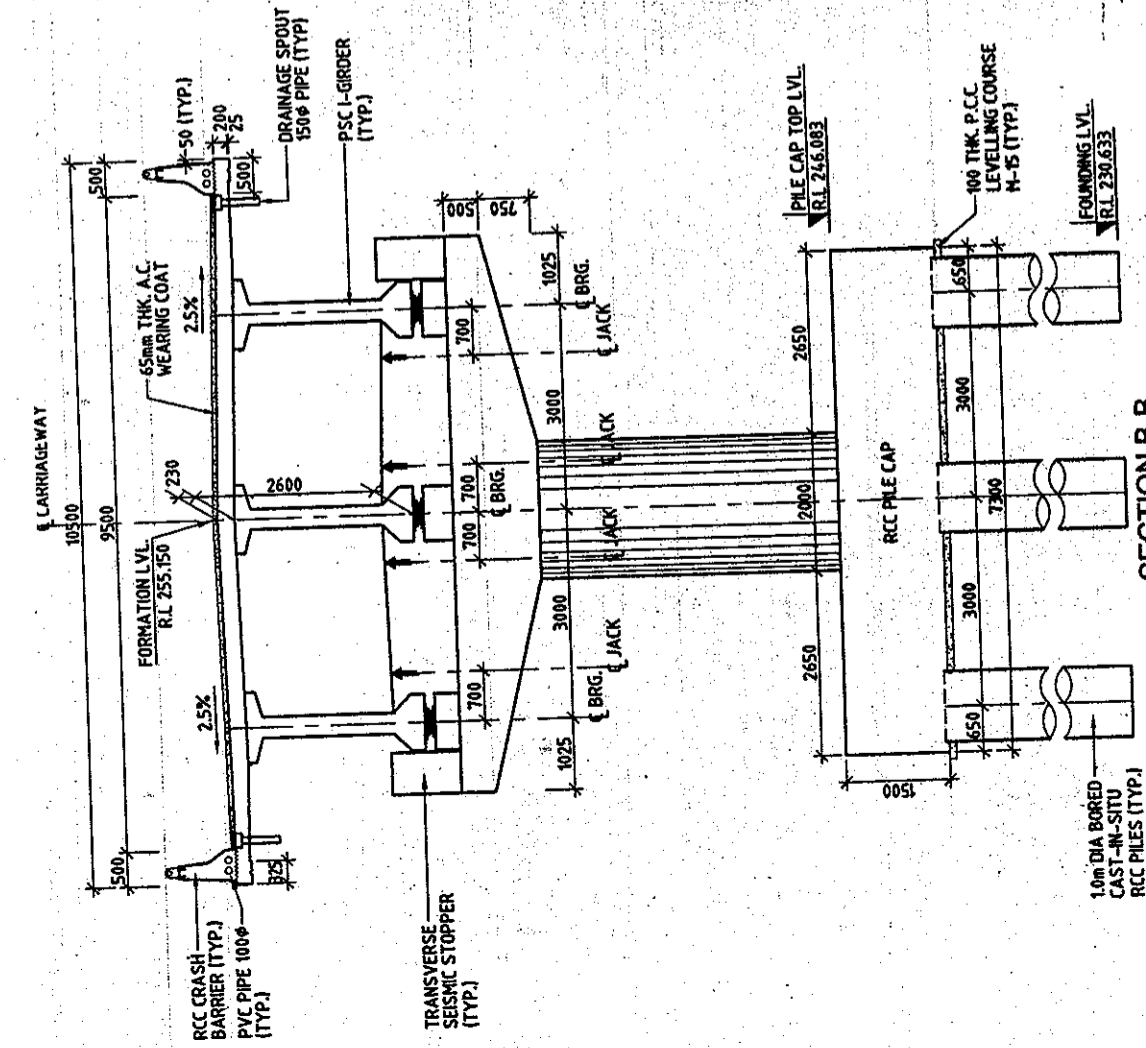
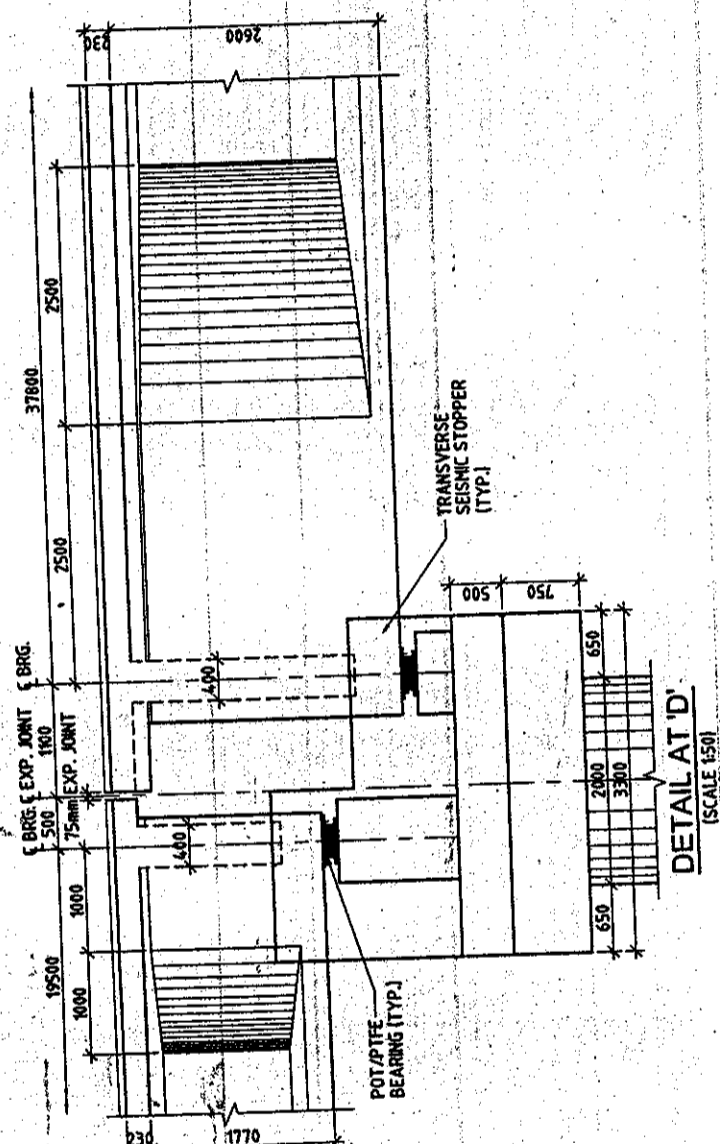
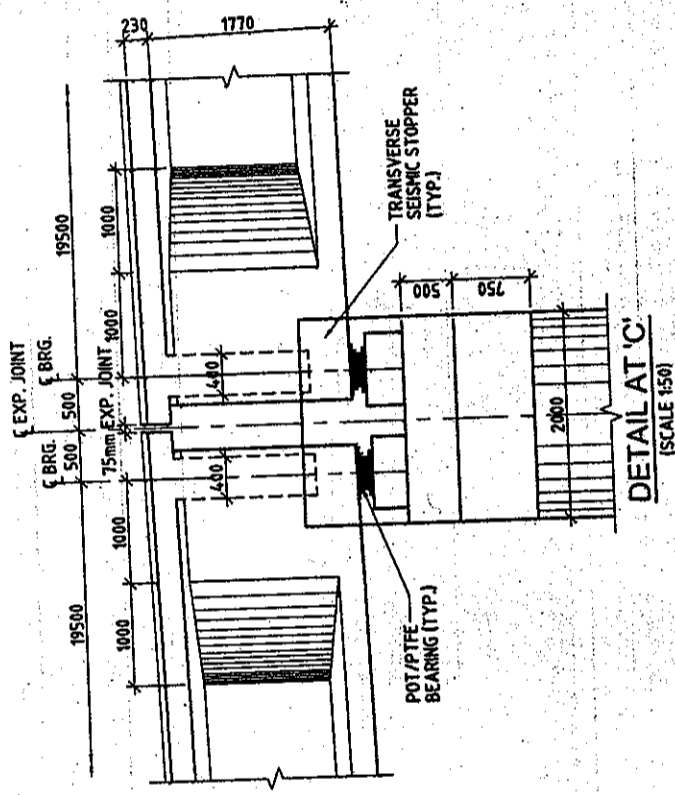
DETAILED PROJECT REPORT

SCALE: AS SHOWN

SHEET SIZE: A2

GENERAL ARRANGEMENT DRAWING FOR FLYOVER AT PROP. CH. 22+005 (SHEET 6 OF 6)

1213/SMEC/LUDHIANA/22-005/G-01 R2



REV	DATE	BY	CHKD	DESIGN	APPROVED	DETAILS OF REVISION
R2	26/02/2008	RAVAT	PCK	LKT	S/AHIRI	REVISED AS PER PR. PWD COMMENTS
R1	20/03/2008	RAVAT	PCK	LKT	S/AHIRI	REVISED SPAN ARRANGEMENT
R0	04/02/2008	RAVAT	PCK	LKT	S/AHIRI	FIRST ISSUE

PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYPASS LUDHIANA

CONSULTANT: **SMEC** PVT. LTD.
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CLIENT: **PIDB**
 PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD
 H-13/Structure Development Board
 CAD File Ref: H-13/Structure Development Board Drawings R2 (Feb 10) Bridge Ch. 22+005 FLYOVER CH. 22+005 G-01d4g

