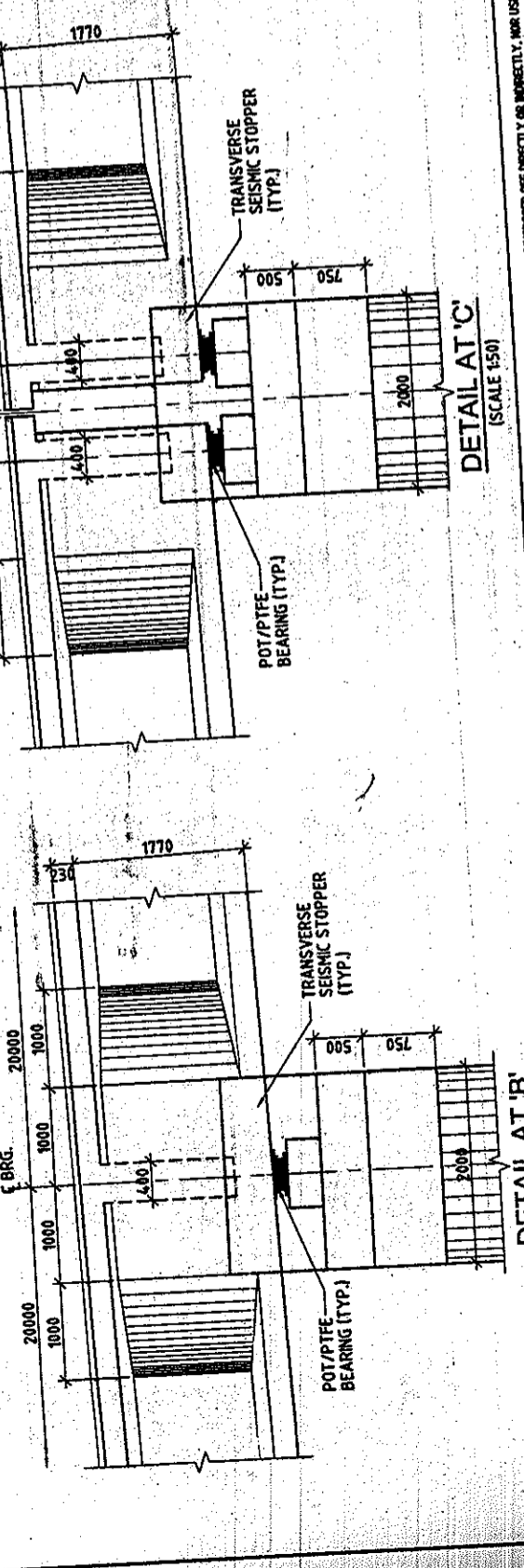
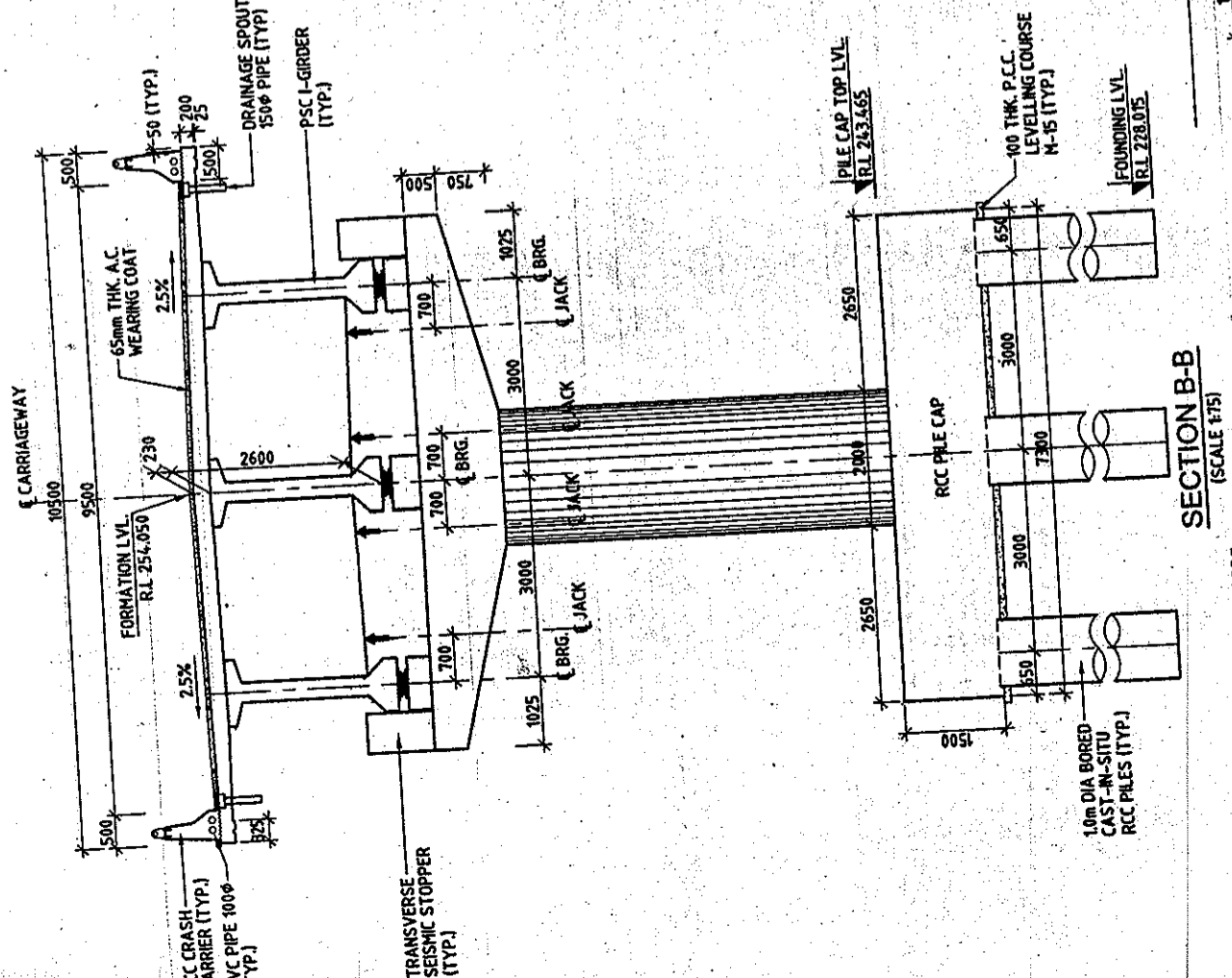
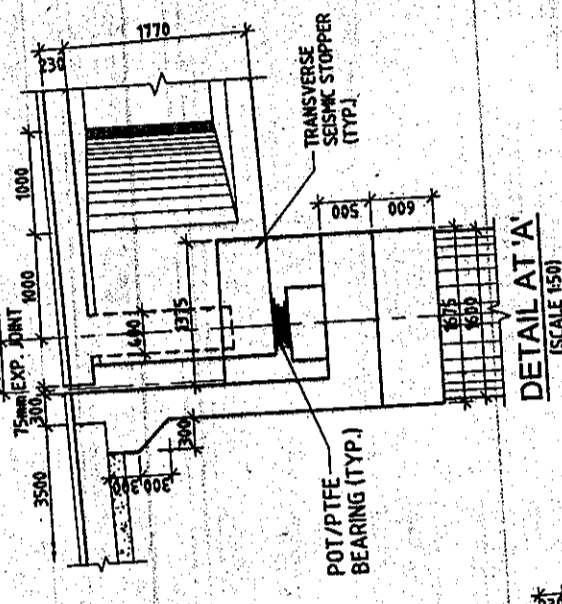
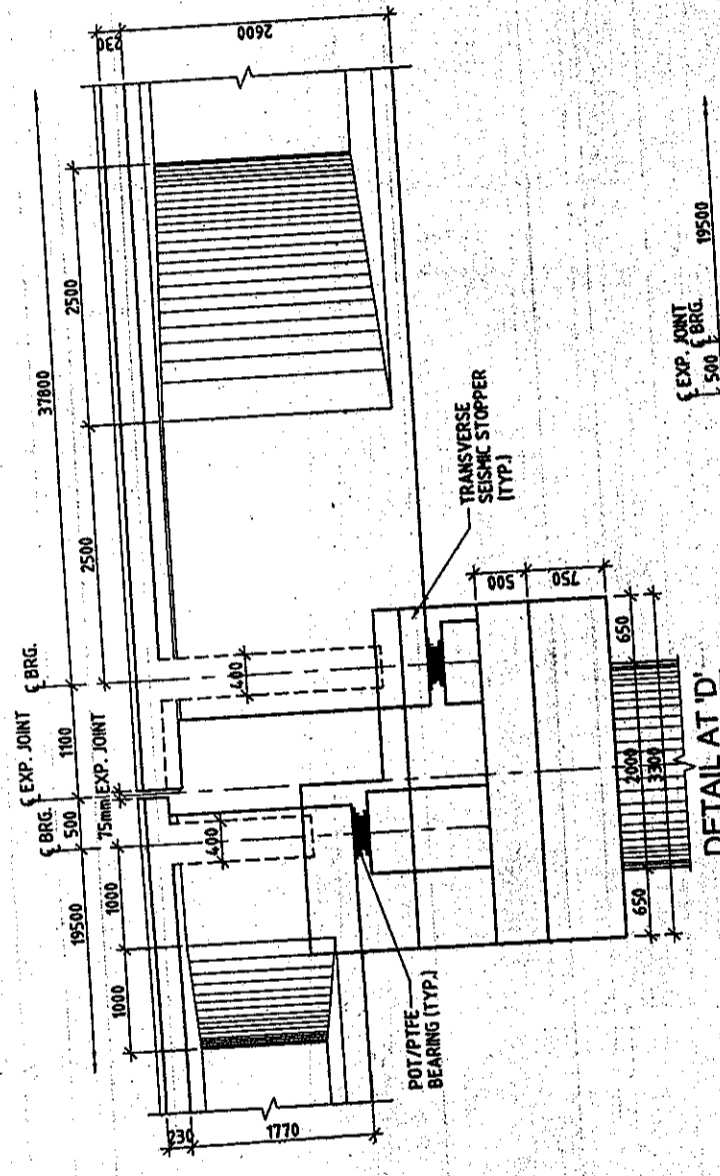


**NOTES:-**

- 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.
- 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:-
  - ii) FOR RCC SUPERSTRUCTURE ----- 35MPa
  - iii) FOR PSC SUPERSTRUCTURE ----- 45MPa
  - iii) FOR CRASH BARRIER ----- 40MPa
  - iv) FOR SUBSTRUCTURE ----- 35MPa
  - vi) FOR PILE & PILE CAP ----- 35MPa
- CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOLLOWS.
  - ii) FOR SUPERSTRUCTURE ----- 40mm
  - iii) FOR SUBSTRUCTURE ----- 50mm
  - iii) FOR PILE & PILE CAP ----- 75mm
- TMT HIGH YIELD STRENGTH DEFORMED BARS OF GRADE DESIGNATION Fe-415 CONFORMING TO IS:1786 SHALL ONLY BE USED.
- BACK FILLING BEHIND ABUTMENTS & RETURN WALLS SHALL CONSIST OF GRANULAR MATERIAL.
  - 7. 65mm THK. A.C WEARING COAT SHALL CONSIST OF UNDER LAYER OF MASTIC ASPHALT 25mm THK. AND ONE LAYERS OF ASPHALTIC CONC. 40mm. AS PER NORTH SPECIFICATION SECTION 500.
  - 8. STRIP SEAL TYPE EXPANSION JOINTS OF PROVEN QUALITY SHALL BE PROVIDED, IN TERMS OF MODIFIED INTERM SPECIFICATIONS FOR EXPANSION JOINTS ISSUED VIDE "NORTH" CIRCULAR NO.RW/MH-34059/1/96-S&R DATED 30-11-2008 & 25-01-2001.
  - 9. SLOPE/MEDIAN WIDTH AT THE STRUCTURE LOCATION SHALL BE PROVIDED AS PER RELEVANT HIGHWAY CROSS SECTION.
  - 10. 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.
  - 11. VERTICAL PILE CAPACITY 20 TONS FOR 1.0M DIA AND 1.2M DIA PILES. LATERAL LOAD CAPACITY 25 TONS FOR 1.2M 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/24-686/G-01(SHEET 1 OF 10 TO 10 OF 10)
- 1213/SMEC/LUDHIANA/24-686/E-01 TO E-11(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/MSC-01 & 07



**APPROVED FOR EXECUTION**

	ISSUED	
Assistant Engineer Design (IP)		Chief Engineer (IP)

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

**DETAILED PROJECT REPORT**  
**GENERAL ARRANGEMENT DRAWING**  
**FOR ELEVATED BRIDGE AT**  
**PROP. CH. 24+686**  
(SHEET N OF N)

SCALE: AS SHOWN

SHEET SIZE: A2

DRW: DRW

1213/SMEC/LUDHIANA/EI/24-686/G-01 R2

REV	DATE	DESIGN	CHECKED	APPROVED	DETAILS OF REVISION
R2	26/06/2009	RAWAT	PCK	LKT	REVISED AS PER P.B. PWD COMMENTS
R1	20/03/2009	RAWAT	PCK	LKT	REVISED SPAN ARRANGEMENT
R0	06/03/2009	RAWAT	PCK	LKT	FIRST ISSUE

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

CONSULTANT: SMEC

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CAD File Ref: RAS/Structure/1213/PWAL DPR/Workshop Drawings R2 (Ch 24+686) (Elevated) G124-686 E-11.dwg