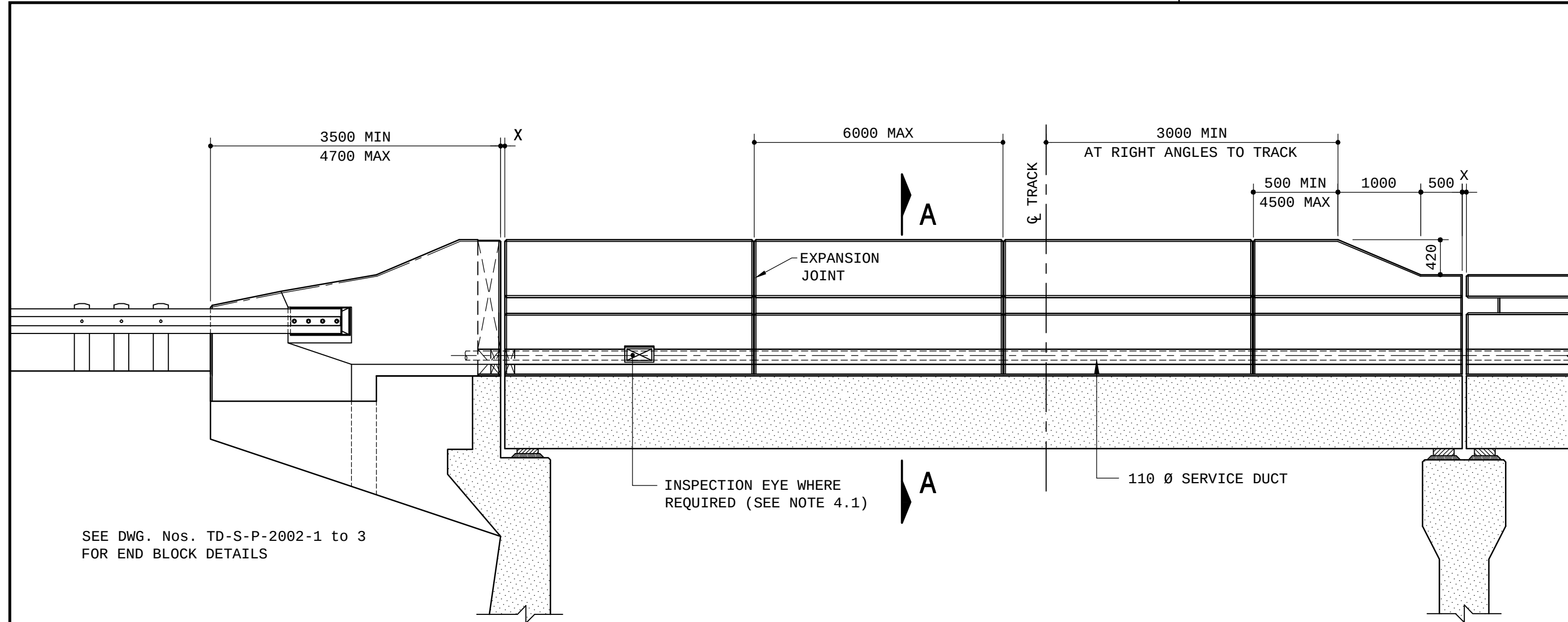
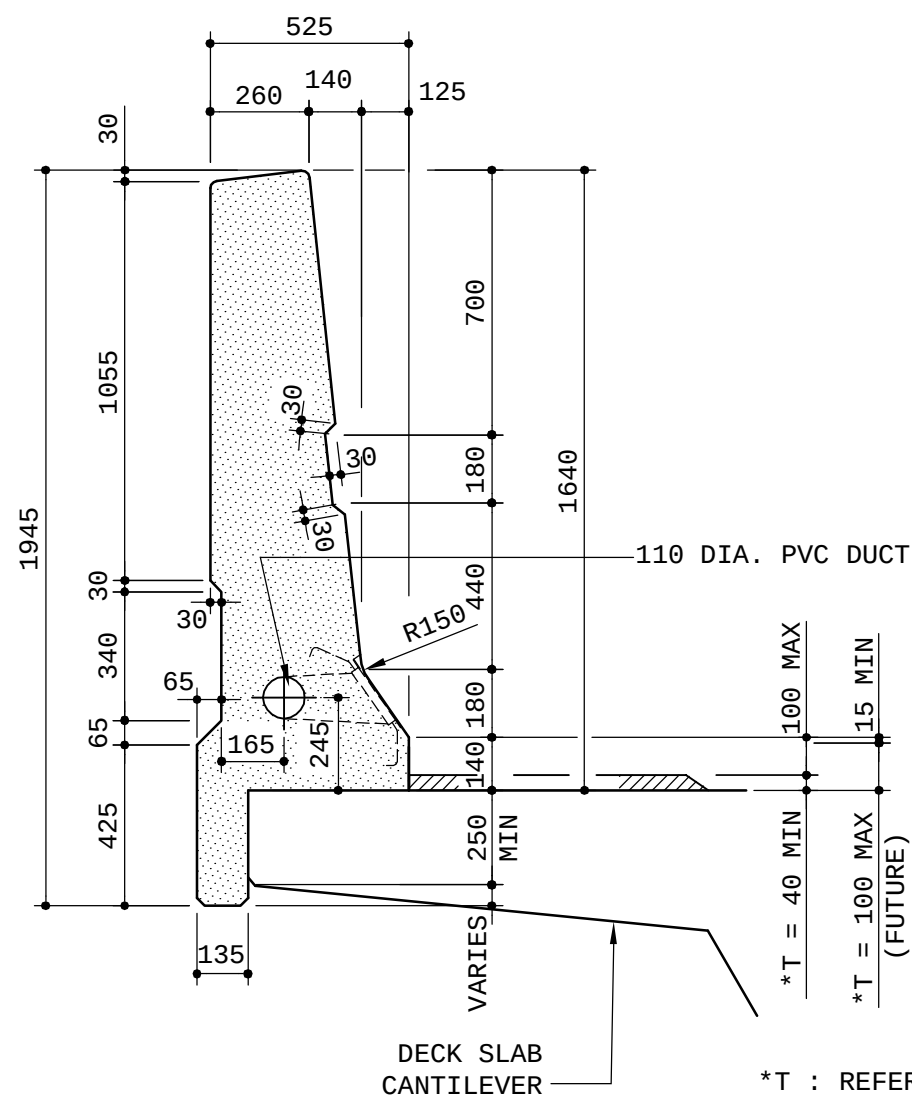
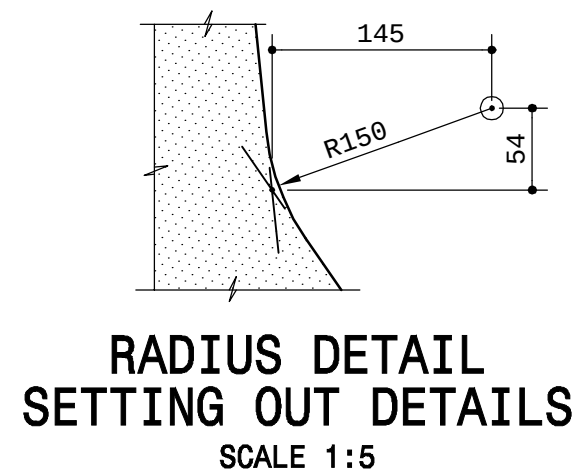




INSIDE ELEVATION
SCALE 1:50



SECTION A-A
SCALE 1:20



RADIUS DETAIL
SETTING OUT DETAILS
SCALE 1:5

NOTES

1.0 DESIGN LOADING

- 1.1. TYPE A BRIDGE PARAPETS SHALL BE DESIGNED FOR A NOMINAL POINT LOAD OF 100kN ACTING AT A HEIGHT OF 700mm ABOVE THE ROAD SURFACE. TYPE B BRIDGE PARAPETS SHALL BE DESIGNED FOR A NOMINAL POINT LOAD OF 200kN ACTING AT A HEIGHT OF 900mm ABOVE THE ROAD SURFACE.

2.0 THE PARAPET

- 2.1. SHALL NOT BE DESIGNED AS AN INTERGRAL PART OF THE DECK WITHOUT APPROVAL I.E. IT SHALL BE POSSIBLE TO REMOVE THE BALUSTRADE SHOULD THE BRIDGE REQUIRE WIDENING, THE BALUSTRADE SHALL BE CAST AFTER THE DECK IS SELF SUPPORTING.

- 2.2. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE WORKS". (COLTO)

3.0 MATERIAL AND FINISHES

THE MATERIAL AND WORK SHALL COMPLY WITH THE RELEVANT CLAUSES OF SERIES 6000 AND 8000 OF THE STANDARD SPECIFICATIONS, THE PROJECT SPECIFICATIONS AND SHALL INCLUDE THE FOLLOWING.

- 3.1. CONCRETE CLASS (MPa/mm) : W30/19 UNLESS DURABILITY CONCRETE IS NOT REQUIRED (EXPOSURE CLASS XC1a)

- 3.2. STEEL REINFORCING BARS SHALL COMPLY WITH SANS 920:1985
HIGH YIELD BARS : MIN YIELD STRESS 450 MPa.
MILD STEEL BARS : MIN YIELD STRESS 250 MPa.
ALL REINFORCING TO BE HOT DIPPED GALVANISED.
NOTE : GALVANISING SHALL APPLY ONLY WHEN W CLASS
DURABILITY CONCRETE IS REQUIRED

- 3.3. MINIMUM CONCRETE COVER TO REINFORCEMENT : 40mm.

- 3.4. SURFACE FINISHES: (EXPOSED FACES)
- CLASS F3 - STEEL SHUTTER FINISH.
- CLASS U3 - STEEL TROWEL FINISH.

3.5. CURING

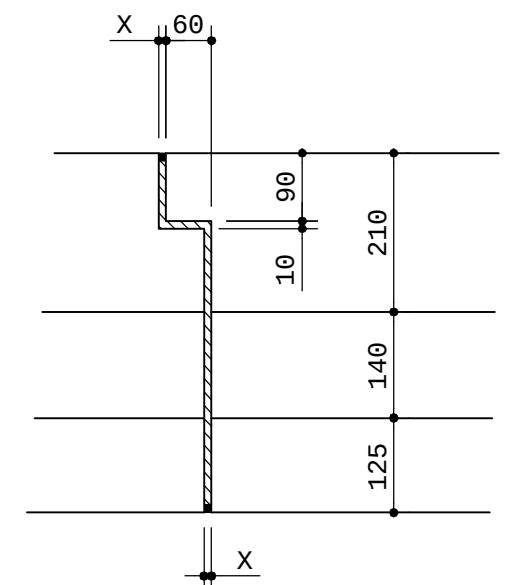
PARAPETS ARE TO BE CURED BY EITHER METHOD (d), (e) OR (f) OF COLTO CLAUSE 6409, AS AGREED WITH ENGINEER.

4.0. GENERAL

- 4.1. INSPECTION EYES TO BE PROVIDED AT DISTANCES NOT EXCEEDING 50m.

- 4.2. *T = 60mm MIN (20mm LEVELLING COURSE + 40mm ASPHALT)
OR 100mm MAX (20mm LEVELLING COURSE + 2x40mm ASPHALT)

X = 10 MIN OR SIZE OF
DECK EXPANSION JOINT



PLAN OF
EXPANSION JOINT
SCALE 1:10

No.	DATE	REVISION	APPROVED
V2	2012-07-09	DIMENSION TO SERVICE DUCT AMENDED	
V1	2012-05-23	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

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APPROVED V2
DATE: 09/07/2012

TYPICAL DRAWINGS - STRUCTURES
F-SHAPE PARAPET
ELECTRIFIED RAILWAY LINES - 1,64m HIGH: TYPE A & B
GENERAL LAYOUT & SECTIONS

SANRAL DOC. No. (PDF)
223263
SANRAL DOC. No. (DWG)
223264
SANRAL DRAWING No.
TD-S-P-2001-1-V2