



NOTES AND SPECIFICATIONS

- GUARDRAILS ARE REQUIRED IN THE FOLLOWING CASES:
 - WHERE WATER NEXT TO THE ROAD FORMATION IS DEEPER THAN 1.5m.
 - AT ALL BRIDGES ON SIDE OF ROAD.
 - ON THE OUTSIDE OF CURVES WITH RADII LESS THAN 300m WITHOUT RECOVERY AREAS.
 - WHERE OBSTRUCTIONS ARE LESS THAN 1m FROM THE SHOULDER BREAKPOINT.
 - WHERE AN OBSTRUCTION APPEARS TO BE MORE DANGEROUS THAN WHAT A GUARDRAIL WOULD BE.
 - IN THE CASE OF EMBANKMENTS / FILLS, THE WARRANTS DIAGRAM WILL APPLY.
- NO GUARDRAILS WILL BE ACCEPTED THAT SHOW SIGNS OF RUST OR OXIDATION
- SPECIFICATIONS:
 - BOLT : HIGH TENSILE STEEL M16
 - WASHER : STEEL WASHER
 - SPACERBLOCK : GUM OR PINE, TREATED WITH CREOSOTE ACCORDING TO ANY METHOD IN SANS 10005.
 - POLE : 150mm TO 180mm GUM OR PINE TREATED WITH CREOSOTE ACCORDING TO ANY METHOD IN SANS 10005.
 - ALL GUARDRAILS SHALL BE GALVANIZED AS SPECIFIED (NOT PAINTED).
 - ALL STRUCTURAL STEEL, INCLUDING TUBES, SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF SABS 763 FOR TYPE A1 OR B1 ARTICLES AS APPLICABLE (OR LATEST).
 - ALL WELDING WILL BE DONE PRIOR TO GALVANIZING.
 - ALL EXISTING GUARDRAILS TO BE MAINTAINED AT EXISTING HEIGHT UNLESS SPECIFIED BY ENGINEER.
- ALSO REFER TO SECTION 611 OF THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

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LOCATION OF PROJECT:

TYPICAL STANDARD DETAILS

DESCRIPTION OF PROJECT:

GUARDRAILS

NOSE DETAIL AND LAYOUT AT STRUCTURES AND HIGH FILLS

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