



NOTES:

- 1. DESIGN OF THE PIPE CROSSING SHALL BE ON ACCORDANCE WITH AS4799.
- 2. SEWER PIPE
 - STEEL CEMENT LINED WITH FUSION BONDED PE COATING
 - DI CLASS K9 WITH POLYMERIC LINING
- PVC CLASS SN8
- PE CLASS PN12.5
- GRP CLASS SN5000 MIN.
- 3. HORIZONTAL BORING

ENCASING PIPE

- REINFORCED CONCRETE CLASS 4 BUTT JOINTED WITH STEEL LOCATING BAND OR MILD STEEL OR GRP PIPE.
- 4. JACKING

ENCASING PIPE

- REINFORCED CONCRETE CLASS 4 BUTT JOINTED WITH STEEL LOCATING BAND OR GRP JACKING PIPE.
- 5. CONCRETE ENCASED
 - NO SERVICE CONNECTIONS SHALL BE MADE ALONG ENCASED SECTION OF PIPELINE
- MH OR MS SHALL BE LOCATED AT LEAST 6000 FROM THE TOE OF EMBANKMENT OR TOP OF CUT.
- 7. FOR DI MAINS, ALL FITTINGS SHALL BE FUSION BOND COATED.
- SEWER PIPE <DN150 CAN BE DIRECTIONALLY BORED USING PE PIPE WITHIN AN ENCASEMENT PIPE WHICH MAY ALSO BE PE.
- MARKERS ABOVE PIPELINE SHALL BE PLACED AT THE POINTS WHERE IT ENTERS AND LEAVES THE PROPERTY.
- PROVIDE CATHODIC PROTECTION AS DIRECTED BY RAILWAY AUTHORITY.
 PROVIDE ELECTRICAL CONTINUITY AND INSULATION AS SPECIFIED IN DESIGN DRAWINGS.
- 11. MINIMUM COVER FOR ALL PIPELINES BELOW RAILWAY LINES:
- NOT LESS THAN 1600 BELOW RAIL LEVEL
- NOT LESS THAN 600 BELOW FORMATION LEVEL
- ie the ground level immediately below the railway ballast
- NOT LESS THAN 2000 BELOW RAIL LEVEL TO TOP OF TIMBER FOR TUNNELS.
- 12. FOR ELECTRIFIED RAILWAY SYSTEMS PREFERENCE SHALL BE FOR THE USE OF NON-METALLIC PIPES.
- 13. GROUTING MIX RATIO TO BE SAND:CEMENT:WATER (1:1:0.5) BY WEIGHT, USING FINE WELL ROUNDED SAND. PLASTICISERS MAY BE USED.
- 14. ALL DIMENSIONS IN MILLIMETRES.

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REVISION PANEL					DESIGN PANEL			

ENCASING PIPE & SEWER ARRANGEMENTS

SA Water SAN Hatraia

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SA WATER STANDARD DRAWINGS
SEWER CONSTRUCTION MANUAL
RAILWAY CROSSING
TYPICAL DETAILS

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A3	1
SHT SIZE	REVISION
TOTAL SHEETS:	
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