

CONTINUED FROM 4005-20002-02

15. PROTECTION OF EXISTING TREES/ VEGETATION:

- REFER WSA02, CLAUSE 14.3.
- THE DESIGN DRAWINGS SHALL BE EXAMINED FOR CONDITIONS ATTACHED TO THE RIGHT OF ENTRY.
- ALL EXISTING TREES AND SCRUBS ADJACENT TO THE SEWER LINE SHALL BE CAREFULLY SUPPORTED AND PROTECTED FROM DAMAGE. SPECIFIC CONSTRUCTION METHODS SUCH AS TUNNELLING OR BORING MAY BE IDENTIFIED TO PROTECT A DELICATE OR VALUABLE ENVIRONMENT.
- BEFORE CLEARING ANY TREES OR SCRUBS ALONG THE ROUTE, APPROVAL MUST BE OBTAINED FROM THE RELEVANT AUTHORITY AND IN THE CASE OF PRIVATE LAND, CONSENT MUST BE OBTAINED FROM THE OWNER.

16. BORING:

- REFER WSA02, CLAUSE 14.12.
- THE MINIMUM GRADE FOR ANY BORED SEWER PIPE SHALL BE 2.0%.
- PRIOR TO APPROVAL FOR THIS OPTION THE DESIGNER/ CONTRACTOR SHALL PROVIDE THE SA WATER REPRESENTATIVE WITH A METHODOLOGY FOR THE BORING TECHNIQUE & DETAILS OF THE CONTRACTOR WHO WILL UNDERTAKE THE BORE.
- THE DESIGNER/ CONTRACTOR SHALL SUBMIT DETAILS OF THE BORED PIPE MATERIAL (& SLEEVE PIPE IF REQUIRED) TO THE SA WATER REPRESENTATIVE FOR APPROVAL.
- THE BORE SHALL BE SHALL NOT AFFECT OR ENDANGER THE HEALTH OR STABILITY OF ANY TREE/ S.
- IF TREES WILL BE IMPACTED THE CONSULTANT SHALL PROVIDE SUPPORTING DOCUMENTATION FROM AN ARBORIST CONFIRMING SUCH WORK WILL NOT IMPACT THE TREE/ S.

17. CORROSION PROTECTION

ALL BURIED STEEL PIPE AND FITTINGS SHALL BE PROTECTED AS FOLLOWS:

- DICL COMPONENTS SHALL BE PROTECTED BY EITHER:
 - AN APPROVED (LLDPE) SLEEVING (REFER WSCM DRAWING 4005-30005-01).
 - OR
 - WRAPPING WITH PETROLATUM TAPE SYSTEM IN ACCORDANCE WITH TS 18.
- MSCL ITEMS SHALL BE PROTECTED AS FOLLOWS:
 - SINTAKOTED PIPES:
 - WHERE SINTAKOTE HAS BEEN DAMAGED OR REMOVED, THE PIPE SHALL BE WRAPPED WITH BITUMEN MASTIC TAPE SYSTEM, IN ACCORDANCE WITH TS 18.
 - NON-SINTAKOTED PIPES:
 - ALL PIPE SHALL BE WRAPPED WITH BITUMEN MASTIC TAPE SYSTEM, IN ACCORDANCE WITH TS 18.
- ALL BURIED METALLIC FLANGED FITTINGS SHALL BE COATED. PRIOR TO INSTALLATION, INSPECT ALL FITTINGS FOR DEFECTS. IF A FITTING IS FOUND TO HAVE A DEFECT IN THE COATING, THE ITEM SHALL BE WRAPPED WITH TS 18.
- ALL FLANGES SHALL BE WRAPPED IN ACCORDANCE WITH TS 18.

18. CATHODIC PROTECTION:

- CATHODIC PROTECTION IS GENERALLY ONLY REQUIRED FOR DOGLEGS LARGER THAN DN200.
FOR MORE SIGNIFICANT LOCATIONS, EG. MAJOR ROAD OR CREEK CROSSINGS, DN100 & DN150 STEEL PIPE MAY REQUIRE CATHODIC PROTECTION.
- WHERE A LENGTH OF MSCL MAIN OR MSCL/ DICL SPECIALS REQUIRE CATHODIC PROTECTION, THE DESIGNER SHALL CONSULT THE SA WATER CATHODIC PROTECTION SPECIALIST FOR CONFIRMATION OF REQUIREMENTS.
- CATHODIC PROTECTION SHALL BE UNDERTAKEN IN ACCORDANCE WITH WSCM DRAWING 4005-30010-07 & THE APPROVED CATHODIC PROTECTION DESIGN.
- REFER TO THE SA WATER CATHODIC PROTECTION SPECIALIST FOR COPIES OF STANDARD DRAWINGS FOR CATHODIC PROTECTION.
- BONDING OF STOP VALVES AND SCOUR VALVES SHALL BE IN ACCORDANCE WITH WSCM DRAWING 4005-30010-07.

FOR ADDITIONAL NOTES REFER 4005-20002-01 & 4005-20002-02

REVISION PANEL					DESIGN PANEL			 SA WATER STANDARD DRAWINGS SEWER CONSTRUCTION MANUAL GENERAL NOTES SHEET 3 OF 3	A3	1
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