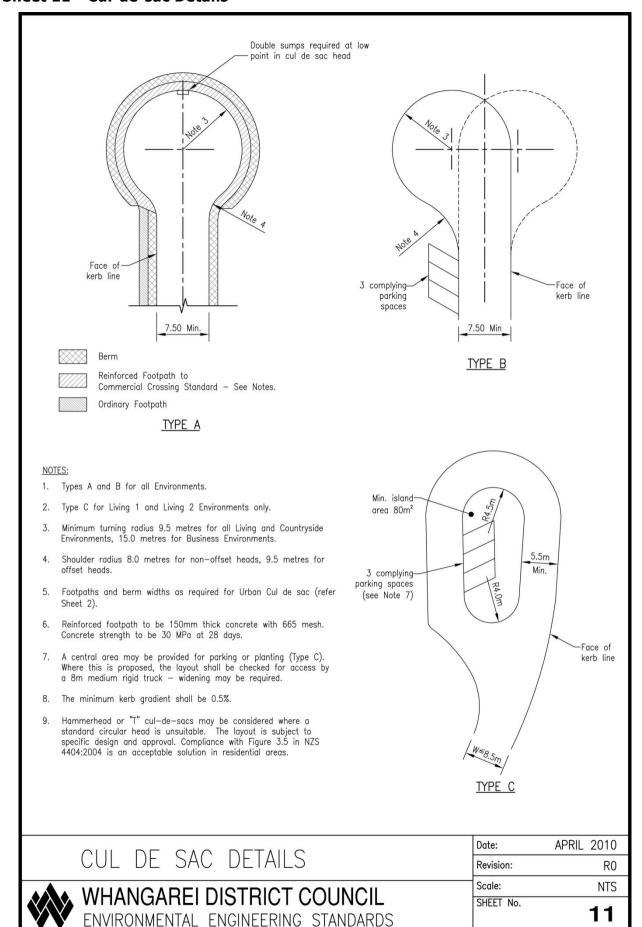
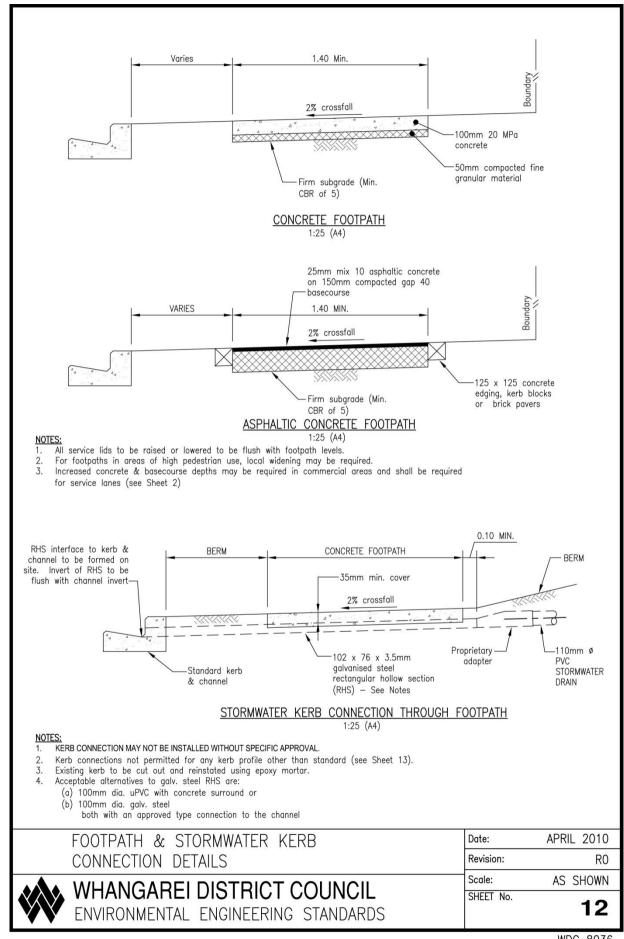
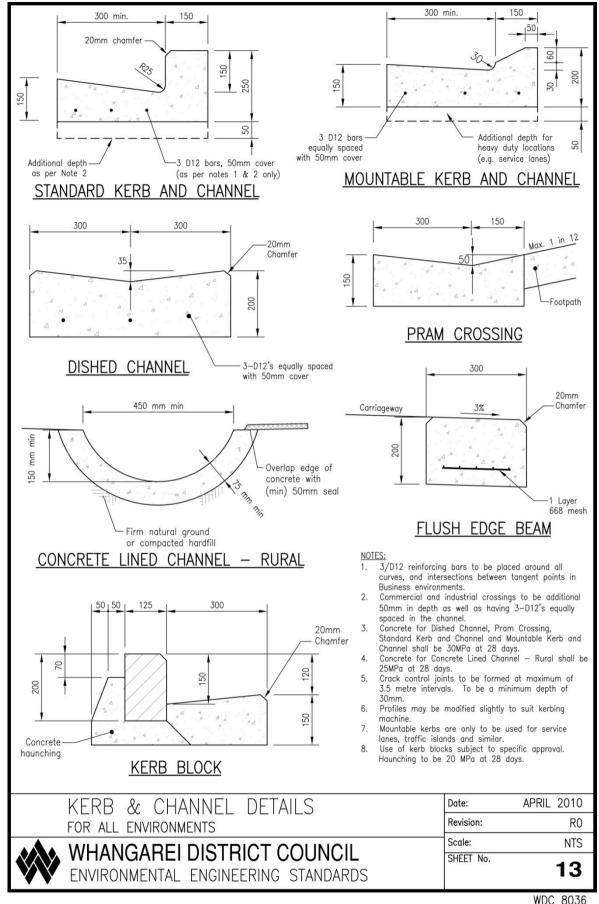
Sheet 11 Cul-de-sac Details



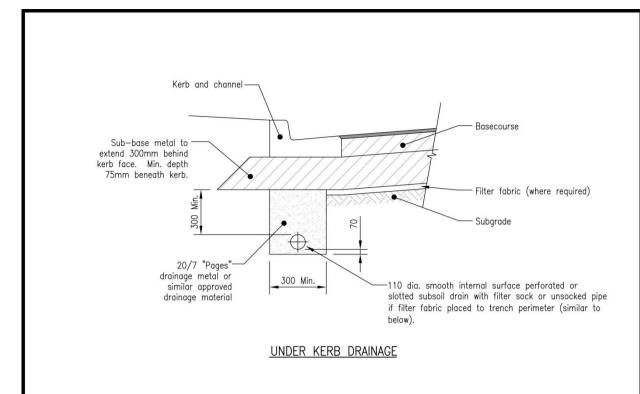
Sheet 12 Footpath and Stormwater Kerb Connection Details

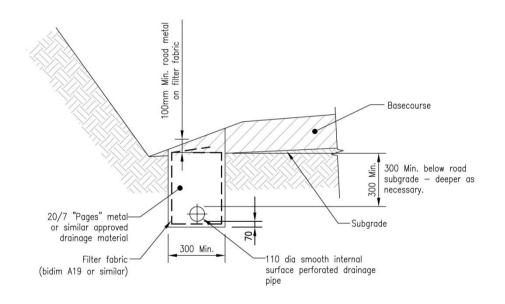


Sheet 13 **Kerb and Channel Details**



Sheet 14 Typical Subsoil Drainage Details





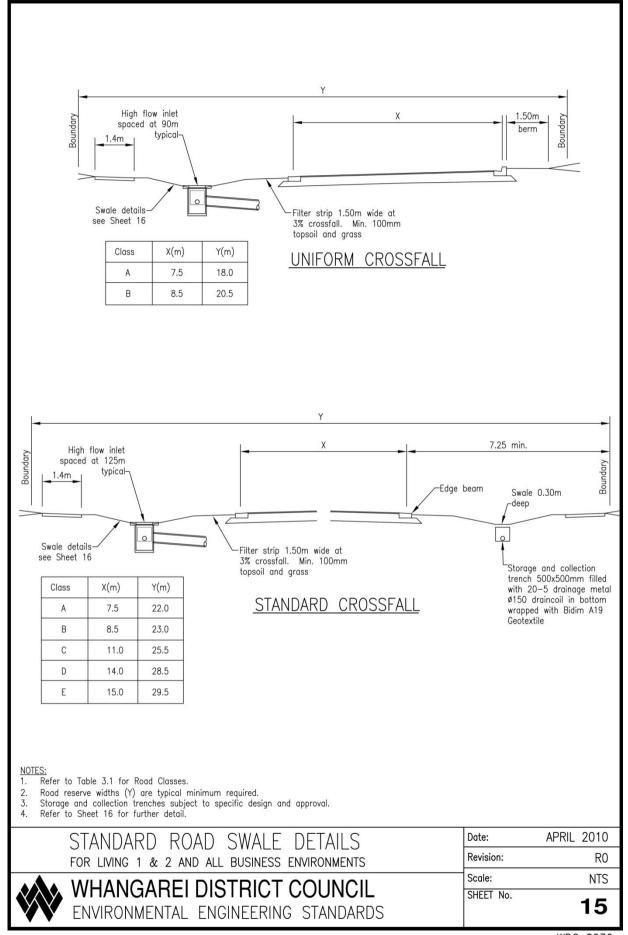
RURAL SUBSOIL DRAINAGE

NOTES:

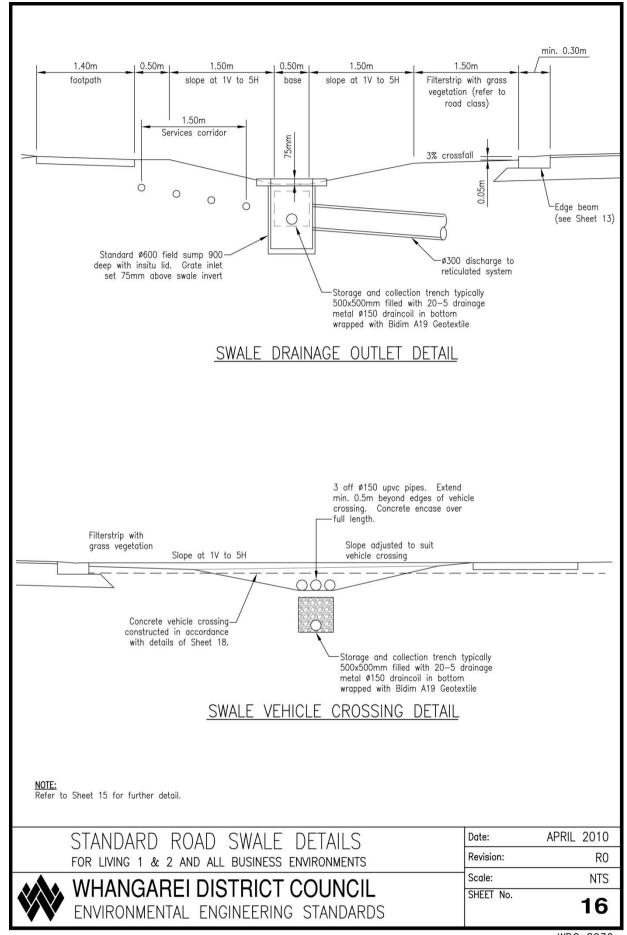
- Construct subsoil drain after stabilisation of subgrade.
- Subsoil drain is to connect to the downstream sump (urban) above the soffit level of the outlet pipe. Subsoil drain depth to be adjusted to meet this criteria. For scour protection refer Section 3.4.15.4
- Subsoil drains in clays to be PAP 7 or BMF (blue metal fines)

TYPICAL SUBSOIL DRAINAGE DETAILS	Date:	APRIL 2010
	Revision:	R0
WHANGAREI DISTRICT COUNCIL ENVIRONMENTAL ENGINEERING STANDARDS	Scale:	AS SHOWN
	SHEET No.	14

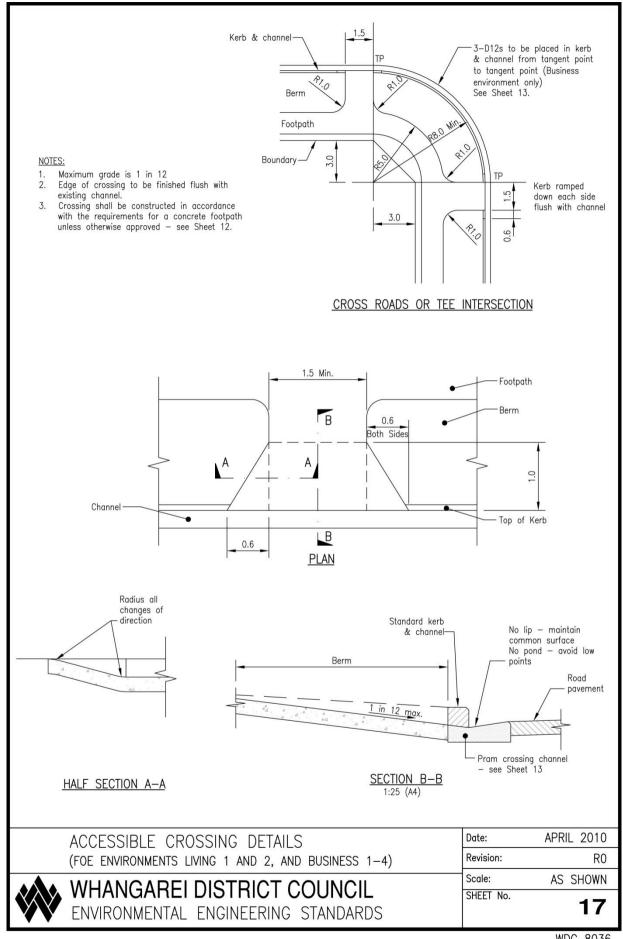
Sheet 15 Standard Road Swale Details



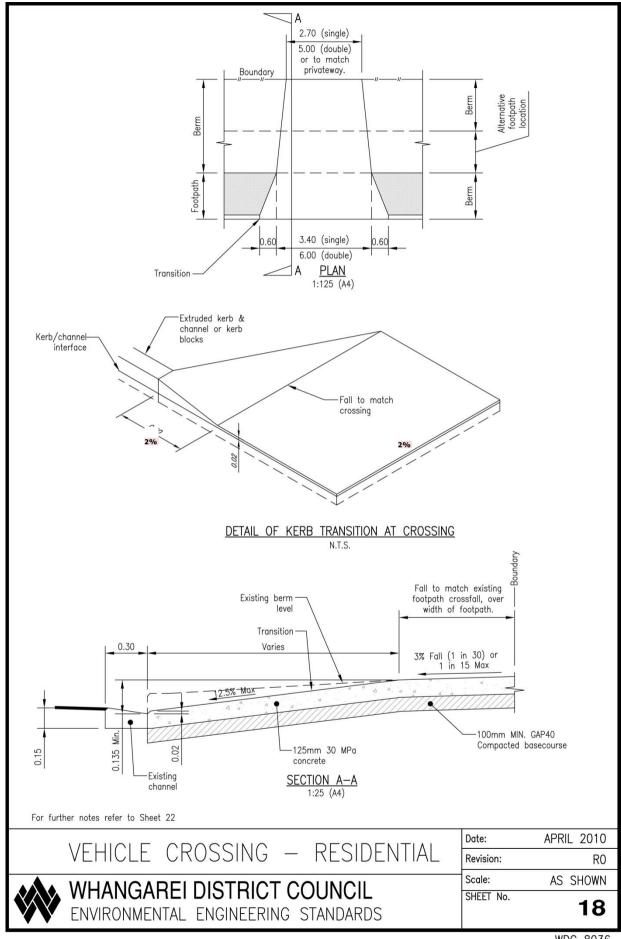
Sheet 16 Standard Road Swale Details (Cont)



Sheet 17 Accessible Crossing Details



Sheet 18 Vehicle Crossing - Residential



Sheet 19 Vehicle Crossing - Commercial/Industrial

