18.4 CONFLICTS WITH EXISTING DRAINAGE SYSTEMS

18.4.1 Existing Drainage Systems

TABLE 18.4.1: DRAINAGE SYSTEM – NORTH SIDE OF RIVER TYNE

Approximate Chainage (m)	Diameter (mm)	Depth below existing ground level (m)	Soffit level of Tunnel (m below ground level)	Construction or permanent diversion required?
200	Unknown	1.0	Cutting for toll booth area below existing ground level	Permanent
800	375	1.0	4.0	Construction
800	1560	7.0	4.0	Permanent
850	225	1.5	6.0	Construction
850	225	1.5	6.0	Construction
875	180	<1.0	6.5	Construction

TABLE 18.4.2: DRAINAGE SYSTEM – SOUTH SIDE OF RIVER TYNE

Approximate Chainage (m)	Diameter (mm)	Depth below existing ground level (m)	Soffit level of Tunnel (m below ground level)	Construction or permanent diversion required?
1430	450	1.0	18.5	Construction
1430	150	1.0	18.5	Construction
1500	225	1.0	16.0	Construction
1620	1500	4.0	14.0	Construction
1740	450	Unknown	8.0	Permanent
1900	600	4.0	3.5	Permanent
1950	800 x 600 (egg)	4.0	2.5	Permanent
1950	800 x 600 (egg)	4.0	2.5	Permanent
2020	200	3.0	1.5	Permanent

18.4.2 Existing Water Supply

TABLE 18.4.3: WATER SUPPLY SYSTEM – NORTH SIDE OF RIVER TYNE

Approximate Chainage (m)	Diameter (mm)	Depth below existing ground level (m)	Soffit level of Tunnel (m below ground level)	Construction or permanent diversion required?
850	200	1.0	6.0	Construction

TABLE 18.4.4: WATER SUPPLY SYSTEM – SOUTH SIDE OF RIVER TYNE

Approximate Chainage (m)	Diameter (mm)	Depth below existing ground level (m)	Soffit level of Tunnel (m below ground level)	Construction or permanent diversion required?
1430	150	1.5	18.5	Construction
1460	225	1.0	17.0	Construction
1530	150	1.0	15.5	Construction
1650	75	unknown	12.75	Construction
1920	100	0.5	3.5	Construction
1935	150	0.5	3.5	Construction
1980	100	1.0	2.0	Construction
1980 to 2130	100	0.5	2.0	Construction