

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
101	0.070	5.00	26.858	1500	341096.767	398506.491	1.687
102	0.263	5.00	26.188	1500	341044.805	398590.651	1.500
103	0.175	5.00	25.213	1500	341118.711	398564.639	1.650
104	0.103	5.00	25.424	1500	341155.375	398550.802	1.959
105	0.011	5.00	25.431	1500	341165.703	398549.708	1.992
106	0.073	5.00	25.343	1500	341173.673	398548.316	1.924
107	0.032	5.00	25.057	1500	341177.467	398559.058	1.966
108	0.124	5.00	23.919	1500	341176.001	398604.458	1.950
109	0.004	5.00	23.740		341162.972	398610.133	3.144
111	0.035	5.00	24.100		341045.154	398657.569	3.822
112	0.100	5.00	23.846	2400	341106.066	398639.184	3.417
113	0.277	5.00	24.154	2400	341042.972	398664.556	3.895
114	0.009	5.00	24.307	2400	341032.209	398666.215	4.075
115	0.087	5.00	24.428	2400	341021.503	398665.503	4.223
116	0.069	5.00	25.388	1500	340998.387	398638.519	2.025
117	0.018	5.00	25.060	1500	341005.130	398656.446	2.176
118	0.023	5.00	24.647	2400	341010.763	398669.262	4.470
119	0.015	5.00	24.247	2400	341014.311	398678.649	4.095
120	0.206	5.00	26.754	1500	341041.378	398528.728	1.425
121	0.065	5.00	26.600	1500	340987.546	398549.048	2.859
122	0.011	5.00	26.737	2400	340977.836	398553.284	4.860
123	0.121	5.00	25.945	1500	341002.399	398606.491	1.997
124	0.085	5.00	25.868	2400	340988.207	398611.557	3.885
125	0.059	5.00	26.521	2400	340969.594	398561.118	4.672
126	0.111	5.00	25.924	1500	340928.710	398510.191	1.725
127	0.045	5.00	25.593	1500	340898.340	398521.739	1.729
128	0.120	5.00	25.604	1500	340894.270	398528.658	1.830
129	0.047	5.00	25.679	2400	340895.422	398536.045	3.856
130	0.216	5.00	26.304	2400	340913.139	398582.873	4.606
131	0.085	5.00	24.864	1500	340803.679	398608.941	1.878
132	0.097	5.00	24.943	1500	340818.589	398607.931	2.045
133	0.143	5.00	25.625	1500	340869.443	398588.720	1.725
134	0.052	5.00	25.349	2400	340848.629	398596.495	3.465
135	0.108	5.00	25.327	2400	340818.314	398677.788	3.461
136	0.240	5.00	25.375	2400	340872.081	398657.493	3.653
137	0.072	5.00	25.553	2400	340877.352	398671.387	3.868
138	0.127	5.00	26.100	2400	340923.964	398653.608	4.540
139	0.188	5.00	26.032	2400	340937.917	398648.293	4.509
140	0.067	5.00	25.862	2400	340941.790	398658.589	5.748
141	0.223	5.00	23.897	2700	340957.947	398701.490	3.897
142	0.000		23.150	2100	340965.213	398719.999	3.690
143	0.036	5.00	25.583	2100	340884.038	398690.334	3.873
144	0.096	5.00	24.869	2100	340882.303	398716.307	3.191
145	0.091	5.00	25.303	2400	340892.367	398712.530	3.652
146	0.000	5.00	25.150	2100	340899.667	398731.983	3.551
147	0.000		23.293	1500	340908.304	398754.997	5.087
148	0.000		21.316	1500	340893.298	398764.225	3.434
149	0.000		20.620	1500	340852.219	398754.836	3.526
150			16.562	1500	340764.387	398754.009	1.128

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	101	103	62.151	0.600	25.171	23.788	1.383	44.9	225	5.53	50.0
2.000	102	103	78.350	0.600	24.688	23.713	0.975	80.4	300	5.74	50.0
1.001	103	104	39.188	0.600	23.563	23.465	0.098	400.0	450	6.39	50.0
1.002	104	105	10.386	0.600	23.465	23.439	0.026	400.0	450	6.56	50.0
1.003	105	106	8.091	0.600	23.439	23.419	0.020	400.0	450	6.70	50.0
1.004	106	107	11.392	0.600	23.419	23.091	0.328	34.7	450	6.75	50.0
1.005	107	108	45.424	0.600	23.091	21.969	1.122	40.5	450	6.99	50.0
1.006	108	109	14.211	0.600	21.969	21.645	0.324	43.9	450	7.06	50.0
1.009	111	113	7.320	0.600	20.278	20.260	0.018	400.0	1500	5.06	50.0
3.000	112	113	68.004	0.600	20.429	20.259	0.170	400.0	1500	5.53	50.0
1.010	113	114	10.890	0.600	20.259	20.232	0.027	400.0	1500	5.62	50.0
1.011	114	115	10.730	0.600	20.232	20.205	0.027	400.0	1500	5.70	50.0
1.012	115	118	11.379	0.600	20.205	20.177	0.028	400.0	1500	5.79	50.0
4.000	116	117	19.153	0.600	23.363	22.884	0.479	40.0	225	5.15	50.0
4.001	117	118	13.999	0.600	22.884	22.801	0.083	168.7	225	5.39	50.0
1.013	118	119	10.035	0.600	20.177	20.152	0.025	400.0	1500	5.87	50.0
1.014	119	141	60.816	0.600	20.153	20.000	0.153	397.5	1500	6.34	50.0
5.000	120	121	57.539	0.600	25.329	23.816	1.513	38.0	225	5.45	50.0
5.001	121	122	10.594	0.600	23.741	23.678	0.063	168.0	300	5.60	50.0
5.002	122	125	11.371	0.600	21.877	21.849	0.028	400.0	1050	5.71	50.0
6.000	123	124	15.069	0.600	23.948	23.859	0.089	170.0	225	5.25	50.0
6.001	124	125	53.764	0.600	21.983	21.849	0.134	400.0	1050	5.77	50.0
5.003	125	130	60.502	0.600	21.849	21.698	0.151	400.0	1050	6.36	50.0
7.000	126	127	32.491	0.600	24.199	23.864	0.335	97.0	225	5.41	50.0
7.001	127	128	8.027	0.600	23.864	23.774	0.090	89.0	225	5.50	50.0
7.002	128	129	7.476	0.600	23.774	23.699	0.075	100.0	225	5.60	50.0
7.003	129	130	50.067	0.600	21.823	21.698	0.125	400.0	1050	6.09	50.0
5.004	130	139	69.955	0.600	21.698	21.523	0.175	400.0	1050	7.04	50.0
8.000	131	132	14.944	0.600	22.986	22.898	0.088	170.0	225	5.25	50.0
8.001	132	134	32.143	0.600	22.898	22.709	0.189	170.0	225	5.79	50.0
9.000	133	134	22.219	0.600	23.900	22.710	1.190	18.7	225	5.12	50.0
8.002	134	136	65.351	0.600	21.884	21.722	0.162	403.4	1050	6.42	50.0
10.000	135	136	57.470	0.600	21.866	21.722	0.144	400.0	1050	5.56	50.0
8.003	136	137	14.860	0.600	21.722	21.685	0.037	400.0	1050	6.57	50.0
8.004	137	138	49.888	0.600	21.685	21.560	0.125	400.0	1050	7.05	50.0
8.005	138	139	14.931	0.600	21.560	21.523	0.037	400.0	1050	7.20	50.0
5.005	139	140	11.000	0.600	21.523	21.389	0.134	82.1	225	7.32	50.0
5.006	140	141	45.843	0.600	20.114	20.000	0.114	402.1	1500	7.68	50.0
1.015	141	142	19.884	0.600	20.000	19.460	0.540	36.8	375	7.79	49.9
1.016	142	147	66.809	0.600	19.460	18.206	1.254	53.3	375	8.24	49.2
11.000	143	145	23.707	0.600	21.710	21.651	0.059	400.0	900	5.25	50.0
12.000	144	145	10.749	0.600	21.678	21.651	0.027	400.0	900	5.11	50.0
11.001	145	146	20.778	0.600	21.651	21.599	0.052	400.0	900	5.48	50.0
11.002	146	147	24.581	0.600	21.599	19.364	2.235	11.0	225	5.58	50.0
1.017	147	148	17.616	0.600	18.206	17.882	0.324	54.4	375	8.36	48.8
1.018	148	149	42.138	0.600	17.882	17.094	0.788	53.5	375	8.64	48.1
1.019	149	150	87.836	0.600	17.094	15.434	1.660	52.9	375	9.23	46.7

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	62.151	44.9	225	Circular_Default Sewer Type	26.858	25.171	1.462	25.213	23.788	1.200
2.000	78.350	80.4	300	Circular_Default Sewer Type	26.188	24.688	1.200	25.213	23.713	1.200
1.001	39.188	400.0	450	Circular_Default Sewer Type	25.213	23.563	1.200	25.424	23.465	1.509
1.002	10.386	400.0	450	Circular_Default Sewer Type	25.424	23.465	1.509	25.431	23.439	1.542
1.003	8.091	400.0	450	Circular_Default Sewer Type	25.431	23.439	1.542	25.343	23.419	1.474
1.004	11.392	34.7	450	Circular_Default Sewer Type	25.343	23.419	1.474	25.057	23.091	1.516
1.005	45.424	40.5	450	Circular_Default Sewer Type	25.057	23.091	1.516	23.919	21.969	1.500
1.006	14.211	43.9	450	Circular_Default Sewer Type	23.919	21.969	1.500	23.740	21.645	1.645
1.009	7.320	400.0	1500	Circular_Default Sewer Type	24.100	20.278	2.322	24.154	20.260	2.394
3.000	68.004	400.0	1500	Circular_Default Sewer Type	23.846	20.429	1.917	24.154	20.259	2.395
1.010	10.890	400.0	1500	Circular_Default Sewer Type	24.154	20.259	2.395	24.307	20.232	2.575
1.011	10.730	400.0	1500	Circular_Default Sewer Type	24.307	20.232	2.575	24.428	20.205	2.723
1.012	11.379	400.0	1500	Circular_Default Sewer Type	24.428	20.205	2.723	24.647	20.177	2.970
4.000	19.153	40.0	225	Circular_Default Sewer Type	25.388	23.363	1.800	25.060	22.884	1.951
4.001	13.999	168.7	225	Circular_Default Sewer Type	25.060	22.884	1.951	24.647	22.801	1.621
1.013	10.035	400.0	1500	Circular_Default Sewer Type	24.647	20.177	2.970	24.247	20.152	2.595
1.014	60.816	397.5	1500	Circular_Default Sewer Type	24.247	20.153	2.594	23.897	20.000	2.397
5.000	57.539	38.0	225	Circular_Default Sewer Type	26.754	25.329	1.200	26.600	23.816	2.559
5.001	10.594	168.0	300	Circular_Default Sewer Type	26.600	23.741	2.559	26.737	23.678	2.759
5.002	11.371	400.0	1050	Circular_Default Sewer Type	26.737	21.877	3.810	26.521	21.849	3.622
6.000	15.069	170.0	225	Circular_Default Sewer Type	25.945	23.948	1.772	25.868	23.859	1.784
6.001	53.764	400.0	1050	Circular_Default Sewer Type	25.868	21.983	2.835	26.521	21.849	3.622
5.003	60.502	400.0	1050	Circular_Default Sewer Type	26.521	21.849	3.622	26.304	21.698	3.556
7.000	32.491	97.0	225	Circular_Default Sewer Type	25.924	24.199	1.500	25.593	23.864	1.504
7.001	8.027	89.0	225	Circular_Default Sewer Type	25.593	23.864	1.504	25.604	23.774	1.605

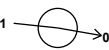
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	101	1500	Manhole	Adoptable	103	1500	Manhole	Adoptable
2.000	102	1500	Manhole	Adoptable	103	1500	Manhole	Adoptable
1.001	103	1500	Manhole	Adoptable	104	1500	Manhole	Adoptable
1.002	104	1500	Manhole	Adoptable	105	1500	Manhole	Adoptable
1.003	105	1500	Manhole	Adoptable	106	1500	Manhole	Adoptable
1.004	106	1500	Manhole	Adoptable	107	1500	Manhole	Adoptable
1.005	107	1500	Manhole	Adoptable	108	1500	Manhole	Adoptable
1.006	108	1500	Manhole	Adoptable	109		Junction	
1.009	111		Junction		113	2400	Manhole	Adoptable
3.000	112	2400	Manhole	Adoptable	113	2400	Manhole	Adoptable
1.010	113	2400	Manhole	Adoptable	114	2400	Manhole	Adoptable
1.011	114	2400	Manhole	Adoptable	115	2400	Manhole	Adoptable
1.012	115	2400	Manhole	Adoptable	118	2400	Manhole	Adoptable
4.000	116	1500	Manhole	Adoptable	117	1500	Manhole	Adoptable
4.001	117	1500	Manhole	Adoptable	118	2400	Manhole	Adoptable
1.013	118	2400	Manhole	Adoptable	119	2400	Manhole	Adoptable
1.014	119	2400	Manhole	Adoptable	141	2700	Manhole	Adoptable
5.000	120	1500	Manhole	Adoptable	121	1500	Manhole	Adoptable
5.001	121	1500	Manhole	Adoptable	122	2400	Manhole	Adoptable
5.002	122	2400	Manhole	Adoptable	125	2400	Manhole	Adoptable
6.000	123	1500	Manhole	Adoptable	124	2400	Manhole	Adoptable
6.001	124	2400	Manhole	Adoptable	125	2400	Manhole	Adoptable
5.003	125	2400	Manhole	Adoptable	130	2400	Manhole	Adoptable
7.000	126	1500	Manhole	Adoptable	127	1500	Manhole	Adoptable
7.001	127	1500	Manhole	Adoptable	128	1500	Manhole	Adoptable

Pipeline Schedule

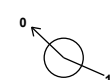
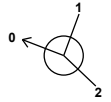
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
7.002	7.476	100.0	225	Circular_Default Sewer Type	25.604	23.774	1.605	25.679	23.699	1.755
7.003	50.067	400.0	1050	Circular_Default Sewer Type	25.679	21.823	2.806	26.304	21.698	3.556
5.004	69.955	400.0	1050	Circular_Default Sewer Type	26.304	21.698	3.556	26.032	21.523	3.459
8.000	14.944	170.0	225	Circular_Default Sewer Type	24.864	22.986	1.653	24.943	22.898	1.820
8.001	32.143	170.0	225	Circular_Default Sewer Type	24.943	22.898	1.820	25.349	22.709	2.415
9.000	22.219	18.7	225	Circular_Default Sewer Type	25.625	23.900	1.500	25.349	22.710	2.414
8.002	65.351	403.4	1050	Circular_Default Sewer Type	25.349	21.884	2.415	25.375	21.722	2.603
10.000	57.470	400.0	1050	Circular_Default Sewer Type	25.327	21.866	2.411	25.375	21.722	2.603
8.003	14.860	400.0	1050	Circular_Default Sewer Type	25.375	21.722	2.603	25.553	21.685	2.818
8.004	49.888	400.0	1050	Circular_Default Sewer Type	25.553	21.685	2.818	26.100	21.560	3.490
8.005	14.931	400.0	1050	Circular_Default Sewer Type	26.100	21.560	3.490	26.032	21.523	3.459
5.005	11.000	82.1	225	Circular_Default Sewer Type	26.032	21.523	4.284	25.862	21.389	4.248
5.006	45.843	402.1	1500	Circular_Default Sewer Type	25.862	20.114	4.248	23.897	20.000	2.397
1.015	19.884	36.8	375	Circular_Default Sewer Type	23.897	20.000	3.522	23.150	19.460	3.315
1.016	66.809	53.3	375	Circular_Default Sewer Type	23.150	19.460	3.315	23.293	18.206	4.712
11.000	23.707	400.0	900	Circular_Default Sewer Type	25.583	21.710	2.973	25.303	21.651	2.752
12.000	10.749	400.0	900	Circular_Default Sewer Type	24.869	21.678	2.291	25.303	21.651	2.752
11.001	20.778	400.0	900	Circular_Default Sewer Type	25.303	21.651	2.752	25.150	21.599	2.651
11.002	24.581	11.0	225	Circular_Default Sewer Type	25.150	21.599	3.326	23.293	19.364	3.704
1.017	17.616	54.4	375	Circular_Default Sewer Type	23.293	18.206	4.712	21.316	17.882	3.059
1.018	42.138	53.5	375	Circular_Default Sewer Type	21.316	17.882	3.059	20.620	17.094	3.151
1.019	87.836	52.9	375	Circular_Default Sewer Type	20.620	17.094	3.151	16.562	15.434	0.753

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
7.002	128	1500	Manhole	Adoptable	129	2400	Manhole	Adoptable
7.003	129	2400	Manhole	Adoptable	130	2400	Manhole	Adoptable
5.004	130	2400	Manhole	Adoptable	139	2400	Manhole	Adoptable
8.000	131	1500	Manhole	Adoptable	132	1500	Manhole	Adoptable
8.001	132	1500	Manhole	Adoptable	134	2400	Manhole	Adoptable
9.000	133	1500	Manhole	Adoptable	134	2400	Manhole	Adoptable
8.002	134	2400	Manhole	Adoptable	136	2400	Manhole	Adoptable
10.000	135	2400	Manhole	Adoptable	136	2400	Manhole	Adoptable
8.003	136	2400	Manhole	Adoptable	137	2400	Manhole	Adoptable
8.004	137	2400	Manhole	Adoptable	138	2400	Manhole	Adoptable
8.005	138	2400	Manhole	Adoptable	139	2400	Manhole	Adoptable
5.005	139	2400	Manhole	Adoptable	140	2400	Manhole	Adoptable
5.006	140	2400	Manhole	Adoptable	141	2700	Manhole	Adoptable
1.015	141	2700	Manhole	Adoptable	142	2100	Manhole	Adoptable
1.016	142	2100	Manhole	Adoptable	147	1500	Manhole	Adoptable
11.000	143	2100	Manhole	Adoptable	145	2400	Manhole	Adoptable
12.000	144	2100	Manhole	Adoptable	145	2400	Manhole	Adoptable
11.001	145	2400	Manhole	Adoptable	146	2100	Manhole	Adoptable
11.002	146	2100	Manhole	Adoptable	147	1500	Manhole	Adoptable
1.017	147	1500	Manhole	Adoptable	148	1500	Manhole	Adoptable
1.018	148	1500	Manhole	Adoptable	149	1500	Manhole	Adoptable
1.019	149	1500	Manhole	Adoptable	150	1500	Manhole	Adoptable

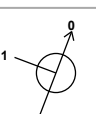
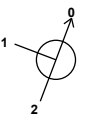
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
101	341096.767	398506.491	26.858	1.687	1500				
						0	1.000	25.171	225
102	341044.805	398590.651	26.188	1.500	1500				
						0	2.000	24.688	300
103	341118.711	398564.639	25.213	1.650	1500		1	2.000	23.713
						2	1.000	23.788	225
						0	1.001	23.563	450
104	341155.375	398550.802	25.424	1.959	1500		1	1.001	23.465
						0	1.002	23.465	450
105	341165.703	398549.708	25.431	1.992	1500		1	1.002	23.439
						0	1.003	23.439	450
106	341173.673	398548.316	25.343	1.924	1500		1	1.003	23.419
						0	1.004	23.419	450
107	341177.467	398559.058	25.057	1.966	1500		1	1.004	23.091
						0	1.005	23.091	450
108	341176.001	398604.458	23.919	1.950	1500		1	1.005	21.969
						0	1.006	21.969	450
109	341162.972	398610.133	23.740	3.144			1	1.006	21.645
111	341045.154	398657.569	24.100	3.822					
						0	1.009	20.278	1500
112	341106.066	398639.184	23.846	3.417	2400				
						0	3.000	20.429	1500
113	341042.972	398664.556	24.154	3.895	2400		1	3.000	20.259
						2	1.009	20.260	1500
						0	1.010	20.259	1500
114	341032.209	398666.215	24.307	4.075	2400		1	1.010	20.232
						0	1.011	20.232	1500

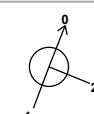
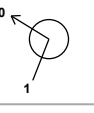
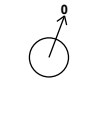
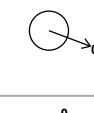
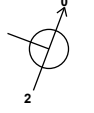
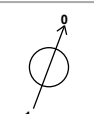
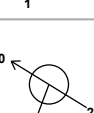
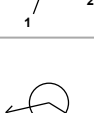
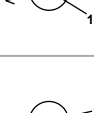
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
115	341021.503	398665.503	24.428	4.223	2400		1	1.011	20.205	1500
							0	1.012	20.205	1500
116	340998.387	398638.519	25.388	2.025	1500					
							0	4.000	23.363	225
117	341005.130	398656.446	25.060	2.176	1500		1	4.000	22.884	225
							0	4.001	22.884	225
118	341010.763	398669.262	24.647	4.470	2400		1	4.001	22.801	225
							2	1.012	20.177	1500
							0	1.013	20.177	1500
119	341014.311	398678.649	24.247	4.095	2400		1	1.013	20.152	1500
							0	1.014	20.153	1500
120	341041.378	398528.728	26.754	1.425	1500					
							0	5.000	25.329	225
121	340987.546	398549.048	26.600	2.859	1500		1	5.000	23.816	225
							0	5.001	23.741	300
122	340977.836	398553.284	26.737	4.860	2400		1	5.001	23.678	300
							0	5.002	21.877	1050
123	341002.399	398606.491	25.945	1.997	1500					
							0	6.000	23.948	225
124	340988.207	398611.557	25.868	3.885	2400		1	6.000	23.859	225
							0	6.001	21.983	1050
125	340969.594	398561.118	26.521	4.672	2400		1	6.001	21.849	1050
							2	5.002	21.849	1050
							0	5.003	21.849	1050
126	340928.710	398510.191	25.924	1.725	1500					
							0	7.000	24.199	225
127	340898.340	398521.739	25.593	1.729	1500		1	7.000	23.864	225
							0	7.001	23.864	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
128	340894.270	398528.658	25.604	1.830	1500		1	7.001	23.774 225
129	340895.422	398536.045	25.679	3.856	2400		1	7.002	23.774 225
130	340913.139	398582.873	26.304	4.606	2400		1	7.003	21.823 1050
							2	5.003	21.698 1050
							0	5.004	21.698 1050
131	340803.679	398608.941	24.864	1.878	1500		0	8.000	22.986 225
132	340818.589	398607.931	24.943	2.045	1500		1	8.000	22.898 225
							0	8.001	22.898 225
133	340869.443	398588.720	25.625	1.725	1500		0	9.000	23.900 225
134	340848.629	398596.495	25.349	3.465	2400		1	9.000	22.710 225
							2	8.001	22.709 225
							0	8.002	21.884 1050
135	340818.314	398677.788	25.327	3.461	2400		0	10.000	21.866 1050
136	340872.081	398657.493	25.375	3.653	2400		1	10.000	21.722 1050
							2	8.002	21.722 1050
							0	8.003	21.722 1050
137	340877.352	398671.387	25.553	3.868	2400		1	8.003	21.685 1050
							0	8.004	21.685 1050
138	340923.964	398653.608	26.100	4.540	2400		1	8.004	21.560 1050
							0	8.005	21.560 1050
139	340937.917	398648.293	26.032	4.509	2400		1	8.005	21.523 1050
							2	5.004	21.523 1050
							0	5.005	21.523 225
140	340941.790	398658.589	25.862	5.748	2400		1	5.005	21.389 225
							0	5.006	20.114 1500

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
141	340957.947	398701.490	23.897	3.897	2700		1 5.006 20.000 1500 2 1.014 20.000 1500		
142	340965.213	398719.999	23.150	3.690	2100		1 1.015 19.460 375 0 1.016 19.460 375		
143	340884.038	398690.334	25.583	3.873	2100		0 11.000 21.710 900		
144	340882.303	398716.307	24.869	3.191	2100		0 12.000 21.678 900		
145	340892.367	398712.530	25.303	3.652	2400		1 12.000 21.651 900 2 11.000 21.651 900 0 11.001 21.651 900		
146	340899.667	398731.983	25.150	3.551	2100		1 11.001 21.599 900 0 11.002 21.599 225		
147	340908.304	398754.997	23.293	5.087	1500		1 11.002 19.364 225 2 1.016 18.206 375 0 1.017 18.206 375		
148	340893.298	398764.225	21.316	3.434	1500		1 1.017 17.882 375 0 1.018 17.882 375		
149	340852.219	398754.836	20.620	3.526	1500		1 1.018 17.094 375 0 1.019 17.094 375		
150	340764.387	398754.009	16.562	1.128	1500		1 1.019 15.434 375		

Node 139 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	21.523	Product Number	CTL-SHE-0190-2800-3800-2800
Design Depth (m)	3.800	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	28.0	Min Node Diameter (mm)	1800

Node 141 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	20.000	Product Number	CTL-SHE-0222-3500-3182-3500
Design Depth (m)	3.182	Min Outlet Diameter (m)	0.300
Design Flow (l/s)	35.0	Min Node Diameter (mm)	2700

Node 146 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	21.599	Product Number	CTL-SHE-0100-5000-1400-5000
Design Depth (m)	1.400	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node 122 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	24.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	228

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	380.0	380.0	0.800	380.0	435.3	0.801	0.0	435.3

Node 125 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	24.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	228

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	380.0	380.0	0.800	380.0	435.3	0.801	0.0	435.3

Node 111 Tank Storage Structure

Invert Level (m)	20.278	Main Channel Length (m)	127.008
Time to half empty (mins)		Main Channel Slope (1:X)	400.0
Analyse flow through structure	✓	Main Channel n	0.600

Inlets
109

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	448.0	1.500	448.0	1.501	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	101	11	25.223	0.052	9.4	0.1354	0.0000	OK
15 minute winter	102	11	24.796	0.108	35.4	0.5712	0.0000	OK
15 minute winter	103	11	23.775	0.212	65.3	0.8232	0.0000	OK
15 minute winter	104	11	23.697	0.232	78.8	0.6530	0.0000	OK
15 minute winter	105	11	23.638	0.199	79.9	0.3744	0.0000	OK
15 minute winter	106	11	23.556	0.137	88.9	0.3453	0.0000	OK
15 minute winter	107	11	23.221	0.130	92.8	0.2712	0.0000	OK
15 minute winter	108	11	22.119	0.150	107.9	0.4567	0.0000	OK
60 minute winter	109	47	20.855	0.260	59.6	0.0000	0.0000	OK
240 minute winter	111	232	20.576	0.298	21.9	99.9148	0.0000	OK
240 minute winter	112	232	20.577	0.148	3.0	0.7573	0.0000	OK
240 minute winter	113	232	20.576	0.317	16.3	1.8851	0.0000	OK
240 minute winter	114	232	20.576	0.344	18.2	1.5716	0.0000	OK
240 minute winter	115	232	20.576	0.371	19.2	1.8315	0.0000	OK
15 minute winter	116	10	23.414	0.051	9.3	0.1238	0.0000	OK
15 minute winter	117	11	22.970	0.086	11.6	0.1665	0.0000	OK
240 minute winter	118	232	20.576	0.399	20.2	1.8465	0.0000	OK
240 minute winter	119	232	20.576	0.424	21.2	1.9495	0.0000	OK
15 minute winter	120	10	25.417	0.088	27.8	0.4119	0.0000	OK
15 minute winter	121	11	23.887	0.146	35.5	0.3247	0.0000	OK
60 minute winter	122	56	22.159	0.282	19.8	1.2864	0.0000	OK
15 minute winter	123	10	24.053	0.105	16.3	0.3113	0.0000	OK
60 minute winter	124	56	22.161	0.178	14.5	0.8821	0.0000	OK
60 minute winter	125	56	22.158	0.309	36.4	1.4778	0.0000	OK
15 minute winter	126	10	24.280	0.081	15.0	0.2462	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	101	1.000	103	9.1	1.313	0.117	0.4291	
15 minute winter	102	2.000	103	34.1	1.506	0.275	1.7733	
15 minute winter	103	1.001	104	65.7	0.846	0.409	3.0468	
15 minute winter	104	1.002	105	78.5	1.047	0.488	0.7788	
15 minute winter	105	1.003	106	79.6	1.481	0.496	0.4384	
15 minute winter	106	1.004	107	88.7	2.265	0.161	0.4462	
15 minute winter	107	1.005	108	92.2	2.203	0.181	1.9087	
15 minute winter	108	1.006	109	106.8	2.414	0.218	0.6295	
60 minute winter	109	Tank	111	23.2	0.031	0.065		
240 minute winter	111	1.009	113	15.1	0.410	0.004	1.8924	
240 minute winter	112	3.000	113	2.7	0.161	0.001	12.2484	
240 minute winter	113	1.010	114	18.2	0.433	0.005	3.1299	
240 minute winter	114	1.011	115	19.2	0.385	0.005	3.4476	
240 minute winter	115	1.012	118	20.2	0.364	0.005	4.0598	
15 minute winter	116	4.000	117	9.2	0.910	0.112	0.1967	
15 minute winter	117	4.001	118	11.4	0.847	0.286	0.1886	
240 minute winter	118	1.013	119	21.2	0.394	0.006	3.9314	
240 minute winter	119	1.014	141	24.0	0.160	0.006	31.3149	
15 minute winter	120	5.000	121	26.8	1.884	0.317	0.8196	
15 minute winter	121	5.001	122	35.4	1.103	0.414	0.3398	
60 minute winter	122	5.002	125	18.6	0.454	0.013	2.2626	
15 minute winter	123	6.000	124	15.9	0.921	0.399	0.2606	
60 minute winter	124	6.001	125	14.4	0.394	0.010	8.2939	
60 minute winter	125	5.003	130	31.7	0.449	0.021	17.2856	
15 minute winter	126	7.000	127	14.7	0.928	0.278	0.5156	

Results for 1 year Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	127	11	23.973	0.109	20.8	0.2503	0.0000	OK
15 minute winter	128	11	23.930	0.156	36.3	0.4817	0.0000	OK
60 minute winter	129	57	22.160	0.337	22.7	1.6082	0.0000	OK
60 minute winter	130	58	22.157	0.459	64.7	2.5067	0.0000	OK
15 minute winter	131	10	23.067	0.081	11.5	0.2174	0.0000	OK
15 minute winter	132	11	23.028	0.130	24.4	0.3519	0.0000	OK
15 minute winter	133	10	23.962	0.062	19.3	0.2130	0.0000	OK
60 minute winter	134	60	22.162	0.278	26.5	1.3393	0.0000	OK
60 minute winter	135	52	22.160	0.294	15.8	1.5126	0.0000	OK
60 minute winter	136	59	22.159	0.437	43.4	2.5486	0.0000	OK
60 minute winter	137	59	22.158	0.473	27.9	2.3170	0.0000	OK
60 minute winter	138	59	22.156	0.596	25.4	3.0302	0.0000	OK
60 minute winter	139	62	22.157	0.634	43.9	3.3967	0.0000	SURCHARGED
240 minute winter	140	232	20.576	0.462	25.0	2.1989	0.0000	OK
240 minute winter	141	232	20.576	0.576	37.6	3.9583	0.0000	SURCHARGED
240 minute winter	142	252	19.548	0.088	33.6	0.3043	0.0000	OK
30 minute winter	143	26	21.908	0.198	5.7	0.7241	0.0000	OK
30 minute winter	144	27	21.906	0.228	10.0	0.9260	0.0000	OK
30 minute winter	145	27	21.906	0.255	18.2	1.2782	0.0000	OK
30 minute winter	146	27	21.906	0.307	9.5	1.0640	0.0000	SURCHARGED
120 minute winter	147	110	18.305	0.099	37.7	0.1755	0.0000	OK
120 minute winter	148	110	17.977	0.095	37.7	0.1687	0.0000	OK
120 minute winter	149	112	17.188	0.094	37.7	0.1661	0.0000	OK
120 minute winter	150	112	15.527	0.093	37.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	127	7.001	128	20.4	0.837	0.371	0.1951	
15 minute winter	128	7.002	129	36.0	1.318	0.693	0.2041	
60 minute winter	129	7.003	130	25.8	0.352	0.017	15.0009	
60 minute winter	130	5.004	139	30.2	0.291	0.020	31.6351	
15 minute winter	131	8.000	132	11.3	0.625	0.284	0.2714	
15 minute winter	132	8.001	134	23.8	1.033	0.599	0.7410	
15 minute winter	133	9.000	134	19.0	2.185	0.157	0.1935	
60 minute winter	134	8.002	136	24.5	0.409	0.017	16.9158	
60 minute winter	135	10.000	136	-12.3	0.163	-0.008	15.2834	
60 minute winter	136	8.003	137	24.3	0.543	0.016	5.3234	
60 minute winter	137	8.004	138	21.5	0.422	0.014	22.0227	
60 minute winter	138	8.005	139	21.3	0.212	0.014	7.8405	
60 minute winter	139	Hydro-Brake®	140	23.9				
240 minute winter	140	5.006	141	23.6	0.227	0.006	24.8278	
240 minute winter	141	Hydro-Brake®	142	33.6				
240 minute winter	142	1.016	147	33.6	1.636	0.122	1.4225	
30 minute winter	143	11.000	145	3.9	0.121	0.004	2.9554	
30 minute winter	144	12.000	145	7.5	0.278	0.008	1.4672	
30 minute winter	145	11.001	146	9.5	0.410	0.010	3.5118	
30 minute winter	146	Hydro-Brake®	147	4.9				
120 minute winter	147	1.017	148	37.7	1.663	0.139	0.3996	
120 minute winter	148	1.018	149	37.7	1.729	0.138	0.9191	
120 minute winter	149	1.019	150	37.7	1.767	0.137	1.8753	531.6

Results for 30 year Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	101	10	25.254	0.083	23.1	0.2149	0.0000	OK
15 minute winter	102	10	24.869	0.181	86.9	0.9558	0.0000	OK
15 minute winter	103	11	23.978	0.415	166.3	1.6127	0.0000	OK
15 minute winter	104	11	23.871	0.406	190.2	1.1453	0.0000	OK
15 minute winter	105	11	23.770	0.331	192.9	0.6223	0.0000	OK
15 minute winter	106	11	23.655	0.236	215.2	0.5954	0.0000	OK
15 minute winter	107	11	23.305	0.214	224.8	0.4475	0.0000	OK
15 minute winter	108	11	22.224	0.255	262.8	0.7755	0.0000	OK
60 minute winter	109	43	21.109	0.514	144.4	0.0000	0.0000	OK
240 minute winter	111	236	21.005	0.727	49.2	254.7909	0.0000	OK
240 minute winter	112	236	21.004	0.575	11.0	2.9393	0.0000	OK
240 minute winter	113	236	21.005	0.746	33.1	4.4334	0.0000	OK
240 minute winter	114	236	21.005	0.773	19.5	3.5293	0.0000	OK
240 minute winter	115	236	21.005	0.800	22.1	3.9468	0.0000	OK
15 minute winter	116	10	23.443	0.080	22.8	0.1962	0.0000	OK
15 minute winter	117	10	23.034	0.150	28.5	0.2890	0.0000	OK
240 minute winter	118	236	21.005	0.828	25.8	3.8292	0.0000	OK
240 minute winter	119	236	21.005	0.853	23.6	3.9192	0.0000	OK
15 minute winter	120	10	25.479	0.150	68.0	0.6972	0.0000	OK
15 minute winter	121	10	24.025	0.284	88.4	0.6305	0.0000	OK
180 minute winter	122	176	23.981	2.104	21.9	9.6122	0.0000	SURCHARGED
15 minute winter	123	10	24.145	0.197	40.0	0.5876	0.0000	OK
180 minute winter	124	176	23.979	1.996	16.9	9.9003	0.0000	SURCHARGED
180 minute winter	125	176	23.981	2.132	33.4	10.1802	0.0000	SURCHARGED
15 minute winter	126	11	24.461	0.262	36.7	0.8005	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	101	1.000	103	22.7	1.504	0.292	1.5150	
15 minute winter	102	2.000	103	85.8	1.713	0.692	4.2832	
15 minute winter	103	1.001	104	158.2	1.043	0.985	5.9448	
15 minute winter	104	1.002	105	189.5	1.363	1.179	1.4320	
15 minute winter	105	1.003	106	192.5	1.838	1.198	0.8461	
15 minute winter	106	1.004	107	214.9	2.717	0.391	0.9014	
15 minute winter	107	1.005	108	224.2	2.697	0.440	3.7916	
15 minute winter	108	1.006	109	262.3	3.010	0.536	1.2386	
60 minute winter	109	Tank	111	80.2	0.050	0.224		
240 minute winter	111	1.009	113	18.3	-0.169	0.005	6.2866	
240 minute winter	112	3.000	113	-6.9	0.155	-0.002	50.8414	
240 minute winter	113	1.010	114	18.9	0.409	0.005	9.7355	
240 minute winter	114	1.011	115	16.7	0.333	0.004	10.0255	
240 minute winter	115	1.012	118	19.0	0.343	0.005	11.0984	
15 minute winter	116	4.000	117	22.6	1.119	0.274	0.3895	
15 minute winter	117	4.001	118	27.9	1.048	0.699	0.3725	
240 minute winter	118	1.013	119	22.7	0.395	0.006	10.1827	
240 minute winter	119	1.014	141	16.2	0.178	0.004	69.4948	
15 minute winter	120	5.000	121	66.9	2.117	0.791	1.9133	
15 minute winter	121	5.001	122	87.0	1.355	1.017	0.6721	
180 minute winter	122	5.002	125	18.7	0.370	0.013	9.8090	
15 minute winter	123	6.000	124	38.9	1.137	0.978	0.5136	
180 minute winter	124	6.001	125	10.7	0.309	0.007	46.3788	
180 minute winter	125	5.003	130	17.4	0.366	0.012	52.1912	
15 minute winter	126	7.000	127	32.5	1.001	0.615	1.2922	

Results for 30 year Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	127	11	24.310	0.446	46.4	1.0195	0.0000	SURCHARGED
15 minute winter	128	11	24.213	0.439	82.3	1.3502	0.0000	SURCHARGED
180 minute winter	129	176	23.981	2.158	25.0	10.2897	0.0000	SURCHARGED
180 minute winter	130	176	23.981	2.283	44.6	12.4706	0.0000	SURCHARGED
180 minute winter	131	172	23.981	0.995	6.6	2.6593	0.0000	SURCHARGED
180 minute winter	132	176	23.983	1.085	14.1	2.9466	0.0000	SURCHARGED
15 minute winter	133	10	24.002	0.102	47.2	0.3508	0.0000	OK
180 minute winter	134	176	23.981	2.097	29.2	10.1140	0.0000	SURCHARGED
180 minute winter	135	176	23.979	2.113	10.9	10.8786	0.0000	SURCHARGED
180 minute winter	136	176	23.980	2.258	40.8	13.1835	0.0000	SURCHARGED
180 minute winter	137	176	23.980	2.295	24.9	11.2384	0.0000	SURCHARGED
180 minute winter	138	176	23.981	2.421	23.8	12.3060	0.0000	SURCHARGED
180 minute winter	139	176	23.981	2.458	38.3	13.1705	0.0000	SURCHARGED
240 minute winter	140	236	21.005	0.891	28.4	4.2362	0.0000	OK
240 minute winter	141	236	21.005	1.005	49.9	6.9010	0.0000	SURCHARGED
480 minute winter	142	576	19.550	0.090	34.9	0.3110	0.0000	OK
60 minute winter	143	60	22.366	0.656	8.1	2.3953	0.0000	OK
60 minute winter	144	59	22.365	0.687	16.3	2.7946	0.0000	OK
60 minute winter	145	59	22.365	0.714	28.0	3.5876	0.0000	OK
60 minute winter	146	59	22.366	0.767	12.3	2.6579	0.0000	SURCHARGED
360 minute summer	147	272	18.308	0.102	39.9	0.1810	0.0000	OK
360 minute summer	148	272	17.980	0.098	39.9	0.1738	0.0000	OK
360 minute summer	149	272	17.191	0.097	39.9	0.1710	0.0000	OK
360 minute summer	150	272	15.529	0.095	39.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	127	7.001	128	46.1	1.159	0.836	0.3192	
15 minute winter	128	7.002	129	81.8	2.057	1.574	0.2943	
180 minute winter	129	7.003	130	17.8	0.311	0.012	43.1896	
180 minute winter	130	5.004	139	21.8	0.275	0.015	60.3457	
180 minute winter	131	8.000	132	6.6	0.540	0.166	0.5943	
180 minute winter	132	8.001	134	14.1	0.908	0.355	1.2784	
15 minute winter	133	9.000	134	46.7	2.761	0.386	0.3759	
180 minute winter	134	8.002	136	21.7	0.317	0.015	56.3742	
180 minute winter	135	10.000	136	-6.9	0.125	-0.005	49.5757	
180 minute winter	136	8.003	137	19.3	0.475	0.013	12.8188	
180 minute winter	137	8.004	138	14.5	0.358	0.010	43.0352	
180 minute winter	138	8.005	139	14.9	0.185	0.010	12.8800	
180 minute winter	139	Hydro-Brake®	140	24.2				
240 minute winter	140	5.006	141	24.8	0.258	0.007	53.7051	
240 minute winter	141	Hydro-Brake®	142	34.9				
480 minute winter	142	1.016	147	34.9	1.655	0.127	1.4834	
60 minute winter	143	11.000	145	4.3	0.125	0.004	12.2698	
60 minute winter	144	12.000	145	11.6	0.275	0.012	5.6945	
60 minute winter	145	11.001	146	12.3	0.424	0.012	11.5905	
60 minute winter	146	Hydro-Brake®	147	5.0				
360 minute summer	147	1.017	148	39.9	1.687	0.147	0.4170	
360 minute summer	148	1.018	149	39.9	1.757	0.146	0.9579	
360 minute summer	149	1.019	150	39.9	1.796	0.145	1.9535	1177.4

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	101	10	25.289	0.118	43.4	0.3072	0.0000	OK
15 minute winter	102	12	25.993	1.305	163.2	6.8839	0.0000	FLOOD RISK
15 minute winter	103	11	24.628	1.065	280.5	4.1411	0.0000	SURCHARGED
15 minute winter	104	11	24.256	0.791	336.4	2.2301	0.0000	SURCHARGED
15 minute winter	105	11	24.027	0.588	341.8	1.1051	0.0000	SURCHARGED
15 minute winter	106	11	23.785	0.366	384.0	0.9248	0.0000	OK
15 minute winter	107	11	23.413	0.322	402.2	0.6734	0.0000	OK
600 minute winter	108	585	22.771	0.802	49.1	2.4379	0.0000	SURCHARGED
600 minute winter	109	585	22.771	2.175	49.3	0.0000	0.0000	OK
600 minute winter	111	585	22.771	2.493	32.6	673.8822	0.0000	SURCHARGED
600 minute winter	112	585	22.771	2.342	8.9	11.9651	0.0000	SURCHARGED
600 minute winter	113	585	22.771	2.512	22.1	14.9364	0.0000	SURCHARGED
600 minute winter	114	585	22.771	2.539	13.4	11.5982	0.0000	SURCHARGED
600 minute winter	115	585	22.771	2.566	15.1	12.6658	0.0000	SURCHARGED
15 minute winter	116	10	23.477	0.114	42.8	0.2787	0.0000	OK
15 minute winter	117	10	23.178	0.294	53.7	0.5687	0.0000	SURCHARGED
600 minute winter	118	585	22.771	2.594	17.7	12.0025	0.0000	SURCHARGED
600 minute winter	119	585	22.771	2.619	16.4	12.0396	0.0000	SURCHARGED
15 minute winter	120	12	26.751	1.422	127.8	6.6229	0.0000	FLOOD RISK
240 minute winter	121	236	24.777	1.036	32.4	2.3028	0.0000	SURCHARGED
240 minute winter	122	236	24.777	2.900	158.8	308.8070	0.0000	SURCHARGED
240 minute winter	123	236	24.777	0.829	14.4	2.4706	0.0000	SURCHARGED
240 minute winter	124	236	24.777	2.794	28.8	13.8622	0.0000	SURCHARGED
240 minute winter	125	236	24.777	2.928	231.9	309.5346	0.0000	SURCHARGED
15 minute winter	126	12	25.640	1.441	68.9	4.4021	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	101	1.000	103	42.8	1.464	0.550	1.8928	
15 minute winter	102	2.000	103	140.7	1.999	1.134	5.5174	
15 minute winter	103	1.001	104	276.2	1.743	1.719	6.2091	
15 minute winter	104	1.002	105	335.4	2.117	2.088	1.6456	
15 minute winter	105	1.003	106	341.4	2.187	2.125	1.1998	
15 minute winter	106	1.004	107	383.5	2.959	0.697	1.4776	
15 minute winter	107	1.005	108	401.3	2.948	0.788	6.1921	
600 minute winter	108	1.006	109	49.1	1.961	0.100	2.2516	
600 minute winter	109	Tank	111	31.0	0.026	0.087		
600 minute winter	111	1.009	113	-9.2	0.296	-0.002	12.8867	
600 minute winter	112	3.000	113	-3.4	0.148	-0.001	119.7199	
600 minute winter	113	1.010	114	13.0	0.410	0.003	19.1717	
600 minute winter	114	1.011	115	11.2	0.352	0.003	18.8900	
600 minute winter	115	1.012	118	12.8	0.338	0.003	20.0325	
15 minute winter	116	4.000	117	42.5	1.243	0.516	0.5737	
15 minute winter	117	4.001	118	52.3	1.325	1.310	0.5284	
600 minute winter	118	1.013	119	15.6	0.367	0.004	17.6664	
600 minute winter	119	1.014	141	10.7	0.149	0.003	107.0655	
15 minute winter	120	5.000	121	103.0	2.590	1.217	2.2884	
240 minute winter	121	5.001	122	30.6	1.061	0.358	0.7460	
240 minute winter	122	5.002	125	-130.8	0.337	-0.088	9.8090	
240 minute winter	123	6.000	124	15.3	0.887	0.384	0.5993	
240 minute winter	124	6.001	125	41.7	0.294	0.028	46.3788	
240 minute winter	125	5.003	130	-216.3	0.409	-0.146	52.1912	
15 minute winter	126	7.000	127	57.9	1.456	1.097	1.2922	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 87.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	127	12	25.165	1.301	82.7	2.9759	0.0000	SURCHARGED
15 minute winter	128	11	24.854	1.080	148.5	3.3268	0.0000	SURCHARGED
240 minute winter	129	236	24.777	2.954	39.6	14.0849	0.0000	SURCHARGED
240 minute winter	130	236	24.777	3.079	212.1	16.8179	0.0000	SURCHARGED
240 minute winter	131	236	24.777	1.791	10.1	4.7863	0.0000	FLOOD RISK
240 minute winter	132	236	24.777	1.879	22.7	5.1041	0.0000	FLOOD RISK
30 minute winter	133	21	24.777	0.877	69.1	3.0050	0.0000	SURCHARGED
240 minute winter	134	236	24.777	2.893	55.7	13.9548	0.0000	SURCHARGED
240 minute winter	135	236	24.777	2.911	26.2	14.9849	0.0000	SURCHARGED
240 minute winter	136	236	24.777	3.055	114.4	17.8340	0.0000	SURCHARGED
240 minute winter	137	236	24.777	3.092	131.2	15.1376	0.0000	SURCHARGED
240 minute winter	138	236	24.777	3.217	150.9	16.3515	0.0000	SURCHARGED
240 minute winter	139	236	24.777	3.254	170.7	17.4345	0.0000	SURCHARGED
600 minute winter	140	585	22.771	2.657	27.5	12.6393	0.0000	SURCHARGED
600 minute winter	141	585	22.771	2.771	44.5	19.0367	0.0000	SURCHARGED
2160 minute winter	142	2340	19.550	0.090	34.9	0.3110	0.0000	OK
120 minute winter	143	100	24.870	3.160	13.5	11.5340	0.0000	SURCHARGED
120 minute winter	144	88	24.869	3.191	19.2	12.9714	4.0382	FLOOD
120 minute winter	145	92	24.870	3.219	31.4	16.1635	0.0000	SURCHARGED
120 minute winter	146	92	24.871	3.272	14.8	11.3341	0.0000	FLOOD RISK
60 minute winter	147	46	18.311	0.105	41.5	0.1849	0.0000	OK
60 minute winter	148	46	17.982	0.100	41.5	0.1774	0.0000	OK
60 minute winter	149	46	17.193	0.099	41.5	0.1745	0.0000	OK
60 minute winter	150	47	15.531	0.097	41.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	127	7.001	128	82.3	2.070	1.494	0.3192	
15 minute winter	128	7.002	129	144.9	3.643	2.787	0.2973	
240 minute winter	129	7.003	130	42.1	0.325	0.028	43.1896	
240 minute winter	130	5.004	139	-144.6	0.290	-0.097	60.3457	
240 minute winter	131	8.000	132	11.3	0.586	0.285	0.5943	
240 minute winter	132	8.001	134	24.0	0.983	0.603	1.2784	
30 minute winter	133	9.000	134	69.1	3.024	0.571	0.8837	
240 minute winter	134	8.002	136	60.9	0.352	0.041	56.3742	
240 minute winter	135	10.000	136	25.3	0.137	0.017	49.5757	
240 minute winter	136	8.003	137	122.7	0.511	0.083	12.8188	
240 minute winter	137	8.004	138	136.0	0.363	0.091	43.0352	
240 minute winter	138	8.005	139	148.6	0.204	0.100	12.8800	
240 minute winter	139	Hydro-Brake®	140	25.3				
600 minute winter	140	5.006	141	26.4	0.238	0.007	80.7058	
600 minute winter	141	Hydro-Brake®	142	34.9				
2160 minute winter	142	1.016	147	34.9	1.656	0.127	1.4727	
120 minute winter	143	11.000	145	-6.3	0.118	-0.006	15.0249	
120 minute winter	144	12.000	145	13.6	0.269	0.014	6.8124	
120 minute winter	145	11.001	146	14.8	0.401	0.015	13.1686	
120 minute winter	146	Hydro-Brake®	147	7.4				
60 minute winter	147	1.017	148	41.5	1.704	0.153	0.4295	
60 minute winter	148	1.018	149	41.5	1.776	0.152	0.9859	
60 minute winter	149	1.019	150	41.5	1.816	0.151	2.0094	680.5