

Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.036	5.00	49.774	1350	505886.038	119373.294	1.525
24	0.052	5.00	49.587	1350	505844.920	119380.442	1.325
2	0.006	5.00	48.687	1350	505870.436	119376.667	1.587
25	0.020	5.00	47.850	1350	505875.099	119318.933	1.575
3	0.088	5.00	47.718	1350	505855.155	119325.079	1.743
26	0.017	5.00	47.466	1350	505763.582	119368.861	1.425
27	0.039	5.00	46.423	1350	505764.497	119345.180	1.698
28	0.049	5.00	46.382	1350	505778.097	119339.029	1.932
30	0.056	5.00	47.789	1350	505816.148	119355.399	1.589
29	0.042	5.00	47.199	1350	505815.146	119336.783	2.999
4	0.061	5.00	47.352	1350	505827.021	119332.912	3.352
5	0.093	5.00	46.278	1350	505822.726	119315.479	2.678
31	0.042	5.00	45.364	1350	505847.228	119283.170	1.361
6	0.046	5.00	44.454	1350	505816.686	119287.199	2.704
7	0.038	5.00	44.004	1350	505810.459	119282.801	2.304
8	0.070	5.00	43.121	1350	505773.872	119286.298	2.484
9	0.022	5.00	41.542	1350	505757.570	119270.538	1.590
10	0.053	5.00	41.276	1350	505736.217	119280.411	2.204
11	0.089	5.00	41.046	1350	505714.819	119286.929	2.424
12	0.029	5.00	39.598	1350	505702.517	119252.248	2.687
13	0.083	5.00	38.449	1500	505694.383	119225.207	2.423
50	0.075	5.00	37.809	1350	505729.877	119207.048	2.159
51	0.068	5.00	37.804	1350	505715.426	119212.491	2.229
14	0.010	5.00	38.093	1500	505700.000	119217.854	2.821
15	0.013	5.00	36.835	1500	505682.404	119208.746	1.650
16	0.000	5.00	35.700	1500	505672.875	119195.120	1.200
17	0.000	5.00	35.700	1500	505671.119	119190.998	1.500
18	0.000	5.00	35.700	1350	505664.303	119195.056	1.702
19	0.000	5.00	34.900	1350	505646.540	119203.986	1.300
32	0.048	5.00	46.286	1350	505748.391	119367.450	1.725
43	0.026	5.00	44.553	1350	505748.964	119328.755	1.525
33	0.013	5.00	44.962	1350	505748.754	119341.612	2.010
44	0.037	5.00	44.678	1350	505695.395	119358.976	1.525
45	0.021	5.00	44.013	1350	505695.799	119343.956	1.525
34	0.059	5.00	44.213	1350	505699.817	119339.813	1.938
35	0.064	5.00	43.681	1350	505693.764	119332.101	2.081
36	0.077	5.00	41.217	1350	505686.644	119294.375	1.591
46	0.052	5.00	46.388	1350	505667.004	119394.116	1.526
47	0.043	5.00	44.713	1350	505666.947	119368.176	1.713
48	0.085	5.00	42.815	1500	505663.423	119332.540	2.815
49	0.045	5.00	41.403	1350	505659.717	119299.067	1.761
37	0.005	5.00	41.348	1500	505667.569	119297.837	2.103

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
38	0.044	5.00	39.596	1500	505662.559	119259.433	2.196
39	0.007	5.00	36.561	1500	505653.159	119231.388	2.117
52	0.107	5.00	41.280	1350	505623.101	119303.234	1.937
53	0.024	5.00	41.080	1350	505609.510	119304.394	2.062
54	0.090	5.00	39.323	1350	505605.884	119267.762	3.099
55	0.016	5.00	39.841	1350	505549.977	119286.707	1.841
56	0.065	5.00	38.827	1350	505548.695	119261.442	2.223
57	0.000	5.00	37.772	1350	505547.535	119246.188	1.825
58	0.050	5.00	37.200	1350	505582.297	119238.823	2.175
40	0.118	5.00	37.772	1500	505602.996	119235.993	3.672
41	0.000	5.00	36.600	1500	505601.082	119229.870	3.100
42	0.000	5.00	34.800	1500	505599.686	119218.074	1.500
20	0.000		34.800	1500	505598.895	119212.371	1.650
21	0.000	5.00	34.800	1500	505585.207	119211.594	1.672
22	0.000		34.775	1500	505579.045	119205.905	1.665
23	0.000		34.600	1500	505577.244	119198.521	1.500

Links

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	1	2	17.451	0.600	48.249	47.100	1.149	15.2	225	5.09	50.0
2.000	24	2	24.384	0.600	48.262	47.100	1.162	21.0	225	5.14	50.0
1.001	2	3	54.380	0.600	47.100	46.050	1.050	51.8	225	5.64	50.0
3.000	25	3	21.543	0.600	46.275	46.050	0.225	95.7	225	5.27	50.0
1.002	3	4	28.532	0.600	45.975	44.075	1.900	15.0	300	5.76	50.0
4.000	26	27	22.043	0.600	46.041	44.800	1.241	17.8	225	5.12	50.0
4.001	27	28	7.962	0.600	44.725	44.450	0.275	29.0	300	5.16	50.0
4.002	28	29	46.200	0.600	44.450	44.200	0.250	184.8	300	5.83	50.0
5.000	30	29	18.643	0.600	46.200	44.275	1.925	9.7	225	5.07	50.0
4.003	29	4	12.490	0.600	44.200	44.075	0.125	99.9	300	5.96	50.0
1.003	4	5	17.954	0.600	44.000	43.600	0.400	44.9	375	6.07	50.0
1.004	5	6	28.918	0.600	43.600	41.825	1.775	16.3	375	6.18	50.0
6.000	31	6	30.807	0.600	44.003	41.975	2.028	15.2	225	5.15	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	3.374	134.2	6.5	1.300	1.362	0.036	0.0	34	1.772
2.000	2.869	114.1	9.4	1.100	1.362	0.052	0.0	44	1.752
1.001	1.821	72.4	17.0	1.362	1.443	0.094	0.0	74	1.498
3.000	1.336	53.1	3.6	1.350	1.443	0.020	0.0	40	0.773
1.002	4.077	288.2	36.5	1.443	2.977	0.202	0.0	72	2.827
4.000	3.119	124.0	3.1	1.200	1.398	0.017	0.0	24	1.326
4.001	2.932	207.3	10.1	1.398	1.632	0.056	0.0	45	1.542
4.002	1.153	81.5	19.0	1.632	2.699	0.105	0.0	98	0.945
5.000	4.229	168.1	10.1	1.364	2.699	0.056	0.0	37	2.360
4.003	1.573	111.2	36.7	2.699	2.977	0.203	0.0	118	1.414
1.003	2.710	299.3	84.2	2.977	2.303	0.466	0.0	136	2.343
1.004	4.507	497.8	101.0	2.303	2.254	0.559	0.0	114	3.564
6.000	3.374	134.1	7.6	1.136	2.254	0.042	0.0	36	1.855

Links

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)
1.005	6	7	7.624	0.600	41.750	41.700	0.050	152.5	450	6.26	50.0
1.006	7	8	36.754	0.600	41.700	40.637	1.063	34.6	450	6.43	49.8
1.007	8	9	22.674	0.600	40.637	40.037	0.600	37.8	450	6.55	49.3
1.008	9	10	23.525	0.600	39.952	39.072	0.880	26.7	525	6.64	49.0
1.009	10	11	22.369	0.600	39.072	38.622	0.450	49.7	525	6.76	48.5
1.010	11	12	36.798	0.600	38.622	36.911	1.711	21.5	525	6.88	48.0
1.011	12	13	28.238	0.600	36.911	36.026	0.885	31.9	525	7.00	47.6
1.012	13	14	9.253	0.600	36.026	35.272	0.754	12.3	525	7.03	47.4
11.000	50	51	15.442	0.600	35.650	35.575	0.075	205.9	300	5.24	50.0
11.001	51	14	16.332	0.600	35.575	35.497	0.078	209.4	300	5.49	50.0
1.013	14	15	19.814	0.600	35.272	35.185	0.087	227.7	525	7.25	46.6
1.014	15	16	16.627	0.600	35.185	34.500	0.685	24.3	525	7.31	46.5
1.015	16	17	4.480	0.600	34.500	34.200	0.300	14.9	525	7.32	46.2
1.016	17	18	16.633	0.600	34.200	33.998	0.202	82.3	525	7.43	45.5
1.017	18	19	11.175	0.600	33.998	33.600	0.398	28.1	525	7.48	45.4
1.018	19	20	48.377	0.600	33.600	33.150	0.450	107.5	525	7.85	43.3
7.000	32	33	25.841	0.600	44.561	42.952	1.609	16.1	225	5.13	50.0
8.000	43	33	12.859	0.600	43.028	42.952	0.076	169.2	225	5.21	50.0
7.001	33	34	48.970	0.600	42.952	42.350	0.602	81.3	225	5.78	50.0
9.000	44	45	15.025	0.600	43.153	42.488	0.665	22.6	225	5.09	50.0
9.001	45	34	5.771	0.600	42.488	42.350	0.138	41.8	225	5.14	50.0
7.002	34	35	9.804	0.600	42.275	41.600	0.675	14.5	300	5.82	50.0
7.003	35	36	38.392	0.600	41.600	39.626	1.974	19.4	300	5.99	50.0
7.004	36	37	19.387	0.600	39.626	39.395	0.231	83.9	300	6.18	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.005	1.644	261.4	116.9	2.254	1.854	0.647	0.0	210	1.599
1.006	3.466	551.2	123.3	1.854	2.034	0.685	0.0	144	2.815
1.007	3.315	527.2	134.5	2.034	1.055	0.755	0.0	154	2.791
1.008	4.344	940.3	137.6	1.065	1.679	0.777	0.0	135	3.146
1.009	3.182	688.8	145.5	1.679	1.899	0.830	0.0	163	2.548
1.010	4.844	1048.7	159.4	1.899	2.162	0.919	0.0	137	3.545
1.011	3.975	860.5	163.1	2.162	1.898	0.948	0.0	154	3.088
1.012	6.417	1389.2	176.6	1.898	2.296	1.031	0.0	125	4.462
11.000	1.092	77.2	13.6	1.859	1.929	0.075	0.0	85	0.827
11.001	1.082	76.5	25.8	1.929	2.296	0.143	0.0	120	0.980
1.013	1.480	320.3	199.4	2.296	1.125	1.184	0.0	301	1.557
1.014	4.559	987.0	201.2	1.125	0.675	1.197	0.0	160	3.616
1.015	5.816	1259.1	199.9	0.675	0.975	1.197	0.0	140	4.308
1.016	2.469	534.6	196.8	0.975	1.177	1.197	0.0	220	2.288
1.017	4.238	917.4	196.4	1.177	0.775	1.197	0.0	164	3.405
1.018	2.160	467.5	187.3	0.775	1.125	1.197	0.0	230	2.044
7.000	3.281	130.5	8.7	1.500	1.785	0.048	0.0	39	1.881
8.000	1.002	39.8	4.7	1.300	1.785	0.026	0.0	52	0.678
7.001	1.451	57.7	15.7	1.785	1.638	0.087	0.0	80	1.242
9.000	2.764	109.9	6.7	1.300	1.300	0.037	0.0	37	1.540
9.001	2.028	80.6	10.5	1.300	1.638	0.058	0.0	55	1.416
7.002	4.146	293.0	36.9	1.638	1.781	0.204	0.0	71	2.861
7.003	3.581	253.1	48.4	1.781	1.291	0.268	0.0	88	2.778
7.004	1.717	121.4	62.3	1.291	1.653	0.345	0.0	153	1.729

Links

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)
10.000	46	47	25.940	0.600	44.862	43.000	1.862	13.9	225	5.12	50.0
10.001	47	48	35.810	0.600	43.000	40.000	3.000	11.9	225	5.28	50.0
10.002	48	49	33.678	0.600	40.000	39.642	0.358	94.1	225	5.70	50.0
10.003	49	37	7.948	0.600	39.642	39.470	0.172	46.2	225	5.76	50.0
7.005	37	38	38.729	0.600	39.245	37.400	1.845	21.0	450	6.33	50.0
7.006	38	39	30.245	0.600	37.400	34.444	2.956	10.2	450	6.41	50.0
7.007	39	40	47.859	0.600	34.444	34.175	0.269	177.9	450	6.93	47.6
12.000	52	53	13.640	0.600	39.343	39.018	0.325	42.0	225	5.11	50.0
12.001	53	54	36.811	0.600	39.018	36.224	2.794	13.2	225	5.28	50.0
12.002	54	40	31.900	0.600	36.224	34.400	1.824	17.5	225	5.45	50.0
13.000	55	56	25.298	0.600	38.000	36.604	1.396	18.1	225	5.14	50.0
13.001	56	57	15.298	0.600	36.604	35.947	0.657	23.3	225	5.23	50.0
13.002	57	58	35.534	0.600	35.947	35.025	0.922	38.5	225	5.51	50.0
13.003	58	40	20.892	0.600	35.025	34.400	0.625	33.4	225	5.66	50.0
7.008	40	41	6.415	0.600	34.100	33.500	0.600	10.7	525	6.95	47.3
7.009	41	42	11.878	0.600	33.500	33.300	0.200	59.4	525	7.01	47.2
7.010	42	20	5.758	0.600	33.300	33.150	0.150	38.4	525	7.04	46.9
1.019	20	21	13.710	0.600	33.150	33.128	0.022	623.2	750	8.06	42.7
1.020	21	22	11.157	0.600	33.128	33.110	0.018	619.8	750	8.22	42.3
1.021	22	23	4.516	0.600	33.110	33.100	0.010	451.6	675	8.28	42.3

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
10.000	3.524	140.1	9.4	1.301	1.488	0.052	0.0	39	2.020
10.001	3.808	151.4	17.2	1.488	2.590	0.095	0.0	51	2.538
10.002	1.348	53.6	32.5	2.590	1.536	0.180	0.0	127	1.412
10.003	1.929	76.7	40.7	1.536	1.653	0.225	0.0	116	1.956
7.005	4.452	708.1	103.9	1.653	1.746	0.575	0.0	116	3.223
7.006	6.383	1015.1	111.9	1.746	1.667	0.619	0.0	100	4.262
7.007	1.521	241.9	107.7	1.667	3.147	0.626	0.0	210	1.479
12.000	2.025	80.5	19.3	1.712	1.837	0.107	0.0	75	1.675
12.001	3.624	144.1	23.7	1.837	2.874	0.131	0.0	61	2.687
12.002	3.144	125.0	39.9	2.874	3.147	0.221	0.0	87	2.808
13.000	3.088	122.8	2.9	1.616	1.998	0.016	0.0	23	1.282
13.001	2.723	108.3	14.6	1.998	1.600	0.081	0.0	56	1.919
13.002	2.113	84.0	14.6	1.600	1.950	0.081	0.0	63	1.590
13.003	2.270	90.3	23.7	1.950	3.147	0.131	0.0	79	1.923
7.008	6.876	1488.5	187.4	3.147	2.575	1.096	0.0	124	4.771
7.009	2.910	629.9	187.0	2.575	0.975	1.096	0.0	195	2.550
7.010	3.623	784.2	185.8	0.975	1.125	1.096	0.0	173	2.993
1.019	1.113	491.9	353.9	0.900	0.922	2.293	0.0	473	1.206
1.020	1.116	493.2	350.5	0.922	0.915	2.293	0.0	469	1.207
1.021	1.226	438.9	350.5	0.990	0.825	2.293	0.0	458	1.355

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	17.451	15.2	225	Circular_Default Sewer Type	49.774	48.249	1.300	48.687	47.100	1.362
2.000	24.384	21.0	225	Circular_Default Sewer Type	49.587	48.262	1.100	48.687	47.100	1.362
1.001	54.380	51.8	225	Circular_Default Sewer Type	48.687	47.100	1.362	47.718	46.050	1.443
3.000	21.543	95.7	225	Circular_Default Sewer Type	47.850	46.275	1.350	47.718	46.050	1.443
1.002	28.532	15.0	300	Circular_Default Sewer Type	47.718	45.975	1.443	47.352	44.075	2.977
4.000	22.043	17.8	225	Circular_Default Sewer Type	47.466	46.041	1.200	46.423	44.800	1.398
4.001	7.962	29.0	300	Circular_Default Sewer Type	46.423	44.725	1.398	46.382	44.450	1.632
4.002	46.200	184.8	300	Circular_Default Sewer Type	46.382	44.450	1.632	47.199	44.200	2.699
5.000	18.643	9.7	225	Circular_Default Sewer Type	47.789	46.200	1.364	47.199	44.275	2.699
4.003	12.490	99.9	300	Circular_Default Sewer Type	47.199	44.200	2.699	47.352	44.075	2.977
1.003	17.954	44.9	375	Circular_Default Sewer Type	47.352	44.000	2.977	46.278	43.600	2.303
1.004	28.918	16.3	375	Circular_Default Sewer Type	46.278	43.600	2.303	44.454	41.825	2.254
6.000	30.807	15.2	225	Circular_Default Sewer Type	45.364	44.003	1.136	44.454	41.975	2.254
1.005	7.624	152.5	450	Circular_Default Sewer Type	44.454	41.750	2.254	44.004	41.700	1.854
1.006	36.754	34.6	450	Circular_Default Sewer Type	44.004	41.700	1.854	43.121	40.637	2.034
1.007	22.674	37.8	450	Circular_Default Sewer Type	43.121	40.637	2.034	41.542	40.037	1.055
1.008	23.525	26.7	525	Circular_Default Sewer Type	41.542	39.952	1.065	41.276	39.072	1.679
1.009	22.369	49.7	525	Circular_Default Sewer Type	41.276	39.072	1.679	41.046	38.622	1.899
1.010	36.798	21.5	525	Circular_Default Sewer Type	41.046	38.622	1.899	39.598	36.911	2.162
1.011	28.238	31.9	525	Circular_Default Sewer Type	39.598	36.911	2.162	38.449	36.026	1.898
1.012	9.253	12.3	525	Circular_Default Sewer Type	38.449	36.026	1.898	38.093	35.272	2.296
11.000	15.442	205.9	300	Circular_Default Sewer Type	37.809	35.650	1.859	37.804	35.575	1.929
11.001	16.332	209.4	300	Circular_Default Sewer Type	37.804	35.575	1.929	38.093	35.497	2.296
1.013	19.814	227.7	525	Circular_Default Sewer Type	38.093	35.272	2.296	36.835	35.185	1.125
1.014	16.627	24.3	525	Circular_Default Sewer Type	36.835	35.185	1.125	35.700	34.500	0.675

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1350	Manhole	Adoptable	2	1350	Manhole	Adoptable
2.000	24	1350	Manhole	Adoptable	2	1350	Manhole	Adoptable
1.001	2	1350	Manhole	Adoptable	3	1350	Manhole	Adoptable
3.000	25	1350	Manhole	Adoptable	3	1350	Manhole	Adoptable
1.002	3	1350	Manhole	Adoptable	4	1350	Manhole	Adoptable
4.000	26	1350	Manhole	Adoptable	27	1350	Manhole	Adoptable
4.001	27	1350	Manhole	Adoptable	28	1350	Manhole	Adoptable
4.002	28	1350	Manhole	Adoptable	29	1350	Manhole	Adoptable
5.000	30	1350	Manhole	Adoptable	29	1350	Manhole	Adoptable
4.003	29	1350	Manhole	Adoptable	4	1350	Manhole	Adoptable
1.003	4	1350	Manhole	Adoptable	5	1350	Manhole	Adoptable
1.004	5	1350	Manhole	Adoptable	6	1350	Manhole	Adoptable
6.000	31	1350	Manhole	Adoptable	6	1350	Manhole	Adoptable
1.005	6	1350	Manhole	Adoptable	7	1350	Manhole	Adoptable
1.006	7	1350	Manhole	Adoptable	8	1350	Manhole	Adoptable
1.007	8	1350	Manhole	Adoptable	9	1350	Manhole	Adoptable
1.008	9	1350	Manhole	Adoptable	10	1350	Manhole	Adoptable
1.009	10	1350	Manhole	Adoptable	11	1350	Manhole	Adoptable
1.010	11	1350	Manhole	Adoptable	12	1350	Manhole	Adoptable
1.011	12	1350	Manhole	Adoptable	13	1500	Manhole	Adoptable
1.012	13	1500	Manhole	Adoptable	14	1500	Manhole	Adoptable
11.000	50	1350	Manhole	Adoptable	51	1350	Manhole	Adoptable
11.001	51	1350	Manhole	Adoptable	14	1500	Manhole	Adoptable
1.013	14	1500	Manhole	Adoptable	15	1500	Manhole	Adoptable
1.014	15	1500	Manhole	Adoptable	16	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)
1.015	4.480	14.9	525	Circular_Default Sewer Type	35.700	34.500	0.675	35.700	34.200	0.975
1.016	16.633	82.3	525	Circular_Default Sewer Type	35.700	34.200	0.975	35.700	33.998	1.177
1.017	11.175	28.1	525	Circular_Default Sewer Type	35.700	33.998	1.177	34.900	33.600	0.775
1.018	48.377	107.5	525	Circular_Default Sewer Type	34.900	33.600	0.775	34.800	33.150	1.125
7.000	25.841	16.1	225	Circular_Default Sewer Type	46.286	44.561	1.500	44.962	42.952	1.785
8.000	12.859	169.2	225	Circular_Default Sewer Type	44.553	43.028	1.300	44.962	42.952	1.785
7.001	48.970	81.3	225	Circular_Default Sewer Type	44.962	42.952	1.785	44.213	42.350	1.638
9.000	15.025	22.6	225	Circular_Default Sewer Type	44.678	43.153	1.300	44.013	42.488	1.300
9.001	5.771	41.8	225	Circular_Default Sewer Type	44.013	42.488	1.300	44.213	42.350	1.638
7.002	9.804	14.5	300	Circular_Default Sewer Type	44.213	42.275	1.638	43.681	41.600	1.781
7.003	38.392	19.4	300	Circular_Default Sewer Type	43.681	41.600	1.781	41.217	39.626	1.291
7.004	19.387	83.9	300	Circular_Default Sewer Type	41.217	39.626	1.291	41.348	39.395	1.653
10.000	25.940	13.9	225	Circular_Default Sewer Type	46.388	44.862	1.301	44.713	43.000	1.488
10.001	35.810	11.9	225	Circular_Default Sewer Type	44.713	43.000	1.488	42.815	40.000	2.590
10.002	33.678	94.1	225	Circular_Default Sewer Type	42.815	40.000	2.590	41.403	39.642	1.536
10.003	7.948	46.2	225	Circular_Default Sewer Type	41.403	39.642	1.536	41.348	39.470	1.653
7.005	38.729	21.0	450	Circular_Default Sewer Type	41.348	39.245	1.653	39.596	37.400	1.746
7.006	30.245	10.2	450	Circular_Default Sewer Type	39.596	37.400	1.746	36.561	34.444	1.667
7.007	47.859	177.9	450	Circular_Default Sewer Type	36.561	34.444	1.667	37.772	34.175	3.147
12.000	13.640	42.0	225	Circular_Default Sewer Type	41.280	39.343	1.712	41.080	39.018	1.837
12.001	36.811	13.2	225	Circular_Default Sewer Type	41.080	39.018	1.837	39.323	36.224	2.874
12.002	31.900	17.5	225	Circular_Default Sewer Type	39.323	36.224	2.874	37.772	34.400	3.147
13.000	25.298	18.1	225	Circular_Default Sewer Type	39.841	38.000	1.616	38.827	36.604	1.998
13.001	15.298	23.3	225	Circular_Default Sewer Type	38.827	36.604	1.998	37.772	35.947	1.600
13.002	35.534	38.5	225	Circular_Default Sewer Type	37.772	35.947	1.600	37.200	35.025	1.950

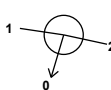
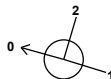
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.015	16	1500	Manhole	Adoptable	17	1500	Manhole	Adoptable
1.016	17	1500	Manhole	Adoptable	18	1350	Manhole	Adoptable
1.017	18	1350	Manhole	Adoptable	19	1350	Manhole	Adoptable
1.018	19	1350	Manhole	Adoptable	20	1500	Manhole	Adoptable
7.000	32	1350	Manhole	Adoptable	33	1350	Manhole	Adoptable
8.000	43	1350	Manhole	Adoptable	33	1350	Manhole	Adoptable
7.001	33	1350	Manhole	Adoptable	34	1350	Manhole	Adoptable
9.000	44	1350	Manhole	Adoptable	45	1350	Manhole	Adoptable
9.001	45	1350	Manhole	Adoptable	34	1350	Manhole	Adoptable
7.002	34	1350	Manhole	Adoptable	35	1350	Manhole	Adoptable
7.003	35	1350	Manhole	Adoptable	36	1350	Manhole	Adoptable
7.004	36	1350	Manhole	Adoptable	37	1500	Manhole	Adoptable
10.000	46	1350	Manhole	Adoptable	47	1350	Manhole	Adoptable
10.001	47	1350	Manhole	Adoptable	48	1500	Manhole	Adoptable
10.002	48	1500	Manhole	Adoptable	49	1350	Manhole	Adoptable
10.003	49	1350	Manhole	Adoptable	37	1500	Manhole	Adoptable
7.005	37	1500	Manhole	Adoptable	38	1500	Manhole	Adoptable
7.006	38	1500	Manhole	Adoptable	39	1500	Manhole	Adoptable
7.007	39	1500	Manhole	Adoptable	40	1500	Manhole	Adoptable
12.000	52	1350	Manhole	Adoptable	53	1350	Manhole	Adoptable
12.001	53	1350	Manhole	Adoptable	54	1350	Manhole	Adoptable
12.002	54	1350	Manhole	Adoptable	40	1500	Manhole	Adoptable
13.000	55	1350	Manhole	Adoptable	56	1350	Manhole	Adoptable
13.001	56	1350	Manhole	Adoptable	57	1350	Manhole	Adoptable
13.002	57	1350	Manhole	Adoptable	58	1350	Manhole	Adoptable

Pipeline Schedule

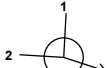
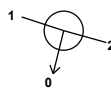
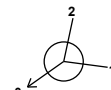
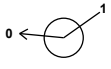
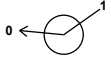
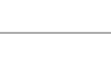
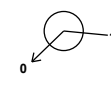
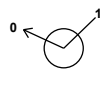
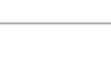
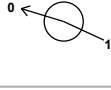
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
13.003	20.892	33.4	225	Circular_Default Sewer Type	37.200	35.025	1.950	37.772	34.400	3.147
7.008	6.415	10.7	525	Circular_Default Sewer Type	37.772	34.100	3.147	36.600	33.500	2.575
7.009	11.878	59.4	525	Circular_Default Sewer Type	36.600	33.500	2.575	34.800	33.300	0.975
7.010	5.758	38.4	525	Circular_Default Sewer Type	34.800	33.300	0.975	34.800	33.150	1.125
1.019	13.710	623.2	750	Circular_Default Sewer Type	34.800	33.150	0.900	34.800	33.128	0.922
1.020	11.157	619.8	750	Circular_Default Sewer Type	34.800	33.128	0.922	34.775	33.110	0.915
1.021	4.516	451.6	675	Circular_Default Sewer Type	34.775	33.110	0.990	34.600	33.100	0.825

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
13.003	58	1350	Manhole	Adoptable	40	1500	Manhole	Adoptable
7.008	40	1500	Manhole	Adoptable	41	1500	Manhole	Adoptable
7.009	41	1500	Manhole	Adoptable	42	1500	Manhole	Adoptable
7.010	42	1500	Manhole	Adoptable	20	1500	Manhole	Adoptable
1.019	20	1500	Manhole	Adoptable	21	1500	Manhole	Adoptable
1.020	21	1500	Manhole	Adoptable	22	1500	Manhole	Adoptable
1.021	22	1500	Manhole	Adoptable	23	1500	Manhole	Adoptable

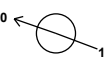
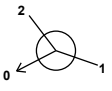
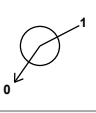
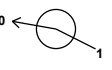
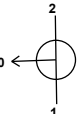
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	505886.038	119373.294	49.774	1.525	1350					
						0	1.000	48.249	225	
24	505844.920	119380.442	49.587	1.325	1350					
						0	2.000	48.262	225	
2	505870.436	119376.667	48.687	1.587	1350		1 2	2.000 47.100 47.100	225 225	
						0	1.001	47.100	225	
25	505875.099	119318.933	47.850	1.575	1350					
						0	3.000	46.275	225	
3	505855.155	119325.079	47.718	1.743	1350		1 2	3.000 46.050 46.050	225 225	
						0	1.002	45.975	300	
26	505763.582	119368.861	47.466	1.425	1350					
						0	4.000	46.041	225	
27	505764.497	119345.180	46.423	1.698	1350		1	4.000	44.800	225
						0	4.001	44.725	300	

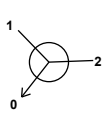
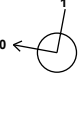
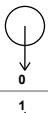
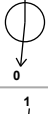
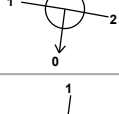
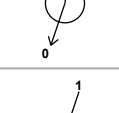
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
28	505778.097	119339.029	46.382	1.932	1350		1	4.001	44.450	300
							0	4.002	44.450	300
30	505816.148	119355.399	47.789	1.589	1350		0	5.000	46.200	225
29	505815.146	119336.783	47.199	2.999	1350		1	5.000	44.275	225
							2	4.002	44.200	300
							0	4.003	44.200	300
4	505827.021	119332.912	47.352	3.352	1350		1	4.003	44.075	300
							2	1.002	44.075	300
							0	1.003	44.000	375
5	505822.726	119315.479	46.278	2.678	1350		1	1.003	43.600	375
							0	1.004	43.600	375
31	505847.228	119283.170	45.364	1.361	1350		0	6.000	44.003	225
6	505816.686	119287.199	44.454	2.704	1350		1	6.000	41.975	225
							2	1.004	41.825	375
							0	1.005	41.750	450
7	505810.459	119282.801	44.004	2.304	1350		1	1.005	41.700	450
							0	1.006	41.700	450
8	505773.872	119286.298	43.121	2.484	1350		1	1.006	40.637	450
							0	1.007	40.637	450
9	505757.570	119270.538	41.542	1.590	1350		1	1.007	40.037	450
							0	1.008	39.952	525
10	505736.217	119280.411	41.276	2.204	1350		1	1.008	39.072	525
							0	1.009	39.072	525
11	505714.819	119286.929	41.046	2.424	1350		1	1.009	38.622	525
							0	1.010	38.622	525
12	505702.517	119252.248	39.598	2.687	1350		1	1.010	36.911	525
							0	1.011	36.911	525

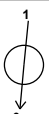
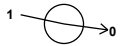
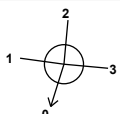
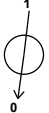
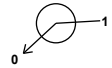
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
13	505694.383	119225.207	38.449	2.423	1500		1 1.011	36.026	525
							0 1.012	36.026	525
50	505729.877	119207.048	37.809	2.159	1350				
							0 11.000	35.650	300
51	505715.426	119212.491	37.804	2.229	1350		1 11.000	35.575	300
							0 11.001	35.575	300
14	505700.000	119217.854	38.093	2.821	1500		1 11.001	35.497	300
							2 1.012	35.272	525
							0 1.013	35.272	525
15	505682.404	119208.746	36.835	1.650	1500		1 1.013	35.185	525
							0 1.014	35.185	525
16	505672.875	119195.120	35.700	1.200	1500		1 1.014	34.500	525
							0 1.015	34.500	525
17	505671.119	119190.998	35.700	1.500	1500		1 1.015	34.200	525
							0 1.016	34.200	525
18	505664.303	119195.056	35.700	1.702	1350		1 1.016	33.998	525
							0 1.017	33.998	525
19	505646.540	119203.986	34.900	1.300	1350		1 1.017	33.600	525
							0 1.018	33.600	525
32	505748.391	119367.450	46.286	1.725	1350				
							0 7.000	44.561	225
43	505748.964	119328.755	44.553	1.525	1350				
							0 8.000	43.028	225
33	505748.754	119341.612	44.962	2.010	1350		1 8.000	42.952	225
							2 7.000	42.952	225
							0 7.001	42.952	225
44	505695.395	119358.976	44.678	1.525	1350				
							0 9.000	43.153	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
45	505695.799	119343.956	44.013	1.525	1350		1	9.000	42.488	225
34	505699.817	119339.813	44.213	1.938	1350		0	9.001	42.488	225
							1	9.001	42.350	225
							2	7.001	42.350	225
35	505693.764	119332.101	43.681	2.081	1350		0	7.002	42.275	300
							1	7.002	41.600	300
36	505686.644	119294.375	41.217	1.591	1350		0	7.003	41.600	300
							1	7.003	39.626	300
46	505667.004	119394.116	46.388	1.526	1350		0	7.004	39.626	300
47	505666.947	119368.176	44.713	1.713	1350		0	10.000	44.862	225
48	505663.423	119332.540	42.815	2.815	1500		1	10.000	43.000	225
							0	10.001	43.000	225
49	505659.717	119299.067	41.403	1.761	1350		1	10.001	40.000	225
							0	10.002	40.000	225
37	505667.569	119297.837	41.348	2.103	1500		1	10.002	39.642	225
							0	10.003	39.642	225
							1	10.003	39.470	225
38	505662.559	119259.433	39.596	2.196	1500		2	7.004	39.395	300
							0	7.005	39.245	450
39	505653.159	119231.388	36.561	2.117	1500		1	7.005	37.400	450
							0	7.006	37.400	450
52	505623.101	119303.234	41.280	1.937	1350		0	7.006	34.444	450
							0	7.007	34.444	450
53	505609.510	119304.394	41.080	2.062	1350		1	12.000	39.343	225
							0	12.000	39.018	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
54	505605.884	119267.762	39.323	3.099	1350		1 12.001	36.224	225
						0 12.002		36.224	225
55	505549.977	119286.707	39.841	1.841	1350		0 13.000	38.000	225
56	505548.695	119261.442	38.827	2.223	1350		1 13.000	36.604	225
						0 13.001		36.604	225
57	505547.535	119246.188	37.772	1.825	1350		1 13.001	35.947	225
						0 13.002		35.947	225
58	505582.297	119238.823	37.200	2.175	1350		1 13.002	35.025	225
						0 13.003		35.025	225
40	505602.996	119235.993	37.772	3.672	1500		1 13.003	34.400	225
						2 12.002		34.400	225
						3 7.007		34.175	450
						0 7.008		34.100	525
41	505601.082	119229.870	36.600	3.100	1500		1 7.008	33.500	525
						0 7.009		33.500	525
42	505599.686	119218.074	34.800	1.500	1500		1 7.009	33.300	525
						0 7.010		33.300	525
20	505598.895	119212.371	34.800	1.650	1500		1 7.010	33.150	525
						2 1.018		33.150	525
						0 1.019		33.150	750
21	505585.207	119211.594	34.800	1.672	1500		1 1.019	33.128	750
						0 1.020		33.128	750
22	505579.045	119205.905	34.775	1.665	1500		1 1.020	33.110	750
						0 1.021		33.110	675
23	505577.244	119198.521	34.600	1.500	1500		1 1.021	33.100	675

Simulation Settings

Rainfall Methodology	FEH-13	Skip Steady State	✓	2 year (l/s)	6.1
Rainfall Events	Singular	Drain Down Time (mins)	240	30 year (l/s)	13.8
Summer CV	1.000	Additional Storage (m³/ha)	20.0	100 year (l/s)	19.4
Winter CV	1.000	Starting Level (m)		Check Discharge Volume	✓
Analysis Speed	Normal	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	45	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	IH124	Growth Factor 100 year	2.48
Positively Drained Area (ha)	8.000	Betterment (%)	0
SAAR (mm)	999	QBar	2.0
Soil Index	1	Q 2 year (l/s)	1.8
SPR	0.10	Q 30 year (l/s)	4.0
Region	1	Q 100 year (l/s)	5.1
Growth Factor 2 year	0.90		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	8.000	Storm Duration (mins)	360
Soil Index	1	Betterment (%)	0
SPR	0.10	PR	
CWI		Runoff Volume (m³)	

Node 22 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	33.110	Product Number	CTL-SHE-0154-1250-1500-1250
Design Depth (m)	1.500	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	12.5	Min Node Diameter (mm)	1500

Node 20 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	33.150
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	198.0	0.0	1.150	1354.0	0.0	1.650	2187.0	0.0
0.150	758.0	0.0	1.250	1783.0	0.0	1.651	0.1	0.0

Node 17 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	34.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	240.0	0.0	1.100	718.0	0.0	1.501	0.1	0.0
1.000	340.0	0.0	1.500	1059.0	0.0			

Node 50 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	35.650	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	8	Depth (m)	0.500
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.30	Length (m)	15.000		

Node 51 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	35.575	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	8	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	40.000		

Node 13 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	36.026	Slope (1:X)	60.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	6	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	15.000		

Node 52 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	39.343	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.500
Safety Factor	2.0	Width (m)	8.000	Inf Depth (m)	
Porosity	0.30	Length (m)	25.000		

Node 39 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	34.444
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	7

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	20.0	0.0	0.400	20.0	0.0	0.401	0.1	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	48.283	0.034	6.8	0.0653	0.0000	OK
15 minute summer	24	10	48.306	0.044	9.9	0.0986	0.0000	OK
15 minute summer	2	11	47.176	0.076	17.7	0.1141	0.0000	OK
15 minute summer	25	10	46.316	0.041	3.8	0.0687	0.0000	OK
15 minute summer	3	10	46.048	0.073	36.9	0.1794	0.0000	OK
15 minute summer	26	10	46.066	0.025	3.2	0.0419	0.0000	OK
15 minute summer	27	10	44.771	0.046	10.6	0.0864	0.0000	OK
15 minute summer	28	11	44.549	0.099	19.8	0.1910	0.0000	OK
15 minute summer	30	10	46.238	0.038	10.6	0.0814	0.0000	OK
15 minute summer	29	11	44.331	0.131	37.8	0.2241	0.0000	OK
15 minute summer	4	11	44.153	0.153	85.5	0.2743	0.0000	OK
15 minute summer	5	11	43.714	0.114	102.6	0.2430	0.0000	OK
15 minute summer	31	10	44.040	0.037	8.0	0.0767	0.0000	OK
15 minute summer	6	11	41.976	0.226	118.8	0.3998	0.0000	OK
15 minute summer	7	11	41.848	0.148	126.1	0.2612	0.0000	OK
15 minute summer	8	11	40.808	0.171	139.1	0.3420	0.0000	OK
15 minute summer	9	11	40.093	0.141	143.4	0.2401	0.0000	OK
15 minute summer	10	11	39.258	0.186	153.1	0.3561	0.0000	OK
15 minute summer	11	11	38.764	0.142	169.0	0.3077	0.0000	OK
15 minute summer	12	11	37.085	0.174	173.8	0.2871	0.0000	OK
15 minute summer	13	11	36.164	0.138	187.8	1.2025	0.0000	OK
15 minute summer	50	11	35.736	0.086	14.2	0.8584	0.0000	OK
15 minute summer	51	12	35.697	0.122	25.7	1.3714	0.0000	OK
15 minute summer	14	11	35.578	0.306	211.7	0.5632	0.0000	OK
15 minute summer	15	12	35.367	0.182	213.2	0.3500	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 summer	1	1.000	2	6.8	0.956	0.050	0.1347	
15 minute summer	24	2.000	2	9.8	1.204	0.086	0.2088	
15 minute summer	2	1.001	3	17.3	1.493	0.239	0.6300	
15 minute summer	25	3.000	3	3.7	0.766	0.069	0.1037	
15 minute summer	3	1.002	4	37.0	2.680	0.128	0.3961	
15 minute summer	26	4.000	27	3.2	1.327	0.026	0.0526	
15 minute summer	27	4.001	28	10.5	0.818	0.051	0.1066	
15 minute summer	28	4.002	29	19.4	0.787	0.238	1.1473	
15 minute summer	30	5.000	29	10.5	2.130	0.063	0.1119	
15 minute summer	29	4.003	4	37.6	1.353	0.338	0.3467	
15 minute summer	4	1.003	5	85.8	2.441	0.287	0.6331	
15 minute summer	5	1.004	6	102.8	2.958	0.207	1.0082	
15 minute summer	31	6.000	6	7.9	1.841	0.059	0.1319	
15 minute summer	6	1.005	7	119.2	1.914	0.456	0.4766	
15 minute summer	7	1.006	8	126.4	2.506	0.229	1.8548	
15 minute summer	8	1.007	9	139.4	2.682	0.264	1.1787	
15 minute summer	9	1.008	10	143.5	2.507	0.153	1.3518	
15 minute summer	10	1.009	11	152.9	2.655	0.222	1.2931	
15 minute summer	11	1.010	12	168.6	3.081	0.161	2.0176	
15 minute summer	12	1.011	13	172.8	3.218	0.201	1.5205	
15 minute summer	13	1.012	14	186.4	2.147	0.134	0.8139	
15 minute summer	50	11.000	51	13.4	0.623	0.174	0.3338	
15 minute summer	51	11.001	14	24.1	0.938	0.316	0.4203	
15 minute summer	14	1.013	15	211.3	2.160	0.660	1.9476	
15 minute summer	15	1.014	16	214.3	3.011	0.217	1.2031	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	16	11	34.707	0.207	214.3	0.3654	0.0000	OK
30 minute summer	17	22	34.402	0.202	197.3	50.9857	0.0000	OK
30 minute summer	18	22	34.151	0.153	137.9	0.2188	0.0000	OK
30 minute summer	19	22	33.803	0.203	137.8	0.2908	0.0000	OK
15 minute summer	32	10	44.601	0.040	9.1	0.0796	0.0000	OK
15 minute summer	43	10	43.081	0.053	4.9	0.0932	0.0000	OK
15 minute summer	33	11	43.034	0.082	16.4	0.1282	0.0000	OK
15 minute summer	44	10	43.191	0.038	7.0	0.0734	0.0000	OK
15 minute summer	45	10	42.549	0.061	11.0	0.1043	0.0000	OK
15 minute summer	34	11	42.350	0.075	37.3	0.1538	0.0000	OK
15 minute summer	35	11	41.689	0.089	49.1	0.1820	0.0000	OK
15 minute summer	36	11	39.793	0.167	63.2	0.4011	0.0000	OK
15 minute summer	46	10	44.902	0.040	9.9	0.0851	0.0000	OK
15 minute summer	47	10	43.052	0.052	18.0	0.1005	0.0000	OK
15 minute summer	48	10	40.133	0.133	33.9	0.3154	0.0000	OK
15 minute summer	49	11	39.779	0.137	41.6	0.2663	0.0000	OK
15 minute summer	37	11	39.370	0.125	106.2	0.2266	0.0000	OK
15 minute summer	38	11	37.501	0.101	114.3	0.2180	0.0000	OK
15 minute summer	39	12	34.667	0.223	115.6	4.8625	0.0000	OK
15 minute summer	52	11	39.425	0.082	20.3	1.0239	0.0000	OK
15 minute summer	53	11	39.080	0.062	23.7	0.1024	0.0000	OK
15 minute summer	54	11	36.315	0.090	40.0	0.1821	0.0000	OK
15 minute summer	55	10	38.024	0.024	3.0	0.0389	0.0000	OK
15 minute summer	56	10	36.662	0.058	15.3	0.1166	0.0000	OK
15 minute summer	57	10	36.011	0.064	15.2	0.0917	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 summer	16	1.015	17	215.6	3.812	0.171	0.2995	
30 minute summer	17	1.016	18	137.9	2.146	0.258	1.0719	
30 minute summer	18	1.017	19	137.8	2.141	0.150	0.7225	
30 minute summer	19	1.018	20	137.6	1.896	0.294	3.8409	
15 minute summer	32	7.000	33	9.0	1.122	0.069	0.2293	
15 minute summer	43	8.000	33	4.8	0.509	0.121	0.1288	
15 minute summer	33	7.001	34	16.0	1.238	0.277	0.6320	
15 minute summer	44	9.000	45	7.0	1.072	0.063	0.0989	
15 minute summer	45	9.001	34	10.8	1.331	0.134	0.0470	
15 minute summer	34	7.002	35	37.4	2.392	0.128	0.1535	
15 minute summer	35	7.003	36	49.1	1.725	0.194	1.1097	
15 minute summer	36	7.004	37	63.5	1.665	0.523	0.7390	
15 minute summer	46	10.000	47	9.8	1.683	0.070	0.1521	
15 minute summer	47	10.001	48	17.8	1.161	0.118	0.5613	
15 minute summer	48	10.002	49	33.4	1.346	0.624	0.8370	
15 minute summer	49	10.003	37	41.8	1.805	0.545	0.1841	
15 minute summer	37	7.005	38	106.3	3.430	0.150	1.2040	
15 minute summer	38	7.006	39	114.3	2.707	0.113	1.5638	
15 minute summer	39	7.007	40	111.3	1.477	0.460	3.6066	
15 minute summer	52	12.000	53	19.4	1.783	0.241	0.1492	
15 minute summer	53	12.001	54	23.7	2.015	0.165	0.4364	
15 minute summer	54	12.002	40	40.2	2.758	0.321	0.4648	
15 minute summer	55	13.000	56	3.0	0.604	0.024	0.1307	
15 minute summer	56	13.001	57	15.2	1.750	0.140	0.1327	
15 minute summer	57	13.002	58	15.0	1.336	0.178	0.4007	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	58	11	35.108	0.083	24.5	0.1568	0.0000	OK
15 minute summer	40	11	34.246	0.146	190.0	0.3525	0.0000	OK
15 minute summer	41	11	33.738	0.238	189.6	0.4211	0.0000	OK
480 minute summer	42	368	33.702	0.402	44.0	0.7104	0.0000	OK
480 minute summer	20	392	33.700	0.550	168.0	423.4360	0.0000	OK
480 minute summer	21	392	33.700	0.572	14.3	1.0105	0.0000	OK
480 minute summer	22	392	33.700	0.590	13.2	1.0423	0.0000	OK
15 minute summer	23	1	33.100	0.000	12.1	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 summer	58	13.003	40	24.2	1.884	0.269	0.2689	
15 minute summer	40	7.008	41	189.6	2.670	0.127	0.4629	
15 minute summer	41	7.009	42	189.4	2.026	0.301	1.1564	
480 minute summer	42	7.010	20	120.8	1.384	0.154	1.1329	
480 minute summer	20	1.019	21	14.3	0.267	0.029	4.8417	
480 minute summer	21	1.020	22	13.2	0.182	0.027	4.0825	
480 minute summer	22	Hydro-Brake®	23	12.5				449.8

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	48.304	0.055	17.5	0.1040	0.0000	OK
15 minute summer	24	10	48.334	0.072	25.3	0.1585	0.0000	OK
15 minute summer	2	11	47.231	0.131	45.5	0.1972	0.0000	OK
15 minute summer	25	10	46.341	0.066	9.7	0.1120	0.0000	OK
15 minute summer	3	10	46.093	0.118	96.0	0.2880	0.0000	OK
15 minute summer	26	10	46.081	0.040	8.3	0.0667	0.0000	OK
15 minute summer	27	10	44.801	0.076	27.2	0.1444	0.0000	OK
15 minute summer	28	10	44.618	0.167	51.0	0.3248	0.0000	OK
15 minute summer	30	10	46.261	0.061	27.3	0.1302	0.0000	OK
15 minute summer	29	11	44.448	0.248	97.6	0.4251	0.0000	OK
15 minute summer	4	11	44.284	0.284	220.0	0.5097	0.0000	OK
15 minute summer	5	11	43.792	0.192	263.9	0.4078	0.0000	OK
15 minute summer	31	10	44.062	0.059	20.4	0.1208	0.0000	OK
15 minute summer	6	11	42.162	0.412	305.6	0.7303	0.0000	OK
15 minute summer	7	11	41.962	0.262	324.2	0.4617	0.0000	OK
15 minute summer	8	11	40.956	0.319	357.7	0.6355	0.0000	OK
15 minute summer	9	11	40.200	0.248	369.6	0.4237	0.0000	OK
15 minute summer	10	11	39.406	0.334	394.7	0.6377	0.0000	OK
15 minute summer	11	11	38.867	0.245	436.7	0.5311	0.0000	OK
15 minute summer	12	11	37.214	0.303	450.4	0.4984	0.0000	OK
15 minute summer	13	11	36.319	0.293	488.3	4.5095	0.0000	OK
15 minute summer	50	12	35.920	0.270	47.5	5.8525	0.0000	OK
15 minute summer	51	13	35.914	0.339	60.6	9.3454	0.0000	SURCHARGED
15 minute summer	14	12	35.878	0.606	485.1	1.1145	0.0000	SURCHARGED
15 minute summer	15	12	35.496	0.311	486.0	0.5991	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 summer	1	1.000	2	17.4	1.196	0.130	0.2720	
15 minute summer	24	2.000	2	25.2	1.505	0.221	0.4214	
15 minute summer	2	1.001	3	44.6	1.900	0.616	1.2776	
15 minute summer	25	3.000	3	9.5	1.000	0.180	0.2057	
15 minute summer	3	1.002	4	95.6	2.738	0.332	1.1130	
15 minute summer	26	4.000	27	8.2	1.756	0.066	0.1031	
15 minute summer	27	4.001	28	27.1	1.011	0.131	0.2171	
15 minute summer	28	4.002	29	50.0	0.968	0.614	2.3701	
15 minute summer	30	5.000	29	27.2	2.142	0.162	0.3847	
15 minute summer	29	4.003	4	96.5	1.661	0.868	0.7231	
15 minute summer	4	1.003	5	220.7	2.995	0.737	1.3128	
15 minute summer	5	1.004	6	264.6	3.185	0.531	2.3297	
15 minute summer	31	6.000	6	20.3	1.895	0.151	0.6681	
15 minute summer	6	1.005	7	306.6	2.407	1.173	0.9451	
15 minute summer	7	1.006	8	325.2	3.007	0.590	3.9662	
15 minute summer	8	1.007	9	359.4	3.292	0.682	2.4715	
15 minute summer	9	1.008	10	370.1	3.016	0.394	2.8820	
15 minute summer	10	1.009	11	395.4	3.242	0.574	2.7237	
15 minute summer	11	1.010	12	436.9	3.837	0.417	4.1894	
15 minute summer	12	1.011	13	449.8	3.594	0.523	3.5673	
15 minute summer	13	1.012	14	480.5	2.510	0.346	1.5723	
15 minute summer	50	11.000	51	34.8	0.703	0.451	1.0597	
15 minute summer	51	11.001	14	83.8	1.278	1.096	1.1501	
15 minute summer	14	1.013	15	481.0	2.528	1.501	3.4609	
15 minute summer	15	1.014	16	485.8	3.376	0.492	2.3992	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	16	6	34.969	0.469	467.2	0.8287	0.0000	OK
30 minute summer	17	22	34.591	0.391	465.3	102.2272	0.0000	OK
30 minute summer	18	22	34.313	0.315	386.6	0.4507	0.0000	OK
600 minute winter	19	585	34.235	0.635	52.5	0.9084	0.0000	SURCHARGED
15 minute summer	32	10	44.625	0.064	23.4	0.1274	0.0000	OK
15 minute summer	43	10	43.118	0.090	12.7	0.1602	0.0000	OK
15 minute summer	33	11	43.097	0.145	42.1	0.2264	0.0000	OK
15 minute summer	44	10	43.214	0.061	18.0	0.1174	0.0000	OK
15 minute summer	45	10	42.594	0.106	28.1	0.1810	0.0000	OK
15 minute summer	34	10	42.407	0.132	96.4	0.2689	0.0000	OK
15 minute summer	35	10	41.749	0.149	127.3	0.3041	0.0000	OK
15 minute summer	36	11	40.235	0.609	164.0	1.4618	0.0000	SURCHARGED
15 minute summer	46	10	44.926	0.064	25.3	0.1360	0.0000	OK
15 minute summer	47	10	43.084	0.084	46.1	0.1633	0.0000	OK
15 minute summer	48	12	40.964	0.964	87.2	2.2864	0.0000	SURCHARGED
15 minute summer	49	11	40.107	0.465	96.5	0.9038	0.0000	SURCHARGED
15 minute summer	37	11	39.452	0.207	260.5	0.3755	0.0000	OK
15 minute summer	38	11	37.559	0.159	280.6	0.3447	0.0000	OK
15 minute summer	39	12	34.960	0.516	283.4	8.9674	0.0000	SURCHARGED
15 minute summer	52	11	39.487	0.144	52.1	2.8533	0.0000	OK
15 minute summer	53	11	39.118	0.100	59.8	0.1671	0.0000	OK
15 minute summer	54	11	36.389	0.165	101.5	0.3325	0.0000	OK
15 minute summer	55	10	38.038	0.038	7.8	0.0613	0.0000	OK
15 minute summer	56	10	36.702	0.098	39.3	0.1978	0.0000	OK
15 minute summer	57	10	36.054	0.107	39.1	0.1525	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	16	1.015	17	466.9	4.006	0.371	0.6837	
30 minute summer	17	1.016	18	386.6	2.504	0.723	2.5597	
30 minute summer	18	1.017	19	386.4	2.503	0.421	1.7571	
600 minute winter	19	1.018	20	51.2	0.664	0.109	10.4510	
15 minute summer	32	7.000	33	23.3	1.390	0.178	0.4664	
15 minute summer	43	8.000	33	12.5	0.618	0.314	0.2680	
15 minute summer	33	7.001	34	41.3	1.561	0.716	1.2949	
15 minute summer	44	9.000	45	17.9	1.335	0.163	0.2037	
15 minute summer	45	9.001	34	27.9	1.673	0.346	0.0963	
15 minute summer	34	7.002	35	96.1	2.986	0.328	0.3166	
15 minute summer	35	7.003	36	126.5	2.100	0.500	2.0197	
15 minute summer	36	7.004	37	162.9	2.313	1.342	1.3514	
15 minute summer	46	10.000	47	25.2	2.202	0.180	0.2977	
15 minute summer	47	10.001	48	45.8	1.457	0.303	0.9557	
15 minute summer	48	10.002	49	76.7	1.930	1.432	1.3394	
15 minute summer	49	10.003	37	95.3	2.396	1.243	0.3129	
15 minute summer	37	7.005	38	260.2	4.303	0.367	2.3460	
15 minute summer	38	7.006	39	280.1	3.185	0.276	3.1520	
15 minute summer	39	7.007	40	277.7	1.776	1.148	7.1202	
15 minute summer	52	12.000	53	48.7	2.214	0.605	0.2993	
15 minute summer	53	12.001	54	59.7	2.475	0.414	0.8905	
15 minute summer	54	12.002	40	101.6	3.388	0.813	0.9565	
15 minute summer	55	13.000	56	7.7	0.764	0.063	0.2664	
15 minute summer	56	13.001	57	39.1	2.224	0.361	0.2686	
15 minute summer	57	13.002	58	38.7	1.662	0.461	0.8255	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	58	10	35.174	0.149	63.0	0.2822	0.0000	OK
15 minute summer	40	11	34.390	0.290	473.5	0.6992	0.0000	OK
600 minute winter	41	615	34.243	0.743	48.0	1.3128	0.0000	SURCHARGED
480 minute winter	42	512	34.237	0.937	147.4	1.6551	0.0000	SURCHARGED
600 minute winter	20	600	34.235	1.085	196.4	1042.5640	0.0000	SURCHARGED
480 minute winter	21	480	34.235	1.107	14.4	1.9558	0.0000	SURCHARGED
600 minute winter	22	600	34.235	1.125	12.9	1.9877	0.0000	SURCHARGED
15 minute summer	23	1	33.100	0.000	12.5	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 summer	58	13.003	40	62.3	2.347	0.690	0.5541	
15 minute summer	40	7.008	41	473.9	2.871	0.318	1.0392	
600 minute winter	41	7.009	42	68.1	1.435	0.108	2.5660	
480 minute winter	42	7.010	20	111.4	1.520	0.142	1.2439	
600 minute winter	20	1.019	21	13.8	0.275	0.028	6.0341	
480 minute winter	21	1.020	22	13.4	0.194	0.027	4.9104	
600 minute winter	22	Hydro-Brake®	23	12.5				503.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	48.324	0.075	32.1	0.1419	0.0000	OK
15 minute summer	24	10	48.361	0.099	46.4	0.2197	0.0000	OK
15 minute summer	2	11	47.484	0.384	83.6	0.5785	0.0000	SURCHARGED
15 minute summer	25	10	46.368	0.093	17.9	0.1563	0.0000	OK
15 minute summer	3	11	46.178	0.203	169.8	0.4962	0.0000	OK
15 minute summer	26	10	46.094	0.053	15.2	0.0883	0.0000	OK
15 minute summer	27	12	45.900	1.175	49.9	2.2221	0.0000	SURCHARGED
15 minute summer	28	12	45.883	1.433	78.0	2.7783	0.0000	SURCHARGED
15 minute summer	30	11	46.290	0.090	50.0	0.1916	0.0000	OK
15 minute summer	29	12	45.660	1.460	151.2	2.4977	0.0000	SURCHARGED
15 minute summer	4	12	45.353	1.353	352.2	2.4280	0.0000	SURCHARGED
15 minute summer	5	12	44.580	0.980	409.0	2.0841	0.0000	SURCHARGED
15 minute summer	31	10	44.084	0.081	37.5	0.1655	0.0000	OK
15 minute summer	6	12	43.003	1.253	475.9	2.2210	0.0000	SURCHARGED
15 minute summer	7	12	42.608	0.908	501.3	1.5988	0.0000	SURCHARGED
15 minute summer	8	11	41.458	0.821	556.7	1.6373	0.0000	SURCHARGED
15 minute summer	9	11	40.298	0.346	574.0	0.5908	0.0000	OK
15 minute summer	10	12	39.563	0.491	618.1	0.9397	0.0000	OK
15 minute summer	11	12	39.042	0.420	690.8	0.9103	0.0000	OK
15 minute summer	12	12	38.168	1.257	695.9	2.0703	0.0000	SURCHARGED
15 minute summer	13	12	37.388	1.362	753.4	11.8011	0.0000	SURCHARGED
15 minute summer	50	12	37.086	1.436	76.9	14.5482	0.0000	SURCHARGED
15 minute summer	51	12	37.052	1.477	139.1	21.0666	0.0000	SURCHARGED
15 minute summer	14	12	36.906	1.634	811.9	3.0034	0.0000	SURCHARGED
15 minute summer	15	13	36.019	0.834	814.0	1.6051	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 summer	1	1.000	2	32.0	1.346	0.238	0.4470	
15 minute summer	24	2.000	2	46.2	1.711	0.405	0.6902	
15 minute summer	2	1.001	3	75.1	2.016	1.037	2.1367	
15 minute summer	25	3.000	3	17.8	1.140	0.335	0.4101	
15 minute summer	3	1.002	4	167.2	2.667	0.580	1.7296	
15 minute summer	26	4.000	27	15.1	1.898	0.122	0.5165	
15 minute summer	27	4.001	28	55.7	1.073	0.269	0.5607	
15 minute summer	28	4.002	29	93.4	1.327	1.146	3.2534	
15 minute summer	30	5.000	29	49.9	2.143	0.297	0.5082	
15 minute summer	29	4.003	4	149.6	2.124	1.346	0.8795	
15 minute summer	4	1.003	5	339.7	3.080	1.135	1.9803	
15 minute summer	5	1.004	6	407.8	3.697	0.819	3.1896	
15 minute summer	31	6.000	6	37.3	1.997	0.278	0.8099	
15 minute summer	6	1.005	7	474.7	2.996	1.816	1.2080	
15 minute summer	7	1.006	8	503.5	3.178	0.913	5.8234	
15 minute summer	8	1.007	9	555.3	3.505	1.053	3.5924	
15 minute summer	9	1.008	10	573.0	3.200	0.609	4.2353	
15 minute summer	10	1.009	11	615.0	3.441	0.893	4.4236	
15 minute summer	11	1.010	12	671.0	4.023	0.640	7.3846	
15 minute summer	12	1.011	13	679.3	3.594	0.789	6.1003	
15 minute summer	13	1.012	14	716.2	3.316	0.516	1.9990	
15 minute summer	50	11.000	51	53.4	0.758	0.692	1.0874	
15 minute summer	51	11.001	14	117.9	1.678	1.541	1.1501	
15 minute summer	14	1.013	15	804.9	3.726	2.513	4.2805	
15 minute summer	15	1.014	16	807.8	3.740	0.819	3.5920	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	16	21	35.242	0.742	798.9	1.3110	0.0000	SURCHARGED
30 minute summer	17	24	34.931	0.731	796.9	203.3294	0.0000	SURCHARGED
960 minute summer	18	1035	34.792	0.794	100.8	1.1357	0.0000	SURCHARGED
960 minute winter	19	930	34.768	1.168	104.5	1.6710	0.0000	FLOOD RISK
15 minute summer	32	10	44.649	0.088	42.9	0.1753	0.0000	OK
15 minute summer	43	12	43.696	0.668	23.2	1.1841	0.0000	SURCHARGED
15 minute summer	33	12	43.673	0.721	70.4	1.1259	0.0000	SURCHARGED
15 minute summer	44	10	43.237	0.084	33.0	0.1610	0.0000	OK
15 minute summer	45	12	42.960	0.472	51.7	0.8059	0.0000	SURCHARGED
15 minute summer	34	12	42.882	0.607	156.9	1.2375	0.0000	SURCHARGED
15 minute summer	35	12	42.573	0.973	209.6	1.9905	0.0000	SURCHARGED
15 minute summer	36	11	41.108	1.482	262.5	3.5556	0.0000	FLOOD RISK
15 minute summer	46	10	44.951	0.089	46.4	0.1871	0.0000	OK
15 minute summer	47	12	43.584	0.584	84.6	1.1287	0.0000	SURCHARGED
15 minute summer	48	11	42.815	2.815	150.5	6.6744	1.8661	FLOOD
15 minute summer	49	11	40.795	1.153	155.7	2.2384	0.0000	SURCHARGED
15 minute summer	37	11	39.516	0.271	419.5	0.4923	0.0000	OK
15 minute summer	38	12	37.663	0.263	457.4	0.5710	0.0000	OK
15 minute summer	39	12	36.354	1.910	455.8	11.6613	0.0000	FLOOD RISK
15 minute summer	52	12	39.581	0.238	95.5	7.4057	0.0000	SURCHARGED
15 minute summer	53	12	39.273	0.255	95.9	0.4236	0.0000	SURCHARGED
15 minute summer	54	12	38.232	2.008	172.5	4.0404	0.0000	SURCHARGED
15 minute summer	55	10	38.052	0.052	14.3	0.0827	0.0000	OK
15 minute summer	56	12	36.802	0.198	72.2	0.3982	0.0000	OK
15 minute summer	57	12	36.589	0.642	72.3	0.9190	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)
30 minute summer	16	1.015	17	796.9	3.689	0.633	0.9678	
30 minute summer	17	1.016	18	474.2	2.511	0.887	3.5933	
960 minute summer	18	1.017	19	120.4	1.710	0.131	2.4142	
960 minute winter	19	1.018	20	86.5	0.646	0.185	10.4510	
15 minute summer	32	7.000	33	42.7	1.562	0.328	0.7001	
15 minute summer	43	8.000	33	21.2	0.664	0.533	0.5114	
15 minute summer	33	7.001	34	65.8	1.655	1.141	1.9476	
15 minute summer	44	9.000	45	32.9	1.497	0.299	0.3973	
15 minute summer	45	9.001	34	47.7	1.868	0.591	0.2295	
15 minute summer	34	7.002	35	155.1	3.035	0.529	0.6904	
15 minute summer	35	7.003	36	200.0	2.841	0.790	2.7035	
15 minute summer	36	7.004	37	260.7	3.703	2.148	1.3514	
15 minute summer	46	10.000	47	46.2	2.437	0.330	0.6985	
15 minute summer	47	10.001	48	74.6	2.097	0.493	1.4242	
15 minute summer	48	10.002	49	118.4	2.977	2.208	1.3394	
15 minute summer	49	10.003	37	154.5	3.885	2.014	0.3129	
15 minute summer	37	7.005	38	419.9	4.547	0.593	3.7513	
15 minute summer	38	7.006	39	449.8	3.544	0.443	3.8532	
15 minute summer	39	7.007	40	452.3	2.855	1.870	7.5829	
15 minute summer	52	12.000	53	74.5	2.310	0.925	0.5425	
15 minute summer	53	12.001	54	95.8	2.521	0.665	1.4640	
15 minute summer	54	12.002	40	147.5	3.710	1.180	1.2687	
15 minute summer	55	13.000	56	14.2	0.868	0.116	0.5420	
15 minute summer	56	13.001	57	72.3	2.485	0.668	0.5869	
15 minute summer	57	13.002	58	63.0	1.745	0.750	1.4132	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.27%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	58	12	36.061	1.036	105.6	1.9588	0.0000	SURCHARGED
15 minute summer	40	12	35.191	1.091	777.0	2.6304	0.0000	SURCHARGED
960 minute winter	41	930	34.769	1.269	69.0	2.2415	0.0000	SURCHARGED
960 minute winter	42	945	34.768	1.468	70.9	2.5944	0.0000	FLOOD RISK
960 minute winter	20	930	34.768	1.618	139.2	2012.1300	0.0000	FLOOD RISK
960 minute winter	21	945	34.768	1.640	14.3	2.8979	0.0000	FLOOD RISK
960 minute winter	22	930	34.769	1.659	15.1	2.9321	0.0000	FLOOD RISK
15 minute summer	23	1	33.100	0.000	12.5	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 summer	58	13.003	40	94.6	2.380	1.049	0.8309	
15 minute summer	40	7.008	41	777.8	3.601	0.523	1.3859	
960 minute winter	41	7.009	42	70.9	1.209	0.113	2.5660	
960 minute winter	42	7.010	20	106.7	1.344	0.136	1.2439	
960 minute winter	20	1.019	21	14.3	0.279	0.029	6.0341	
960 minute winter	21	1.020	22	15.1	0.184	0.031	4.9104	
960 minute winter	22	Hydro-Brake®	23	13.1				831.7