

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	0.75
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.600
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)	10.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.059	5.00	25.730	1200	500521.162	106390.943	1.460
2	0.026	5.00	23.427	1200	500575.618	106380.508	1.787
3	0.018	5.00	21.500	1200	500609.465	106374.030	1.180
4	0.082	5.00	21.237	1350	500612.591	106367.400	1.487
5	0.069	5.00	20.721	1350	500604.702	106350.440	2.345
6	0.033	5.00	20.848	1350	500594.536	106339.220	2.562
7	0.102	5.00	25.525	1200	500480.220	106390.615	1.525
8	0.026	5.00	23.214	1350	500466.589	106316.059	1.544
9	0.066	5.00	23.080	1350	500473.197	106307.232	1.595
10	0.027	5.00	22.564	1350	500515.270	106309.122	1.586
11	0.145	5.00	25.341	1200	500534.624	106388.354	1.501
12	0.020	5.00	23.053	1200	500524.388	106328.299	1.603
13	0.072	5.00	22.412	1350	500528.870	106311.768	1.592
14	0.020	5.00	21.139	1500	500577.990	106327.001	2.909
15	0.052	5.00	20.768	1500	500582.085	106314.118	2.668
16	0.019	5.00	19.764	1500	500575.458	106287.283	1.734
17	0.046	5.00	19.138	1500	500575.994	106271.808	1.728
18	0.118	5.00	18.060	1500	500583.281	106251.841	1.730
19	0.065	5.00	15.781	1500	500604.106	106214.857	1.731
20	0.030	5.00	14.540	1500	500619.404	106198.492	1.740
21			13.450	1800	500637.651	106187.119	1.650
22	0.034	5.00	13.490	1800	500634.588	106180.713	1.740
23	0.020	5.00	22.041	1200	500464.385	106292.292	1.051
24	0.072	5.00	21.426	1200	500467.224	106271.866	1.426
25	0.040	5.00	19.796	1200	500480.004	106236.084	1.426
26	0.064	5.00	20.258	1200	500512.317	106255.389	2.048
27	0.027	5.00	19.425	1200	500487.251	106229.203	1.510
28			18.923	1200	500497.908	106219.451	1.513
29			18.331	1200	500501.225	106207.899	1.501
30	0.100	5.00	18.190	1200	500559.799	106231.233	1.430
31	0.016	5.00	17.286	1200	500531.793	106195.548	1.429
32			17.077	1350	500533.015	106182.589	1.687
34	0.071	5.00	16.341	1350	500557.445	106172.617	2.179
35			15.850	1350	500566.270	106162.378	1.750
36			14.300	1350	500603.661	106149.215	1.600
37	0.053	5.00	13.952	1800	500612.722	106156.315	2.702
40			13.783	1800	500634.596	106113.083	2.807
42			12.500		500645.747	106110.788	1.620
Pond 1 Outlet			13.783		500622.281	106151.585	2.565
Pond 1 Inlet		5.00	13.783		500627.110	106145.621	2.565
Pond 2 Outlet			13.783		500616.151	106123.206	2.745

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
Pond 2 Inlet		5.00	13.783		500620.820	106119.618	2.783

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)
3.000	13.691	38.6	225	1 STANDARD	25.730	24.270	1.235	25.341	23.915	1.201
1.001	25.594	19.4	225	1 STANDARD	23.427	21.640	1.562	21.500	20.320	0.955
1.002	7.330	12.9	225	1 STANDARD	21.500	20.320	0.955	21.237	19.750	1.262
1.003	18.705	15.3	225	1 STANDARD	21.237	19.750	1.262	20.721	18.526	1.970
1.004	15.141	168.2	375	1 STANDARD	20.721	18.376	1.970	20.848	18.286	2.187
1.005	20.569	221.2	375	1 STANDARD	20.848	18.323	2.150	21.139	18.230	2.534
2.000	75.792	34.8	225	1 STANDARD	25.525	24.000	1.300	23.214	21.820	1.169
2.001	11.026	59.6	375	1 STANDARD	23.214	21.670	1.169	23.080	21.485	1.220
2.002	42.115	83.1	375	1 STANDARD	23.080	21.485	1.220	22.564	20.978	1.211
2.003	13.855	87.7	375	1 STANDARD	22.564	20.978	1.211	22.412	20.820	1.217
3.001	43.123	18.0	225	1 STANDARD	25.341	23.840	1.276	23.053	21.450	1.378
3.002	17.128	30.4	300	1 STANDARD	23.053	21.459	1.294	22.412	20.895	1.217
2.004	51.428	21.1	375	1 STANDARD	22.412	20.820	1.217	21.139	18.380	2.384
1.006	13.518	104.0	525	1 STANDARD	21.139	18.230	2.384	20.768	18.100	2.143
1.007	27.641	394.9	525	1 STANDARD	20.768	18.100	2.143	19.764	18.030	1.209
1.008	15.484	25.0	525	1 STANDARD	19.764	18.030	1.209	19.138	17.410	1.203
1.009	21.255	19.7	525	1 STANDARD	19.138	17.410	1.203	18.060	16.330	1.205
1.010	42.444	18.6	525	1 STANDARD	18.060	16.330	1.205	15.781	14.050	1.206
1.011	22.402	17.9	525	1 STANDARD	15.781	14.050	1.206	14.540	12.800	1.215
1.012	21.501	27.7	525	1 STANDARD	14.540	12.800	1.215	13.450	12.025	0.900
1.013	7.101	142.0	750	1 STANDARD	13.450	11.800	0.900	13.490	11.750	0.990

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.000	1	1200	Manhole	1 STANDARD	11	1200	Manhole	1 STANDARD
1.001	2	1200	Manhole	1 STANDARD	3	1200	Manhole	1 STANDARD
1.002	3	1200	Manhole	1 STANDARD	4	1350	Manhole	1 STANDARD
1.003	4	1350	Manhole	1 STANDARD	5	1350	Manhole	1 STANDARD
1.004	5	1350	Manhole	1 STANDARD	6	1350	Manhole	1 STANDARD
1.005	6	1350	Manhole	1 STANDARD	14	1500	Manhole	1 STANDARD
2.000	7	1200	Manhole	1 STANDARD	8	1350	Manhole	1 STANDARD
2.001	8	1350	Manhole	1 STANDARD	9	1350	Manhole	1 STANDARD
2.002	9	1350	Manhole	1 STANDARD	10	1350	Manhole	1 STANDARD
2.003	10	1350	Manhole	1 STANDARD	13	1350	Manhole	1 STANDARD
3.001	11	1200	Manhole	1 STANDARD	12	1200	Manhole	1 STANDARD
3.002	12	1200	Manhole	1 STANDARD	13	1350	Manhole	1 STANDARD
2.004	13	1350	Manhole	1 STANDARD	14	1500	Manhole	1 STANDARD
1.006	14	1500	Manhole	1 STANDARD	15	1500	Manhole	1 STANDARD
1.007	15	1500	Manhole	1 STANDARD	16	1500	Manhole	1 STANDARD
1.008	16	1500	Manhole	1 STANDARD	17	1500	Manhole	1 STANDARD
1.009	17	1500	Manhole	1 STANDARD	18	1500	Manhole	1 STANDARD
1.010	18	1500	Manhole	1 STANDARD	19	1500	Manhole	1 STANDARD
1.011	19	1500	Manhole	1 STANDARD	20	1500	Manhole	1 STANDARD
1.012	20	1500	Manhole	1 STANDARD	21	1800	Manhole	1 STANDARD
1.013	21	1800	Manhole	1 STANDARD	22	1800	Manhole	1 STANDARD

Pipeline Schedule

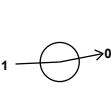
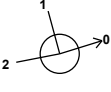
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.014	32.763	65.5	750	1 STANDARD	13.490	11.750	0.990	13.952	11.250	1.952
4.000	20.623	24.6	750	1 STANDARD	22.041	20.990	0.301	21.426	20.150	0.526
4.001	37.996	23.3	150	1 STANDARD	21.426	20.000	1.276	19.796	18.370	1.276
4.002	10.055	26.5	225	1 STANDARD	19.796	18.370	1.201	19.425	17.990	1.210
5.000	36.192	164.5	225	1 STANDARD	20.258	18.210	1.823	19.425	17.990	1.210
4.003	14.383	28.5	225	1 STANDARD	19.425	17.915	1.285	18.923	17.410	1.288
4.004	12.019	20.7	300	1 STANDARD	18.923	17.410	1.213	18.331	16.830	1.201
4.005	35.907	26.3	300	1 STANDARD	18.331	16.830	1.201	17.077	15.465	1.312
6.000	45.363	50.2	300	1 STANDARD	18.190	16.760	1.130	17.286	15.857	1.129
6.001	8.835	27.9	225	1 STANDARD	17.286	15.857	1.204	17.077	15.540	1.312
4.006	26.387	21.5	375	1 STANDARD	17.077	15.390	1.312	16.341	14.162	1.804
4.008	13.517	218.0	375	1 STANDARD	16.341	14.162	1.804	15.850	14.100	1.375
4.009	39.641	28.3	375	1 STANDARD	15.850	14.100	1.375	14.300	12.700	1.225
4.010	11.511	10.7	375	1 STANDARD	14.300	12.700	1.225	13.952	11.625	1.952
1.014_1	10.665	333.3	750	1 STANDARD	13.952	11.250	1.952	13.783	11.218	1.815
8.000	24.951	283.5	300	3 O	13.783	11.218	2.265	13.783	11.130	2.353
7.000	15.247	635.3	600	1 STANDARD	13.783	11.000	2.183	13.783	10.976	2.207
1.018	22.027	229.4	225	1 STANDARD	13.783	10.976	2.582	12.500	10.880	1.395

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.014	22	1800	Manhole	1 STANDARD	37	1800	Manhole	1 STANDARD
4.000	23	1200	Manhole	1 STANDARD	24	1200	Manhole	1 STANDARD
4.001	24	1200	Manhole	1 STANDARD	25	1200	Manhole	1 STANDARD
4.002	25	1200	Manhole	1 STANDARD	27	1200	Manhole	1 STANDARD
5.000	26	1200	Manhole	1 STANDARD	27	1200	Manhole	1 STANDARD
4.003	27	1200	Manhole	1 STANDARD	28	1200	Manhole	1 STANDARD
4.004	28	1200	Manhole	1 STANDARD	29	1200	Manhole	1 STANDARD
4.005	29	1200	Manhole	1 STANDARD	32	1350	Manhole	1 STANDARD
6.000	30	1200	Manhole	1 STANDARD	31	1200	Manhole	1 STANDARD
6.001	31	1200	Manhole	1 STANDARD	32	1350	Manhole	1 STANDARD
4.006	32	1350	Manhole	1 STANDARD	34	1350	Manhole	1 STANDARD
4.008	34	1350	Manhole	1 STANDARD	35	1350	Manhole	1 STANDARD
4.009	35	1350	Manhole	1 STANDARD	36	1350	Manhole	1 STANDARD
4.010	36	1350	Manhole	1 STANDARD	37	1800	Manhole	1 STANDARD
1.014_1	37	1800	Manhole	1 STANDARD	Pond 1 Outlet		Junction	
8.000	Pond 1 Inlet		Junction		Pond 2 Outlet		Junction	
7.000	Pond 2 Inlet		Junction		40	1800	Sealed Manhole	1 STANDARD
1.018	40	1800	Sealed Manhole	1 STANDARD	42		Manhole	1 STANDARD

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	500521.162	106390.943	25.730	1.460	1200				
						0	3.000	24.270	225

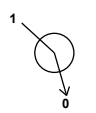
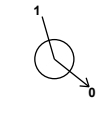
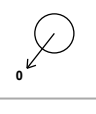
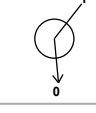
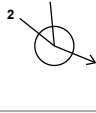
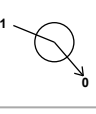
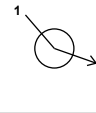
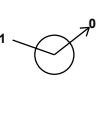
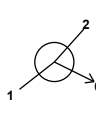
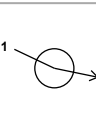
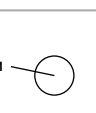
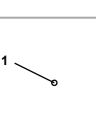
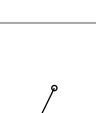
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
2	500575.618	106380.508	23.427	1.787	1200		0	1.001	21.640	225
3	500609.465	106374.030	21.500	1.180	1200		1	1.001	20.320	225
							0	1.002	20.320	225
4	500612.591	106367.400	21.237	1.487	1350		1	1.002	19.750	225
							0	1.003	19.750	225
5	500604.702	106350.440	20.721	2.345	1350		1	1.003	18.526	225
							0	1.004	18.376	375
6	500594.536	106339.220	20.848	2.562	1350		1	1.004	18.286	375
							0	1.005	18.323	375
7	500480.220	106390.615	25.525	1.525	1200		0	2.000	24.000	225
8	500466.589	106316.059	23.214	1.544	1350		1	2.000	21.820	225
							0	2.001	21.670	375
9	500473.197	106307.232	23.080	1.595	1350		1	2.001	21.485	375
							0	2.002	21.485	375
10	500515.270	106309.122	22.564	1.586	1350		1	2.002	20.978	375
							0	2.003	20.978	375
11	500534.624	106388.354	25.341	1.501	1200		1	3.000	23.915	225
							0	3.001	23.840	225
12	500524.388	106328.299	23.053	1.603	1200		1	3.001	21.450	225
							0	3.002	21.459	300
13	500528.870	106311.768	22.412	1.592	1350		1	3.002	20.895	300
							2	2.003	20.820	375
							0	2.004	20.820	375
14	500577.990	106327.001	21.139	2.909	1500		1	1.005	18.230	375
							2	2.004	18.380	375
							0	1.006	18.230	525

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
15	500582.085	106314.118	20.768	2.668	1500	1 0 	1	1.006	18.100	525
							0	1.007	18.100	525
16	500575.458	106287.283	19.764	1.734	1500	1 0 	1	1.007	18.030	525
							0	1.008	18.030	525
17	500575.994	106271.808	19.138	1.728	1500	1 0 	1	1.008	17.410	525
							0	1.009	17.410	525
18	500583.281	106251.841	18.060	1.730	1500	1 0 	1	1.009	16.330	525
							0	1.010	16.330	525
19	500604.106	106214.857	15.781	1.731	1500	1 0 	1	1.010	14.050	525
							0	1.011	14.050	525
20	500619.404	106198.492	14.540	1.740	1500	1 0 	1	1.011	12.800	525
							0	1.012	12.800	525
21	500637.651	106187.119	13.450	1.650	1800	1 0 	1	1.012	12.025	525
							0	1.013	11.800	750
22	500634.588	106180.713	13.490	1.740	1800	1 0 	1	1.013	11.750	750
							0	1.014	11.750	750
23	500464.385	106292.292	22.041	1.051	1200	1 0 				
							0	4.000	20.990	750
24	500467.224	106271.866	21.426	1.426	1200	1 0 	1	4.000	20.150	750
							0	4.001	20.000	150
25	500480.004	106236.084	19.796	1.426	1200	1 0 	1	4.001	18.370	150
							0	4.002	18.370	225
26	500512.317	106255.389	20.258	2.048	1200	1 0 				
							0	5.000	18.210	225
27	500487.251	106229.203	19.425	1.510	1200	2 1 0 	1	5.000	17.990	225
							2	4.002	17.990	225
							0	4.003	17.915	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
28	500497.908	106219.451	18.923	1.513	1200		1 4.003	17.410	225
29	500501.225	106207.899	18.331	1.501	1200		0 4.004	17.410	300
							1 4.004	16.830	300
30	500559.799	106231.233	18.190	1.430	1200		0 4.005	16.830	300
							1 6.000	16.760	300
31	500531.793	106195.548	17.286	1.429	1200		1 6.000	15.857	300
32	500533.015	106182.589	17.077	1.687	1350		0 6.001	15.857	225
							1 6.001	15.540	225
34	500557.445	106172.617	16.341	2.179	1350		2 4.005	15.465	300
							0 4.006	15.390	375
35	500566.270	106162.378	15.850	1.750	1350		1 4.006	14.162	375
							0 4.008	14.162	375
36	500603.661	106149.215	14.300	1.600	1350		1 4.008	14.100	375
							0 4.009	14.100	375
37	500612.722	106156.315	13.952	2.702	1800		1 4.009	12.700	375
							0 4.010	12.700	375
40	500634.596	106113.083	13.783	2.807	1800		2 1.014	11.250	750
							0 1.014_1	11.250	750
42	500645.747	106110.788	12.500	1.620			1 7.000	10.976	600
							0 1.018	10.976	225
Pond 1 Outlet	500622.281	106151.585	13.783	2.565			1 1.018	10.880	225
Pond 1 Inlet	500627.110	106145.621	13.783	2.565			1 1.014_1	11.218	750
							0 8.000	11.218	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
Pond 2 Outlet	500616.151	106123.206	13.783	2.745			1	8.000	11.130	300
Pond 2 Inlet	500620.820	106119.618	13.783	2.783			0	7.000	11.000	600

Node 40 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	10.976	Product Number	CTL-SHE-0068-3100-2501-3100
Design Depth (m)	2.501	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	3.1	Min Node Diameter (mm)	1200

Node Pond 1 Inlet Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	7.674
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	11.218	Main Channel Slope (1:X)	500.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.250

Inlets

Pond 1 Outlet

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	192.1	0.0	2.652	759.7	0.0

Node Pond 2 Inlet Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	11.500
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	11.015	Main Channel Slope (1:X)	500.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.250

Inlets

Pond 2 Outlet

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	96.4	0.0	2.768	613.4	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	24.328	0.058	11.4	0.1127	0.0000	OK
15 minute summer	2	10	21.671	0.031	5.0	0.0446	0.0000	OK
15 minute summer	3	10	20.357	0.037	8.5	0.0525	0.0000	OK
15 minute summer	4	10	19.817	0.067	24.3	0.1705	0.0000	OK
15 minute summer	5	10	18.516	0.140	37.5	0.2829	0.0000	OK
15 minute summer	6	11	18.494	0.208	43.4	0.3516	0.0000	OK
15 minute summer	7	11	24.072	0.072	19.8	0.1770	0.0000	OK
15 minute summer	8	11	21.751	0.081	24.0	0.1430	0.0000	OK
15 minute summer	9	11	21.588	0.103	36.5	0.2322	0.0000	OK
15 minute summer	10	11	21.100	0.122	41.6	0.2153	0.0000	OK
15 minute summer	11	10	23.927	0.087	39.4	0.2658	0.0000	OK
15 minute summer	12	10	21.558	0.108	43.0	0.1497	0.0000	OK
15 minute summer	13	11	20.943	0.123	97.4	0.2878	0.0000	OK
15 minute summer	14	11	18.475	0.245	144.5	0.4675	0.0000	OK
15 minute summer	15	11	18.377	0.277	154.3	0.5983	0.0000	OK
15 minute summer	16	11	18.188	0.158	157.8	0.3145	0.0000	OK
15 minute summer	17	11	17.557	0.147	166.0	0.3373	0.0000	OK
15 minute summer	18	11	16.478	0.148	187.4	0.4622	0.0000	OK
15 minute summer	19	11	14.203	0.153	198.8	0.3849	0.0000	OK
15 minute summer	20	11	12.984	0.184	203.5	0.3882	0.0000	OK
1440 minute winter	21	1410	12.078	0.278	12.4	0.7069	0.0000	OK
1440 minute winter	22	1410	12.078	0.328	12.8	0.9619	0.0000	OK
15 minute summer	23	10	21.013	0.023	3.9	0.0341	0.0000	OK
15 minute summer	24	10	20.073	0.073	17.8	0.1563	0.0000	OK
15 minute summer	25	10	18.453	0.083	25.4	0.1405	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	3.000	11	11.3	1.438	0.134	0.1075	
15 minute summer	2	1.001	3	5.0	1.324	0.042	0.0962	
15 minute summer	3	1.002	4	8.4	1.216	0.058	0.0518	
15 minute summer	4	1.003	5	24.1	2.496	0.180	0.1806	
15 minute summer	5	1.004	6	37.0	0.767	0.240	0.7587	
15 minute summer	6	1.005	14	43.0	0.696	0.320	1.2893	
15 minute summer	7	2.000	8	19.2	1.783	0.217	0.8177	
15 minute summer	8	2.001	9	24.1	1.155	0.093	0.2310	
15 minute summer	9	2.002	10	36.6	1.326	0.167	1.1658	
15 minute summer	10	2.003	13	41.8	1.341	0.196	0.4320	
15 minute summer	11	3.001	12	39.1	2.371	0.318	0.7121	
15 minute summer	12	3.002	13	42.5	2.191	0.210	0.3326	
15 minute summer	13	2.004	14	97.8	3.181	0.224	1.5815	
15 minute summer	14	1.006	15	144.7	1.348	0.304	1.4509	
15 minute summer	15	1.007	16	154.3	1.824	0.636	2.3564	
15 minute summer	16	1.008	17	157.5	3.029	0.162	0.8055	
15 minute summer	17	1.009	18	165.6	3.349	0.151	1.0512	
15 minute summer	18	1.010	19	186.8	3.670	0.166	2.1614	
15 minute summer	19	1.011	20	198.1	3.321	0.172	1.3382	
15 minute summer	20	1.012	21	202.2	3.248	0.219	1.3413	
1440 minute winter	21	1.013	22	12.4	0.881	0.012	1.1824	
1440 minute winter	22	1.014	37	12.8	0.493	0.008	10.2380	
15 minute summer	23	4.000	24	3.8	1.071	0.002	0.0739	
15 minute summer	24	4.001	25	17.6	1.907	0.477	0.3516	
15 minute summer	25	4.002	27	25.1	2.007	0.248	0.1260	

Results for 2 year Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	26	11	18.296	0.086	12.4	0.1504	0.0000	OK
15 minute summer	27	10	18.030	0.115	42.2	0.1707	0.0000	OK
15 minute summer	28	11	17.500	0.090	42.1	0.1013	0.0000	OK
15 minute summer	29	11	16.922	0.092	42.2	0.1043	0.0000	OK
15 minute summer	30	10	16.830	0.070	19.4	0.1778	0.0000	OK
15 minute summer	31	10	15.936	0.079	22.3	0.1066	0.0000	OK
15 minute summer	32	11	15.487	0.097	64.5	0.1385	0.0000	OK
15 minute summer	34	11	14.364	0.202	77.7	0.4213	0.0000	OK
15 minute summer	35	11	14.223	0.123	78.0	0.1754	0.0000	OK
15 minute summer	36	11	12.799	0.099	78.0	0.1412	0.0000	OK
1440 minute winter	37	1410	12.078	0.828	18.0	2.4311	0.0000	SURCHARGED
1440 minute winter	40	1410	12.078	1.102	2.2	2.8039	0.0000	SURCHARGED
1440 minute winter	42	1410	10.917	0.037	2.1	0.0000	0.0000	OK
1440 minute winter	Pond 1 Outlet	1410	12.078	0.860	17.4	0.0000	0.0000	OK
1440 minute winter	Pond 1 Inlet	1410	12.078	0.860	12.7	0.0000	0.0000	SURCHARGED
1440 minute winter	Pond 2 Outlet	1410	12.078	1.040	8.2	0.0000	0.0000	OK
1440 minute winter	Pond 2 Inlet	1410	12.078	1.078	4.7	0.0000	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	26	5.000	27	12.1	0.886	0.299	0.4932	
15 minute summer	27	4.003	28	42.1	2.409	0.430	0.2517	
15 minute summer	28	4.004	29	42.2	2.351	0.172	0.2163	
15 minute summer	29	4.005	32	42.5	2.369	0.195	0.6444	
15 minute summer	30	6.000	31	19.2	1.410	0.122	0.6178	
15 minute summer	31	6.001	32	22.0	1.895	0.222	0.1026	
15 minute summer	32	4.006	34	64.6	1.578	0.149	1.0959	
15 minute summer	34	4.008	35	78.0	1.706	0.577	0.6207	
15 minute summer	35	4.009	36	78.0	2.876	0.207	1.0771	
15 minute summer	36	4.010	37	77.8	3.611	0.127	0.2480	
1440 minute winter	37	1.014_1	Pond 1 Outlet	17.4	0.554	0.026	4.6939	
1440 minute winter	40	1.018	42	2.1	0.486	0.061	0.0952	183.7
1440 minute winter	Pond 1 Outlet	Flow through Pond	Pond 1 Inlet	12.7	0.007	0.000	241.6795	
1440 minute winter	Pond 1 Inlet	8.000	Pond 2 Outlet	8.2	0.369	0.041	5.2711	
1440 minute winter	Pond 2 Outlet	Flow through Pond	Pond 2 Inlet	4.7	0.009	0.000	204.5865	
1440 minute winter	Pond 2 Inlet	7.000	40	2.2	0.123	0.008	4.2947	

Results for 30 year Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	24.367	0.097	28.4	0.1875	0.0000	OK
15 minute summer	2	10	21.689	0.049	12.5	0.0697	0.0000	OK
15 minute summer	3	10	20.378	0.058	21.1	0.0827	0.0000	OK
15 minute summer	4	10	19.855	0.105	60.5	0.2670	0.0000	OK
15 minute summer	5	11	18.863	0.487	93.6	0.9843	0.0000	SURCHARGED
15 minute summer	6	11	18.815	0.529	106.1	0.8933	0.0000	SURCHARGED
15 minute summer	7	10	24.120	0.120	49.2	0.2961	0.0000	OK
15 minute summer	8	10	21.810	0.140	60.2	0.2467	0.0000	OK
15 minute summer	9	10	21.657	0.172	91.7	0.3888	0.0000	OK
15 minute summer	10	11	21.189	0.211	103.6	0.3735	0.0000	OK
15 minute summer	11	10	23.992	0.152	98.1	0.4658	0.0000	OK
15 minute summer	12	10	21.632	0.182	107.0	0.2513	0.0000	OK
15 minute summer	13	11	21.017	0.197	242.5	0.4599	0.0000	OK
15 minute summer	14	11	18.733	0.503	358.9	0.9577	0.0000	OK
15 minute summer	15	11	18.599	0.499	384.3	1.0762	0.0000	OK
15 minute summer	16	11	18.308	0.278	393.8	0.5512	0.0000	OK
15 minute summer	17	11	17.663	0.253	414.8	0.5812	0.0000	OK
15 minute summer	18	11	16.577	0.247	468.9	0.7733	0.0000	OK
15 minute summer	19	11	14.316	0.266	498.8	0.6700	0.0000	OK
15 minute summer	20	11	13.132	0.332	512.1	0.7017	0.0000	OK
1440 minute winter	21	1410	12.680	0.880	22.0	2.2392	0.0000	SURCHARGED
1440 minute winter	22	1410	12.680	0.930	22.4	2.7291	0.0000	SURCHARGED
15 minute summer	23	10	21.024	0.034	9.6	0.0508	0.0000	OK
15 minute summer	24	12	20.310	0.310	44.2	0.6637	0.0000	SURCHARGED
15 minute summer	25	11	18.513	0.143	56.0	0.2421	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	3.000	11	28.2	1.822	0.335	0.2118	
15 minute summer	2	1.001	3	12.4	1.735	0.105	0.1838	
15 minute summer	3	1.002	4	21.0	1.625	0.144	0.0961	
15 minute summer	4	1.003	5	60.3	2.886	0.451	0.5425	
15 minute summer	5	1.004	6	90.7	0.842	0.589	1.6700	
15 minute summer	6	1.005	14	106.3	0.964	0.793	2.2687	
15 minute summer	7	2.000	8	47.8	2.263	0.540	1.6046	
15 minute summer	8	2.001	9	60.0	1.397	0.231	0.4776	
15 minute summer	9	2.002	10	91.2	1.619	0.415	2.3740	
15 minute summer	10	2.003	13	104.5	1.709	0.489	0.8475	
15 minute summer	11	3.001	12	97.4	3.082	0.791	1.3574	
15 minute summer	12	3.002	13	106.1	2.719	0.524	0.6687	
15 minute summer	13	2.004	14	243.4	3.415	0.556	4.2730	
15 minute summer	14	1.006	15	360.4	1.697	0.758	2.8716	
15 minute summer	15	1.007	16	385.1	2.264	1.587	4.5309	
15 minute summer	16	1.008	17	393.7	3.602	0.405	1.6922	
15 minute summer	17	1.009	18	414.7	4.095	0.378	2.1527	
15 minute summer	18	1.010	19	468.9	4.475	0.416	4.4478	
15 minute summer	19	1.011	20	498.3	3.923	0.434	2.8430	
15 minute summer	20	1.012	21	513.3	3.980	0.556	2.7701	
1440 minute winter	21	1.013	22	21.7	0.990	0.021	3.1253	
1440 minute winter	22	1.014	37	21.6	0.486	0.014	14.4197	
15 minute summer	23	4.000	24	9.5	1.361	0.004	0.7679	
15 minute summer	24	4.001	25	37.7	2.191	1.018	0.6635	
15 minute summer	25	4.002	27	56.1	2.253	0.553	0.3338	

Results for 30 year Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	26	11	18.366	0.156	30.8	0.2734	0.0000	OK
15 minute summer	27	11	18.280	0.365	98.6	0.5434	0.0000	SURCHARGED
15 minute summer	28	11	17.555	0.145	95.1	0.1642	0.0000	OK
15 minute summer	29	11	16.975	0.145	95.0	0.1643	0.0000	OK
15 minute summer	30	10	16.872	0.112	48.2	0.2845	0.0000	OK
15 minute summer	31	10	15.996	0.139	55.5	0.1889	0.0000	OK
15 minute summer	32	11	15.540	0.150	149.3	0.2144	0.0000	OK
15 minute summer	34	11	14.514	0.352	181.9	0.7340	0.0000	OK
15 minute summer	35	11	14.300	0.200	181.7	0.2860	0.0000	OK
15 minute summer	36	10	12.857	0.157	181.2	0.2246	0.0000	OK
1440 minute winter	37	1410	12.680	1.430	30.8	4.1995	0.0000	SURCHARGED
1440 minute winter	40	1410	12.680	1.704	2.6	4.3363	0.0000	SURCHARGED
1440 minute winter	42	1410	10.921	0.041	2.6	0.0000	0.0000	OK
1440 minute winter	Pond 1 Outlet	1410	12.680	1.462	30.4	0.0000	0.0000	OK
1440 minute winter	Pond 1 Inlet	1410	12.680	1.462	22.0	0.0000	0.0000	SURCHARGED
1440 minute winter	Pond 2 Outlet	1410	12.680	1.642	13.7	0.0000	0.0000	OK
1440 minute winter	Pond 2 Inlet	1410	12.680	1.680	7.2	0.0000	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	26	5.000	27	30.8	1.025	0.762	1.2502	
15 minute summer	27	4.003	28	95.1	2.644	0.972	0.4808	
15 minute summer	28	4.004	29	95.0	2.814	0.388	0.4061	
15 minute summer	29	4.005	32	94.8	2.910	0.436	1.1705	
15 minute summer	30	6.000	31	47.8	1.704	0.304	1.2736	
15 minute summer	31	6.001	32	54.7	2.327	0.553	0.2079	
15 minute summer	32	4.006	34	149.3	1.917	0.345	1.9606	
15 minute summer	34	4.008	35	181.7	2.089	1.345	1.1303	
15 minute summer	35	4.009	36	181.2	3.546	0.480	2.0275	
15 minute summer	36	4.010	37	181.7	4.173	0.296	0.5667	
1440 minute winter	37	1.014_1	Pond 1 Outlet	30.4	0.579	0.045	4.6939	
1440 minute winter	40	1.018	42	2.6	0.512	0.075	0.1106	214.3
1440 minute winter	Pond 1 Outlet	Flow through Pond	Pond 1 Inlet	22.0	0.008	0.001	506.1992	
1440 minute winter	Pond 1 Inlet	8.000	Pond 2 Outlet	13.7	0.439	0.070	5.2711	
1440 minute winter	Pond 2 Outlet	Flow through Pond	Pond 2 Inlet	7.2	0.013	0.001	414.6060	
1440 minute winter	Pond 2 Inlet	7.000	40	2.6	0.071	0.010	4.2947	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	12	25.452	1.182	50.0	2.2922	0.0000	FLOOD RISK
15 minute summer	2	10	21.705	0.065	22.0	0.0927	0.0000	OK
15 minute summer	3	12	20.530	0.210	37.2	0.3021	0.0000	OK
15 minute summer	4	11	20.489	0.739	102.4	1.8725	0.0000	SURCHARGED
15 minute summer	5	11	19.737	1.361	147.7	2.7489	0.0000	SURCHARGED
15 minute summer	6	11	19.610	1.324	173.1	2.2359	0.0000	SURCHARGED
15 minute summer	7	10	24.181	0.181	86.5	0.4467	0.0000	OK
15 minute summer	8	10	21.878	0.208	105.5	0.3669	0.0000	OK
15 minute summer	9	12	21.769	0.284	160.9	0.6424	0.0000	OK
15 minute summer	10	12	21.569	0.591	181.3	1.0472	0.0000	SURCHARGED
15 minute summer	11	12	25.341	1.501	157.1	4.5975	0.0000	FLOOD RISK
15 minute summer	12	12	21.870	0.420	154.5	0.5796	0.0000	SURCHARGED
15 minute summer	13	12	21.416	0.596	385.4	1.3927	0.0000	SURCHARGED
15 minute summer	14	11	19.394	1.164	550.2	2.2168	0.0000	SURCHARGED
15 minute summer	15	11	19.056	0.956	590.7	2.0612	0.0000	SURCHARGED
15 minute summer	16	11	18.410	0.380	604.3	0.7553	0.0000	OK
15 minute summer	17	11	17.751	0.341	640.4	0.7853	0.0000	OK
15 minute summer	18	11	16.656	0.326	733.9	1.0207	0.0000	OK
15 minute summer	19	11	14.449	0.399	788.8	1.0037	0.0000	OK
1440 minute winter	20	1440	13.450	0.650	37.7	1.3725	0.0000	SURCHARGED
1440 minute winter	21	1440	13.450	1.650	37.7	4.1989	0.0000	FLOOD RISK
1440 minute winter	22	1440	13.450	1.700	38.6	4.9891	0.0000	FLOOD RISK
15 minute summer	23	13	21.226	0.236	29.9	0.3569	0.0000	OK
15 minute summer	24	13	21.248	1.248	78.0	2.6713	0.0000	FLOOD RISK
15 minute summer	25	12	19.174	0.804	69.6	1.3595	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	3.000	11	45.0	1.782	0.535	0.5445	
15 minute summer	2	1.001	3	21.9	2.007	0.185	0.5991	
15 minute summer	3	1.002	4	35.3	1.689	0.242	0.2874	
15 minute summer	4	1.003	5	93.8	2.947	0.701	0.7439	
15 minute summer	5	1.004	6	146.4	1.328	0.951	1.6700	
15 minute summer	6	1.005	14	172.3	1.562	1.285	2.2687	
15 minute summer	7	2.000	8	84.2	2.512	0.951	2.5393	
15 minute summer	8	2.001	9	104.9	1.473	0.404	0.8058	
15 minute summer	9	2.002	10	158.4	1.730	0.721	4.2111	
15 minute summer	10	2.003	13	174.3	1.772	0.816	1.5282	
15 minute summer	11	3.001	12	138.3	3.479	1.124	1.7150	
15 minute summer	12	3.002	13	153.0	2.851	0.756	1.2061	
15 minute summer	13	2.004	14	374.0	3.405	0.855	5.6724	
15 minute summer	14	1.006	15	548.6	2.540	1.154	2.9203	
15 minute summer	15	1.007	16	588.9	2.848	2.427	5.3012	
15 minute summer	16	1.008	17	603.2	3.830	0.620	2.4479	
15 minute summer	17	1.009	18	638.6	4.437	0.582	3.0766	
15 minute summer	18	1.010	19	736.2	4.761	0.653	6.7229	
15 minute summer	19	1.011	20	789.1	4.120	0.687	4.3903	
1440 minute winter	20	1.012	21	37.7	1.921	0.041	4.6449	
1440 minute winter	21	1.013	22	37.4	1.005	0.036	3.1253	
1440 minute winter	22	1.014	37	38.4	0.584	0.025	14.4197	
15 minute summer	23	4.000	24	16.9	1.294	0.007	5.7608	
15 minute summer	24	4.001	25	44.0	2.501	1.188	0.6689	
15 minute summer	25	4.002	27	67.1	2.326	0.661	0.3999	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 93.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	26	11	19.299	1.089	54.3	1.9120	0.0000	SURCHARGED
15 minute summer	27	11	18.925	1.010	136.9	1.5040	0.0000	SURCHARGED
15 minute summer	28	12	17.594	0.184	134.4	0.2075	0.0000	OK
15 minute summer	29	12	17.012	0.182	134.6	0.2061	0.0000	OK
15 minute summer	30	10	16.915	0.155	84.8	0.3913	0.0000	OK
15 minute summer	31	11	16.182	0.325	97.8	0.4404	0.0000	SURCHARGED
15 minute summer	32	11	15.608	0.218	226.4	0.3115	0.0000	OK
15 minute summer	34	11	14.845	0.683	282.8	1.4227	0.0000	SURCHARGED
15 minute summer	35	11	14.370	0.270	280.1	0.3870	0.0000	OK
1440 minute winter	36	1440	13.450	0.750	14.1	1.0731	0.0000	SURCHARGED
1440 minute winter	37	1440	13.450	2.200	54.3	6.4610	0.0000	SURCHARGED
1440 minute winter	40	1440	13.450	2.474	3.1	6.2960	0.0000	SURCHARGED
1440 minute winter	42	1440	10.924	0.044	3.1	0.0000	0.0000	OK
1440 minute winter	Pond 1 Outlet	1440	13.450	2.232	54.0	0.0000	0.0000	OK
1440 minute winter	Pond 1 Inlet	1440	13.450	2.232	38.5	0.0000	0.0000	SURCHARGED
1440 minute winter	Pond 2 Outlet	1440	13.450	2.412	22.9	0.0000	0.0000	OK
1440 minute winter	Pond 2 Inlet	1440	13.450	2.450	10.6	0.0000	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	26	5.000	27	48.8	1.227	1.208	1.4394	
15 minute summer	27	4.003	28	134.4	3.429	1.373	0.5354	
15 minute summer	28	4.004	29	134.6	2.995	0.549	0.5404	
15 minute summer	29	4.005	32	135.2	3.151	0.621	1.5402	
15 minute summer	30	6.000	31	84.2	1.818	0.536	2.4072	
15 minute summer	31	6.001	32	94.0	2.466	0.950	0.3206	
15 minute summer	32	4.006	34	225.6	2.290	0.521	2.3302	
15 minute summer	34	4.008	35	280.1	2.657	2.074	1.3206	
15 minute summer	35	4.009	36	279.2	3.854	0.740	2.9000	
1440 minute winter	36	4.010	37	14.1	1.616	0.023	1.2696	
1440 minute winter	37	1.014_1	Pond 1 Outlet	54.0	0.683	0.080	4.6939	
1440 minute winter	40	1.018	42	3.1	0.539	0.090	0.1252	245.9
1440 minute winter	Pond 1 Outlet	Flow through Pond	Pond 1 Inlet	38.5	0.011	0.001	957.4568	
1440 minute winter	Pond 1 Inlet	8.000	Pond 2 Outlet	22.9	0.490	0.116	5.2711	
1440 minute winter	Pond 2 Outlet	Flow through Pond	Pond 2 Inlet	10.6	0.008	0.001	781.9855	
1440 minute winter	Pond 2 Inlet	7.000	40	3.1	0.087	0.011	4.2947	