

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	1.000
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		5.00	41.019	1200	535175.917	124783.023	1.219
2	0.120	5.00	41.327	1200	535183.416	124792.265	1.827
3	0.048	5.00	41.074	1200	535203.531	124819.451	2.093
4	0.073	5.00	39.960		535223.122	124859.868	1.960
5	0.057	5.00	39.150	1350	535238.389	124891.179	1.650
6	0.035	5.00	38.893	1350	535238.694	124899.719	1.893
7	0.023	5.00	38.610	1200	535222.507	124903.657	2.610
8		5.00	38.500		535204.888	124911.119	1.200
9	0.072	5.00	35.988	1200	535185.332	124934.719	1.988
10		5.00	37.800		535255.348	124911.465	0.900
11	0.046	5.00	38.389	1200	535244.277	124919.472	1.989
12	0.047	5.00	36.885	1200	535269.900	124947.915	2.285
13	0.115	5.00	34.800		535321.562	124934.292	0.500
14			35.875	1500	535313.125	124935.146	1.675
15	0.045	5.00	36.188	1350	535288.290	124959.141	2.263
16	0.012	5.00	36.676	1200	535271.331	124955.560	2.926
17	0.012	5.00	36.558	1200	535263.093	124961.957	2.908
18	0.048	5.00	35.816	1350	535231.055	124979.045	2.516
19	0.066	5.00	35.313	1200	535221.698	124974.728	2.113
20			34.566	1350	535215.459	124979.917	3.366
21	0.013	5.00	40.185	1200	535204.254	124851.190	2.185
22		5.00	39.330		535181.201	124855.786	1.230
23	0.055	5.00	39.330	1200	535182.655	124862.142	2.830
24	0.090	5.00	36.990	1200	535131.069	124869.052	1.990
25	0.059	5.00	35.800	1200	535149.162	124890.599	1.600
26	0.057	5.00	34.301	1200	535131.952	124904.958	1.801
27	0.032	5.00	35.143	1200	535101.068	124874.130	1.643
28	0.013	5.00	34.689	1200	535109.305	124884.017	1.989
29	0.041	5.00	33.764	1200	535111.391	124901.895	2.264
30	0.029	5.00	32.785	1200	535073.413	124901.676	1.585
31	0.018	5.00	32.558	1200	535067.188	124908.376	1.533
32	0.026	5.00	32.210	1350	535064.309	124922.471	1.435
33	0.013	5.00	32.325	1200	535098.002	124934.208	1.765
34	0.030	5.00	32.421	1200	535103.933	124933.039	1.921
35	0.048	5.00	33.760	1200	535156.379	124942.718	2.760
36	0.030	5.00	33.175	1200	535147.238	124956.735	3.425
37	0.012	5.00	31.632	1200	535142.408	124969.492	1.982
38			31.606	1200	535160.975	124981.002	2.106
39	0.080	5.00	31.600	1200	535187.072	124989.783	2.300
40			31.900	1800	535180.294	125001.874	2.825
40_OUT			29.599	1200	535169.436	125021.971	0.599
~~J1	0.058		39.330		535174.609	124847.972	1.203
~~J2	0.050		38.500		535200.818	124904.536	1.198
~~J3	0.050		37.800		535267.061	124903.152	0.898

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	12.028	0.600	39.800	39.575	0.225	53.5	225	5.11	50.0
1.001	2	3	33.819	0.600	39.500	38.981	0.519	65.2	300	5.40	50.0
1.002	3	4	79.750	0.600	38.981	38.000	0.981	81.3	300	6.16	50.0
1.003	4	5	34.835	0.600	38.000	37.500	0.500	69.7	300	6.47	49.0
1.004	5	6	6.000	0.600	37.500	37.000	0.500	12.0	300	6.49	49.0
1.005	6	7	16.659	0.600	37.000	36.000	1.000	16.7	300	6.56	48.7
1.006	7	9	48.444	0.600	36.000	34.075	1.925	25.2	300	6.82	47.9
2.000	8	9	2.000	0.600	37.300	34.600	2.700	0.7	150	5.00	50.0
1.007	9	19	53.997	0.600	34.000	33.200	0.800	67.5	375	7.23	46.6
3.000	10	11	5.000	0.600	36.900	36.400	0.500	10.0	150	5.03	50.0
3.001	11	12	38.166	0.600	36.400	34.600	1.800	21.2	150	5.32	50.0
3.002	12	16	7.000	0.600	34.600	33.825	0.775	9.0	150	5.35	50.0
4.000	13	14	8.480	0.600	34.300	34.200	0.100	84.8	150	5.13	50.0
4.001	14	15	17.000	0.600	34.200	33.925	0.275	61.8	150	5.35	50.0
4.002	15	16	14.000	0.600	33.925	33.825	0.100	140.0	150	5.63	50.0
3.003	16	17	10.430	0.600	33.750	33.650	0.100	104.3	225	5.76	50.0
3.004	17	18	36.310	0.600	33.650	33.450	0.200	181.6	225	6.39	49.3
3.005	18	19	10.399	0.600	33.300	33.200	0.100	104.0	375	6.49	49.0
1.008	19	20	8.168	0.600	33.200	31.200	2.000	4.1	375	7.24	46.5
1.009	20	39	19.789	0.600	31.200	29.310	1.890	10.5	375	7.30	46.4
5.000	21	23	24.217	0.600	38.000	36.500	1.500	16.1	150	5.16	50.0
6.000	22	23	6.520	0.600	38.100	36.500	1.600	4.1	150	5.02	50.0
5.001	23	25	43.950	0.600	36.500	34.275	2.225	19.8	225	5.41	50.0
7.000	24	25	28.136	0.600	35.000	34.275	0.725	38.8	225	5.22	50.0
5.002	25	26	22.413	0.600	34.200	32.500	1.700	13.2	300	5.49	50.0
5.003	26	29	20.787	0.600	32.500	31.500	1.000	20.8	300	5.59	50.0
8.000	27	28	12.869	0.600	33.500	32.700	0.800	16.1	150	5.08	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)
1.000	1.792	71.3	0.0	0.994	1.527	0.000	0.0
1.001	1.950	137.9	21.7	1.527	1.793	0.120	0.0
1.002	1.745	123.3	30.4	1.793	1.660	0.168	0.0
1.003	1.886	133.3	42.6	1.660	1.350	0.241	0.0
1.004	4.562	322.5	52.6	1.350	1.593	0.298	0.0
1.005	3.870	273.6	58.5	1.593	2.310	0.333	0.0
1.006	3.146	222.4	61.4	2.310	1.613	0.355	0.0
2.000	11.809	208.7	0.0	1.050	1.238	0.000	0.0
1.007	2.208	243.8	71.9	1.613	1.738	0.427	0.0
3.000	3.204	56.6	0.0	0.750	1.839	0.000	0.0
3.001	2.197	38.8	8.3	1.839	2.135	0.046	0.0
3.002	3.372	59.6	16.7	2.135	2.701	0.093	0.0
4.000	1.092	19.3	20.8	0.350	1.525	0.115	0.0
4.001	1.281	22.6	20.8	1.525	2.113	0.115	0.0
4.002	0.847	15.0	28.9	2.113	2.701	0.160	0.0
3.003	1.280	50.9	47.8	2.701	2.683	0.265	0.0
3.004	0.967	38.4	49.2	2.683	2.141	0.276	0.0
3.005	1.776	196.2	57.4	2.141	1.738	0.324	0.0
1.008	9.016	995.8	137.4	1.738	2.991	0.817	0.0
1.009	5.626	621.3	136.9	2.991	1.915	0.817	0.0
5.000	2.519	44.5	2.3	2.035	2.680	0.013	0.0
6.000	5.027	88.8	0.0	1.080	2.680	0.000	0.0
5.001	2.957	117.6	12.3	2.605	1.300	0.068	0.0
7.000	2.106	83.7	16.3	1.765	1.300	0.090	0.0
5.002	4.352	307.6	39.2	1.300	1.501	0.217	0.0
5.003	3.463	244.8	49.5	1.501	1.964	0.274	0.0
8.000	2.524	44.6	5.7	1.493	1.839	0.032	0.0

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)
8.001	28	29	18.000	0.600	32.700	31.650	1.050	17.1	150	5.21	50.0
5.004	29	34	32.024	0.600	31.500	30.575	0.925	34.6	375	5.77	50.0
9.000	30	31	9.129	0.600	31.200	31.100	0.100	91.3	375	5.08	50.0
9.001	31	32	14.322	0.600	31.025	30.775	0.250	57.3	450	5.17	50.0
9.002	32	33	36.000	0.600	30.775	30.560	0.215	167.4	450	5.55	50.0
9.003	33	34	6.045	0.600	30.560	30.500	0.060	100.8	450	5.60	50.0
5.005	34	36	49.364	0.600	30.500	29.750	0.750	65.8	450	6.09	50.0
10.000	35	36	16.820	0.600	31.000	29.900	1.100	15.3	300	5.07	50.0
5.006	36	37	13.641	0.600	29.750	29.650	0.100	136.4	450	6.23	49.9
5.007	37	38	21.845	0.600	29.650	29.500	0.150	145.6	450	6.44	49.1
5.008	38	39	13.000	0.600	29.500	29.310	0.190	68.4	450	6.53	48.8
1.010	39	40	10.000	0.600	29.300	29.075	0.225	44.4	225	7.39	46.1
1.011	40	40_OUT	20.000	0.600	29.075	29.000	0.075	266.7	225	7.81	44.9

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
8.001	2.444	43.2	8.0	1.839	1.964	0.045	0.0
5.004	3.088	341.0	65.0	1.889	1.471	0.360	0.0
9.000	1.897	209.5	5.2	1.210	1.083	0.029	0.0
9.001	2.690	427.8	8.5	1.083	0.985	0.047	0.0
9.002	1.568	249.4	16.4	0.985	1.315	0.091	0.0
9.003	2.025	322.1	18.8	1.315	1.471	0.104	0.0
5.005	2.509	399.0	97.8	1.471	2.975	0.542	0.0
10.000	4.040	285.6	8.6	2.460	2.975	0.048	0.0
5.006	1.739	276.5	111.5	2.975	1.532	0.619	0.0
5.007	1.682	267.5	112.0	1.532	1.656	0.631	0.0
5.008	2.460	391.3	111.4	1.656	1.840	0.631	0.0
1.010	1.967	78.2	254.7	2.075	2.600	1.528	0.0
1.011	0.796	31.6	247.9	2.600	0.374	1.528	0.0

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	12.028	53.5	225	Circular	41.019	39.800	0.994	41.327	39.575	1.527
1.001	33.819	65.2	300	Circular	41.327	39.500	1.527	41.074	38.981	1.793
1.002	79.750	81.3	300	Circular	41.074	38.981	1.793	39.960	38.000	1.660
1.003	34.835	69.7	300	Circular	39.960	38.000	1.660	39.150	37.500	1.350
1.004	6.000	12.0	300	Circular	39.150	37.500	1.350	38.893	37.000	1.593
1.005	16.659	16.7	300	Circular	38.893	37.000	1.593	38.610	36.000	2.310
1.006	48.444	25.2	300	Circular	38.610	36.000	2.310	35.988	34.075	1.613
2.000	2.000	0.7	150	Circular	38.500	37.300	1.050	35.988	34.600	1.238
1.007	53.997	67.5	375	Circular	35.988	34.000	1.613	35.313	33.200	1.738
3.000	5.000	10.0	150	Circular	37.800	36.900	0.750	38.389	36.400	1.839

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	3	1200	Manhole	Adoptable
1.002	3	1200	Manhole	Adoptable	4		Manhole	Adoptable
1.003	4		Manhole	Adoptable	5	1350	Manhole	Adoptable
1.004	5	1350	Manhole	Adoptable	6	1350	Manhole	Adoptable
1.005	6	1350	Manhole	Adoptable	7	1200	Manhole	Adoptable
1.006	7	1200	Manhole	Adoptable	9	1200	Manhole	Adoptable
2.000	8		Manhole	Adoptable	9	1200	Manhole	Adoptable
1.007	9	1200	Manhole	Adoptable	19	1200	Manhole	Adoptable
3.000	10		Manhole	Adoptable	11	1200	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)
3.001	38.166	21.2	150	Circular	38.389	36.400	1.839	36.885	34.600	2.135
3.002	7.000	9.0	150	Circular	36.885	34.600	2.135	36.676	33.825	2.701
4.000	8.480	84.8	150	Circular	34.800	34.300	0.350	35.875	34.200	1.525
4.001	17.000	61.8	150	Circular	35.875	34.200	1.525	36.188	33.925	2.113
4.002	14.000	140.0	150	Circular	36.188	33.925	2.113	36.676	33.825	2.701
3.003	10.430	104.3	225	Circular	36.676	33.750	2.701	36.558	33.650	2.683
3.004	36.310	181.6	225	Circular	36.558	33.650	2.683	35.816	33.450	2.141
3.005	10.399	104.0	375	Circular	35.816	33.300	2.141	35.313	33.200	1.738
1.008	8.168	4.1	375	Circular	35.313	33.200	1.738	34.566	31.200	2.991
1.009	19.789	10.5	375	Circular	34.566	31.200	2.991	31.600	29.310	1.915
5.000	24.217	16.1	150	Circular	40.185	38.000	2.035	39.330	36.500	2.680
6.000	6.520	4.1	150	Circular	39.330	38.100	1.080	39.330	36.500	2.680
5.001	43.950	19.8	225	Circular	39.330	36.500	2.605	35.800	34.275	1.300
7.000	28.136	38.8	225	Circular	36.990	35.000	1.765	35.800	34.275	1.300
5.002	22.413	13.2	300	Circular	35.800	34.200	1.300	34.301	32.500	1.501
5.003	20.787	20.8	300	Circular	34.301	32.500	1.501	33.764	31.500	1.964
8.000	12.869	16.1	150	Circular	35.143	33.500	1.493	34.689	32.700	1.839
8.001	18.000	17.1	150	Circular	34.689	32.700	1.839	33.764	31.650	1.964
5.004	32.024	34.6	375	Circular	33.764	31.500	1.889	32.421	30.575	1.471
9.000	9.129	91.3	375	Circular	32.785	31.200	1.210	32.558	31.100	1.083
9.001	14.322	57.3	450	Circular	32.558	31.025	1.083	32.210	30.775	0.985
9.002	36.000	167.4	450	Circular	32.210	30.775	0.985	32.325	30.560	1.315
9.003	6.045	100.8	450	Circular	32.325	30.560	1.315	32.421	30.500	1.471
5.005	49.364	65.8	450	Circular	32.421	30.500	1.471	33.175	29.750	2.975
10.000	16.820	15.3	300	Circular	33.760	31.000	2.460	33.175	29.900	2.975
5.006	13.641	136.4	450	Circular	33.175	29.750	2.975	31.632	29.650	1.532
5.007	21.845	145.6	450	Circular	31.632	29.650	1.532	31.606	29.500	1.656
5.008	13.000	68.4	450	Circular	31.606	29.500	1.656	31.600	29.310	1.840

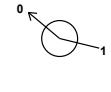
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.001	11	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable
3.002	12	1200	Manhole	Adoptable	16	1200	Manhole	Adoptable
4.000	13		Junction		14	1500	Manhole	Adoptable
4.001	14	1500	Manhole	Adoptable	15	1350	Manhole	Adoptable
4.002	15	1350	Manhole	Adoptable	16	1200	Manhole	Adoptable
3.003	16	1200	Manhole	Adoptable	17	1200	Manhole	Adoptable
3.004	17	1200	Manhole	Adoptable	18	1350	Manhole	Adoptable
3.005	18	1350	Manhole	Adoptable	19	1200	Manhole	Adoptable
1.008	19	1200	Manhole	Adoptable	20	1350	Manhole	Adoptable
1.009	20	1350	Manhole	Adoptable	39	1200	Manhole	Adoptable
5.000	21	1200	Manhole	Adoptable	23	1200	Manhole	Adoptable
6.000	22		Manhole	Adoptable	23	1200	Manhole	Adoptable
5.001	23	1200	Manhole	Adoptable	25	1200	Manhole	Adoptable
7.000	24	1200	Manhole	Adoptable	25	1200	Manhole	Adoptable
5.002	25	1200	Manhole	Adoptable	26	1200	Manhole	Adoptable
5.003	26	1200	Manhole	Adoptable	29	1200	Manhole	Adoptable
8.000	27	1200	Manhole	Adoptable	28	1200	Manhole	Adoptable
8.001	28	1200	Manhole	Adoptable	29	1200	Manhole	Adoptable
5.004	29	1200	Manhole	Adoptable	34	1200	Manhole	Adoptable
9.000	30	1200	Manhole	Adoptable	31	1200	Manhole	Adoptable
9.001	31	1200	Manhole	Adoptable	32	1350	Manhole	Adoptable
9.002	32	1350	Manhole	Adoptable	33	1200	Manhole	Adoptable
9.003	33	1200	Manhole	Adoptable	34	1200	Manhole	Adoptable
5.005	34	1200	Manhole	Adoptable	36	1200	Manhole	Adoptable
10.000	35	1200	Manhole	Adoptable	36	1200	Manhole	Adoptable
5.006	36	1200	Manhole	Adoptable	37	1200	Manhole	Adoptable
5.007	37	1200	Manhole	Adoptable	38	1200	Manhole	Adoptable
5.008	38	1200	Manhole	Adoptable	39	1200	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)
1.010	10.000	44.4	225	Circular	31.600	29.300	2.075	31.900	29.075	2.600
1.011	20.000	266.7	225	Circular	31.900	29.075	2.600	29.599	29.000	0.374

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.010	39	1200	Manhole	Adoptable	40	1800	Manhole	Adoptable
1.011	40	1800	Manhole	Adoptable	40_OUT	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	535175.917	124783.023	41.019	1.219	1200		0	1.000	39.800	225
2	535183.416	124792.265	41.327	1.827	1200		1	1.000	39.575	225
						0	1.001	39.500	300	
3	535203.531	124819.451	41.074	2.093	1200		1	1.001	38.981	300
						0	1.002	38.981	300	
4	535223.122	124859.868	39.960	1.960			1	1.002	38.000	300
						0	1.003	38.000	300	
5	535238.389	124891.179	39.150	1.650	1350		1	1.003	37.500	300
						0	1.004	37.500	300	
6	535238.694	124899.719	38.893	1.893	1350		1	1.004	37.000	300
						0	1.005	37.000	300	
7	535222.507	124903.657	38.610	2.610	1200		1	1.005	36.000	300
						0	1.006	36.000	300	
8	535204.888	124911.119	38.500	1.200			0	2.000	37.300	150
9	535185.332	124934.719	35.988	1.988	1200		1	2.000	34.600	150
						2	1.006	34.075	300	
						0	1.007	34.000	375	
10	535255.348	124911.465	37.800	0.900			0	3.000	36.900	150
11	535244.277	124919.472	38.389	1.989	1200		1	3.000	36.400	150
						0	3.001	36.400	150	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
12	535269.900	124947.915	36.885	2.285	1200		1 3.001	34.600	150
13	535321.562	124934.292	34.800	0.500			0 3.002	34.600	150
14	535313.125	124935.146	35.875	1.675	1500		1 4.000	34.200	150
15	535288.290	124959.141	36.188	2.263	1350		1 4.001	33.925	150
16	535271.331	124955.560	36.676	2.926	1200		1 4.002	33.825	150
17	535263.093	124961.957	36.558	2.908	1200		1 3.003	33.650	225
18	535231.055	124979.045	35.816	2.516	1350		1 3.004	33.450	225
19	535221.698	124974.728	35.313	2.113	1200		1 3.005	33.200	375
20	535215.459	124979.917	34.566	3.366	1350		1 1.007	33.200	375
21	535204.254	124851.190	40.185	2.185	1200		0 1.008	33.200	375
22	535181.201	124855.786	39.330	1.230			0 1.009	31.200	375
23	535182.655	124862.142	39.330	2.830	1200		1 5.000	38.000	150
24	535131.069	124869.052	36.990	1.990	1200		0 6.000	38.100	150
25	535149.162	124890.599	35.800	1.600	1200		1 7.000	35.000	225
							2 5.001	34.275	225
							0 5.002	34.200	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
26	535131.952	124904.958	34.301	1.801	1200		1 5.002	32.500	300
27	535101.068	124874.130	35.143	1.643	1200		0 5.003	32.500	300
28	535109.305	124884.017	34.689	1.989	1200		1 8.000	32.700	150
29	535111.391	124901.895	33.764	2.264	1200		0 8.001	32.700	150
30	535073.413	124901.676	32.785	1.585	1200		1 8.001	31.650	150
31	535067.188	124908.376	32.558	1.533	1200		2 5.003	31.500	300
32	535064.309	124922.471	32.210	1.435	1350		0 5.004	31.500	375
33	535098.002	124934.208	32.325	1.765	1200		0 9.000	31.200	375
34	535103.933	124933.039	32.421	1.921	1200		1 9.000	31.100	375
35	535156.379	124942.718	33.760	2.760	1200		0 9.001	31.025	450
36	535147.238	124956.735	33.175	3.425	1200		1 9.001	30.775	450
37	535142.408	124969.492	31.632	1.982	1200		0 9.002	30.775	450
38	535160.975	124981.002	31.606	2.106	1200		1 9.002	30.560	450
39	535187.072	124989.783	31.600	2.300	1200		0 9.003	30.560	450
							1 9.003	30.500	450
							2 5.004	30.575	375
							0 5.005	30.500	450
							0 10.000	31.000	300
							1 10.000	29.900	300
							2 5.005	29.750	450
							0 5.006	29.750	450
							1 5.006	29.650	450
							0 5.007	29.650	450
							1 5.007	29.500	450
							0 5.008	29.500	450
							1 5.008	29.310	450
							2 1.009	29.310	375
							0 1.010	29.300	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
40	535180.294	125001.874	31.900	2.825	1800	 1	1.010	29.075	225
40_OUT	535169.436	125021.971	29.599	0.599	1200	 1	1.011	29.075	225
~~J1	535174.609	124847.972	39.330	1.203					
~~J2	535200.818	124904.536	38.500	1.198					
~~J3	535267.061	124903.152	37.800	0.898					

Node 40 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	29.075	Product Number	CTL-SHE-0154-1460-2300-1460
Design Depth (m)	2.300	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	14.6	Min Node Diameter (mm)	1800

Node 22 Online Orifice Control

Flap Valve	x	Invert Level (m)	38.100	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.020		

Node 8 Online Orifice Control

Flap Valve	x	Invert Level (m)	37.300	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.020		

Node 10 Online Orifice Control

Flap Valve	x	Invert Level (m)	36.900	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.020		

Node 14 Online Orifice Control

Flap Valve	x	Invert Level (m)	34.200	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.020		

Node 39 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	29.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	1050

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	225.0	0.0	2.300	800.0	0.0

Node 22 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	100	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	1.000	Invert Level (m)	38.125
Underdrain Slope (1:X)	500.0	Time to half empty (mins)	632
Underdrain Height above base (m)	0.000		

Inlets
~~J1

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	127.0	0.0	1.200	127.0	0.0

Node 8 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	100	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	1.000	Invert Level (m)	37.300
Underdrain Slope (1:X)	500.0	Time to half empty (mins)	615
Underdrain Height above base (m)	0.000		

Inlets
~~J2

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	125.0	0.0	1.200	125.0	0.0

Node 10 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	100	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	1.000	Invert Level (m)	36.900
Underdrain Slope (1:X)	500.0	Time to half empty (mins)	795
Underdrain Height above base (m)	0.000		

Inlets
~~J3

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	170.0	0.0	0.900	170.0	0.0

Node 13 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	34.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	245.0	0.0	0.500	245.0	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	73.507	20.800	30 year +40% CC 240 minute summer	66.163	17.485
1 year 15 minute winter	51.584	20.800	30 year +40% CC 240 minute winter	43.957	17.485
1 year 30 minute summer	47.948	13.568	30 year +40% CC 360 minute summer	49.656	12.778
1 year 30 minute winter	33.648	13.568	30 year +40% CC 360 minute winter	32.278	12.778
1 year 60 minute summer	32.765	8.659	30 year +40% CC 480 minute summer	38.664	10.218
1 year 60 minute winter	21.768	8.659	30 year +40% CC 480 minute winter	25.688	10.218
1 year 120 minute summer	24.734	6.536	30 year +40% CC 600 minute summer	31.414	8.593
1 year 120 minute winter	16.433	6.536	30 year +40% CC 600 minute winter	21.464	8.593
1 year 180 minute summer	20.643	5.312	30 year +40% CC 720 minute summer	27.840	7.461
1 year 180 minute winter	13.418	5.312	30 year +40% CC 720 minute winter	18.710	7.461
1 year 240 minute summer	17.082	4.514	30 year +40% CC 960 minute summer	22.716	5.982
1 year 240 minute winter	11.349	4.514	30 year +40% CC 960 minute winter	15.048	5.982
1 year 360 minute summer	13.658	3.515	30 year +40% CC 1440 minute summer	16.434	4.404
1 year 360 minute winter	8.878	3.515	30 year +40% CC 1440 minute winter	11.044	4.404
1 year 480 minute summer	11.006	2.909	100 year 15 minute summer	364.161	103.045
1 year 480 minute winter	7.312	2.909	100 year 15 minute winter	255.551	103.045
1 year 600 minute summer	9.142	2.501	100 year 30 minute summer	245.413	69.444
1 year 600 minute winter	6.246	2.501	100 year 30 minute winter	172.220	69.444
1 year 720 minute summer	8.227	2.205	100 year 60 minute summer	169.361	44.757
1 year 720 minute winter	5.529	2.205	100 year 60 minute winter	112.519	44.757
1 year 960 minute summer	6.844	1.802	100 year 120 minute summer	99.810	26.377
1 year 960 minute winter	4.534	1.802	100 year 120 minute winter	66.311	26.377
1 year 1440 minute summer	5.093	1.365	100 year 180 minute summer	75.048	19.312
1 year 1440 minute winter	3.423	1.365	100 year 180 minute winter	48.783	19.312
2 year 15 minute summer	111.446	31.535	100 year 240 minute summer	58.525	15.466
2 year 15 minute winter	78.208	31.535	100 year 240 minute winter	38.883	15.466
2 year 30 minute summer	72.877	20.622	100 year 360 minute summer	43.901	11.297
2 year 30 minute winter	51.142	20.622	100 year 360 minute winter	28.537	11.297
2 year 60 minute summer	49.834	13.170	100 year 480 minute summer	34.295	9.063
2 year 60 minute winter	33.108	13.170	100 year 480 minute winter	22.785	9.063
2 year 120 minute summer	34.704	9.171	100 year 600 minute summer	27.983	7.654
2 year 120 minute winter	23.057	9.171	100 year 600 minute winter	19.120	7.654
2 year 180 minute summer	27.984	7.201	100 year 720 minute summer	24.912	6.677
2 year 180 minute winter	18.190	7.201	100 year 720 minute winter	16.743	6.677
2 year 240 minute summer	22.692	5.997	100 year 960 minute summer	20.516	5.402
2 year 240 minute winter	15.076	5.997	100 year 960 minute winter	13.590	5.402
2 year 360 minute summer	17.727	4.562	100 year 1440 minute summer	14.988	4.017
2 year 360 minute winter	11.523	4.562	100 year 1440 minute winter	10.073	4.017
2 year 480 minute summer	14.094	3.725	100 year +45% CC 15 minute summer	528.033	149.415
2 year 480 minute winter	9.363	3.725	100 year +45% CC 15 minute winter	370.549	149.415
2 year 600 minute summer	11.601	3.173	100 year +45% CC 30 minute summer	355.849	100.693
2 year 600 minute winter	7.926	3.173	100 year +45% CC 30 minute winter	249.719	100.693
2 year 720 minute summer	10.373	2.780	100 year +45% CC 60 minute summer	245.573	64.898
2 year 720 minute winter	6.971	2.780	100 year +45% CC 60 minute winter	163.153	64.898
2 year 960 minute summer	8.562	2.255	100 year +45% CC 120 minute summer	144.724	38.246
2 year 960 minute winter	5.671	2.255	100 year +45% CC 120 minute winter	96.151	38.246
2 year 1440 minute summer	6.275	1.682	100 year +45% CC 180 minute summer	108.819	28.003
2 year 1440 minute winter	4.217	1.682	100 year +45% CC 180 minute winter	70.735	28.003
30 year +40% CC 15 minute summer	403.883	114.285	100 year +45% CC 240 minute summer	84.861	22.426
30 year +40% CC 15 minute winter	283.426	114.285	100 year +45% CC 240 minute winter	56.380	22.426
30 year +40% CC 30 minute summer	269.549	76.273	100 year +45% CC 360 minute summer	63.657	16.381
30 year +40% CC 30 minute winter	189.157	76.273	100 year +45% CC 360 minute winter	41.379	16.381
30 year +40% CC 60 minute summer	184.782	48.832	100 year +45% CC 480 minute summer	49.728	13.142
30 year +40% CC 60 minute winter	122.765	48.832	100 year +45% CC 480 minute winter	33.038	13.142
30 year +40% CC 120 minute summer	111.444	29.451	100 year +45% CC 600 minute summer	40.576	11.098
30 year +40% CC 120 minute winter	74.041	29.451	100 year +45% CC 600 minute winter	27.724	11.098
30 year +40% CC 180 minute summer	84.536	21.754	100 year +45% CC 720 minute summer	36.123	9.681
30 year +40% CC 180 minute winter	54.951	21.754	100 year +45% CC 720 minute winter	24.277	9.681

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year +45% CC 960 minute summer	29.749	7.834	100 year +45% CC 1440 minute summer	21.732	5.824
100 year +45% CC 960 minute winter	19.706	7.834	100 year +45% CC 1440 minute winter	14.605	5.824

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	39.800	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2	10	39.565	0.065	14.4	0.0731	0.0000	OK
15 minute summer	3	11	39.061	0.080	20.0	0.0906	0.0000	OK
15 minute summer	4	11	38.099	0.099	27.9	0.0000	0.0000	OK
15 minute summer	5	11	37.572	0.072	34.4	0.1034	0.0000	OK
15 minute summer	6	11	37.077	0.077	38.3	0.1106	0.0000	OK
15 minute summer	7	11	36.088	0.088	40.9	0.0999	0.0000	OK
480 minute summer	8	328	37.480	0.180	0.8	6.7115	0.0000	SURCHARGED
15 minute summer	9	11	34.123	0.123	48.9	0.1395	0.0000	OK
600 minute winter	10	435	37.043	0.143	0.5	7.2386	0.0000	OK
15 minute summer	11	10	36.438	0.038	5.6	0.0433	0.0000	OK
15 minute summer	12	10	34.647	0.047	11.1	0.0529	0.0000	OK
960 minute summer	13	705	34.384	0.084	2.2	20.4985	0.0000	OK
960 minute summer	14	705	34.384	0.184	1.2	0.3245	0.0000	SURCHARGED
15 minute summer	15	11	33.989	0.064	5.4	0.0914	0.0000	OK
15 minute summer	16	11	33.851	0.101	17.6	0.1140	0.0000	OK
15 minute summer	17	11	33.764	0.114	18.9	0.1293	0.0000	OK
15 minute summer	18	11	33.396	0.096	24.4	0.1375	0.0000	OK
15 minute summer	19	11	33.275	0.075	80.6	0.0845	0.0000	OK
15 minute summer	20	11	31.293	0.093	80.0	0.1336	0.0000	OK
15 minute summer	21	10	38.019	0.019	1.6	0.0219	0.0000	OK
480 minute summer	22	328	38.321	0.221	1.0	7.4322	0.0000	SURCHARGED
15 minute summer	23	11	36.540	0.040	8.4	0.0457	0.0000	OK
15 minute summer	24	10	35.055	0.055	10.8	0.0625	0.0000	OK
15 minute summer	25	10	34.258	0.058	25.8	0.0660	0.0000	OK
15 minute summer	26	10	32.573	0.073	32.5	0.0828	0.0000	OK
15 minute summer	27	10	33.530	0.030	3.8	0.0334	0.0000	OK
15 minute summer	28	10	32.736	0.036	5.4	0.0411	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	0.0	0.000	0.000	0.0000	
15 minute summer	2	1.001	3	14.2	1.114	0.103	0.4394	
15 minute summer	3	1.002	4	19.6	1.114	0.159	1.4108	
15 minute summer	4	1.003	5	27.9	1.681	0.209	0.5805	
15 minute summer	5	1.004	6	34.3	2.509	0.106	0.0821	
15 minute summer	6	1.005	7	38.3	2.426	0.140	0.2635	
15 minute summer	7	1.006	9	40.6	2.388	0.182	0.8232	
480 minute summer	8	2.000	9	0.3	2.190	0.002	0.0003	
15 minute summer	9	1.007	19	48.6	2.093	0.199	1.2711	
600 minute winter	10	3.000	11	0.3	0.690	0.005	0.0036	
15 minute summer	11	3.001	12	5.5	1.347	0.142	0.1569	
15 minute summer	12	3.002	16	11.0	2.463	0.185	0.0313	
960 minute summer	13	4.000	14	1.2	0.128	0.065	0.1175	
960 minute summer	14	4.001	15	0.3	0.397	0.015	0.0264	
15 minute summer	15	4.002	16	5.3	0.760	0.353	0.0974	
15 minute summer	16	3.003	17	17.6	0.968	0.346	0.1953	
15 minute summer	17	3.004	18	18.9	0.955	0.491	0.7180	
15 minute summer	18	3.005	19	24.4	1.296	0.124	0.1965	
15 minute summer	19	1.008	20	80.0	4.419	0.080	0.1507	
15 minute summer	20	1.009	39	80.5	3.665	0.130	0.7328	
15 minute summer	21	5.000	23	1.6	0.633	0.035	0.0623	
480 minute summer	22	6.000	23	0.4	0.958	0.004	0.0062	
15 minute summer	23	5.001	25	8.2	1.700	0.069	0.2108	
15 minute summer	24	7.000	25	10.6	1.434	0.127	0.2088	
15 minute summer	25	5.002	26	25.7	2.258	0.084	0.2565	
15 minute summer	26	5.003	29	32.3	2.066	0.132	0.3262	
15 minute summer	27	8.000	28	3.8	1.321	0.085	0.0369	
15 minute summer	28	8.001	29	5.3	1.638	0.123	0.0582	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	29	11	31.592	0.092	42.5	0.1036	0.0000	OK
15 minute summer	30	10	31.235	0.035	3.5	0.0390	0.0000	OK
15 minute summer	31	10	31.061	0.036	5.6	0.0405	0.0000	OK
15 minute summer	32	10	30.832	0.057	8.7	0.0820	0.0000	OK
15 minute summer	9.002:50%	11	30.732	0.064	10.7	0.1280	0.0000	OK
15 minute summer	33	11	30.624	0.064	12.3	0.0719	0.0000	OK
15 minute summer	34	11	30.618	0.118	58.1	0.1329	0.0000	OK
15 minute summer	5.005:50%	11	30.245	0.120	63.8	0.0000	0.0000	OK
15 minute summer	35	10	31.030	0.030	5.7	0.0336	0.0000	OK
15 minute summer	36	11	29.926	0.176	72.8	0.1994	0.0000	OK
15 minute summer	37	11	29.822	0.172	74.2	0.1946	0.0000	OK
240 minute summer	38	168	29.781	0.281	39.8	0.3175	0.0000	OK
240 minute summer	39	172	29.747	0.447	77.5	126.0584	0.0000	SURCHARGED
240 minute summer	40	172	29.737	0.662	15.2	1.6835	0.0000	SURCHARGED
240 minute summer	40_OUT	168	29.099	0.099	14.5	0.0000	0.0000	OK
480 minute summer	~~J1	328	38.323	0.196	1.8	0.0000	0.0000	OK
480 minute summer	~~J2	320	37.482	0.180	1.5	0.0000	0.0000	OK
600 minute winter	~~J3	435	37.044	0.142	0.9	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 summer	29	5.004	34	42.4	2.094	0.124	0.6492	
15 minute summer	30	9.000	31	3.4	0.704	0.016	0.0447	
15 minute summer	31	9.001	32	5.6	0.650	0.013	0.1256	
15 minute summer	32	9.002	9.002:50%	8.6	0.681	0.035	0.2288	
15 minute summer	32	9.002	33	10.8	0.790	0.043	0.2465	
15 minute summer	33	9.003	34	12.3	0.550	0.038	0.1406	
15 minute summer	34	5.005	5.005:50%	58.3	1.748	0.146	0.8235	
15 minute summer	34	5.005	36	63.9	1.407	0.160	1.1278	
15 minute summer	35	10.000	36	5.6	1.592	0.020	0.0596	
15 minute summer	36	5.006	37	72.8	1.286	0.263	0.7724	
15 minute summer	37	5.007	38	74.0	1.475	0.277	1.0969	
240 minute summer	38	5.008	39	53.1	0.851	0.136	1.6969	
240 minute summer	39	1.010	40	15.2	0.492	0.194	0.3977	
240 minute summer	40	1.011	40_OUT	14.5	0.798	0.457	0.3629	302.9
480 minute summer	~~J1	Porous Paving	22	1.0	0.136	0.362		
480 minute summer	~~J2	Porous Paving	8	0.8	0.104	0.308		
600 minute winter	~~J3	Porous Paving	10	0.5	0.110	0.203		

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	39.800	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2	10	39.580	0.080	21.8	0.0901	0.0000	OK
15 minute summer	3	11	39.080	0.099	30.3	0.1123	0.0000	OK
15 minute summer	4	11	38.124	0.124	42.4	0.0000	0.0000	OK
15 minute summer	5	11	37.592	0.092	52.4	0.1319	0.0000	OK
15 minute summer	6	11	37.097	0.097	58.5	0.1393	0.0000	OK
15 minute summer	7	11	36.111	0.111	62.5	0.1258	0.0000	OK
480 minute summer	8	328	37.543	0.243	1.1	9.0732	0.0000	SURCHARGED
15 minute summer	9	11	34.155	0.155	75.0	0.1754	0.0000	OK
480 minute summer	10	336	37.090	0.190	1.1	9.6269	0.0000	SURCHARGED
15 minute summer	11	10	36.448	0.048	8.5	0.0538	0.0000	OK
15 minute summer	12	10	34.659	0.059	16.9	0.0666	0.0000	OK
600 minute winter	13	570	34.409	0.109	2.7	26.6752	0.0000	OK
600 minute winter	14	570	34.409	0.209	1.3	0.3690	0.0000	SURCHARGED
15 minute summer	15	10	34.007	0.082	8.2	0.1171	0.0000	OK
15 minute summer	16	10	33.883	0.133	27.0	0.1505	0.0000	OK
15 minute summer	17	11	33.801	0.151	28.9	0.1707	0.0000	OK
15 minute summer	18	11	33.420	0.120	37.1	0.1721	0.0000	OK
15 minute summer	19	11	33.296	0.096	123.5	0.1086	0.0000	OK
15 minute summer	20	10	31.315	0.115	123.0	0.1642	0.0000	OK
15 minute summer	21	10	38.024	0.024	2.4	0.0267	0.0000	OK
360 minute summer	22	264	38.390	0.290	1.5	10.0885	0.0000	SURCHARGED
15 minute summer	23	10	36.550	0.050	12.6	0.0562	0.0000	OK
15 minute summer	24	10	35.069	0.069	16.4	0.0778	0.0000	OK
15 minute summer	25	10	34.272	0.072	39.2	0.0811	0.0000	OK
15 minute summer	26	10	32.592	0.092	49.4	0.1037	0.0000	OK
15 minute summer	27	10	33.536	0.036	5.7	0.0410	0.0000	OK
15 minute summer	28	10	32.745	0.045	8.1	0.0509	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	0.0	0.000	0.000	0.0011	
15 minute summer	2	1.001	3	21.6	1.240	0.157	0.5926	
15 minute summer	3	1.002	4	29.7	1.246	0.241	1.9096	
15 minute summer	4	1.003	5	42.5	1.856	0.319	0.7996	
15 minute summer	5	1.004	6	52.4	2.749	0.163	0.1144	
15 minute summer	6	1.005	7	58.6	2.693	0.214	0.3626	
15 minute summer	7	1.006	9	62.3	2.682	0.280	1.1254	
480 minute summer	8	2.000	9	0.4	2.295	0.002	0.0004	
15 minute summer	9	1.007	19	74.9	2.318	0.307	1.7610	
480 minute summer	10	3.000	11	0.4	0.735	0.006	0.0053	
15 minute summer	11	3.001	12	8.4	1.508	0.217	0.2137	
15 minute summer	12	3.002	16	16.9	2.673	0.283	0.0445	
600 minute winter	13	4.000	14	1.3	0.156	0.070	0.1327	
600 minute winter	14	4.001	15	0.4	0.407	0.016	0.0279	
15 minute summer	15	4.002	16	8.0	0.842	0.535	0.1332	
15 minute summer	16	3.003	17	26.8	1.047	0.526	0.2745	
15 minute summer	17	3.004	18	28.8	1.054	0.749	0.9926	
15 minute summer	18	3.005	19	37.1	1.414	0.189	0.2739	
15 minute summer	19	1.008	20	123.0	4.954	0.124	0.2031	
15 minute summer	20	1.009	39	123.0	3.966	0.198	1.1104	
15 minute summer	21	5.000	23	2.4	0.715	0.053	0.0831	
360 minute summer	22	6.000	23	0.4	1.023	0.005	0.0080	
15 minute summer	23	5.001	25	12.3	1.916	0.105	0.2822	
15 minute summer	24	7.000	25	16.2	1.610	0.193	0.2827	
15 minute summer	25	5.002	26	39.0	2.518	0.127	0.3485	
15 minute summer	26	5.003	29	49.1	2.300	0.201	0.4446	
15 minute summer	27	8.000	28	5.7	1.476	0.127	0.0496	
15 minute summer	28	8.001	29	8.0	1.838	0.185	0.0784	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	29	10	31.614	0.114	64.6	0.1290	0.0000	OK
15 minute summer	30	10	31.242	0.042	5.3	0.0480	0.0000	OK
15 minute summer	31	10	31.068	0.043	8.5	0.0492	0.0000	OK
15 minute summer	32	10	30.845	0.070	13.2	0.1009	0.0000	OK
15 minute summer	9.002:50%	11	30.746	0.078	16.2	0.1920	0.0000	OK
15 minute summer	33	11	30.648	0.088	18.6	0.0998	0.0000	OK
15 minute summer	34	11	30.647	0.147	88.1	0.1658	0.0000	OK
15 minute summer	5.005:50%	11	30.275	0.150	96.6	0.0000	0.0000	OK
15 minute summer	35	10	31.036	0.036	8.6	0.0402	0.0000	OK
15 minute summer	36	11	29.978	0.228	110.5	0.2575	0.0000	OK
240 minute summer	37	180	29.919	0.269	39.4	0.3038	0.0000	OK
240 minute summer	38	168	29.936	0.436	45.1	0.4929	0.0000	OK
240 minute summer	39	180	29.913	0.613	124.6	185.5873	0.0000	SURCHARGED
240 minute summer	40	184	29.901	0.826	15.7	2.1032	0.0000	SURCHARGED
480 minute summer	40_OUT	288	29.099	0.099	14.6	0.0000	0.0000	OK
360 minute summer	~~J1	256	38.393	0.266	2.9	0.0000	0.0000	OK
480 minute summer	~~J2	328	37.545	0.243	2.0	0.0000	0.0000	OK
480 minute summer	~~J3	336	37.092	0.190	2.0	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	29	5.004	34	64.2	2.343	0.188	0.8777	
15 minute summer	30	9.000	31	5.2	0.793	0.025	0.0603	
15 minute summer	31	9.001	32	8.5	0.730	0.020	0.1690	
15 minute summer	32	9.002	9.002:50%	12.9	0.764	0.052	0.3069	
15 minute summer	32	9.002	33	16.3	0.809	0.065	0.3630	
15 minute summer	33	9.003	34	18.6	0.593	0.058	0.2014	
15 minute summer	34	5.005	5.005:50%	88.3	1.943	0.221	1.1221	
15 minute summer	34	5.005	36	97.0	1.539	0.243	1.5623	
15 minute summer	35	10.000	36	8.6	1.639	0.030	0.1597	
15 minute summer	36	5.006	37	110.7	1.409	0.400	1.0714	
240 minute summer	37	5.007	38	40.2	1.302	0.150	2.7315	
240 minute summer	38	5.008	39	76.7	0.817	0.196	2.0506	
240 minute summer	39	1.010	40	15.7	0.453	0.201	0.3977	
240 minute summer	40	1.011	40_OUT	14.6	0.799	0.460	0.3646	402.2
360 minute summer	~~J1	Porous Paving	22	1.4	0.178	0.526		
480 minute summer	~~J2	Porous Paving	8	1.0	0.134	0.395		
480 minute summer	~~J3	Porous Paving	10	1.0	0.130	0.385		

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	39.800	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2	10	39.668	0.168	79.2	0.1897	0.0000	OK
15 minute summer	3	11	39.209	0.228	110.2	0.2575	0.0000	OK
15 minute summer	4	11	38.534	0.534	155.0	0.0000	0.0000	SURCHARGED
15 minute summer	5	11	37.717	0.217	185.0	0.3107	0.0000	OK
15 minute summer	6	12	37.260	0.260	206.8	0.3719	0.0000	OK
15 minute summer	7	12	36.618	0.618	215.8	0.6990	0.0000	SURCHARGED
360 minute winter	8	336	38.063	0.763	2.3	28.5845	0.0000	SURCHARGED
15 minute summer	9	12	34.572	0.572	253.7	0.6468	0.0000	SURCHARGED
360 minute winter	10	344	37.485	0.585	2.3	29.8153	0.0000	SURCHARGED
15 minute summer	11	12	36.632	0.232	30.6	0.2626	0.0000	SURCHARGED
15 minute summer	12	12	35.776	1.176	59.8	1.3303	0.0000	SURCHARGED
960 minute winter	13	930	34.655	0.355	4.8	86.9851	0.0000	FLOOD RISK
960 minute winter	14	930	34.655	0.455	1.4	0.8039	0.0000	SURCHARGED
15 minute summer	15	12	35.221	1.296	29.7	1.8545	0.0000	SURCHARGED
15 minute summer	16	12	34.986	1.236	77.0	1.3978	0.0000	SURCHARGED
15 minute summer	17	12	34.660	1.010	81.8	1.1420	0.0000	SURCHARGED
15 minute summer	18	11	33.529	0.229	108.2	0.3281	0.0000	OK
15 minute summer	19	11	33.397	0.197	397.7	0.2226	0.0000	OK
30 minute summer	20	20	31.448	0.248	379.5	0.3555	0.0000	OK
15 minute summer	21	10	38.045	0.045	8.6	0.0504	0.0000	OK
360 minute winter	22	344	39.006	0.906	2.7	33.5600	0.0000	SURCHARGED
15 minute summer	23	10	36.599	0.099	45.2	0.1115	0.0000	OK
15 minute summer	24	10	35.148	0.148	59.4	0.1677	0.0000	OK
15 minute summer	25	10	34.344	0.144	142.2	0.1629	0.0000	OK
15 minute summer	26	10	32.709	0.209	179.5	0.2367	0.0000	OK
15 minute summer	27	10	33.573	0.073	20.8	0.0820	0.0000	OK
15 minute summer	28	10	32.796	0.096	29.3	0.1090	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	0.0	0.000	0.000	0.0927	
15 minute summer	2	1.001	3	78.5	1.655	0.569	1.6280	
15 minute summer	3	1.002	4	107.3	1.625	0.870	5.0956	
15 minute summer	4	1.003	5	149.1	2.212	1.118	2.1778	
15 minute summer	5	1.004	6	184.8	3.419	0.573	0.3520	
15 minute summer	6	1.005	7	201.6	3.461	0.737	1.1266	
15 minute summer	7	1.006	9	210.8	3.200	0.948	3.4114	
360 minute winter	8	2.000	9	0.7	2.705	0.003	0.0005	
15 minute summer	9	1.007	19	249.0	2.949	1.021	4.5592	
360 minute winter	10	3.000	11	0.6	0.895	0.011	0.0089	
15 minute summer	11	3.001	12	29.1	1.855	0.749	0.6719	
15 minute summer	12	3.002	16	50.8	2.887	0.853	0.1232	
960 minute winter	13	4.000	14	1.4	0.153	0.074	0.1493	
960 minute winter	14	4.001	15	0.6	0.460	0.024	0.0407	
15 minute summer	15	4.002	16	20.7	1.175	1.382	0.2465	
15 minute summer	16	3.003	17	75.9	1.909	1.492	0.4148	
15 minute summer	17	3.004	18	81.5	2.049	2.119	1.4295	
15 minute summer	18	3.005	19	107.9	1.823	0.550	0.6715	
15 minute summer	19	1.008	20	397.9	6.065	0.400	0.5470	
30 minute summer	20	1.009	39	378.5	3.682	0.609	1.8580	
15 minute summer	21	5.000	23	8.5	1.030	0.192	0.2017	
360 minute winter	22	6.000	23	0.8	1.242	0.009	0.0122	
15 minute summer	23	5.001	25	44.6	2.722	0.379	0.7200	
15 minute summer	24	7.000	25	58.8	2.208	0.702	0.7489	
15 minute summer	25	5.002	26	141.9	3.294	0.461	0.9628	
15 minute summer	26	5.003	29	178.4	3.153	0.729	1.1735	
15 minute summer	27	8.000	28	20.7	2.029	0.465	0.1312	
15 minute summer	28	8.001	29	29.0	2.526	0.673	0.2091	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	29	11	31.745	0.245	234.5	0.2769	0.0000	OK
15 minute summer	30	10	31.282	0.082	19.1	0.0928	0.0000	OK
15 minute summer	31	10	31.108	0.083	30.8	0.0936	0.0000	OK
15 minute summer	32	12	31.109	0.334	47.8	0.4786	0.0000	OK
30 minute summer	9.002:50%	20	31.106	0.438	53.4	5.9950	0.0000	OK
30 minute summer	33	20	31.098	0.538	83.9	0.6089	0.0000	SURCHARGED
360 minute winter	34	352	31.093	0.593	44.8	0.6708	0.0000	SURCHARGED
360 minute winter	5.005:50%	352	31.093	0.968	49.0	0.0000	0.0000	SURCHARGED
360 minute winter	35	352	31.093	0.093	4.3	0.1053	0.0000	OK
360 minute winter	36	352	31.093	1.343	53.7	1.5190	0.0000	SURCHARGED
360 minute winter	37	352	31.093	1.443	53.9	1.6320	0.0000	SURCHARGED
360 minute winter	38	352	31.093	1.593	53.6	1.8016	0.0000	SURCHARGED
360 minute winter	39	352	31.093	1.793	124.6	807.1948	0.0000	SURCHARGED
360 minute winter	40	352	31.083	2.008	15.3	5.1104	0.0000	SURCHARGED
15 minute winter	40_OUT	11	29.099	0.099	14.6	0.0000	0.0000	OK
360 minute winter	~~J1	336	39.011	0.884	5.2	0.0000	0.0000	OK
360 minute winter	~~J2	336	38.067	0.765	4.5	0.0000	0.0000	OK
360 minute winter	~~J3	336	37.489	0.587	4.5	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	29	5.004	34	232.8	2.977	0.683	2.9860	
15 minute summer	30	9.000	31	19.0	1.131	0.090	0.1530	
15 minute summer	31	9.001	32	30.7	1.014	0.072	1.0246	
15 minute summer	32	9.002	9.002:50%	49.8	1.065	0.200	2.5376	
15 minute summer	32	9.002	33	101.0	0.979	0.405	2.8265	
30 minute summer	33	9.003	34	89.5	0.714	0.278	0.9578	
360 minute winter	34	5.005	5.005:50%	44.7	1.584	0.112	3.9107	
360 minute winter	34	5.005	36	46.7	1.140	0.117	3.9107	
360 minute winter	35	10.000	36	4.3	1.301	0.015	0.7486	
360 minute winter	36	5.006	37	52.8	1.021	0.191	2.1613	
360 minute winter	37	5.007	38	53.6	1.054	0.200	3.4612	
360 minute winter	38	5.008	39	66.9	1.014	0.171	2.0598	
360 minute winter	39	1.010	40	15.3	0.521	0.195	0.3977	
360 minute winter	40	1.011	40_OUT	14.6	0.799	0.460	0.3646	1249.3
360 minute winter	~~J1	Porous Paving	22	2.3	0.292	0.861		
360 minute winter	~~J2	Porous Paving	8	2.1	0.263	0.775		
360 minute winter	~~J3	Porous Paving	10	2.0	0.253	0.746		

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	1	39.800	0.000	0.0	0.0000	0.0000	OK
15 minute summer	2	10	39.657	0.157	71.4	0.1770	0.0000	OK
15 minute summer	3	10	39.180	0.199	99.3	0.2252	0.0000	OK
15 minute summer	4	11	38.378	0.378	140.9	0.0000	0.0000	SURCHARGED
15 minute summer	5	10	37.698	0.198	166.5	0.2836	0.0000	OK
15 minute summer	6	10	37.204	0.204	186.3	0.2913	0.0000	OK
15 minute summer	7	10	36.228	0.228	198.9	0.2576	0.0000	OK
600 minute summer	8	435	37.964	0.664	2.1	24.9003	0.0000	SURCHARGED
15 minute summer	9	11	34.367	0.366	239.9	0.4145	0.0000	OK
600 minute summer	10	450	37.413	0.513	2.0	26.1365	0.0000	SURCHARGED
15 minute summer	11	11	36.500	0.100	27.7	0.1129	0.0000	OK
15 minute summer	12	12	35.470	0.870	54.7	0.9838	0.0000	SURCHARGED
1440 minute winter	13	1350	34.619	0.319	3.2	78.1512	0.0000	FLOOD RISK
1440 minute winter	14	1350	34.619	0.419	1.4	0.7402	0.0000	SURCHARGED
15 minute summer	15	12	34.993	1.068	26.8	1.5287	0.0000	SURCHARGED
15 minute summer	16	12	34.792	1.042	70.6	1.1790	0.0000	SURCHARGED
15 minute summer	17	12	34.513	0.863	75.6	0.9766	0.0000	SURCHARGED
15 minute summer	18	11	33.518	0.218	99.5	0.3114	0.0000	OK
15 minute summer	19	11	33.389	0.189	374.1	0.2143	0.0000	OK
30 minute summer	20	19	31.431	0.231	359.4	0.3312	0.0000	OK
15 minute summer	21	10	38.042	0.042	7.7	0.0477	0.0000	OK
240 minute winter	22	232	38.887	0.787	3.1	29.0235	0.0000	SURCHARGED
15 minute summer	23	10	36.593	0.093	40.7	0.1050	0.0000	OK
15 minute summer	24	10	35.138	0.138	53.5	0.1558	0.0000	OK
15 minute summer	25	10	34.336	0.136	128.2	0.1533	0.0000	OK
15 minute summer	26	10	32.692	0.192	161.8	0.2172	0.0000	OK
15 minute summer	27	10	33.568	0.068	18.7	0.0770	0.0000	OK
15 minute summer	28	10	32.789	0.089	26.3	0.1012	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	0.0	0.000	0.000	0.0779	
15 minute summer	2	1.001	3	70.8	1.627	0.513	1.4680	
15 minute summer	3	1.002	4	97.8	1.608	0.793	4.7774	
15 minute summer	4	1.003	5	133.5	2.313	1.002	2.0842	
15 minute summer	5	1.004	6	165.5	3.323	0.513	0.3008	
15 minute summer	6	1.005	7	185.5	3.462	0.678	0.9020	
15 minute summer	7	1.006	9	196.8	3.272	0.885	3.0453	
600 minute summer	8	2.000	9	0.7	2.656	0.003	0.0005	
15 minute summer	9	1.007	19	237.4	2.892	0.973	4.4663	
600 minute summer	10	3.000	11	0.6	0.866	0.010	0.0084	
15 minute summer	11	3.001	12	27.0	1.891	0.697	0.5735	
15 minute summer	12	3.002	16	46.2	2.669	0.774	0.1232	
1440 minute winter	13	4.000	14	1.4	0.145	0.072	0.1493	
1440 minute winter	14	4.001	15	0.5	0.454	0.023	0.0341	
15 minute summer	15	4.002	16	19.4	1.103	1.297	0.2465	
15 minute summer	16	3.003	17	70.2	1.766	1.380	0.4148	
15 minute summer	17	3.004	18	75.3	1.894	1.959	1.4269	
15 minute summer	18	3.005	19	99.3	1.776	0.506	0.6349	
15 minute summer	19	1.008	20	374.2	6.046	0.376	0.5111	
30 minute summer	20	1.009	39	359.2	3.564	0.578	1.7977	
15 minute summer	21	5.000	23	7.7	0.996	0.172	0.1877	
240 minute winter	22	6.000	23	0.7	1.217	0.008	0.0135	
15 minute summer	23	5.001	25	40.2	2.650	0.342	0.6660	
15 minute summer	24	7.000	25	53.0	2.163	0.632	0.6889	
15 minute summer	25	5.002	26	127.9	3.254	0.416	0.8797	
15 minute summer	26	5.003	29	160.8	3.090	0.657	1.0887	
15 minute summer	27	8.000	28	18.6	1.989	0.418	0.1205	
15 minute summer	28	8.001	29	26.1	2.473	0.605	0.1902	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	29	10	31.727	0.227	211.4	0.2565	0.0000	OK
15 minute summer	30	10	31.278	0.078	17.2	0.0878	0.0000	OK
15 minute summer	31	10	31.103	0.078	27.8	0.0882	0.0000	OK
30 minute summer	32	20	30.982	0.207	40.1	0.2966	0.0000	OK
15 minute summer	9.002:50%	12	30.963	0.296	53.2	2.7328	0.0000	OK
30 minute summer	33	19	30.960	0.400	68.4	0.4526	0.0000	OK
30 minute summer	34	19	30.971	0.471	257.5	0.5326	0.0000	SURCHARGED
360 minute winter	5.005:50%	352	30.920	0.795	43.3	0.0000	0.0000	SURCHARGED
15 minute summer	35	10	31.063	0.063	28.3	0.0715	0.0000	OK
360 minute winter	36	352	30.920	1.170	47.8	1.3237	0.0000	SURCHARGED
360 minute winter	37	352	30.920	1.270	47.2	1.4368	0.0000	SURCHARGED
360 minute winter	38	352	30.921	1.421	46.9	1.6067	0.0000	SURCHARGED
360 minute winter	39	352	30.921	1.621	109.0	694.8480	0.0000	SURCHARGED
360 minute winter	40	352	30.912	1.837	15.1	4.6746	0.0000	SURCHARGED
60 minute summer	40_OUT	30	29.099	0.099	14.6	0.0000	0.0000	OK
240 minute winter	~~J1	232	38.891	0.764	6.3	0.0000	0.0000	OK
600 minute summer	~~J2	435	37.969	0.667	3.9	0.0000	0.0000	OK
600 minute summer	~~J3	450	37.416	0.514	3.9	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 summer	29	5.004	34	212.1	2.983	0.622	2.6273	
15 minute summer	30	9.000	31	17.1	1.101	0.082	0.1418	
15 minute summer	31	9.001	32	27.7	1.016	0.065	0.5230	
30 minute summer	32	9.002	9.002:50%	40.4	1.036	0.162	1.6010	
30 minute summer	32	9.002	33	65.6	0.812	0.263	2.2896	
30 minute summer	33	9.003	34	78.8	0.839	0.245	0.9290	
30 minute summer	34	5.005	5.005:50%	245.4	2.236	0.615	3.9107	
30 minute summer	34	5.005	36	251.1	1.708	0.629	3.9107	
15 minute summer	35	10.000	36	28.2	1.612	0.099	0.6830	
360 minute winter	36	5.006	37	46.3	1.050	0.167	2.1613	
360 minute winter	37	5.007	38	46.9	1.068	0.175	3.4612	
360 minute winter	38	5.008	39	60.8	0.975	0.155	2.0598	
360 minute winter	39	1.010	40	15.1	0.472	0.194	0.3977	
360 minute winter	40	1.011	40_OUT	14.6	0.799	0.460	0.3646	1106.7
240 minute winter	~~J1	Porous Paving	22	2.5	0.323	0.954		
600 minute summer	~~J2	Porous Paving	8	1.9	0.239	0.705		
600 minute summer	~~J3	Porous Paving	10	1.8	0.231	0.681		

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	12	40.826	1.026	12.3	1.1600	0.0000	FLOOD RISK
15 minute summer	2	12	40.817	1.317	103.4	1.4894	0.0000	SURCHARGED
15 minute summer	3	12	40.605	1.624	134.6	1.8366	0.0000	SURCHARGED
15 minute summer	4	12	39.699	1.699	170.6	0.0000	0.0000	FLOOD RISK
15 minute summer	5	12	38.811	1.311	206.2	1.8762	0.0000	SURCHARGED
15 minute summer	6	12	38.410	1.410	224.9	2.0175	0.0000	SURCHARGED
15 minute summer	7	12	37.470	1.470	236.4	1.6621	0.0000	SURCHARGED
600 minute winter	8	480	38.316	1.016	2.1	38.0796	0.0000	FLOOD RISK
15 minute summer	9	12	34.905	0.905	289.5	1.0230	0.0000	SURCHARGED
600 minute winter	10	495	37.682	0.782	2.1	39.8765	0.0000	FLOOD RISK
15 minute summer	11	12	37.643	1.243	39.7	1.4057	0.0000	SURCHARGED
15 minute summer	12	12	36.643	2.043	65.9	2.3112	0.0000	FLOOD RISK
1440 minute winter	13	1380	34.797	0.497	4.7	121.7622	0.0000	FLOOD RISK
1440 minute winter	14	1380	34.797	0.597	1.2	1.0546	0.0000	SURCHARGED
15 minute summer	15	12	35.914	1.989	38.8	2.8468	0.0000	FLOOD RISK
15 minute summer	16	12	35.555	1.805	91.7	2.0419	0.0000	SURCHARGED
15 minute summer	17	12	35.091	1.441	98.4	1.6296	0.0000	SURCHARGED
15 minute summer	18	11	33.562	0.262	132.8	0.3746	0.0000	OK
15 minute summer	19	11	33.418	0.218	468.1	0.2470	0.0000	OK
30 minute summer	20	20	31.532	0.332	454.5	0.4756	0.0000	OK
15 minute summer	21	10	38.051	0.051	11.2	0.0579	0.0000	OK
360 minute winter	22	344	39.292	1.192	3.4	44.4633	0.0000	FLOOD RISK
15 minute summer	23	10	36.615	0.115	58.9	0.1306	0.0000	OK
15 minute summer	24	10	35.186	0.186	77.6	0.2104	0.0000	OK
15 minute summer	25	11	34.388	0.188	185.6	0.2122	0.0000	OK
15 minute summer	26	11	33.286	0.786	232.9	0.8889	0.0000	SURCHARGED
15 minute summer	27	10	33.587	0.087	27.2	0.0982	0.0000	OK
15 minute summer	28	12	32.946	0.246	38.3	0.2779	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	13.5	-0.371	0.190	0.4784	
15 minute summer	2	1.001	3	95.2	1.680	0.690	2.3815	
15 minute summer	3	1.002	4	111.8	1.603	0.906	5.6159	
15 minute summer	4	1.003	5	160.4	2.382	1.203	2.4531	
15 minute summer	5	1.004	6	198.3	3.418	0.615	0.4225	
15 minute summer	6	1.005	7	221.1	3.373	0.808	1.1731	
15 minute summer	7	1.006	9	235.8	3.349	1.060	3.4114	
600 minute winter	8	2.000	9	0.8	2.813	0.004	0.0006	
15 minute summer	9	1.007	19	285.7	2.901	1.172	4.7755	
600 minute winter	10	3.000	11	0.7	0.935	0.013	0.0085	
15 minute summer	11	3.001	12	29.5	1.899	0.759	0.6719	
15 minute summer	12	3.002	16	58.7	3.333	0.984	0.1232	
1440 minute winter	13	4.000	14	1.2	0.128	0.062	0.1493	
1440 minute winter	14	4.001	15	0.6	0.480	0.028	0.0415	
15 minute summer	15	4.002	16	25.8	1.466	1.724	0.2465	
15 minute summer	16	3.003	17	90.6	2.277	1.780	0.4148	
15 minute summer	17	3.004	18	97.5	2.452	2.536	1.4295	
15 minute summer	18	3.005	19	132.5	1.895	0.675	0.7733	
15 minute summer	19	1.008	20	467.5	6.067	0.470	0.6648	
30 minute summer	20	1.009	39	452.7	4.119	0.729	2.1135	
15 minute summer	21	5.000	23	11.1	1.109	0.250	0.2404	
360 minute winter	22	6.000	23	0.9	1.299	0.010	0.0143	
15 minute summer	23	5.001	25	58.2	2.907	0.495	0.8799	
15 minute summer	24	7.000	25	76.6	2.296	0.915	0.9396	
15 minute summer	25	5.002	26	183.7	3.308	0.597	1.3086	
15 minute summer	26	5.003	29	220.8	3.178	0.902	1.4638	
15 minute summer	27	8.000	28	27.1	2.185	0.608	0.1769	
15 minute summer	28	8.001	29	37.9	2.458	0.877	0.3169	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	29	12	32.206	0.706	293.1	0.7989	0.0000	SURCHARGED
30 minute summer	30	21	31.559	0.359	23.1	0.4060	0.0000	OK
30 minute summer	31	21	31.613	0.588	49.4	0.6646	0.0000	SURCHARGED
30 minute summer	32	21	31.573	0.798	63.5	1.1414	0.0000	SURCHARGED
30 minute summer	9.002:50%	21	31.572	0.905	88.9	25.5518	0.0000	SURCHARGED
30 minute summer	33	21	31.556	0.996	117.1	1.1260	0.0000	SURCHARGED
30 minute summer	34	21	31.547	1.047	295.3	1.1841	0.0000	SURCHARGED
600 minute winter	5.005:50%	585	31.500	1.375	40.1	0.0000	0.0000	SURCHARGED
600 minute winter	35	585	31.500	0.500	3.7	0.5650	0.0000	SURCHARGED
600 minute winter	36	585	31.500	1.750	45.4	1.9787	0.0000	SURCHARGED
600 minute winter	37	585	31.499	1.849	45.9	2.0917	0.0000	FLOOD RISK
600 minute winter	38	585	31.499	1.999	45.6	2.2613	0.0000	FLOOD RISK
600 minute winter	39	585	31.499	2.199	107.0	1101.9270	0.0000	FLOOD RISK
600 minute winter	40	585	31.488	2.413	15.1	6.1399	0.0000	SURCHARGED
600 minute winter	40_OUT	585	29.100	0.100	14.6	0.0000	0.0000	OK
360 minute winter	~~J1	344	39.298	1.171	6.7	0.0000	0.0000	OK
600 minute winter	~~J2	480	38.321	1.019	3.9	0.0000	0.0000	OK
600 minute winter	~~J3	495	37.686	0.784	3.9	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 summer	29	5.004	34	284.6	3.003	0.834	3.5322	
30 minute summer	30	9.000	31	36.3	1.186	0.173	0.9991	
30 minute summer	31	9.001	32	36.8	1.020	0.086	2.2692	
30 minute summer	32	9.002	9.002:50%	48.7	1.048	0.195	2.8520	
30 minute summer	32	9.002	33	114.7	0.804	0.460	2.8520	
30 minute summer	33	9.003	34	119.1	0.752	0.370	0.9578	
30 minute summer	34	5.005	5.005:50%	250.7	2.268	0.628	3.9107	
30 minute summer	34	5.005	36	276.6	1.746	0.693	3.9107	
600 minute winter	35	10.000	36	3.7	1.180	0.013	1.1845	
600 minute winter	36	5.006	37	45.0	0.952	0.163	2.1613	
600 minute winter	37	5.007	38	45.6	0.929	0.171	3.4612	
600 minute winter	38	5.008	39	45.4	0.951	0.116	2.0598	
600 minute winter	39	1.010	40	15.1	0.413	0.194	0.3977	
600 minute winter	40	1.011	40_OUT	14.6	0.800	0.462	0.3656	1604.6
360 minute winter	~~J1	Porous Paving	22	2.7	0.347	1.025		
600 minute winter	~~J2	Porous Paving	8	1.9	0.247	0.730		
600 minute winter	~~J3	Porous Paving	10	1.9	0.238	0.703		