

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	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	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
MH1	0.062	5.00	136.350	1200	1.225
MH2	0.018	5.00	136.350	1200	1.720
MH3			136.300	1200	2.040
MH4	0.014	5.00	136.250	1200	1.300
MH5	0.040	5.00	136.250	1200	1.510
MH6			136.100	1200	2.435
MH7	0.007	5.00	135.880	1200	1.300
MH8			135.950	1200	1.740
MH9	0.035	5.00	135.910	1200	2.105
MH10	0.071	5.00	135.900	1200	1.200
Soakaway			136.130	1	2.530
Soakaway MH			136.130	1	2.510

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	MH1	MH2	49.500	0.600	135.125	134.630	0.495	100.0	150	5.82	50.0
1.001	MH2	MH3	37.000	0.600	134.630	134.260	0.370	100.0	225	6.29	50.0
1.002	MH3	Soakaway MH	2.750	0.600	134.260	134.232	0.028	100.0	225	6.33	50.0
2.000	MH4	MH5	12.600	0.600	134.950	134.740	0.210	60.0	100	5.21	50.0
2.001	MH5	MH6	12.450	0.600	134.740	133.665	1.075	11.6	100	5.30	50.0
2.002	MH6	Soakaway MH	1.750	0.600	133.665	133.647	0.018	100.0	150	6.51	50.0
3.000	MH7	MH8	29.600	0.600	134.580	134.210	0.370	80.0	100	5.57	50.0
3.001	MH8	MH9	40.500	0.600	134.210	133.805	0.405	100.0	150	6.24	50.0
3.002	MH9	MH6	14.000	0.600	133.805	133.665	0.140	100.0	150	6.48	50.0
4.000	MH10	Soakaway MH	9.400	0.600	134.700	134.606	0.094	100.0	150	5.16	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	1.005	17.8	8.4	1.075	1.570	0.062	0.0	72	0.989
1.001	1.307	52.0	10.8	1.495	1.815	0.080	0.0	70	1.040
1.002	1.307	52.0	10.8	1.815	1.673	0.080	0.0	70	1.040
2.000	0.996	7.8	1.9	1.200	1.410	0.014	0.0	33	0.816
2.001	2.283	17.9	7.3	1.410	2.335	0.054	0.0	44	2.161
2.002	1.005	17.8	13.0	2.285	2.333	0.096	0.0	96	1.097
3.000	0.861	6.8	0.9	1.200	1.640	0.007	0.0	25	0.606
3.001	1.005	17.8	0.9	1.590	1.955	0.007	0.0	24	0.535
3.002	1.005	17.8	5.7	1.955	2.285	0.042	0.0	58	0.895
4.000	1.005	17.8	9.6	1.050	1.374	0.071	0.0	79	1.025

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	MH1	1.000	MH2	4.9	0.873	0.278	0.2811
15 minute winter	MH2	1.001	MH3	6.4	0.831	0.123	0.2841
15 minute winter	MH3	1.002	Soakaway MH	6.2	0.822	0.120	0.0209
15 minute winter	MH4	2.000	MH5	1.1	0.576	0.141	0.0244
15 minute winter	MH5	2.001	MH6	4.3	0.964	0.243	0.0631
1440 minute winter	MH6	2.002	Soakaway MH	0.8	0.366	0.044	0.0308
15 minute winter	MH7	3.000	MH8	0.6	0.589	0.082	0.0290
15 minute winter	MH8	3.001	MH9	0.5	0.212	0.027	0.1851
1440 minute winter	MH9	3.002	MH6	0.4	0.225	0.023	0.2219
15 minute winter	MH10	4.000	Soakaway MH	5.7	0.865	0.320	0.0617
1440 minute winter	Soakaway	Infiltration		0.3			
1440 minute winter	Soakaway MH	5.000	Soakaway	3.1	0.615	0.020	0.0704

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH1	10	135.195	0.070	7.8	0.1497	0.0000	OK
15 minute winter	MH2	11	134.696	0.066	9.8	0.0881	0.0000	OK
15 minute winter	MH3	11	134.335	0.075	9.8	0.0847	0.0000	OK
15 minute winter	MH4	10	134.982	0.032	1.8	0.0435	0.0000	OK
15 minute winter	MH5	10	134.783	0.042	6.8	0.0705	0.0000	OK
1440 minute winter	MH6	1350	133.977	0.312	1.0	0.3529	0.0000	SURCHARGED
15 minute winter	MH7	10	134.605	0.025	0.9	0.0310	0.0000	OK
15 minute winter	MH8	12	134.232	0.022	0.9	0.0245	0.0000	OK
1440 minute winter	MH9	1350	133.977	0.172	0.5	0.2519	0.0000	SURCHARGED
15 minute winter	MH10	10	134.780	0.080	8.9	0.1845	0.0000	OK
1440 minute winter	Soakaway	1350	133.977	0.377	2.5	66.9774	0.0000	OK
1440 minute winter	Soakaway MH	1350	133.977	0.357	2.5	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)
15 minute winter	MH1	1.000	MH2	7.5	0.982	0.424	0.3805
15 minute winter	MH2	1.001	MH3	9.8	0.926	0.188	0.3916
15 minute winter	MH3	1.002	Soakaway MH	9.7	0.921	0.186	0.0289
15 minute winter	MH4	2.000	MH5	1.8	0.661	0.226	0.0337
15 minute winter	MH5	2.001	MH6	6.7	1.045	0.373	0.0684
1440 minute winter	MH6	2.002	Soakaway MH	1.0	0.422	0.055	0.0308
15 minute winter	MH7	3.000	MH8	0.9	0.648	0.126	0.0404
15 minute winter	MH8	3.001	MH9	0.8	0.249	0.045	0.2678
1440 minute winter	MH9	3.002	MH6	0.5	0.225	0.028	0.2465
15 minute winter	MH10	4.000	Soakaway MH	8.7	0.960	0.491	0.0853
1440 minute winter	Soakaway	Infiltration		0.4			
1440 minute winter	Soakaway MH	5.000	Soakaway	2.5	0.674	0.016	0.0704

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	MH1	1.000	MH2	18.2	1.195	1.028	0.7701
15 minute winter	MH2	1.001	MH3	23.7	1.152	0.457	0.7666
15 minute winter	MH3	1.002	Soakaway MH	23.7	1.157	0.456	0.0563
15 minute winter	MH4	2.000	MH5	4.4	0.761	0.569	0.0764
15 minute winter	MH5	2.001	MH6	15.5	2.025	0.863	0.0974
1440 minute winter	MH6	2.002	Soakaway MH	1.8	0.398	0.101	0.0308
15 minute winter	MH7	3.000	MH8	2.2	0.829	0.327	0.0803
1440 minute winter	MH8	3.001	MH9	0.1	0.155	0.006	0.5853
1440 minute winter	MH9	3.002	MH6	0.7	0.228	0.041	0.2465
15 minute winter	MH10	4.000	Soakaway MH	22.0	1.252	1.240	0.1607
1440 minute winter	Soakaway	Infiltration		0.7			
1440 minute winter	Soakaway MH	5.000	Soakaway	4.7	0.741	0.030	0.0704

