

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S1	0.035	1350	Type C	27.186	25.761	1.200	495466.243	106740.511
S2	0.125	1350	Type C	27.162	25.630	1.232	495490.904	106724.349
S3	0.174	1350	Type C	28.019	26.520	1.200	495566.754	106745.408
S4	0.157	1350	Type C	27.162	25.340	1.447	495549.509	106701.453
S5	0.173	1350	Type C	27.340	25.840	1.200	495623.255	106722.423
S6	0.127	1350	Type C	26.602	24.952	1.200	495605.791	106679.245
S7	0.044	1350	Type C	25.941	24.291	1.200	495662.844	106657.313
S8	0.095	450	Unknown	26.131	25.306	0.600	495685.545	106688.670
S9	0.069	450	Unknown	25.865	25.040	0.600	495673.995	106662.304
S10	0.166	1350	Type C	25.500	23.796	1.254	495662.210	106636.377
S11	0.000	1800	Type C	24.050	22.560	0.590	495668.883	106610.304
S12	0.074	450	Unknown	26.424	25.590	0.609	495485.591	106689.001
S39	0.000	450	Unknown	26.415	25.506	0.684	495488.877	106685.483
S13	0.026	450	Unknown	25.913	25.088	0.600	495498.631	106663.536
S38	0.000	450	Unknown	25.315	24.666	0.424	495507.548	106642.779
S14	0.067	450	Unknown	24.920	24.020	0.600	495519.968	106614.790
S15	0.016	450	Unknown	24.474	23.574	0.600	495540.369	106597.156
S16	0.409	1500	Type C	24.531	22.910	1.114	495587.109	106586.980
S17	0.106	1500	Type C	24.328	22.755	1.048	495644.816	106581.313
S18	0.000	1800	Type C	24.050	22.560	0.965	495660.746	106586.979
S19	0.000	1800	Type C	24.050	22.550	0.825	495692.194	106583.130
S20	0.382	1500	Type C	23.593	22.337	0.582	495724.468	106581.497
S21	0.000	2100	Type C	23.400	22.020	0.630	495745.964	106580.386
S22	0.048	450	Unknown	27.571	26.746	0.600	495599.231	106760.701
S23	0.151	450	Unknown	27.482	26.382	0.800	495605.622	106782.996
S40	0.000	450	Unknown	26.545	25.174	1.071	495654.795	106782.996
S24	0.141	450	Unknown	25.915	24.415	1.200	495685.682	106782.991
S25	0.044	1350	Type C	25.930	24.430	1.200	495694.018	106723.210
S26	0.024	1350	Type C	25.712	24.212	1.200	495700.386	106736.509
S27	0.069	1350	Type C	25.078	23.428	1.350	495720.104	106758.312
S28	0.000	1350	Type C	23.785	22.170	1.215	495782.419	106701.762
S29	0.000	1350	Type C	23.800	22.120	1.230	495791.808	106685.673
S30	0.173	450	Unknown	25.244	24.344	0.675	495731.853	106686.447
S31	0.024	450	Unknown	24.121	23.210	0.686	495768.178	106676.952
S32	0.000	450	Unknown	23.721	22.715	0.706	495781.849	106674.901
S33	0.000	1350	Type C	23.800	22.086	1.264	495787.181	106673.680
S34	0.000	2100	Type C	23.400	22.020	0.892	495783.484	106663.958
S35	0.000	2100	Type C	23.400	22.000	0.725	495794.414	106588.598
S36	0.000	1500	Type C	23.400	21.942	1.308	495800.030	106587.315
S41	0.000	1350	Type C	22.346	21.850	0.346	495808.377	106584.414
S37	0.000	1350	Type C	21.210	21.060	0.000	495820.114	106580.338

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	S1	25.761	S2	25.705	Circ	225	29.486	527	0.600	1.200	1.232
1.001	S2	25.630	S4	25.415	Circ	300	62.918	293	0.600	1.232	1.447
2.000	S3	26.520	S4	25.415	Circ	300	47.217	43	0.600	1.200	1.447
1.002	S4	25.340	S6	25.027	Circ	375	60.505	193	0.600	1.447	1.200
3.000	S5	25.840	S6	25.102	Circ	300	46.576	63	0.600	1.200	1.200
1.003	S6	24.952	S7	24.291	Circ	450	61.123	93	0.600	1.200	1.200
1.004	S7	24.291	S10	23.796	Circ	450	20.946	42	0.600	1.200	1.254
4.000	S8	25.306	S9	25.040	Circ	225	28.785	108	0.600	0.600	0.600
4.001	S9	25.040	S10	24.021	Circ	225	28.480	28	0.600	0.600	1.254
1.005	S10	23.796	S11	23.010	Circ	450	26.913	34	0.600	1.254	0.590
1.006	S11	22.560	S19	22.550	Circ	900	35.802	3580	0.600	0.590	0.600
5.000	S12	25.590	S39	25.506	Circ	225	4.814	57	0.600	0.609	0.684
5.001	S39	25.506	S13	25.088	Circ	225	24.017	57	0.600	0.684	0.600
5.002	S13	25.088	S38	24.666	Circ	225	22.592	54	0.600	0.600	0.424
5.003	S38	24.666	S14	24.095	Circ	225	30.620	54	0.600	0.424	0.600
5.004	S14	24.020	S15	23.574	Circ	300	26.967	60	0.600	0.600	0.600

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
5.005	S15	23.574	S16	23.117	Circ	300	47.834	105	0.600	0.600	1.114
5.006	S16	22.910	S17	22.755	Circ	525	57.985	375	0.600	1.096	1.048
5.007	S17	22.755	S18	22.560	Circ	525	16.908	87	0.600	1.048	0.965
5.008	S18	22.560	S19	22.550	Circ	900	31.682	3168	0.600	0.590	0.600
1.007	S19	22.550	S20	22.337	Circ	675	32.315	152	0.600	0.825	0.582
1.008	S20	22.337	S21	22.095	Circ	675	21.524	89	0.600	0.582	0.630
1.009	S21	22.020	S35	22.000	Circ	1200	49.141	2457	0.600	0.180	0.200
6.000	S22	26.746	S23	26.457	Circ	225	23.193	80	0.600	0.600	0.800
6.001	S23	26.382	S40	25.174	Circ	300	49.173	41	0.600	0.800	1.071
6.002	S40	25.174	S24	24.415	Circ	300	30.887	41	0.600	1.071	1.200
6.003	S24	24.415	S27	23.579	Circ	300	42.355	51	0.600	1.200	1.200
7.000	S25	24.430	S26	24.212	Circ	300	14.745	68	0.600	1.200	1.200
7.001	S26	24.212	S27	23.578	Circ	300	29.397	46	0.600	1.200	1.200
6.004	S27	23.428	S28	22.270	Circ	300	84.149	73	0.600	1.350	1.215
6.005	S28	22.170	S29	22.120	Circ	450	18.629	375	0.600	1.165	1.230
6.006	S29	22.120	S33	22.086	Circ	450	12.855	375	0.600	1.230	1.264
8.000	S30	24.344	S31	23.210	Circ	225	37.545	33	0.600	0.675	0.686
8.001	S31	23.210	S32	22.715	Circ	300	13.824	28	0.600	0.611	0.706
8.002	S32	22.715	S33	22.370	Circ	300	5.470	16	0.600	0.706	1.130
6.007	S33	22.086	S34	22.058	Circ	450	10.402	375	0.600	1.264	0.892
6.008	S34	22.020	S35	22.000	Circ	1200	76.148	3807	0.600	0.180	0.200
1.010	S35	22.000	S36	21.942	Circ	675	5.761	100	0.600	0.725	0.783
1.011	S36	21.942	S41	21.850	Circ	150	8.837	96	0.600	1.308	0.346
1.012	S41	21.850	S37	21.060	Circ	150	12.424	16	0.600	0.346	0.000

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
Permeable Paving 169	S2	7.236	27.162	26.782	0.00000000	2.00	495510.049	106774.973
Permeable Paving 170	S2	7.475	27.162	26.782	0.00000000	2.00	495504.901	106769.202
Permeable Paving 171	S2	14.439	27.162	26.782	0.00000000	2.00	495483.698	106733.940
Permeable Paving 14	S2	11.069	27.162	26.782	0.00000000	2.00	495518.545	106765.773
Permeable Paving 15	S2	10.462	27.162	26.782	0.00000000	2.00	495509.719	106756.417
Permeable Paving 16	S2	8.227	27.162	26.782	0.00000000	2.00	495494.370	106744.554
Permeable Paving 17	S2	4.124	27.162	26.782	0.00000000	2.00	495509.181	106727.399
Permeable Paving 18	S2	5.135	27.162	26.782	0.00000000	2.00	495520.360	106726.002
Permeable Paving 72	S2	6.401	27.162	26.782	0.00000000	2.00	495507.657	106778.188
Permeable Paving 12	S3	5.226	28.019	27.639	0.00000000	2.00	495586.773	106751.603
Permeable Paving 13	S3	20.025	28.019	27.639	0.00000000	2.00	495547.610	106762.143
Permeable Paving 21	S3	4.829	28.019	27.639	0.00000000	2.00	495555.796	106734.814
Permeable Paving 22	S3	4.407	28.019	27.639	0.00000000	2.00	495574.646	106730.676
Permeable Paving 19	S4	5.131	27.162	26.782	0.00000000	2.00	495531.131	106721.759
Permeable Paving 20	S4	5.474	27.162	26.782	0.00000000	2.00	495542.086	106717.997
Permeable Paving 23	S4	7.560	27.162	26.782	0.00000000	2.00	495573.713	106703.410
Permeable Paving 26	S4	2.549	27.162	26.782	0.00000000	2.00	495571.139	106685.456
Permeable Paving 27	S4	10.291	27.162	26.782	0.00000000	2.00	495556.118	106685.729
Permeable Paving 28	S4	5.143	27.162	26.782	0.00000000	2.00	495543.806	106690.570
Permeable Paving 29	S4	2.523	27.162	26.782	0.00000000	2.00	495534.159	106699.989
Permeable Paving 5	S5	3.104	27.340	26.960	0.00000000	2.00	495638.964	106740.689
Permeable Paving 6	S5	12.755	27.340	26.960	0.00000000	2.00	495632.639	106724.617
Permeable Paving 7	S5	3.095	27.340	26.960	0.00000000	2.00	495625.743	106707.060
Permeable Paving 8	S5	12.881	27.340	26.960	0.00000000	2.00	495624.709	106742.253
Permeable Paving 9	S5	6.280	27.340	26.960	0.00000000	2.00	495610.846	106726.070
Permeable Paving 10	S5	6.258	27.340	26.960	0.00000000	2.00	495598.955	106715.860
Permeable Paving 24	S6	4.815	26.602	26.222	0.00000000	2.00	495585.371	106699.893
Permeable Paving 25	S6	10.298	26.602	26.222	0.00000000	2.00	495596.015	106696.249
Permeable Paving 44	S6	5.796	26.602	26.222	0.00000000	2.00	495592.065	106659.756
Permeable Paving 45	S6	2.900	26.602	26.222	0.00000000	2.00	495595.689	106668.969
Permeable Paving 52	S6	5.566	26.602	26.222	0.00000000	2.00	495607.962	106646.263
Permeable Paving 53	S6	8.439	26.602	26.222	0.00000000	2.00	495619.692	106661.529
Permeable Paving 56	S6	9.193	26.602	26.222	0.00000000	2.00	495629.005	106682.719
Permeable Paving 47	S7	21.315	25.941	25.561	0.00000000	2.00	495649.027	106634.278
Permeable Paving 54	S7	4.485	25.941	25.561	0.00000000	2.00	495629.958	106657.742
Permeable Paving 55	S7	4.461	25.941	25.561	0.00000000	2.00	495637.621	106650.931
Permeable Paving 57	S7	4.814	25.941	25.561	0.00000000	2.00	495639.325	106678.658

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
Permeable Paving 58	S7	4.815	25.941	25.561	0.00000000	2.00	495648.247	106675.143
Permeable Paving 74	S7	3.640	25.941	25.561	0.00000000	2.00	495661.578	106633.795
Permeable Paving 60	S8	10.887	26.131	25.751	0.00000000	2.00	495668.585	106696.143
Permeable Paving 61	S8	5.343	26.131	25.751	0.00000000	2.00	495674.760	106710.375
Permeable Paving 59	S9	5.539	25.865	25.485	0.00000000	2.00	495666.784	106681.030
Permeable Paving 160	S16	18.002	24.531	24.151	0.00000000	2.00	495598.634	106592.345
Permeable Paving 30	S16	2.913	24.531	24.151	0.00000000	2.00	495503.492	106701.468
Permeable Paving 31	S16	3.096	24.531	24.151	0.00000000	2.00	495501.146	106694.844
Permeable Paving 32	S16	2.903	24.531	24.151	0.00000000	2.00	495505.087	106676.513
Permeable Paving 33	S16	5.398	24.531	24.151	0.00000000	2.00	495512.708	106673.646
Permeable Paving 34	S16	3.991	24.531	24.151	0.00000000	2.00	495520.338	106661.877
Permeable Paving 35	S16	5.587	24.531	24.151	0.00000000	2.00	495521.255	106652.885
Permeable Paving 36	S16	9.564	24.531	24.151	0.00000000	2.00	495514.187	106639.103
Permeable Paving 37	S16	10.377	24.531	24.151	0.00000000	2.00	495521.098	106623.790
Permeable Paving 38	S16	5.000	24.531	24.151	0.00000000	2.00	495526.035	106642.315
Permeable Paving 39	S16	9.459	24.531	24.151	0.00000000	2.00	495539.464	106624.716
Permeable Paving 40	S16	6.895	24.531	24.151	0.00000000	2.00	495546.026	106613.028
Permeable Paving 41	S16	5.117	24.531	24.151	0.00000000	2.00	495564.121	106611.530
Permeable Paving 42	S16	5.385	24.531	24.151	0.00000000	2.00	495586.793	106646.350
Permeable Paving 43	S16	4.998	24.531	24.151	0.00000000	2.00	495582.430	106635.279
Permeable Paving 46	S16	8.143	24.531	24.151	0.00000000	2.00	495599.283	106605.995
Permeable Paving 50	S16	5.121	24.531	24.151	0.00000000	2.00	495598.000	106622.829
Permeable Paving 51	S16	5.580	24.531	24.151	0.00000000	2.00	495608.097	106631.305
Permeable Paving 172	S16	5.207	24.531	24.151	0.00000000	2.00	495574.543	106629.948
Permeable Paving 156	S17	6.249	24.328	23.948	0.00000000	2.00	495641.313	106591.195
Permeable Paving 157	S17	19.098	24.328	23.948	0.00000000	2.00	495647.521	106607.001
Permeable Paving 48	S17	13.261	24.328	23.948	0.00000000	2.00	495632.275	106616.691
Permeable Paving 49	S17	7.651	24.328	23.948	0.00000000	2.00	495631.604	106596.867
Permeable Paving 73	S17	11.593	24.328	23.948	0.00000000	2.00	495650.924	106603.200
Permeable Paving 3	S23	23.162	27.482	27.102	0.00000000	2.00	495621.838	106769.019
Permeable Paving 4	S24	6.138	25.915	25.535	0.00000000	2.00	495647.089	106751.794
Permeable Paving 65	S24	8.142	25.915	25.535	0.00000000	2.00	495693.341	106760.150
Permeable Paving 66	S24	4.049	25.915	25.535	0.00000000	2.00	495684.513	106768.766
Permeable Paving 67	S24	3.850	25.915	25.535	0.00000000	2.00	495663.163	106769.241
Permeable Paving 70	S24	4.836	25.915	25.535	0.00000000	2.00	495652.647	106779.962
Permeable Paving 71	S24	4.905	25.915	25.535	0.00000000	2.00	495681.766	106779.504
Permeable Paving 62	S25	5.525	25.930	25.550	0.00000000	2.00	495675.243	106722.682
Permeable Paving 63	S25	5.448	25.930	25.550	0.00000000	2.00	495682.746	106732.132
Permeable Paving 77	S25	4.125	25.930	25.550	0.00000000	2.00	495704.316	106726.328
Permeable Paving 64	S26	5.978	25.712	25.332	0.00000000	2.00	495693.856	106740.255
Permeable Paving 11	S27	5.914	25.078	24.698	0.00000000	2.00	495594.426	106742.699
Permeable Paving 68	S27	7.190	25.078	24.698	0.00000000	2.00	495723.944	106737.364
Permeable Paving 69	S27	4.785	25.078	24.698	0.00000000	2.00	495735.746	106723.087
Permeable Paving 75	S27	17.867	25.078	24.698	0.00000000	2.00	495741.971	106727.670
Permeable Paving 1	S30	3.314	25.244	24.864	0.00000000	2.00	495748.132	106698.326
Permeable Paving 2	S30	4.194	25.244	24.864	0.00000000	2.00	495742.266	106702.448
Permeable Paving 76	S30	4.360	25.244	24.864	0.00000000	2.00	495729.234	106698.819

Outfall Details

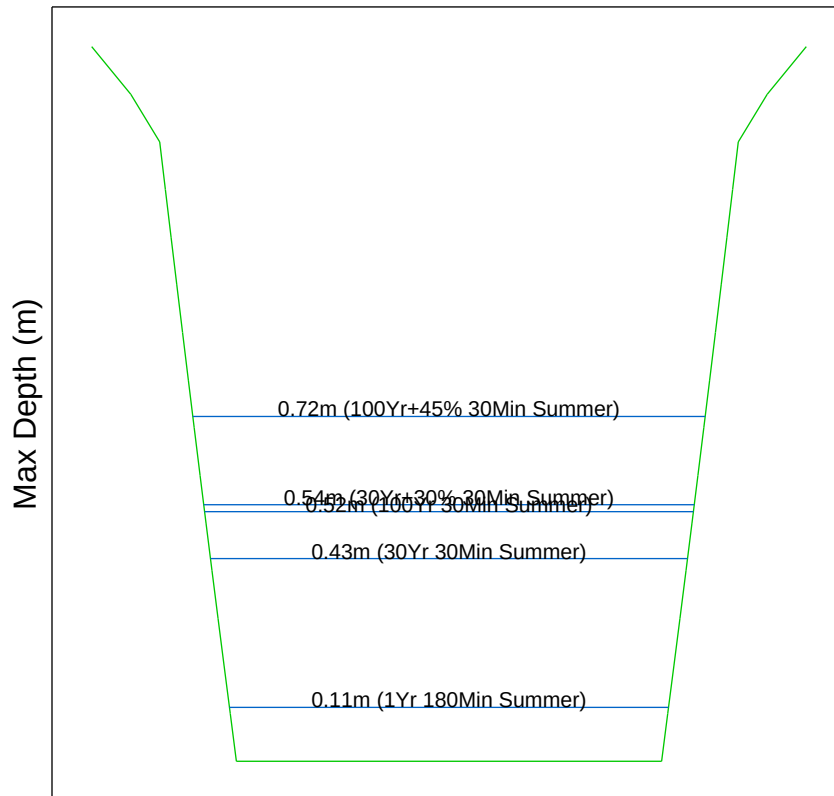
Outfall Manhole S37 : Free Discharge

Flow Control Details

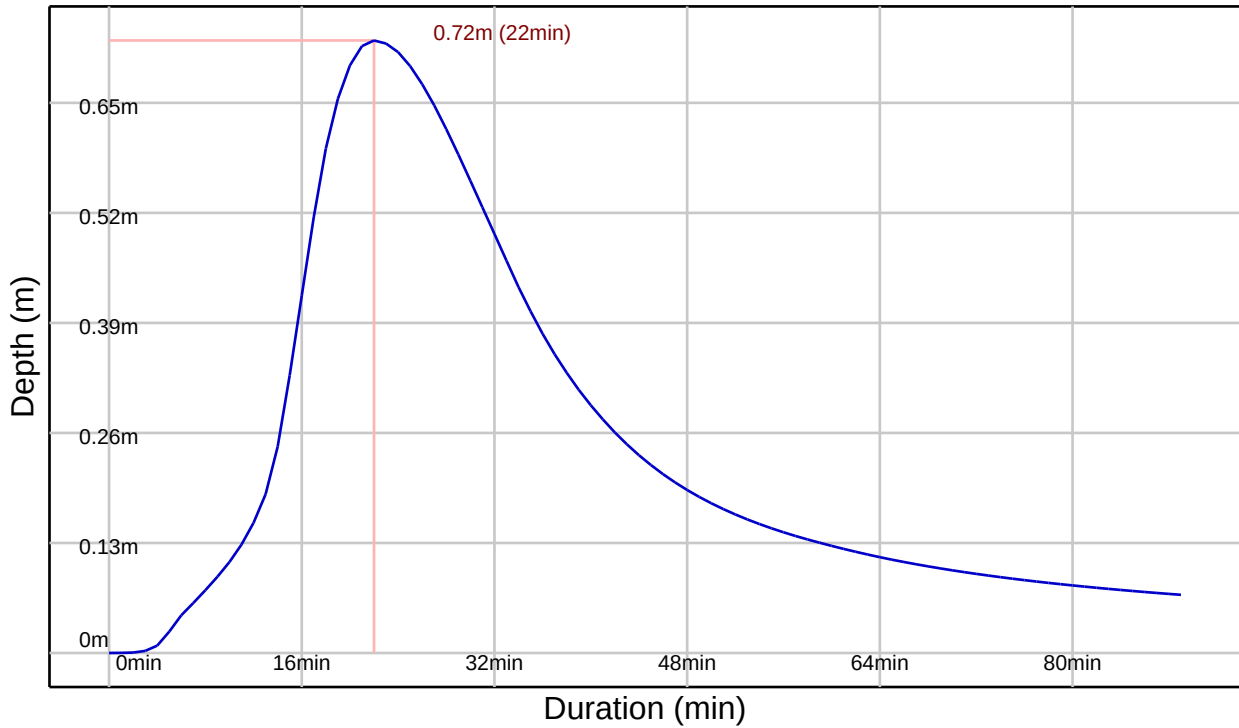
Pond Structure at Manhole S19

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
22.550	1.500	971.640	23.750	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S19



Pond 3 at S19 (100Yr+45% 30Min Summer)

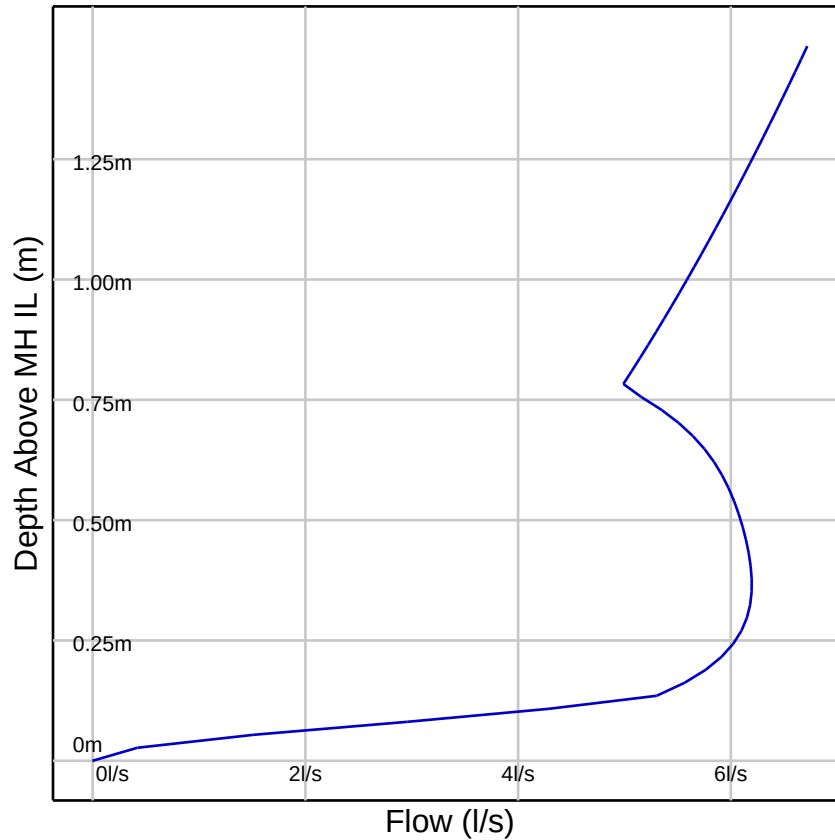


Controls within Manhole S36

Hydro-Brake® Optimum Control

Model Ref	Design Depth (m)	Design Flow (l/s)	Invert Offset (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0113-6200-1250-6200	1.250	6.200	0.000	0.365	6.197	0.777	4.972

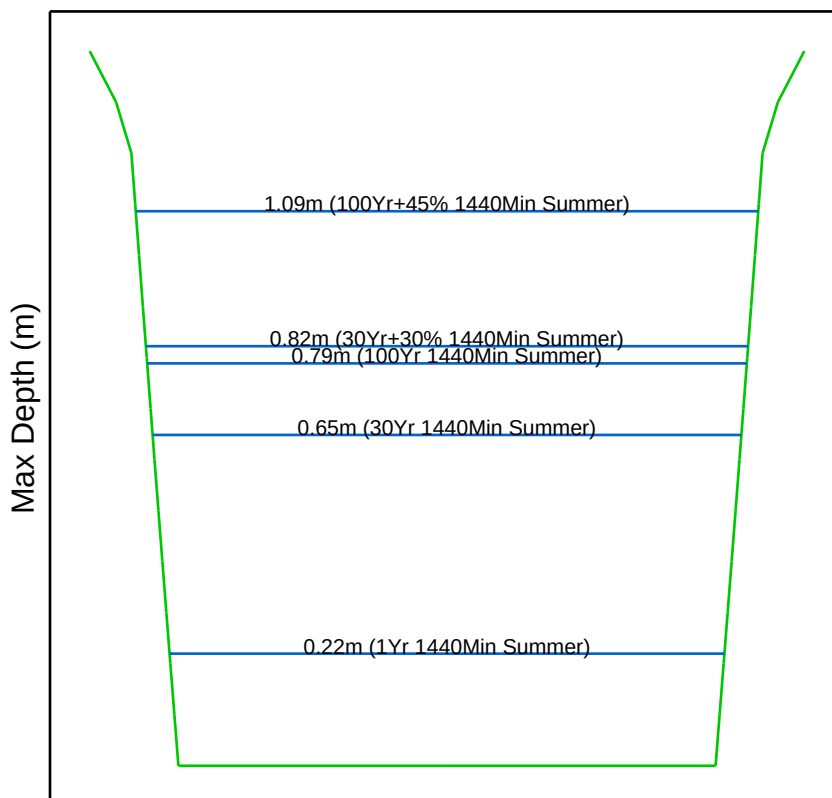
Hydro-Brake® Optimum Control from S36 to S41



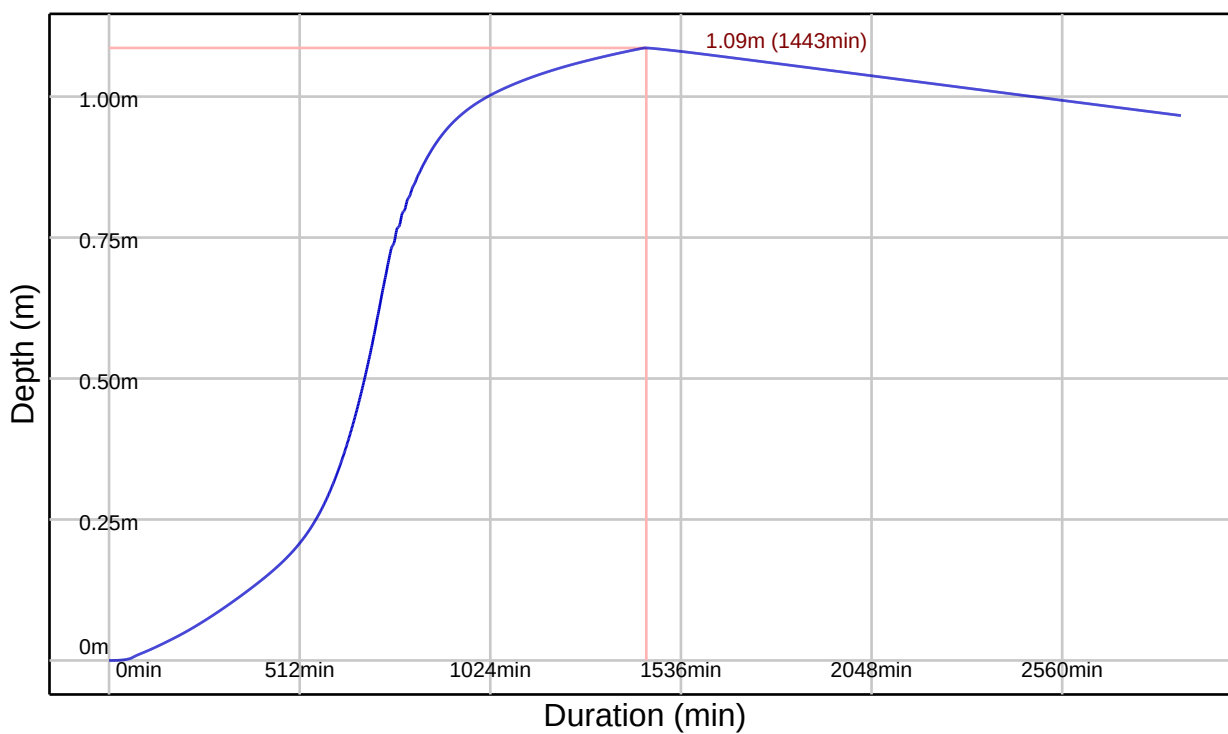
Pond Structure at Manhole S36

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
22.000	1.400	2779.626	23.100	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S36



Pond 4 at S36 (100Yr+45% 1440Min Summer)



Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_495613_106737_v5_1_0.xml

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Periods (yrs) + Climate Change: (1, +0%), (30, +0%), (30, +30%), (100, +0%), (100, +45%)

Manhole Flood Risk Freeboard: 0.300m

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	15.865	0.00	-0.21	30Yr+30% 360Min Summer	12.062	0.00	0.06
1Yr 15Min Summer	15.865	0.00	-0.19	30Yr+30% 360Min Winter	12.062	0.00	0.06
1Yr 30Min Winter	10.336	0.00	-0.20	30Yr+30% 480Min Summer	9.568	0.00	0.06
1Yr 30Min Summer	10.336	0.00	-0.20	30Yr+30% 480Min Winter	9.568	0.00	0.06
1Yr 60Min Summer	6.573	0.00	-0.13	30Yr+30% 600Min Summer	7.969	0.00	0.07
1Yr 60Min Winter	6.573	0.00	-0.11	30Yr+30% 600Min Winter	7.969	0.00	0.07
1Yr 120Min Winter	5.324	0.00	-0.04	30Yr+30% 720Min Summer	6.848	0.00	0.07
1Yr 120Min Summer	5.324	0.00	-0.03	30Yr+30% 720Min Winter	6.848	0.00	0.07
1Yr 180Min Summer	4.524	0.00	-0.04	30Yr+30% 960Min Summer	5.390	0.00	0.07
1Yr 180Min Winter	4.524	0.00	-0.04	30Yr+30% 960Min Winter	5.390	0.00	0.07
1Yr 240Min Winter	3.770	0.00	-0.04	30Yr+30% 1440Min Summer	3.858	0.00	0.05
1Yr 240Min Summer	3.770	0.00	-0.03	30Yr+30% 1440Min Winter	3.858	0.00	0.05
1Yr 360Min Summer	2.938	0.00	-0.03	100Yr 15Min Summer	103.034	0.00	-0.33
1Yr 360Min Winter	2.938	0.00	-0.03	100Yr 15Min Winter	103.034	0.00	-0.34
1Yr 480Min Summer	2.442	0.00	-0.03	100Yr 30Min Summer	69.314	0.00	-0.20
1Yr 480Min Winter	2.442	0.00	-0.03	100Yr 30Min Winter	69.314	0.00	-0.17
1Yr 600Min Summer	2.083	0.00	-0.02	100Yr 60Min Summer	44.642	0.00	-0.02
1Yr 600Min Winter	2.083	0.00	-0.03	100Yr 60Min Winter	44.642	0.00	-0.03
1Yr 720Min Winter	1.818	0.00	-0.03	100Yr 120Min Summer	26.840	0.00	-0.06
1Yr 720Min Summer	1.818	0.00	-0.02	100Yr 120Min Winter	26.840	0.00	-0.02
1Yr 960Min Summer	1.472	0.00	-0.02	100Yr 180Min Summer	19.693	0.00	-0.01
1Yr 960Min Winter	1.472	0.00	-0.02	100Yr 180Min Winter	19.693	0.00	-0.00
1Yr 1440Min Summer	1.105	0.00	-0.02	100Yr 240Min Summer	15.826	0.00	0.03
1Yr 1440Min Winter	1.105	0.00	-0.02	100Yr 240Min Winter	15.826	0.00	0.02
30Yr 15Min Summer	82.406	0.00	-0.29	100Yr 360Min Summer	11.488	0.00	0.04
30Yr 15Min Winter	82.406	0.00	-0.28	100Yr 360Min Winter	11.488	0.00	0.04
30Yr 30Min Summer	54.968	0.00	-0.20	100Yr 480Min Summer	9.116	0.00	0.04
30Yr 30Min Winter	54.968	0.00	-0.15	100Yr 480Min Winter	9.116	0.00	0.04
30Yr 60Min Summer	35.047	0.00	-0.02	100Yr 600Min Summer	7.606	0.00	0.05
30Yr 60Min Winter	35.047	0.00	-0.01	100Yr 600Min Winter	7.606	0.00	0.05
30Yr 120Min Summer	21.498	0.00	-0.07	100Yr 720Min Summer	6.548	0.00	0.05
30Yr 120Min Winter	21.498	0.00	-0.04	100Yr 720Min Winter	6.548	0.00	0.05
30Yr 180Min Summer	15.933	0.00	-0.05	100Yr 960Min Summer	5.157	0.00	0.05
30Yr 180Min Winter	15.933	0.00	-0.05	100Yr 960Min Winter	5.157	0.00	0.05
30Yr 240Min Summer	12.783	0.00	-0.04	100Yr 1440Min Summer	3.685	0.00	0.03
30Yr 240Min Winter	12.783	0.00	-0.04	100Yr 1440Min Winter	3.685	0.00	0.03
30Yr 360Min Summer	9.278	0.00	-0.03	100Yr+45% 15Min Summer	149.400	0.00	-0.45
30Yr 360Min Winter	9.278	0.00	-0.04	100Yr+45% 15Min Winter	149.400	0.00	-0.37
30Yr 480Min Summer	7.360	0.00	-0.03	100Yr+45% 30Min Summer	100.505	0.00	-0.17
30Yr 480Min Winter	7.360	0.00	-0.03	100Yr+45% 30Min Winter	100.505	0.00	-0.09
30Yr 600Min Summer	6.130	0.00	-0.03	100Yr+45% 60Min Summer	64.731	0.00	0.04
30Yr 600Min Winter	6.130	0.00	-0.02	100Yr+45% 60Min Winter	64.731	0.00	0.07
30Yr 720Min Summer	5.268	0.00	-0.03	100Yr+45% 120Min Summer	38.918	0.00	0.09
30Yr 720Min Winter	5.268	0.00	-0.02	100Yr+45% 120Min Winter	38.918	0.00	0.11
30Yr 960Min Summer	4.146	0.00	-0.03	100Yr+45% 180Min Summer	28.555	0.00	0.12
30Yr 960Min Winter	4.146	0.00	-0.02	100Yr+45% 180Min Winter	28.555	0.00	0.12
30Yr 1440Min Summer	2.968	0.00	-0.03	100Yr+45% 240Min Summer	22.947	0.00	0.14
30Yr 1440Min Winter	2.968	0.00	-0.02	100Yr+45% 240Min Winter	22.947	0.00	0.14
30Yr+30% 15Min Summer	107.128	0.00	-0.31	100Yr+45% 360Min Summer	16.657	0.00	0.15
30Yr+30% 15Min Winter	107.128	0.00	-0.34	100Yr+45% 360Min Winter	16.657	0.00	0.16
30Yr+30% 30Min Summer	71.458	0.00	-0.19	100Yr+45% 480Min Summer	13.218	0.00	0.16
30Yr+30% 30Min Winter	71.458	0.00	-0.17	100Yr+45% 480Min Winter	13.218	0.00	0.16
30Yr+30% 60Min Summer	45.561	0.00	-0.03	100Yr+45% 600Min Summer	11.029	0.00	0.17
30Yr+30% 60Min Winter	45.561	0.00	-0.03	100Yr+45% 600Min Winter	11.029	0.00	0.17

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
30Yr+30% 120Min Summer	27.948	0.00	-0.04	100Yr+45% 720Min Summer	9.494	0.00	0.17
30Yr+30% 120Min Winter	27.948	0.00	-0.00	100Yr+45% 720Min Winter	9.494	0.00	0.17
30Yr+30% 180Min Summer	20.712	0.00	0.01	100Yr+45% 960Min Summer	7.477	0.00	0.17
30Yr+30% 180Min Winter	20.712	0.00	0.02	100Yr+45% 960Min Winter	7.477	0.00	0.17
30Yr+30% 240Min Summer	16.618	0.00	0.04	100Yr+45% 1440Min Winter	5.343	0.00	0.15
30Yr+30% 240Min Winter	16.618	0.00	0.04	100Yr+45% 1440Min Summer	5.343	0.00	0.16

Simulation Results

Return Period (yrs) + Climate Change (%):

1yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	15 min Summer	9	25.819	0.058	3.192		OK
S2	15 min Summer	10	25.697	0.067	6.827		OK
S3	15 min Summer	8	26.575	0.055	13.079		OK
S4	15 min Summer	9	25.455	0.115	30.315		OK
S5	15 min Summer	8	25.899	0.058	12.025		OK
S6	15 min Summer	9	25.069	0.118	48.463		OK
S7	15 min Summer	10	24.383	0.092	47.053		OK
S8	15 min Summer	8	25.365	0.059	7.435		OK
S9	15 min Summer	8	25.096	0.055	13.306		OK
S10	15 min Summer	9	23.908	0.112	75.408		OK
S11	15 min Summer	8	22.936	0.376	67.860		OK
S12	15 min Summer	8	25.640	0.050	6.948		OK
S39	15 min Summer	8	25.554	0.047	6.926		OK
S13	15 min Summer	8	25.143	0.055	9.298		OK
S38	15 min Summer	9	24.721	0.055	9.149		OK
S14	15 min Summer	9	24.085	0.065	15.305		OK
S15	15 min Summer	9	23.653	0.079	16.804		OK
S16	15 min Summer	9	23.054	0.144	42.307		OK
S17	15 min Summer	10	22.860	0.105	43.508		OK
S18	15 min Summer	8	22.779	0.219	42.443		OK
S19	180 min Summer	104	22.663	0.113	48.204		OK
S20	180 min Summer	101	22.447	0.110	58.501		OK
S21	60 min Summer	41	22.375	0.355	34.519		OK
S22	15 min Summer	8	26.788	0.042	4.505		OK
S23	15 min Summer	8	26.443	0.062	16.415		OK
S40	15 min Summer	9	25.235	0.061	16.002		OK
S24	15 min Summer	9	24.498	0.083	25.975		OK
S25	15 min Summer	8	24.458	0.028	2.747		OK
S26	15 min Summer	9	24.245	0.033	4.252		OK
S27	15 min Summer	9	23.530	0.102	33.466		OK
S28	60 min Summer	41	22.374	0.204	7.137		OK
S29	60 min Summer	41	22.373	0.253	6.702		OK
S30	15 min Summer	8	24.406	0.063	15.155		OK
S31	15 min Summer	8	23.270	0.060	17.335		OK
S32	15 min Summer	8	22.766	0.051	17.216		OK
S33	60 min Summer	40	22.373	0.287	11.588		OK
S34	60 min Summer	40	22.373	0.353	11.591		OK
S35	60 min Summer	41	22.373	0.373	43.240		OK
S36	1440 min Summer	1081	22.220	0.220	5.610		Surcharged
S41	1440 min Summer	1081	21.885	0.035	5.615		OK
S37	1440 min Summer	1081	21.095	0.035	5.615		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	9	S1	S2	0.052	0.458	3.161	0.142	OK
1.001	15 min Summer	10	S2	S4	0.065	0.636	7.203	0.112	OK
2.000	15 min Summer	8	S3	S4	0.055	1.447	12.778	0.075	OK
1.002	15 min Summer	9	S4	S6	0.114	1.049	29.567	0.206	OK
3.000	15 min Summer	9	S5	S6	0.058	1.230	11.730	0.084	OK
1.003	15 min Summer	9	S6	S7	0.105	1.717	48.184	0.143	OK
1.004	15 min Summer	10	S7	S10	0.102	1.791	47.787	0.096	OK
4.000	15 min Summer	8	S8	S9	0.057	0.928	7.373	0.148	OK
4.001	15 min Summer	8	S9	S10	0.055	1.744	13.124	0.133	OK
1.005	15 min Summer	9	S10	S11	0.110	2.483	74.906	0.135	OK
1.006	15 min Summer	9	S11	S19	0.195	1.740	101.281	0.311	OK
5.000	15 min Summer	8	S12	S39	0.048	1.099	6.926	0.101	OK
5.001	15 min Summer	8	S39	S13	0.051	1.010	6.879	0.100	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
5.002	15 min Summer	9	S13	S38	0.055	1.241	9.221	0.130	OK
5.003	15 min Summer	9	S38	S14	0.054	1.246	9.239	0.130	OK
5.004	15 min Summer	9	S14	S15	0.072	1.201	15.347	0.107	OK
5.005	15 min Summer	9	S15	S16	0.078	1.128	16.560	0.153	OK
5.006	15 min Summer	9	S16	S17	0.124	1.086	42.527	0.171	OK
5.007	15 min Summer	10	S17	S18	0.158	1.114	45.420	0.087	OK
5.008	180 min Summer	98	S18	S19	0.121	0.566	25.668	0.074	OK
1.007	180 min Summer	104	S19	S20	0.111	1.249	47.672	0.063	OK
1.008	60 min Summer	41	S20	S21	0.181	1.239	36.985	0.037	OK
1.009	60 min Summer	44	S21	S35	0.364	0.406	47.318	0.056	OK
6.000	15 min Summer	8	S22	S23	0.042	0.873	4.438	0.076	OK
6.001	15 min Summer	8	S23	S40	0.061	1.575	16.294	0.093	OK
6.002	15 min Summer	9	S40	S24	0.072	1.249	16.165	0.093	OK
6.003	15 min Summer	9	S24	S27	0.082	1.666	26.189	0.167	OK
7.000	15 min Summer	8	S25	S26	0.031	0.718	2.720	0.020	OK
7.001	15 min Summer	9	S26	S27	0.033	1.022	4.310	0.026	OK
6.004	15 min Summer	9	S27	S28	0.101	1.562	32.512	0.249	OK
6.005	60 min Summer	41	S28	S29	0.228	0.604	21.287	0.128	OK
6.006	60 min Summer	41	S29	S33	0.270	0.431	19.064	0.115	OK
8.000	15 min Summer	8	S30	S31	0.061	1.726	15.063	0.166	OK
8.001	15 min Summer	8	S31	S32	0.055	1.925	17.216	0.082	OK
8.002	15 min Summer	8	S32	S33	0.049	2.262	17.165	0.061	OK
6.007	60 min Summer	40	S33	S34	0.301	0.556	28.370	0.171	OK
6.008	60 min Summer	46	S34	S35	0.363	0.202	38.375	0.057	OK
1.010	1440 min Summer	1080	S35	S36	0.220	0.709	31.773	0.034	OK
1.011	1440 min Summer	1081	S36	S41	0.043	1.336	5.615	0.310	OK
1.012	1440 min Summer	1081	S41	S37	0.035	1.793	5.615	0.125	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 169	240 min Summer	141	26.793	0.010	0.153			OK
Permeable Paving 170	360 min Summer	201	26.793	0.010	0.157			OK
Permeable Paving 171	360 min Summer	211	26.796	0.014	0.232			OK
Permeable Paving 14	360 min Summer	207	26.795	0.012	0.198			OK
Permeable Paving 15	360 min Summer	206	26.794	0.012	0.190			OK
Permeable Paving 16	360 min Summer	203	26.793	0.011	0.166			OK
Permeable Paving 17	180 min Summer	106	26.791	0.008	0.106			OK
Permeable Paving 18	240 min Summer	137	26.791	0.009	0.126			OK
Permeable Paving 72	240 min Summer	139	26.792	0.010	0.146			OK
Permeable Paving 12	240 min Summer	138	27.648	0.009	0.123			OK
Permeable Paving 13	480 min Summer	279	27.655	0.015	0.281			OK
Permeable Paving 21	240 min Summer	137	27.648	0.009	0.119			OK
Permeable Paving 22	240 min Summer	136	27.648	0.008	0.111			OK
Permeable Paving 19	240 min Summer	137	26.791	0.009	0.126			OK
Permeable Paving 20	240 min Summer	138	26.792	0.009	0.129			OK
Permeable Paving 23	360 min Summer	201	26.793	0.010	0.158			OK
Permeable Paving 26	180 min Summer	102	26.789	0.007	0.080			OK
Permeable Paving 27	360 min Summer	206	26.794	0.012	0.188			OK
Permeable Paving 28	240 min Summer	137	26.791	0.009	0.126			OK
Permeable Paving 29	180 min Summer	102	26.789	0.007	0.079			OK
Permeable Paving 5	180 min Summer	103	26.968	0.007	0.093			OK
Permeable Paving 6	360 min Summer	209	26.973	0.013	0.219			OK
Permeable Paving 7	180 min Summer	103	26.968	0.007	0.092			OK
Permeable Paving 8	360 min Summer	209	26.973	0.013	0.222			OK
Permeable Paving 9	240 min Summer	139	26.970	0.010	0.143			OK
Permeable Paving 10	240 min Summer	139	26.970	0.010	0.143			OK
Permeable Paving 24	240 min Summer	137	26.230	0.009	0.118			OK
Permeable Paving 25	360 min Summer	206	26.234	0.012	0.188			OK
Permeable Paving 44	240 min Summer	139	26.231	0.009	0.132			OK
Permeable Paving 45	180 min Summer	103	26.229	0.007	0.086			OK
Permeable Paving 52	240 min Summer	138	26.231	0.009	0.131			OK
Permeable Paving 53	360 min Summer	203	26.233	0.011	0.170			OK
Permeable Paving 56	360 min Summer	204	26.233	0.011	0.177			OK
Permeable Paving 47	480 min Summer	280	25.577	0.016	0.290			OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 54	240 min Summer	136	25.570	0.008	0.113			OK
Permeable Paving 55	240 min Summer	136	25.570	0.008	0.113			OK
Permeable Paving 57	240 min Summer	137	25.570	0.009	0.118			OK
Permeable Paving 58	240 min Summer	137	25.570	0.009	0.118			OK
Permeable Paving 74	180 min Summer	104	25.569	0.008	0.103			OK
Permeable Paving 60	360 min Summer	206	25.763	0.012	0.198			OK
Permeable Paving 61	240 min Summer	138	25.760	0.009	0.126			OK
Permeable Paving 59	240 min Summer	138	25.494	0.009	0.131			OK
Permeable Paving 160	480 min Summer	277	24.165	0.015	0.263			OK
Permeable Paving 30	180 min Summer	103	24.158	0.007	0.087			OK
Permeable Paving 31	180 min Summer	103	24.158	0.007	0.092			OK
Permeable Paving 32	180 min Summer	103	24.158	0.007	0.087			OK
Permeable Paving 33	240 min Summer	138	24.160	0.009	0.127			OK
Permeable Paving 34	180 min Summer	105	24.159	0.008	0.107			OK
Permeable Paving 35	240 min Summer	138	24.160	0.009	0.132			OK
Permeable Paving 36	360 min Summer	205	24.162	0.012	0.181			OK
Permeable Paving 37	360 min Summer	206	24.162	0.012	0.190			OK
Permeable Paving 38	240 min Summer	137	24.159	0.009	0.123			OK
Permeable Paving 39	360 min Summer	204	24.162	0.011	0.182			OK
Permeable Paving 40	240 min Summer	140	24.161	0.010	0.148			OK
Permeable Paving 41	240 min Summer	137	24.159	0.009	0.126			OK
Permeable Paving 42	240 min Summer	138	24.160	0.009	0.127			OK
Permeable Paving 43	240 min Summer	137	24.159	0.009	0.123			OK
Permeable Paving 46	360 min Summer	202	24.161	0.011	0.164			OK
Permeable Paving 50	240 min Summer	137	24.159	0.009	0.126			OK
Permeable Paving 51	240 min Summer	138	24.160	0.009	0.132			OK
Permeable Paving 172	240 min Summer	138	24.159	0.009	0.123			OK
Permeable Paving 156	240 min Summer	139	23.957	0.010	0.142			OK
Permeable Paving 157	480 min Summer	278	23.963	0.015	0.268			OK
Permeable Paving 48	360 min Summer	210	23.961	0.013	0.218			OK
Permeable Paving 49	360 min Summer	201	23.958	0.010	0.160			OK
Permeable Paving 73	360 min Summer	207	23.960	0.012	0.208			OK
Permeable Paving 3	480 min Summer	281	27.118	0.016	0.304			OK
Permeable Paving 4	240 min Summer	139	25.545	0.010	0.140			OK
Permeable Paving 65	360 min Summer	202	25.546	0.011	0.164			OK
Permeable Paving 66	240 min Summer	135	25.544	0.008	0.108			OK
Permeable Paving 67	180 min Summer	105	25.543	0.008	0.104			OK
Permeable Paving 70	240 min Summer	137	25.544	0.009	0.119			OK
Permeable Paving 71	240 min Summer	137	25.544	0.009	0.121			OK
Permeable Paving 62	240 min Summer	138	25.559	0.009	0.130			OK
Permeable Paving 63	240 min Summer	138	25.559	0.009	0.129			OK
Permeable Paving 77	180 min Summer	106	25.558	0.008	0.106			OK
Permeable Paving 64	240 min Summer	139	25.342	0.009	0.136			OK
Permeable Paving 11	240 min Summer	139	24.708	0.009	0.135			OK
Permeable Paving 68	240 min Summer	141	24.709	0.010	0.153			OK
Permeable Paving 69	240 min Summer	137	24.707	0.009	0.118			OK
Permeable Paving 75	480 min Summer	277	24.713	0.015	0.261			OK
Permeable Paving 1	180 min Summer	104	24.871	0.007	0.094			OK
Permeable Paving 2	180 min Summer	106	24.872	0.008	0.108			OK
Permeable Paving 76	240 min Summer	136	24.872	0.008	0.110			OK

Return Period (yrs) + Climate Change (%):

30yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	15 min Summer	9	25.901	0.140	16.576		OK
S2	15 min Summer	9	25.800	0.170	41.124		OK
S3	15 min Summer	8	26.648	0.129	67.971		OK
S4	15 min Summer	9	25.684	0.344	162.632		OK
S5	15 min Summer	8	25.981	0.141	62.515		OK
S6	15 min Summer	9	25.250	0.299	254.868		OK
S7	15 min Summer	9	24.534	0.242	255.115		OK
S8	15 min Summer	8	25.457	0.151	38.636		OK
S9	15 min Summer	8	25.182	0.141	69.197		OK
S10	15 min Summer	9	24.095	0.299	399.428		OK
S11	15 min Winter	5	23.129	0.569	152.014		OK
S12	15 min Summer	8	25.717	0.127	36.093		OK
S39	15 min Summer	8	25.622	0.116	36.023		OK
S13	15 min Summer	8	25.227	0.140	48.405		OK
S38	15 min Summer	9	24.804	0.138	47.226		OK
S14	15 min Summer	8	24.184	0.164	80.360		OK
S15	15 min Summer	9	23.781	0.207	87.362		OK
S16	15 min Summer	8	23.267	0.357	224.150		OK
S17	15 min Summer	9	23.042	0.287	247.307		OK
S18	30 min Summer	22	22.989	0.429	76.952		OK
S19	30 min Summer	22	22.975	0.425	220.340		OK
S20	30 min Summer	22	22.943	0.606	326.116		OK
S21	15 min Summer	12	22.939	0.919	106.115		OK
S22	15 min Summer	8	26.847	0.101	23.401		OK
S23	15 min Summer	8	26.531	0.150	85.405		OK
S40	15 min Summer	8	25.318	0.144	84.926		OK
S24	15 min Summer	10	24.650	0.234	117.037		OK
S25	15 min Summer	8	24.494	0.065	14.294		OK
S26	15 min Summer	8	24.286	0.074	22.858		OK
S27	15 min Summer	11	24.180	0.752	114.687		Surcharged
S28	15 min Summer	11	23.068	0.898	130.194		Surcharged
S29	15 min Summer	11	23.032	0.912	118.400		Surcharged
S30	15 min Summer	8	24.512	0.169	78.750		OK
S31	15 min Summer	8	23.355	0.145	90.131		OK
S32	30 min Summer	17	23.022	0.307	74.755		Surcharged
S33	15 min Summer	11	23.005	0.919	165.130		Surcharged
S34	15 min Summer	11	22.963	0.943	164.632		OK
S35	15 min Summer	11	22.932	0.932	178.554		Surcharged
S36	1440 min Summer	1434	22.648	0.648	5.576		Surcharged
S41	480 min Summer	283	21.887	0.037	6.196		OK
S37	360 min Winter	231	21.096	0.036	6.196		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	9	S1	S2	0.124	0.756	16.918	0.758	OK
1.001	15 min Summer	9	S2	S4	0.219	0.799	41.215	0.639	OK
2.000	15 min Summer	9	S3	S4	0.198	1.887	67.535	0.396	OK
1.002	15 min Summer	9	S4	S6	0.317	1.583	156.635	1.092	OK
3.000	15 min Summer	9	S5	S6	0.142	1.913	62.162	0.444	OK
1.003	15 min Summer	9	S6	S7	0.271	2.552	254.819	0.758	OK
1.004	15 min Summer	9	S7	S10	0.271	2.668	254.232	0.510	OK
4.000	15 min Summer	8	S8	S9	0.146	1.401	38.368	0.769	OK
4.001	15 min Summer	8	S9	S10	0.138	2.673	68.547	0.694	OK
1.005	15 min Summer	9	S10	S11	0.285	3.759	399.118	0.721	OK
1.006	30 min Summer	21	S11	S19	0.427	2.049	360.412	1.106	OK
5.000	15 min Summer	8	S12	S39	0.121	1.645	36.023	0.524	OK
5.001	15 min Summer	8	S39	S13	0.128	1.537	35.842	0.521	OK
5.002	15 min Summer	8	S13	S38	0.139	1.868	48.043	0.675	OK
5.003	15 min Summer	9	S38	S14	0.135	1.916	47.918	0.674	OK
5.004	15 min Summer	9	S14	S15	0.185	1.767	80.091	0.560	OK
5.005	15 min Summer	9	S15	S16	0.203	1.726	88.070	0.811	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
5.006	15 min Summer	9	S16	S17	0.321	1.619	224.723	0.903	OK
5.007	30 min Summer	22	S17	S18	0.327	1.816	223.590	0.429	OK
5.008	30 min Summer	22	S18	S19	0.427	1.545	219.066	0.631	OK
1.007	30 min Summer	25	S19	S20	0.516	1.933	381.923	0.502	OK
1.008	30 min Summer	25	S20	S21	0.640	1.701	429.477	0.432	OK
1.009	15 min Summer	20	S21	S35	0.925	0.792	380.846	0.453	OK
6.000	15 min Summer	8	S22	S23	0.099	1.377	23.181	0.399	OK
6.001	15 min Summer	8	S23	S40	0.147	2.466	84.926	0.486	OK
6.002	15 min Summer	9	S40	S24	0.188	1.868	84.207	0.482	OK
6.003	15 min Summer	10	S24	S27	0.267	2.418	137.260	0.877	OK
7.000	15 min Summer	8	S25	S26	0.069	1.153	14.209	0.105	OK
7.001	15 min Summer	9	S26	S27	0.187	1.450	22.657	0.139	OK
6.004	15 min Winter	9	S27	S28	0.300	2.076	130.463	1.000	Surcharged
6.005	30 min Summer	18	S28	S29	0.450	0.843	134.065	0.809	OK
6.006	30 min Summer	18	S29	S33	0.450	0.856	136.122	0.821	OK
8.000	15 min Summer	8	S30	S31	0.157	2.657	78.329	0.864	OK
8.001	30 min Summer	17	S31	S32	0.213	2.657	81.165	0.385	OK
8.002	30 min Summer	17	S32	S33	0.300	2.802	78.555	0.280	Surcharged
6.007	30 min Summer	18	S33	S34	0.450	1.252	199.179	1.202	OK
6.008	15 min Summer	12	S34	S35	0.938	0.264	187.100	0.278	OK
1.010	1440 min Summer	1434	S35	S36	0.648	0.891	133.246	0.142	OK
1.011	240 min Winter	168	S36	S41	0.045	1.373	6.196	0.342	OK
1.012	480 min Summer	283	S41	S37	0.037	1.843	6.196	0.137	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 169	60 min Summer	41	26.822	0.039	1.403			OK
Permeable Paving 170	60 min Summer	41	26.822	0.040	1.450			OK
Permeable Paving 171	60 min Summer	42	26.831	0.048	1.361			OK
Permeable Paving 14	60 min Summer	42	26.828	0.045	1.042			OK
Permeable Paving 15	60 min Summer	42	26.827	0.044	0.986			OK
Permeable Paving 16	60 min Summer	41	26.824	0.041	1.595			OK
Permeable Paving 17	60 min Summer	41	26.814	0.031	0.800			OK
Permeable Paving 18	60 min Summer	41	26.817	0.035	0.996			OK
Permeable Paving 72	60 min Summer	41	26.820	0.038	1.241			OK
Permeable Paving 12	60 min Summer	41	27.674	0.035	1.013			OK
Permeable Paving 13	120 min Summer	75	27.692	0.052	1.745			OK
Permeable Paving 21	60 min Summer	41	27.673	0.034	0.937			OK
Permeable Paving 22	60 min Summer	41	27.672	0.032	0.854			OK
Permeable Paving 19	60 min Summer	41	26.817	0.035	0.995			OK
Permeable Paving 20	60 min Summer	41	26.818	0.035	1.062			OK
Permeable Paving 23	60 min Summer	41	26.823	0.040	1.466			OK
Permeable Paving 26	30 min Summer	24	26.807	0.025	0.559			OK
Permeable Paving 27	60 min Summer	42	26.827	0.044	0.970			OK
Permeable Paving 28	60 min Summer	41	26.817	0.035	0.997			OK
Permeable Paving 29	30 min Summer	24	26.807	0.025	0.553			OK
Permeable Paving 5	60 min Summer	40	26.988	0.027	0.645			OK
Permeable Paving 6	60 min Summer	42	27.007	0.047	1.203			OK
Permeable Paving 7	60 min Summer	40	26.987	0.027	0.643			OK
Permeable Paving 8	60 min Summer	42	27.007	0.047	1.214			OK
Permeable Paving 9	60 min Summer	41	26.998	0.037	1.218			OK
Permeable Paving 10	60 min Summer	41	26.998	0.037	1.214			OK
Permeable Paving 24	60 min Summer	41	26.255	0.034	0.934			OK
Permeable Paving 25	60 min Summer	42	26.266	0.044	0.970			OK
Permeable Paving 44	60 min Summer	41	26.258	0.036	1.124			OK
Permeable Paving 45	60 min Summer	39	26.248	0.026	0.644			OK
Permeable Paving 52	60 min Summer	41	26.257	0.036	1.079			OK
Permeable Paving 53	60 min Summer	41	26.263	0.042	1.637			OK
Permeable Paving 56	60 min Summer	42	26.264	0.043	0.868			OK
Permeable Paving 47	120 min Summer	75	25.614	0.053	1.857			OK
Permeable Paving 54	60 min Summer	41	25.594	0.033	0.870			OK
Permeable Paving 55	60 min Summer	41	25.594	0.032	0.865			OK
Permeable Paving 57	60 min Summer	41	25.595	0.034	0.933			OK
Permeable Paving 58	60 min Summer	41	25.595	0.034	0.934			OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 74	60 min Summer	40	25.591	0.029	0.757			OK
Permeable Paving 60	60 min Summer	42	25.796	0.045	1.027			OK
Permeable Paving 61	60 min Summer	41	25.786	0.035	1.036			OK
Permeable Paving 59	60 min Summer	41	25.521	0.036	1.074			OK
Permeable Paving 160	120 min Summer	74	24.201	0.051	1.739			OK
Permeable Paving 30	60 min Summer	39	24.177	0.026	0.647			OK
Permeable Paving 31	60 min Summer	40	24.178	0.027	0.643			OK
Permeable Paving 32	60 min Summer	39	24.177	0.026	0.645			OK
Permeable Paving 33	60 min Summer	41	24.186	0.035	1.047			OK
Permeable Paving 34	60 min Summer	41	24.181	0.031	0.774			OK
Permeable Paving 35	60 min Summer	41	24.186	0.036	1.083			OK
Permeable Paving 36	60 min Summer	42	24.194	0.043	0.902			OK
Permeable Paving 37	60 min Summer	42	24.195	0.044	0.979			OK
Permeable Paving 38	60 min Summer	41	24.185	0.034	0.970			OK
Permeable Paving 39	60 min Summer	42	24.194	0.043	0.892			OK
Permeable Paving 40	60 min Summer	41	24.189	0.039	1.337			OK
Permeable Paving 41	60 min Summer	41	24.185	0.034	0.992			OK
Permeable Paving 42	60 min Summer	41	24.186	0.035	1.044			OK
Permeable Paving 43	60 min Summer	41	24.185	0.034	0.969			OK
Permeable Paving 46	60 min Summer	41	24.192	0.041	1.579			OK
Permeable Paving 50	60 min Summer	41	24.185	0.034	0.993			OK
Permeable Paving 51	60 min Summer	41	24.186	0.036	1.082			OK
Permeable Paving 172	60 min Summer	41	24.185	0.035	1.010			OK
Permeable Paving 156	60 min Summer	41	23.985	0.037	1.212			OK
Permeable Paving 157	120 min Summer	75	23.999	0.052	1.664			OK
Permeable Paving 48	60 min Summer	42	23.995	0.047	1.250			OK
Permeable Paving 49	60 min Summer	41	23.988	0.040	1.484			OK
Permeable Paving 73	60 min Summer	42	23.993	0.046	1.093			OK
Permeable Paving 3	120 min Summer	76	27.156	0.054	1.879			OK
Permeable Paving 4	60 min Summer	41	25.573	0.037	1.190			OK
Permeable Paving 65	60 min Summer	41	25.577	0.041	1.579			OK
Permeable Paving 66	60 min Summer	41	25.566	0.031	0.785			OK
Permeable Paving 67	60 min Summer	40	25.566	0.030	0.800			OK
Permeable Paving 70	60 min Summer	41	25.569	0.034	0.938			OK
Permeable Paving 71	60 min Summer	41	25.569	0.034	0.951			OK
Permeable Paving 62	60 min Summer	41	25.585	0.036	1.071			OK
Permeable Paving 63	60 min Summer	41	25.585	0.035	1.056			OK
Permeable Paving 77	60 min Summer	41	25.581	0.031	0.800			OK
Permeable Paving 64	60 min Summer	41	25.369	0.037	1.159			OK
Permeable Paving 11	60 min Summer	41	24.735	0.037	1.147			OK
Permeable Paving 68	60 min Summer	41	24.738	0.039	1.394			OK
Permeable Paving 69	60 min Summer	41	24.732	0.033	0.928			OK
Permeable Paving 75	120 min Summer	74	24.749	0.051	1.726			OK
Permeable Paving 1	60 min Summer	40	24.892	0.028	0.689			OK
Permeable Paving 2	60 min Summer	41	24.895	0.031	0.813			OK
Permeable Paving 76	60 min Summer	41	24.896	0.032	0.846			OK

Return Period (yrs) + Climate Change (%):

30yr+30%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	15 min Summer	10	26.016	0.255	17.932		Surcharged
S2	15 min Summer	10	25.976	0.346	46.239		Surcharged
S3	15 min Summer	8	26.669	0.149	88.393		OK
S4	15 min Summer	10	25.862	0.522	179.546		Surcharged
S5	15 min Summer	8	26.002	0.162	81.311		OK
S6	15 min Summer	9	25.301	0.349	312.582		OK
S7	15 min Summer	9	24.574	0.283	312.656		OK
S8	15 min Summer	8	25.496	0.190	50.242		OK
S9	15 min Summer	8	25.213	0.173	89.912		OK
S10	15 min Summer	9	24.157	0.360	500.507		OK
S11	30 min Summer	20	23.101	0.541	310.407		OK
S12	15 min Summer	8	25.742	0.152	46.924		OK
S39	15 min Summer	8	25.645	0.138	46.830		OK
S13	15 min Summer	8	25.258	0.171	62.930		OK
S38	15 min Summer	9	24.834	0.168	61.424		OK
S14	15 min Summer	8	24.218	0.198	104.377		OK
S15	15 min Summer	9	23.840	0.266	113.537		OK
S16	15 min Summer	9	23.352	0.442	288.573		OK
S17	30 min Summer	21	23.100	0.345	129.198		OK
S18	30 min Summer	21	23.094	0.534	126.900		OK
S19	30 min Summer	22	23.088	0.538	307.635		OK
S20	30 min Summer	21	23.053	0.716	357.658		Surcharged
S21	15 min Summer	11	23.030	1.010	158.400		OK
S22	15 min Summer	8	26.864	0.118	30.424		OK
S23	15 min Summer	8	26.557	0.175	111.050		OK
S40	15 min Summer	10	25.447	0.273	92.081		OK
S24	15 min Summer	10	25.265	0.849	147.575		Surcharged
S25	15 min Summer	11	24.645	0.215	9.973		OK
S26	15 min Summer	11	24.680	0.468	6.624		Surcharged
S27	15 min Summer	11	24.626	1.197	152.190		Surcharged
S28	15 min Summer	11	23.174	1.004	147.066		Surcharged
S29	15 min Summer	11	23.126	1.006	156.017		Surcharged
S30	15 min Summer	9	24.855	0.511	98.273		Surcharged
S31	15 min Summer	10	23.401	0.191	105.897		OK
S32	15 min Summer	10	23.169	0.454	104.880		Surcharged
S33	15 min Summer	10	23.099	1.013	220.493		Surcharged
S34	15 min Summer	10	23.030	1.010	216.015		OK
S35	15 min Summer	11	23.018	1.018	216.824		Surcharged
S36	1440 min Summer	1443	22.822	0.822	5.194		Surcharged
S41	1440 min Winter	711	21.887	0.037	6.196		OK
S37	1440 min Winter	711	21.096	0.036	6.196		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	10	S1	S2	0.225	0.768	21.948	0.983	OK
1.001	15 min Summer	11	S2	S4	0.300	0.819	49.599	0.769	Surcharged
2.000	15 min Summer	8	S3	S4	0.225	1.847	87.887	0.516	OK
1.002	15 min Summer	10	S4	S6	0.345	1.761	187.363	1.306	OK
3.000	15 min Summer	9	S5	S6	0.178	1.967	80.784	0.577	OK
1.003	15 min Summer	9	S6	S7	0.316	2.622	312.193	0.929	OK
1.004	15 min Summer	9	S7	S10	0.322	2.760	311.611	0.626	OK
4.000	15 min Summer	8	S8	S9	0.181	1.452	49.825	0.999	OK
4.001	15 min Summer	8	S9	S10	0.168	2.798	89.003	0.901	OK
1.005	15 min Summer	9	S10	S11	0.339	3.894	500.241	0.903	OK
1.006	30 min Summer	21	S11	S19	0.539	2.105	453.995	1.393	OK
5.000	15 min Summer	8	S12	S39	0.145	1.727	46.830	0.681	OK
5.001	15 min Summer	8	S39	S13	0.154	1.602	46.597	0.678	OK
5.002	15 min Summer	8	S13	S38	0.169	1.951	62.426	0.878	OK
5.003	15 min Summer	9	S38	S14	0.164	2.009	62.322	0.876	OK
5.004	15 min Summer	9	S14	S15	0.231	1.845	103.960	0.727	OK
5.005	15 min Summer	9	S15	S16	0.262	1.784	113.308	1.044	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
5.006	15 min Summer	9	S16	S17	0.391	1.679	290.475	1.168	OK
5.007	30 min Summer	21	S17	S18	0.435	1.929	287.214	0.552	OK
5.008	30 min Summer	21	S18	S19	0.535	1.566	277.350	0.799	OK
1.007	30 min Summer	27	S19	S20	0.607	2.073	529.614	0.697	OK
1.008	30 min Winter	26	S20	S21	0.675	1.948	581.349	0.585	Surcharged
1.009	15 min Summer	20	S21	S35	1.014	0.906	526.345	0.626	OK
6.000	15 min Summer	8	S22	S23	0.115	1.468	30.147	0.519	OK
6.001	15 min Summer	10	S23	S40	0.213	2.572	111.048	0.636	OK
6.002	15 min Summer	10	S40	S24	0.287	1.879	102.192	0.585	OK
6.003	30 min Summer	16	S24	S27	0.300	2.391	143.836	0.919	Surcharged
7.000	15 min Summer	11	S25	S26	0.258	1.238	18.498	0.137	OK
7.001	30 min Summer	21	S26	S27	0.300	1.436	29.084	0.178	Surcharged
6.004	30 min Summer	19	S27	S28	0.300	2.105	148.764	1.140	Surcharged
6.005	30 min Summer	20	S28	S29	0.450	0.957	152.127	0.918	OK
6.006	60 min Summer	35	S29	S33	0.450	0.965	153.554	0.926	OK
8.000	15 min Summer	10	S30	S31	0.208	2.676	98.260	1.084	OK
8.001	15 min Summer	10	S31	S32	0.245	2.925	112.104	0.531	OK
8.002	15 min Winter	10	S32	S33	0.300	3.322	104.426	0.372	Surcharged
6.007	30 min Summer	18	S33	S34	0.450	1.464	232.869	1.405	OK
6.008	15 min Summer	12	S34	S35	1.011	0.277	218.147	0.324	OK
1.010	240 min Winter	229	S35	S36	0.675	2.436	397.196	0.424	Surcharged
1.011	1440 min Winter	711	S36	S41	0.045	1.373	6.196	0.342	OK
1.012	1440 min Winter	711	S41	S37	0.037	1.843	6.196	0.137	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 169	60 min Summer	42	26.831	0.048	1.572			OK
Permeable Paving 170	60 min Summer	42	26.831	0.049	1.624			OK
Permeable Paving 171	60 min Summer	44	26.844	0.062	2.227			OK
Permeable Paving 14	60 min Summer	43	26.839	0.057	2.231			OK
Permeable Paving 15	60 min Summer	43	26.838	0.055	2.109			OK
Permeable Paving 16	60 min Summer	43	26.833	0.051	1.658			OK
Permeable Paving 17	60 min Summer	40	26.820	0.037	1.048			OK
Permeable Paving 18	60 min Summer	41	26.824	0.041	1.205			OK
Permeable Paving 72	60 min Summer	42	26.828	0.046	1.390			OK
Permeable Paving 12	60 min Summer	41	27.681	0.042	1.227			OK
Permeable Paving 13	120 min Summer	75	27.707	0.068	2.294			OK
Permeable Paving 21	60 min Summer	40	27.680	0.040	1.227			OK
Permeable Paving 22	60 min Summer	40	27.678	0.039	1.120			OK
Permeable Paving 19	60 min Summer	41	26.824	0.041	1.204			OK
Permeable Paving 20	60 min Summer	41	26.825	0.043	1.285			OK
Permeable Paving 23	60 min Summer	42	26.831	0.049	1.642			OK
Permeable Paving 26	30 min Summer	23	26.812	0.030	0.744			OK
Permeable Paving 27	60 min Summer	43	26.838	0.055	2.074			OK
Permeable Paving 28	60 min Summer	41	26.824	0.041	1.207			OK
Permeable Paving 29	30 min Summer	23	26.812	0.030	0.737			OK
Permeable Paving 5	30 min Summer	23	26.993	0.033	0.906			OK
Permeable Paving 6	60 min Summer	44	27.020	0.059	1.967			OK
Permeable Paving 7	30 min Summer	23	26.993	0.033	0.903			OK
Permeable Paving 8	60 min Summer	44	27.020	0.059	1.987			OK
Permeable Paving 9	60 min Summer	41	27.006	0.045	1.474			OK
Permeable Paving 10	60 min Summer	41	27.006	0.045	1.469			OK
Permeable Paving 24	60 min Summer	40	26.262	0.040	1.223			OK
Permeable Paving 25	60 min Summer	43	26.277	0.055	2.076			OK
Permeable Paving 44	60 min Summer	41	26.265	0.044	1.360			OK
Permeable Paving 45	30 min Summer	23	26.253	0.032	0.847			OK
Permeable Paving 52	60 min Summer	41	26.265	0.043	1.306			OK
Permeable Paving 53	60 min Summer	43	26.273	0.051	1.701			OK
Permeable Paving 56	60 min Summer	43	26.275	0.053	1.853			OK
Permeable Paving 47	120 min Summer	75	25.630	0.069	2.443			OK
Permeable Paving 54	60 min Summer	40	25.600	0.039	1.140			OK
Permeable Paving 55	60 min Summer	40	25.600	0.039	1.133			OK
Permeable Paving 57	60 min Summer	40	25.601	0.040	1.223			OK
Permeable Paving 58	60 min Summer	40	25.601	0.040	1.223			OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 74	60 min Summer	39	25.596	0.035	1.001			OK
Permeable Paving 60	60 min Summer	43	25.807	0.056	2.195			OK
Permeable Paving 61	60 min Summer	41	25.793	0.042	1.254			OK
Permeable Paving 59	60 min Summer	41	25.528	0.043	1.300			OK
Permeable Paving 160	120 min Summer	75	24.216	0.066	2.063			OK
Permeable Paving 30	30 min Summer	23	24.182	0.032	0.850			OK
Permeable Paving 31	30 min Summer	23	24.183	0.033	0.904			OK
Permeable Paving 32	30 min Summer	23	24.182	0.032	0.848			OK
Permeable Paving 33	60 min Summer	41	24.193	0.042	1.267			OK
Permeable Paving 34	60 min Summer	40	24.187	0.037	1.014			OK
Permeable Paving 35	60 min Summer	41	24.194	0.043	1.311			OK
Permeable Paving 36	60 min Summer	43	24.204	0.054	1.928			OK
Permeable Paving 37	60 min Summer	43	24.206	0.055	2.092			OK
Permeable Paving 38	60 min Summer	41	24.191	0.041	1.174			OK
Permeable Paving 39	60 min Summer	43	24.204	0.053	1.907			OK
Permeable Paving 40	60 min Summer	42	24.198	0.047	1.498			OK
Permeable Paving 41	60 min Summer	41	24.192	0.041	1.201			OK
Permeable Paving 42	60 min Summer	41	24.193	0.042	1.264			OK
Permeable Paving 43	60 min Summer	41	24.191	0.041	1.173			OK
Permeable Paving 46	60 min Summer	43	24.201	0.050	1.642			OK
Permeable Paving 50	60 min Summer	41	24.192	0.041	1.202			OK
Permeable Paving 51	60 min Summer	41	24.193	0.043	1.310			OK
Permeable Paving 172	60 min Summer	41	24.192	0.042	1.222			OK
Permeable Paving 156	60 min Summer	41	23.993	0.045	1.467			OK
Permeable Paving 157	120 min Summer	75	24.014	0.067	2.189			OK
Permeable Paving 48	60 min Summer	44	24.008	0.060	2.046			OK
Permeable Paving 49	60 min Summer	42	23.997	0.049	1.662			OK
Permeable Paving 73	60 min Summer	44	24.005	0.057	1.788			OK
Permeable Paving 3	120 min Summer	75	27.172	0.071	2.654			OK
Permeable Paving 4	60 min Summer	41	25.580	0.045	1.441			OK
Permeable Paving 65	60 min Summer	43	25.586	0.050	1.641			OK
Permeable Paving 66	60 min Summer	40	25.572	0.037	1.029			OK
Permeable Paving 67	60 min Summer	40	25.572	0.036	0.978			OK
Permeable Paving 70	60 min Summer	40	25.576	0.040	1.229			OK
Permeable Paving 71	60 min Summer	40	25.576	0.040	1.246			OK
Permeable Paving 62	60 min Summer	41	25.593	0.043	1.297			OK
Permeable Paving 63	60 min Summer	41	25.592	0.042	1.279			OK
Permeable Paving 77	60 min Summer	40	25.587	0.037	1.048			OK
Permeable Paving 64	60 min Summer	41	25.377	0.044	1.403			OK
Permeable Paving 11	60 min Summer	41	24.743	0.044	1.388			OK
Permeable Paving 68	60 min Summer	42	24.746	0.048	1.562			OK
Permeable Paving 69	60 min Summer	40	24.738	0.040	1.216			OK
Permeable Paving 75	120 min Summer	75	24.764	0.065	2.047			OK
Permeable Paving 1	30 min Summer	24	24.897	0.034	0.869			OK
Permeable Paving 2	60 min Summer	40	24.901	0.038	1.066			OK
Permeable Paving 76	60 min Summer	40	24.902	0.038	1.108			OK

Return Period (yrs) + Climate Change (%):

100yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	15 min Summer	10	25.956	0.195	17.248		OK
S2	15 min Summer	10	25.929	0.299	42.592		OK
S3	15 min Summer	8	26.666	0.146	84.999		OK
S4	15 min Summer	10	25.830	0.490	172.223		Surcharged
S5	15 min Summer	8	25.999	0.158	78.181		OK
S6	15 min Summer	9	25.291	0.340	302.786		OK
S7	15 min Summer	9	24.567	0.276	302.842		OK
S8	15 min Summer	8	25.488	0.182	48.314		OK
S9	15 min Summer	8	25.208	0.167	86.486		OK
S10	15 min Summer	9	24.145	0.349	483.322		OK
S11	15 min Winter	5	23.107	0.547	192.380		OK
S12	15 min Summer	8	25.738	0.148	45.131		OK
S39	15 min Summer	8	25.641	0.134	45.042		OK
S13	15 min Summer	8	25.253	0.165	60.528		OK
S38	15 min Summer	9	24.828	0.162	59.075		OK
S14	15 min Summer	8	24.212	0.192	100.408		OK
S15	15 min Summer	9	23.826	0.253	109.221		OK
S16	15 min Summer	9	23.336	0.426	278.145		OK
S17	30 min Summer	17	23.087	0.332	276.498		OK
S18	30 min Summer	21	23.083	0.523	115.354		OK
S19	30 min Summer	22	23.074	0.524	306.832		OK
S20	30 min Summer	22	23.041	0.704	383.772		Surcharged
S21	15 min Summer	11	23.016	0.996	170.172		OK
S22	15 min Summer	8	26.861	0.115	29.261		OK
S23	15 min Summer	8	26.553	0.172	106.799		OK
S40	15 min Summer	10	25.393	0.219	88.636		OK
S24	15 min Summer	10	25.183	0.768	145.152		Surcharged
S25	15 min Summer	11	24.603	0.174	9.494		OK
S26	30 min Summer	19	24.571	0.358	17.536		Surcharged
S27	15 min Summer	11	24.573	1.144	138.128		Surcharged
S28	15 min Summer	11	23.156	0.986	145.299		Surcharged
S29	15 min Summer	11	23.110	0.989	155.221		Surcharged
S30	15 min Summer	9	24.753	0.409	94.512		Surcharged
S31	15 min Summer	10	23.388	0.178	101.907		OK
S32	15 min Summer	10	23.138	0.423	100.731		Surcharged
S33	15 min Summer	10	23.076	0.990	212.826		Surcharged
S34	15 min Summer	10	23.015	0.995	206.541		OK
S35	15 min Summer	11	23.009	1.009	207.517		Surcharged
S36	1440 min Summer	1437	22.788	0.788	4.093		Surcharged
S41	720 min Winter	380	21.887	0.037	6.196		OK
S37	1440 min Winter	724	21.096	0.036	6.196		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	10	S1	S2	0.210	0.786	20.986	0.940	OK
1.001	15 min Summer	11	S2	S4	0.299	0.829	49.287	0.764	OK
2.000	15 min Summer	8	S3	S4	0.223	1.851	84.506	0.496	OK
1.002	15 min Summer	10	S4	S6	0.343	1.717	181.944	1.268	OK
3.000	15 min Summer	9	S5	S6	0.172	1.963	77.649	0.554	OK
1.003	15 min Summer	9	S6	S7	0.308	2.613	302.435	0.900	OK
1.004	15 min Summer	9	S7	S10	0.312	2.746	301.706	0.606	OK
4.000	15 min Summer	8	S8	S9	0.175	1.447	47.934	0.961	OK
4.001	15 min Summer	8	S9	S10	0.163	2.783	85.645	0.867	OK
1.005	15 min Summer	9	S10	S11	0.329	3.879	483.012	0.872	OK
1.006	30 min Summer	22	S11	S19	0.524	2.107	443.240	1.360	OK
5.000	15 min Summer	8	S12	S39	0.141	1.716	45.042	0.655	OK
5.001	15 min Summer	8	S39	S13	0.150	1.595	44.819	0.652	OK
5.002	15 min Summer	8	S13	S38	0.163	1.941	60.045	0.844	OK
5.003	15 min Summer	9	S38	S14	0.159	1.998	59.942	0.843	OK
5.004	15 min Summer	9	S14	S15	0.222	1.835	100.024	0.699	OK
5.005	15 min Summer	9	S15	S16	0.246	1.780	109.675	1.010	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
5.006	15 min Summer	9	S16	S17	0.379	1.673	279.944	1.125	OK
5.007	30 min Summer	21	S17	S18	0.426	1.913	279.832	0.537	OK
5.008	30 min Summer	21	S18	S19	0.522	1.568	267.702	0.772	OK
1.007	30 min Summer	27	S19	S20	0.599	2.058	511.831	0.673	OK
1.008	30 min Winter	26	S20	S21	0.675	1.921	565.294	0.569	Surcharged
1.009	15 min Summer	20	S21	S35	1.003	0.880	501.037	0.596	OK
6.000	15 min Summer	8	S22	S23	0.113	1.455	28.992	0.499	OK
6.001	15 min Summer	9	S23	S40	0.184	2.562	106.432	0.610	OK
6.002	15 min Summer	10	S40	S24	0.259	1.890	100.473	0.576	OK
6.003	15 min Winter	9	S24	S27	0.300	2.470	147.060	0.940	Surcharged
7.000	15 min Summer	11	S25	S26	0.237	1.225	17.779	0.132	OK
7.001	30 min Summer	18	S26	S27	0.300	1.472	26.552	0.162	Surcharged
6.004	30 min Summer	19	S27	S28	0.300	2.068	146.157	1.120	Surcharged
6.005	30 min Summer	20	S28	S29	0.450	0.952	151.399	0.913	OK
6.006	30 min Summer	20	S29	S33	0.450	0.963	153.172	0.924	OK
8.000	15 min Summer	10	S30	S31	0.201	2.658	94.494	1.042	OK
8.001	15 min Summer	10	S31	S32	0.239	2.915	108.398	0.514	OK
8.002	15 min Winter	10	S32	S33	0.300	3.292	101.083	0.361	Surcharged
6.007	30 min Summer	17	S33	S34	0.450	1.459	232.050	1.400	OK
6.008	15 min Summer	12	S34	S35	0.998	0.275	212.700	0.316	OK
1.010	360 min Winter	308	S35	S36	0.675	2.050	246.026	0.262	Surcharged
1.011	720 min Winter	380	S36	S41	0.045	1.373	6.196	0.342	OK
1.012	1440 min Winter	724	S41	S37	0.037	1.843	6.196	0.137	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 169	60 min Summer	42	26.830	0.047	1.549			OK
Permeable Paving 170	60 min Summer	42	26.830	0.048	1.600			OK
Permeable Paving 171	60 min Summer	44	26.843	0.061	1.914			OK
Permeable Paving 14	60 min Summer	43	26.838	0.056	2.202			OK
Permeable Paving 15	60 min Summer	43	26.837	0.055	2.081			OK
Permeable Paving 16	60 min Summer	43	26.832	0.050	1.636			OK
Permeable Paving 17	60 min Summer	40	26.819	0.037	1.031			OK
Permeable Paving 18	60 min Summer	41	26.823	0.041	1.187			OK
Permeable Paving 72	60 min Summer	42	26.827	0.045	1.370			OK
Permeable Paving 12	60 min Summer	41	27.681	0.041	1.208			OK
Permeable Paving 13	60 min Summer	44	27.705	0.066	2.655			OK
Permeable Paving 21	60 min Summer	40	27.679	0.040	1.208			OK
Permeable Paving 22	60 min Summer	40	27.677	0.038	1.102			OK
Permeable Paving 19	60 min Summer	41	26.823	0.041	1.186			OK
Permeable Paving 20	60 min Summer	41	26.824	0.042	1.265			OK
Permeable Paving 23	60 min Summer	42	26.831	0.048	1.618			OK
Permeable Paving 26	30 min Summer	23	26.812	0.029	0.728			OK
Permeable Paving 27	60 min Summer	43	26.837	0.054	2.047			OK
Permeable Paving 28	60 min Summer	41	26.823	0.041	1.188			OK
Permeable Paving 29	30 min Summer	23	26.812	0.029	0.721			OK
Permeable Paving 5	60 min Summer	39	26.992	0.032	0.839			OK
Permeable Paving 6	60 min Summer	44	27.019	0.058	1.692			OK
Permeable Paving 7	60 min Summer	39	26.992	0.032	0.837			OK
Permeable Paving 8	60 min Summer	44	27.019	0.058	1.707			OK
Permeable Paving 9	60 min Summer	42	27.005	0.045	1.344			OK
Permeable Paving 10	60 min Summer	42	27.005	0.044	1.340			OK
Permeable Paving 24	60 min Summer	40	26.261	0.040	1.204			OK
Permeable Paving 25	60 min Summer	43	26.276	0.054	2.048			OK
Permeable Paving 44	60 min Summer	41	26.265	0.043	1.339			OK
Permeable Paving 45	30 min Summer	23	26.253	0.031	0.828			OK
Permeable Paving 52	60 min Summer	41	26.264	0.042	1.286			OK
Permeable Paving 53	60 min Summer	43	26.272	0.050	1.679			OK
Permeable Paving 56	60 min Summer	43	26.274	0.052	1.828			OK
Permeable Paving 47	60 min Summer	44	25.628	0.067	2.828			OK
Permeable Paving 54	60 min Summer	40	25.600	0.038	1.122			OK
Permeable Paving 55	60 min Summer	40	25.599	0.038	1.116			OK
Permeable Paving 57	60 min Summer	40	25.601	0.040	1.204			OK
Permeable Paving 58	60 min Summer	40	25.601	0.040	1.204			OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 74	60 min Summer	39	25.596	0.035	0.984			OK
Permeable Paving 60	60 min Summer	43	25.806	0.055	2.166			OK
Permeable Paving 61	60 min Summer	41	25.793	0.042	1.235			OK
Permeable Paving 59	60 min Summer	41	25.527	0.042	1.280			OK
Permeable Paving 160	60 min Summer	44	24.215	0.064	2.387			OK
Permeable Paving 30	30 min Summer	23	24.182	0.031	0.832			OK
Permeable Paving 31	60 min Summer	39	24.182	0.032	0.837			OK
Permeable Paving 32	30 min Summer	23	24.181	0.031	0.829			OK
Permeable Paving 33	60 min Summer	41	24.192	0.042	1.247			OK
Permeable Paving 34	60 min Summer	40	24.187	0.036	0.998			OK
Permeable Paving 35	60 min Summer	41	24.193	0.042	1.291			OK
Permeable Paving 36	60 min Summer	43	24.203	0.053	1.903			OK
Permeable Paving 37	60 min Summer	43	24.205	0.054	2.064			OK
Permeable Paving 38	60 min Summer	41	24.191	0.040	1.156			OK
Permeable Paving 39	60 min Summer	43	24.203	0.053	1.882			OK
Permeable Paving 40	60 min Summer	42	24.197	0.046	1.476			OK
Permeable Paving 41	60 min Summer	41	24.191	0.041	1.183			OK
Permeable Paving 42	60 min Summer	41	24.192	0.042	1.244			OK
Permeable Paving 43	60 min Summer	41	24.191	0.040	1.155			OK
Permeable Paving 46	60 min Summer	43	24.200	0.050	1.620			OK
Permeable Paving 50	60 min Summer	41	24.191	0.041	1.183			OK
Permeable Paving 51	60 min Summer	41	24.193	0.042	1.289			OK
Permeable Paving 172	60 min Summer	41	24.192	0.041	1.203			OK
Permeable Paving 156	60 min Summer	42	23.992	0.044	1.338			OK
Permeable Paving 157	60 min Summer	44	24.013	0.065	2.532			OK
Permeable Paving 48	60 min Summer	44	24.007	0.059	1.759			OK
Permeable Paving 49	60 min Summer	43	23.996	0.048	1.522			OK
Permeable Paving 73	60 min Summer	43	24.004	0.056	2.306			OK
Permeable Paving 3	60 min Summer	44	27.170	0.068	3.072			OK
Permeable Paving 4	60 min Summer	41	25.580	0.044	1.418			OK
Permeable Paving 65	60 min Summer	43	25.585	0.050	1.620			OK
Permeable Paving 66	60 min Summer	40	25.572	0.036	1.013			OK
Permeable Paving 67	60 min Summer	40	25.571	0.036	0.963			OK
Permeable Paving 70	60 min Summer	40	25.575	0.040	1.209			OK
Permeable Paving 71	60 min Summer	41	25.575	0.040	1.133			OK
Permeable Paving 62	60 min Summer	41	25.592	0.042	1.277			OK
Permeable Paving 63	60 min Summer	41	25.592	0.042	1.259			OK
Permeable Paving 77	60 min Summer	40	25.587	0.037	1.032			OK
Permeable Paving 64	60 min Summer	41	25.376	0.044	1.381			OK
Permeable Paving 11	60 min Summer	41	24.742	0.043	1.367			OK
Permeable Paving 68	60 min Summer	42	24.746	0.047	1.539			OK
Permeable Paving 69	60 min Summer	40	24.738	0.039	1.197			OK
Permeable Paving 75	60 min Summer	44	24.763	0.064	2.369			OK
Permeable Paving 1	60 min Summer	39	24.897	0.033	0.896			OK
Permeable Paving 2	60 min Summer	40	24.901	0.037	1.049			OK
Permeable Paving 76	60 min Summer	40	24.901	0.038	1.090			OK

Return Period (yrs) + Climate Change (%):

100yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S1	15 min Summer	10	26.619	0.858	25.020		Surcharged
S2	15 min Summer	10	26.570	0.940	60.317		Surcharged
S3	15 min Summer	9	26.767	0.248	118.687		OK
S4	15 min Summer	10	26.426	1.086	239.789		Surcharged
S5	15 min Summer	9	26.056	0.215	109.489		OK
S6	15 min Summer	10	25.629	0.677	383.538		Surcharged
S7	15 min Summer	10	24.797	0.506	376.920		Surcharged
S8	15 min Summer	9	25.904	0.598	67.110		Flood Risk
S9	15 min Summer	9	25.584	0.544	107.520		Flood Risk
S10	15 min Summer	10	24.464	0.668	591.612		Surcharged
S11	30 min Winter	22	23.290	0.730	361.157		OK
S12	15 min Summer	10	26.062	0.472	52.201		Surcharged
S39	15 min Summer	10	25.991	0.485	53.684		Surcharged
S13	15 min Summer	10	25.712	0.624	73.148		Flood Risk
S38	15 min Summer	10	25.232	0.566	73.693		Flood Risk
S14	15 min Summer	10	24.599	0.579	120.738		Surcharged
S15	15 min Summer	10	24.244	0.670	134.549		Flood Risk
S16	15 min Summer	9	23.546	0.637	377.392		Surcharged
S17	30 min Summer	20	23.307	0.552	258.567		Surcharged
S18	30 min Winter	23	23.276	0.716	165.161		OK
S19	30 min Summer	22	23.274	0.724	479.137		Surcharged
S20	15 min Summer	14	23.207	0.870	239.278		Surcharged
S21	15 min Summer	14	23.179	1.159	239.395		OK
S22	15 min Summer	10	26.984	0.238	33.844		Surcharged
S23	15 min Summer	10	26.873	0.492	126.060		Surcharged
S40	15 min Summer	10	26.196	1.022	130.024		Surcharged
S24	15 min Summer	10	25.758	1.342	205.242		Flood Risk
S25	30 min Summer	18	24.978	0.548	19.709		Surcharged
S26	30 min Summer	18	24.982	0.770	27.202		Surcharged
S27	15 min Summer	11	24.954	1.526	187.440		Flood Risk
S28	15 min Summer	11	23.334	1.164	155.844		Surcharged
S29	15 min Summer	11	23.280	1.160	157.674		Surcharged
S30	15 min Summer	8	25.163	0.819	142.679		Flood Risk
S31	15 min Summer	10	23.487	0.277	121.842		OK
S32	15 min Summer	11	23.322	0.607	112.980		Surcharged
S33	15 min Summer	11	23.238	1.152	273.052		Surcharged
S34	15 min Summer	15	23.170	1.150	186.001		OK
S35	15 min Summer	15	23.169	1.169	494.494		Flood Risk
S36	1440 min Summer	1441	23.086	1.086	5.500		Surcharged
S41	480 min Winter	229	21.887	0.037	6.196		OK
S37	480 min Winter	229	21.096	0.036	6.196		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	8	S1	S2	0.225	0.766	25.470	1.141	OK
1.001	30 min Summer	20	S2	S4	0.300	0.974	68.873	1.068	Surcharged
2.000	15 min Summer	9	S3	S4	0.274	1.839	118.875	0.698	OK
1.002	30 min Summer	18	S4	S6	0.375	2.060	227.543	1.586	Surcharged
3.000	15 min Summer	9	S5	S6	0.258	1.975	111.339	0.795	OK
1.003	15 min Summer	10	S6	S7	0.450	2.589	381.972	1.137	OK
1.004	15 min Summer	11	S7	S10	0.450	2.919	397.027	0.797	OK
4.000	15 min Winter	8	S8	S9	0.225	1.490	59.236	1.188	OK
4.001	15 min Winter	9	S9	S10	0.225	2.781	102.724	1.040	OK
1.005	15 min Summer	10	S10	S11	0.450	4.013	594.298	1.073	OK
1.006	30 min Winter	23	S11	S19	0.726	2.042	521.581	1.600	OK
5.000	15 min Winter	9	S12	S39	0.225	1.767	60.285	0.877	OK
5.001	15 min Winter	9	S39	S13	0.225	1.609	58.806	0.855	OK
5.002	15 min Winter	9	S13	S38	0.225	1.971	76.738	1.079	OK
5.003	15 min Winter	11	S38	S14	0.225	2.007	73.323	1.031	OK
5.004	30 min Summer	16	S14	S15	0.300	1.818	118.677	0.830	Surcharged
5.005	15 min Winter	11	S15	S16	0.300	1.905	132.375	1.220	Surcharged

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
5.006	30 min Summer	19	S16	S17	0.525	1.717	354.755	1.426	OK
5.007	30 min Winter	20	S17	S18	0.525	1.880	332.450	0.638	OK
5.008	30 min Winter	23	S18	S19	0.720	1.651	316.871	0.913	OK
1.007	30 min Winter	29	S19	S20	0.675	2.250	732.046	0.963	Surcharged
1.008	30 min Winter	28	S20	S21	0.675	2.200	770.863	0.775	Surcharged
1.009	15 min Summer	22	S21	S35	1.161	1.099	715.028	0.850	OK
6.000	15 min Summer	10	S22	S23	0.225	1.549	42.080	0.725	OK
6.001	30 min Summer	17	S23	S40	0.300	2.563	133.975	0.767	Surcharged
6.002	15 min Winter	10	S40	S24	0.300	1.885	123.206	0.706	Surcharged
6.003	15 min Winter	8	S24	S27	0.300	2.385	163.592	1.045	Surcharged
7.000	15 min Winter	9	S25	S26	0.300	1.301	24.364	0.180	Surcharged
7.001	15 min Winter	9	S26	S27	0.300	1.480	34.840	0.213	Surcharged
6.004	60 min Summer	37	S27	S28	0.300	2.382	168.380	1.291	Surcharged
6.005	60 min Summer	37	S28	S29	0.450	1.082	172.034	1.038	OK
6.006	60 min Summer	37	S29	S33	0.450	1.093	173.895	1.049	OK
8.000	30 min Summer	16	S30	S31	0.225	2.684	106.495	1.175	OK
8.001	15 min Summer	10	S31	S32	0.288	2.964	127.315	0.603	OK
8.002	30 min Summer	15	S32	S33	0.300	2.672	122.853	0.438	Surcharged
6.007	30 min Summer	18	S33	S34	0.450	1.772	281.768	1.700	OK
6.008	15 min Summer	15	S34	S35	1.159	0.288	284.771	0.423	OK
1.010	60 min Winter	86	S35	S36	0.675	3.948	967.142	1.032	Surcharged
1.011	720 min Winter	330	S36	S41	0.045	1.373	6.196	0.342	OK
1.012	600 min Summer	289	S41	S37	0.037	1.843	6.196	0.137	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 169	60 min Summer	40	26.845	0.063	2.411			OK
Permeable Paving 170	60 min Summer	40	26.846	0.064	2.491			OK
Permeable Paving 171	60 min Summer	44	26.864	0.082	3.373			OK
Permeable Paving 14	60 min Summer	42	26.857	0.074	3.054			OK
Permeable Paving 15	60 min Summer	42	26.855	0.073	2.887			OK
Permeable Paving 16	60 min Summer	41	26.849	0.066	2.487			OK
Permeable Paving 17	30 min Summer	23	26.831	0.049	1.531			OK
Permeable Paving 18	60 min Summer	39	26.837	0.054	1.887			OK
Permeable Paving 72	60 min Summer	40	26.842	0.060	2.133			OK
Permeable Paving 12	60 min Summer	39	27.694	0.055	1.920			OK
Permeable Paving 13	60 min Summer	46	27.730	0.091	4.051			OK
Permeable Paving 21	60 min Summer	39	27.692	0.053	1.775			OK
Permeable Paving 22	60 min Summer	39	27.690	0.050	1.619			OK
Permeable Paving 19	60 min Summer	39	26.837	0.054	1.886			OK
Permeable Paving 20	60 min Summer	39	26.838	0.056	2.012			OK
Permeable Paving 23	60 min Summer	41	26.847	0.064	2.286			OK
Permeable Paving 26	30 min Summer	22	26.822	0.040	1.095			OK
Permeable Paving 27	60 min Summer	42	26.855	0.072	2.840			OK
Permeable Paving 28	60 min Summer	39	26.837	0.054	1.890			OK
Permeable Paving 29	30 min Summer	22	26.822	0.040	1.083			OK
Permeable Paving 5	30 min Summer	22	27.004	0.043	1.333			OK
Permeable Paving 6	60 min Summer	43	27.039	0.078	3.230			OK
Permeable Paving 7	30 min Summer	22	27.004	0.043	1.329			OK
Permeable Paving 8	60 min Summer	43	27.039	0.079	3.262			OK
Permeable Paving 9	60 min Summer	40	27.020	0.059	2.092			OK
Permeable Paving 10	60 min Summer	40	27.019	0.059	2.085			OK
Permeable Paving 24	60 min Summer	39	26.274	0.052	1.769			OK
Permeable Paving 25	60 min Summer	42	26.294	0.072	2.842			OK
Permeable Paving 44	60 min Summer	40	26.279	0.057	1.931			OK
Permeable Paving 45	30 min Summer	22	26.264	0.042	1.245			OK
Permeable Paving 52	60 min Summer	39	26.278	0.056	2.045			OK
Permeable Paving 53	60 min Summer	41	26.289	0.067	2.552			OK
Permeable Paving 56	60 min Summer	41	26.291	0.069	2.779			OK
Permeable Paving 47	60 min Summer	46	25.654	0.093	4.312			OK
Permeable Paving 54	60 min Summer	39	25.612	0.051	1.648			OK
Permeable Paving 55	60 min Summer	39	25.612	0.051	1.639			OK
Permeable Paving 57	60 min Summer	39	25.614	0.052	1.769			OK
Permeable Paving 58	60 min Summer	39	25.614	0.052	1.769			OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving 74	30 min Summer	22	25.608	0.046	1.563			OK
Permeable Paving 60	60 min Summer	42	25.825	0.074	3.004			OK
Permeable Paving 61	15 min Summer	13	25.822	0.071	2.856			OK
Permeable Paving 59	15 min Summer	15	25.543	0.058	2.053			OK
Permeable Paving 160	60 min Summer	45	24.239	0.088	3.903			OK
Permeable Paving 30	30 min Summer	22	24.193	0.042	1.251			OK
Permeable Paving 31	30 min Summer	22	24.194	0.043	1.329			OK
Permeable Paving 32	30 min Summer	22	24.193	0.042	1.247			OK
Permeable Paving 33	60 min Summer	39	24.206	0.055	1.983			OK
Permeable Paving 34	30 min Summer	23	24.199	0.048	1.482			OK
Permeable Paving 35	60 min Summer	39	24.207	0.056	2.053			OK
Permeable Paving 36	60 min Summer	42	24.221	0.070	2.639			OK
Permeable Paving 37	60 min Summer	42	24.223	0.073	2.864			OK
Permeable Paving 38	60 min Summer	39	24.204	0.053	1.837			OK
Permeable Paving 39	60 min Summer	41	24.221	0.070	2.860			OK
Permeable Paving 40	60 min Summer	40	24.212	0.062	2.297			OK
Permeable Paving 41	60 min Summer	39	24.205	0.054	1.880			OK
Permeable Paving 42	60 min Summer	39	24.206	0.055	1.979			OK
Permeable Paving 43	60 min Summer	39	24.204	0.053	1.837			OK
Permeable Paving 46	60 min Summer	41	24.217	0.066	2.462			OK
Permeable Paving 50	60 min Summer	39	24.205	0.054	1.882			OK
Permeable Paving 51	60 min Summer	39	24.207	0.056	2.051			OK
Permeable Paving 172	60 min Summer	39	24.205	0.054	1.913			OK
Permeable Paving 156	60 min Summer	40	24.007	0.059	2.082			OK
Permeable Paving 157	60 min Summer	46	24.037	0.090	3.863			OK
Permeable Paving 48	60 min Summer	43	24.027	0.079	3.358			OK
Permeable Paving 49	60 min Summer	41	24.012	0.064	2.313			OK
Permeable Paving 73	60 min Summer	42	24.023	0.076	3.199			OK
Permeable Paving 3	60 min Summer	46	27.197	0.095	4.685			OK
Permeable Paving 4	30 min Summer	20	25.644	0.109	3.636			OK
Permeable Paving 65	30 min Summer	21	25.636	0.100	4.104			OK
Permeable Paving 66	30 min Summer	20	25.656	0.121	2.398			OK
Permeable Paving 67	30 min Summer	20	25.657	0.122	2.280			OK
Permeable Paving 70	30 min Summer	20	25.651	0.116	2.864			OK
Permeable Paving 71	30 min Summer	20	25.651	0.115	2.905			OK
Permeable Paving 62	60 min Summer	39	25.606	0.056	2.030			OK
Permeable Paving 63	60 min Summer	39	25.605	0.056	2.002			OK
Permeable Paving 77	30 min Summer	23	25.599	0.049	1.532			OK
Permeable Paving 64	60 min Summer	40	25.390	0.058	1.992			OK
Permeable Paving 11	30 min Summer	22	24.863	0.164	2.539			OK
Permeable Paving 68	30 min Summer	22	24.853	0.155	3.087			OK
Permeable Paving 69	30 min Summer	22	24.873	0.174	2.054			OK
Permeable Paving 75	30 min Summer	24	24.820	0.121	5.843			OK
Permeable Paving 1	15 min Summer	10	25.015	0.151	5.514			OK
Permeable Paving 2	15 min Summer	11	24.996	0.132	2.912			OK
Permeable Paving 76	15 min Summer	11	24.993	0.130	3.028			OK