

Jubb Consulting Engineers Limited		Page 1
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model	
Return Period (years)	100
FEH Rainfall Version	1999
Site Location	GB 386850 145550 ST 86850 45550
C (1km)	-0.027
D1 (1km)	0.363
D2 (1km)	0.417
D3 (1km)	0.273
E (1km)	0.289
F (1km)	2.484
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	0
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.341	4-8	1.261	8-12	0.072

Total Area Contributing (ha) = 1.673

Total Pipe Volume (m³) = 94.140

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	14.185	1.045	13.6	0.010	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.002	17.662	0.220	80.3	0.038	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	6.793	1.255	5.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	4.02	138.270	0.010	0.0	0.0	0.0	1.09	8.6	1.4
1.001	50.00	4.13	138.250	0.020	0.0	0.0	0.0	2.11	16.6	2.7
1.002	50.00	4.33	137.080	0.058	0.0	0.0	0.0	1.46	58.1	7.9
2.000	50.00	4.02	138.260	0.010	0.0	0.0	0.0	1.09	8.6	1.4
2.001	50.00	4.05	138.240	0.010	0.0	0.0	0.0	3.35	26.3	1.4

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.003	2.967	0.037	80.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.004	3.349	0.033	101.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
3.001	7.899	1.385	5.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.005	10.872	0.109	99.7	0.015	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
4.001	7.533	1.639	4.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.006	10.269	0.103	99.7	0.017	0.00	0.0	0.600	o	300	Pipe/Conduit	
5.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
5.001	7.162	1.827	3.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.007	11.677	0.117	99.8	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.008	7.447	0.074	100.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
6.000	1.000	0.020	50.0	0.026	4.00	0.0	0.600	o	100	Pipe/Conduit	
6.001	8.779	0.790	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.002	11.630	0.490	23.7	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	
7.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
7.001	5.711	0.515	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.003	10.709	0.450	23.8	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.003	50.00	4.36	136.860	0.068	0.0	0.0	0.0	1.46	58.1	9.2
1.004	50.00	4.40	136.748	0.068	0.0	0.0	0.0	1.56	110.3	9.2
3.000	50.00	4.02	138.320	0.014	0.0	0.0	0.0	1.09	8.6	1.9
3.001	50.00	4.06	138.300	0.014	0.0	0.0	0.0	3.26	25.6	1.9
1.005	50.00	4.51	136.715	0.097	0.0	0.0	0.0	1.57	111.3	13.1
4.000	50.00	4.02	138.465	0.014	0.0	0.0	0.0	1.09	8.6	1.9
4.001	50.00	4.05	138.445	0.014	0.0	0.0	0.0	3.63	28.5	1.9
1.006	50.00	4.62	136.606	0.128	0.0	0.0	0.0	1.57	111.3	17.3
5.000	50.00	4.02	138.550	0.009	0.0	0.0	0.0	1.09	8.6	1.2
5.001	50.00	4.05	138.530	0.009	0.0	0.0	0.0	3.93	30.9	1.2
1.007	50.00	4.75	136.503	0.137	0.0	0.0	0.0	1.57	111.2	18.6
1.008	50.00	4.83	136.386	0.137	0.0	0.0	0.0	1.57	110.8	18.6
6.000	50.00	4.02	141.160	0.026	0.0	0.0	0.0	1.09	8.6	3.5
6.001	50.00	4.08	141.140	0.026	0.0	0.0	0.0	2.33	18.3	3.5
6.002	50.00	4.17	140.300	0.040	0.0	0.0	0.0	2.08	36.7	5.4
7.000	50.00	4.02	140.395	0.013	0.0	0.0	0.0	1.09	8.6	1.8
7.001	50.00	4.06	140.375	0.013	0.0	0.0	0.0	2.33	18.3	1.8
6.003	50.00	4.26	139.810	0.067	0.0	0.0	0.0	2.07	36.6	9.1

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PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
8.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
8.001	5.359	0.445	12.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.004	14.513	0.610	23.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
9.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
9.001	6.287	0.530	11.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.005	16.038	0.450	35.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
10.000	1.775	0.040	44.4	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
10.001	5.975	0.500	12.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.006	5.575	0.160	34.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
11.001	9.935	0.780	12.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.007	7.954	0.229	34.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
6.008	9.917	1.449	6.8	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.009	48.885	0.235	208.0	0.056	0.00	0.0	0.600	o	375	Pipe/Conduit	
12.000	1.550	0.030	51.7	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
12.001	4.297	0.455	9.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.002	15.280	0.191	80.0	0.006	0.00	0.0	0.600	o	150	Pipe/Conduit	
13.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit	
13.001	6.156	0.711	8.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
8.000	50.00	4.02	139.875	0.013	0.0	0.0	0.0	1.09	8.6	1.8
8.001	50.00	4.06	139.855	0.013	0.0	0.0	0.0	2.24	17.6	1.8
6.004	50.00	4.37	139.360	0.080	0.0	0.0	0.0	2.07	36.6	10.8
9.000	50.00	4.02	139.350	0.013	0.0	0.0	0.0	1.09	8.6	1.8
9.001	50.00	4.06	139.330	0.013	0.0	0.0	0.0	2.26	17.7	1.8
6.005	50.00	4.53	138.750	0.093	0.0	0.0	0.0	1.69	29.9	12.6
10.000	50.00	4.03	138.890	0.013	0.0	0.0	0.0	1.16	9.1	1.8
10.001	50.00	4.07	138.850	0.013	0.0	0.0	0.0	2.25	17.7	1.8
6.006	50.00	4.59	138.300	0.106	0.0	0.0	0.0	1.71	30.2	14.4
11.000	50.00	4.02	138.990	0.013	0.0	0.0	0.0	1.09	8.6	1.8
11.001	50.00	4.09	138.970	0.013	0.0	0.0	0.0	2.18	17.1	1.8
6.007	50.00	4.66	138.140	0.119	0.0	0.0	0.0	1.71	30.3	16.1
6.008	50.00	4.71	137.911	0.134	0.0	0.0	0.0	3.88	68.5	18.1
1.009	50.00	5.48	136.237	0.327	0.0	0.0	0.0	1.25	138.3	44.3
12.000	50.00	4.02	138.425	0.010	0.0	0.0	0.0	1.07	8.4	1.4
12.001	50.00	4.05	138.395	0.010	0.0	0.0	0.0	2.53	19.9	1.4
12.002	50.00	4.28	137.890	0.016	0.0	0.0	0.0	1.12	19.9	2.2
13.000	50.00	4.02	138.480	0.019	0.0	0.0	0.0	1.09	8.6	2.6
13.001	50.00	4.05	138.460	0.019	0.0	0.0	0.0	2.64	20.8	2.6

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
12.003	15.299	0.191	80.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
14.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit	
14.001	5.138	1.122	4.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.004	15.953	0.199	80.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
12.005	11.218	0.178	62.9	0.019	0.00	0.0	0.600	o	225	Pipe/Conduit	
15.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
15.001	6.716	1.619	4.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.006	15.689	0.249	63.0	0.006	0.00	0.0	0.600	o	225	Pipe/Conduit	
16.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
16.001	5.829	1.658	3.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.007	17.988	0.286	62.9	0.060	0.00	0.0	0.600	o	225	Pipe/Conduit	
17.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
17.001	5.516	1.709	3.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.008	23.129	0.369	62.7	0.016	0.00	0.0	0.600	o	225	Pipe/Conduit	
18.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
18.001	6.574	1.963	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.010	10.672	0.024	450.0	0.050	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.011	27.837	0.062	450.0	0.069	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
12.003	50.00	4.51	137.699	0.035	0.0	0.0	0.0	1.12	19.9	4.7
14.000	50.00	4.02	138.700	0.019	0.0	0.0	0.0	1.09	8.6	2.6
14.001	50.00	4.04	138.680	0.019	0.0	0.0	0.0	3.64	28.6	2.6
12.004	50.00	4.74	137.508	0.054	0.0	0.0	0.0	1.12	19.9	7.3
12.005	50.00	4.85	137.234	0.073	0.0	0.0	0.0	1.65	65.7	9.9
15.000	50.00	4.02	138.820	0.012	0.0	0.0	0.0	1.09	8.6	1.6
15.001	50.00	4.04	138.800	0.012	0.0	0.0	0.0	3.82	30.0	1.6
12.006	50.00	5.01	137.056	0.091	0.0	0.0	0.0	1.65	65.6	12.3
16.000	50.00	4.02	138.610	0.018	0.0	0.0	0.0	1.09	8.6	2.4
16.001	50.00	4.04	138.590	0.018	0.0	0.0	0.0	4.16	32.6	2.4
12.007	50.00	5.19	136.807	0.169	0.0	0.0	0.0	1.65	65.7	22.9
17.000	50.00	4.02	138.375	0.018	0.0	0.0	0.0	1.09	8.6	2.4
17.001	50.00	4.04	138.355	0.018	0.0	0.0	0.0	4.34	34.1	2.4
12.008	50.00	5.43	136.521	0.203	0.0	0.0	0.0	1.65	65.8	27.5
18.000	50.00	4.02	138.260	0.011	0.0	0.0	0.0	1.09	8.6	1.5
18.001	50.00	4.04	138.240	0.011	0.0	0.0	0.0	4.26	33.4	1.5
1.010	50.00	5.63	135.777	0.591	0.0	0.0	0.0	1.14	322.7	80.0
1.011	50.00	6.04	135.753	0.660	0.0	0.0	0.0	1.14	322.7	89.4

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PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
19.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
19.001	5.505	0.505	10.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.002	8.366	0.085	98.4	0.017	0.00	0.0	0.600	o	150	Pipe/Conduit	
20.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
20.001	5.123	0.690	7.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.003	10.641	0.108	98.5	0.013	0.00	0.0	0.600	o	150	Pipe/Conduit	
21.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
21.001	4.539	1.063	4.3	0.003	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.004	8.742	0.090	97.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
22.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
22.001	5.941	1.503	4.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.005	11.645	0.120	97.0	0.003	0.00	0.0	0.600	o	150	Pipe/Conduit	
23.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
23.001	5.573	1.863	3.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.006	17.809	0.183	97.3	0.018	0.00	0.0	0.600	o	150	Pipe/Conduit	
19.007	10.569	0.109	97.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
24.000	2.000	0.040	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
24.001	3.210	0.060	53.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
24.002	7.966	0.080	99.6	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.000	50.00	4.02	139.920	0.011	0.0	0.0	0.0	1.09	8.6	1.5
19.001	50.00	4.05	139.900	0.011	0.0	0.0	0.0	2.35	18.5	1.5
19.002	50.00	4.19	139.345	0.028	0.0	0.0	0.0	1.01	17.9	3.8
20.000	50.00	4.02	140.020	0.010	0.0	0.0	0.0	1.09	8.6	1.4
20.001	50.00	4.05	140.000	0.010	0.0	0.0	0.0	2.86	22.4	1.4
19.003	50.00	4.37	139.260	0.051	0.0	0.0	0.0	1.01	17.9	6.9
21.000	50.00	4.02	140.285	0.011	0.0	0.0	0.0	1.09	8.6	1.5
21.001	50.00	4.04	140.265	0.014	0.0	0.0	0.0	3.77	29.6	1.9
19.004	50.00	4.51	139.152	0.065	0.0	0.0	0.0	1.02	18.0	8.8
22.000	50.00	4.02	140.635	0.012	0.0	0.0	0.0	1.09	8.6	1.6
22.001	50.00	4.04	140.615	0.012	0.0	0.0	0.0	3.92	30.8	1.6
19.005	50.00	4.70	139.062	0.080	0.0	0.0	0.0	1.02	18.0	10.8
23.000	50.00	4.02	140.875	0.010	0.0	0.0	0.0	1.09	8.6	1.4
23.001	50.00	4.04	140.855	0.010	0.0	0.0	0.0	4.51	35.4	1.4
19.006	50.00	4.99	138.942	0.108	0.0	0.0	0.0	1.02	18.0	14.6
19.007	50.00	5.16	138.759	0.108	0.0	0.0	0.0	1.02	18.0	14.6
24.000	50.00	4.03	141.275	0.012	0.0	0.0	0.0	1.09	8.6	1.6
24.001	50.00	4.08	141.235	0.012	0.0	0.0	0.0	1.06	8.3	1.6
24.002	50.00	4.21	141.125	0.022	0.0	0.0	0.0	1.01	17.8	3.0

Jubb Consulting Engineers Limited		Page 6
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
25.000	2.000	0.040	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
25.001	3.340	0.305	11.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
24.003	19.055	0.191	99.8	0.012	0.00	0.0	0.600	o	150	Pipe/Conduit	
24.004	21.260	0.555	38.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
19.008	14.694	0.150	98.0	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit	
26.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
26.001	7.163	3.520	2.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.009	4.331	0.044	98.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
27.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
27.001	5.718	1.756	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.010	7.021	0.070	100.3	0.004	0.00	0.0	0.600	o	225	Pipe/Conduit	
28.000	1.000	0.020	50.0	0.022	4.00	0.0	0.600	o	100	Pipe/Conduit	
28.001	9.295	2.829	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.011	14.785	0.146	101.3	0.042	0.00	0.0	0.600	o	225	Pipe/Conduit	
29.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
29.001	4.575	0.960	4.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.000	1.000	0.020	50.0	0.022	4.00	0.0	0.600	o	100	Pipe/Conduit	
30.001	5.994	0.120	50.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
25.000	50.00	4.03	141.440	0.012	0.0	0.0	0.0	1.09	8.6	1.6
25.001	50.00	4.05	141.400	0.012	0.0	0.0	0.0	2.35	18.4	1.6
24.003	50.00	4.53	141.045	0.046	0.0	0.0	0.0	1.01	17.8	6.2
24.004	50.00	4.75	140.854	0.046	0.0	0.0	0.0	1.63	28.8	6.2
19.008	50.00	5.35	138.575	0.164	0.0	0.0	0.0	1.32	52.5	22.2
26.000	50.00	4.02	142.090	0.014	0.0	0.0	0.0	1.09	8.6	1.9
26.001	50.00	4.04	142.070	0.014	0.0	0.0	0.0	5.47	42.9	1.9
19.009	50.00	5.40	138.425	0.178	0.0	0.0	0.0	1.32	52.4	24.1
27.000	50.00	4.02	142.007	0.012	0.0	0.0	0.0	1.09	8.6	1.6
27.001	50.00	4.04	141.987	0.012	0.0	0.0	0.0	4.32	33.9	1.6
19.010	50.00	5.49	138.381	0.194	0.0	0.0	0.0	1.31	51.9	26.3
28.000	50.00	4.02	141.285	0.022	0.0	0.0	0.0	1.09	8.6	3.0
28.001	50.00	4.05	141.265	0.022	0.0	0.0	0.0	4.30	33.8	3.0
19.011	50.00	5.68	138.311	0.258	0.0	0.0	0.0	1.30	51.7	34.9
29.000	50.00	4.02	140.849	0.009	0.0	0.0	0.0	1.09	8.6	1.2
29.001	50.00	4.04	140.829	0.009	0.0	0.0	0.0	3.57	28.0	1.2
30.000	50.00	4.02	141.815	0.022	0.0	0.0	0.0	1.09	8.6	3.0
30.001	50.00	4.11	141.795	0.022	0.0	0.0	0.0	1.09	8.6	3.0

Jubb Consulting Engineers Limited		Page 7
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
30.002	14.939	0.185	80.8	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
31.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
31.001	5.504	0.510	10.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.003	8.415	0.105	80.0	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
30.004	2.616	0.083	31.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
32.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
32.001	6.676	0.333	20.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.005	17.093	0.542	31.5	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
33.000	10.000	0.100	100.0	0.027	4.00	0.0	0.600	o	150	Pipe/Conduit	
30.006	22.892	0.870	26.3	0.017	0.00	0.0	0.600	o	225	Pipe/Conduit	
34.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
34.001	6.997	1.175	6.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.007	1.020	0.039	26.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
35.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
35.001	5.500	1.299	4.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.008	11.314	0.430	26.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
36.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
36.001	6.997	1.604	4.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
30.002	50.00	4.33	141.625	0.026	0.0	0.0	0.0	1.12	19.8	3.5
31.000	50.00	4.02	142.020	0.011	0.0	0.0	0.0	1.09	8.6	1.5
31.001	50.00	4.05	142.000	0.011	0.0	0.0	0.0	2.37	18.6	1.5
30.003	50.00	4.45	141.440	0.041	0.0	0.0	0.0	1.12	19.9	5.6
30.004	50.00	4.48	141.335	0.041	0.0	0.0	0.0	1.80	31.8	5.6
32.000	50.00	4.02	141.655	0.013	0.0	0.0	0.0	1.09	8.6	1.8
32.001	50.00	4.08	141.635	0.013	0.0	0.0	0.0	1.73	13.6	1.8
30.005	50.00	4.64	141.252	0.070	0.0	0.0	0.0	1.80	31.8	9.5
33.000	50.00	4.17	140.810	0.027	0.0	0.0	0.0	1.00	17.8	3.7
30.006	50.00	4.79	140.635	0.114	0.0	0.0	0.0	2.56	101.8	15.4
34.000	50.00	4.02	141.085	0.009	0.0	0.0	0.0	1.09	8.6	1.2
34.001	50.00	4.05	141.065	0.009	0.0	0.0	0.0	3.19	25.1	1.2
30.007	50.00	4.79	139.765	0.123	0.0	0.0	0.0	2.57	102.1	16.7
35.000	50.00	4.02	141.170	0.009	0.0	0.0	0.0	1.09	8.6	1.2
35.001	50.00	4.04	141.150	0.009	0.0	0.0	0.0	3.79	29.7	1.2
30.008	50.00	4.87	139.726	0.132	0.0	0.0	0.0	2.56	101.8	17.9
36.000	50.00	4.02	141.045	0.009	0.0	0.0	0.0	1.09	8.6	1.2
36.001	50.00	4.05	141.025	0.009	0.0	0.0	0.0	3.73	29.3	1.2

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
30.009	2.476	0.094	26.3	0.017	0.00	0.0	0.600	o	225	Pipe/Conduit	🟢
37.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
37.001	6.100	1.773	3.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
30.010	27.427	1.037	26.4	0.023	0.00	0.0	0.600	o	225	Pipe/Conduit	🟡
19.012	15.382	0.154	99.9	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	🔴
38.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
38.001	5.000	1.684	3.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
19.013	25.832	0.258	100.1	0.069	0.00	0.0	0.600	o	300	Pipe/Conduit	🔴
1.012	23.589	0.052	453.6	0.031	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.013	31.370	0.069	454.6	0.058	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.014	6.875	0.015	458.3	0.011	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
39.000	1.000	0.020	50.0	0.026	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
39.001	6.100	1.635	3.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.015	9.789	0.022	445.0	0.023	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
40.000	1.000	0.020	50.0	0.016	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
40.001	5.568	0.825	6.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
41.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
41.001	4.084	0.635	6.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
30.009	50.00	4.88	139.296	0.158	0.0	0.0	0.0	2.56	101.8	21.4
37.000	50.00	4.02	141.120	0.009	0.0	0.0	0.0	1.09	8.6	1.2
37.001	50.00	4.04	141.100	0.009	0.0	0.0	0.0	4.20	33.0	1.2
30.010	50.00	5.06	139.202	0.190	0.0	0.0	0.0	2.55	101.6	25.7
19.012	50.00	5.85	138.090	0.462	0.0	0.0	0.0	1.57	111.2	62.6
38.000	50.00	4.02	139.840	0.014	0.0	0.0	0.0	1.09	8.6	1.9
38.001	50.00	4.03	139.820	0.014	0.0	0.0	0.0	4.52	35.5	1.9
19.013	50.00	6.12	137.936	0.545	0.0	0.0	0.0	1.57	111.1	73.8
1.012	50.00	6.47	135.691	1.236	0.0	0.0	0.0	1.14	321.4	167.4
1.013	50.00	6.93	135.639	1.294	0.0	0.0	0.0	1.14	321.1	175.2
1.014	50.00	7.03	135.570	1.305	0.0	0.0	0.0	1.13	319.7	176.7
39.000	50.00	4.02	137.710	0.026	0.0	0.0	0.0	1.09	8.6	3.5
39.001	50.00	4.04	137.690	0.026	0.0	0.0	0.0	4.03	31.7	3.5
1.015	50.00	7.17	135.555	1.354	0.0	0.0	0.0	1.15	324.6	183.3
40.000	50.00	4.02	139.370	0.016	0.0	0.0	0.0	1.09	8.6	2.2
40.001	50.00	4.05	139.350	0.016	0.0	0.0	0.0	3.00	23.5	2.2
41.000	50.00	4.02	139.180	0.012	0.0	0.0	0.0	1.09	8.6	1.6
41.001	50.00	4.04	139.160	0.012	0.0	0.0	0.0	3.07	24.1	1.6

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
40.002	10.715	0.348	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
42.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
42.001	4.084	0.628	6.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
40.003	14.419	0.468	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
43.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
43.001	4.084	0.606	6.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
40.004	7.268	0.236	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
40.005	20.658	1.440	14.3	0.033	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
1.016	6.192	0.014	455.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
44.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
44.001	7.685	1.351	5.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.017	12.689	0.028	453.2	0.031	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.018	3.967	0.009	455.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
45.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
45.001	6.583	1.388	4.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.019	12.038	0.026	463.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.020	4.751	0.010	455.0	0.010	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
46.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
40.002	50.00	4.14	138.475	0.028	0.0	0.0	0.0	1.82	32.2	3.8
42.000	50.00	4.02	138.825	0.012	0.0	0.0	0.0	1.09	8.6	1.6
42.001	50.00	4.04	138.805	0.012	0.0	0.0	0.0	3.05	24.0	1.6
40.003	50.00	4.28	138.127	0.040	0.0	0.0	0.0	1.82	32.2	5.4
43.000	50.00	4.02	138.335	0.012	0.0	0.0	0.0	1.09	8.6	1.6
43.001	50.00	4.04	138.315	0.012	0.0	0.0	0.0	3.00	23.5	1.6
40.004	50.00	4.34	137.659	0.052	0.0	0.0	0.0	1.82	32.2	7.0
40.005	50.00	4.47	137.423	0.085	0.0	0.0	0.0	2.67	47.2	11.5
1.016	50.00	7.26	135.533	1.439	0.0	0.0	0.0	1.14	320.9	194.9
44.000	50.00	4.02	137.390	0.017	0.0	0.0	0.0	1.09	8.6	2.3
44.001	50.00	4.05	137.370	0.017	0.0	0.0	0.0	3.26	25.6	2.3
1.017	50.00	7.45	135.519	1.487	0.0	0.0	0.0	1.14	321.6	201.4
1.018	50.00	7.51	135.491	1.487	0.0	0.0	0.0	1.14	320.9	201.4
45.000	50.00	4.02	137.390	0.017	0.0	0.0	0.0	1.09	8.6	2.3
45.001	50.00	4.05	137.370	0.017	0.0	0.0	0.0	3.58	28.1	2.3
1.019	50.00	7.68	135.482	1.504	0.0	0.0	0.0	1.13	318.1	203.7
1.020	50.00	7.75	135.456	1.514	0.0	0.0	0.0	1.14	320.9	205.0
46.000	50.00	4.02	137.210	0.017	0.0	0.0	0.0	1.09	8.6	2.3

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
46.001	6.200	1.244	5.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.021	16.787	0.037	453.7	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
47.000	1.000	0.020	50.0	0.016	4.00	0.0	0.600	o	100	Pipe/Conduit	
47.001	6.955	0.931	7.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.022	18.318	0.040	458.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
48.000	38.846	0.960	40.5	0.031	4.00	0.0	0.600	o	150	Pipe/Conduit	
48.001	22.929	0.515	44.5	0.030	0.00	0.0	0.600	o	225	Pipe/Conduit	
49.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
49.001	4.470	0.430	10.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
48.002	5.083	0.181	28.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.023	8.042	0.018	455.0	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
50.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
50.001	8.248	0.511	16.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.024	19.192	0.042	457.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.025	13.188	0.031	425.4	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.026	7.176	0.078	92.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.027	8.622	1.081	8.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
46.001	50.00	4.04	137.190	0.017	0.0	0.0	0.0	3.49	27.4	2.3
1.021	50.00	8.00	135.446	1.531	0.0	0.0	0.0	1.14	321.4	207.3
47.000	50.00	4.02	136.860	0.016	0.0	0.0	0.0	1.09	8.6	2.2
47.001	50.00	4.06	136.840	0.016	0.0	0.0	0.0	2.85	22.4	2.2
1.022	50.00	8.27	135.409	1.547	0.0	0.0	0.0	1.13	319.9	209.5
48.000	50.00	4.41	137.475	0.031	0.0	0.0	0.0	1.59	28.0	4.2
48.001	50.00	4.60	136.440	0.061	0.0	0.0	0.0	1.97	78.2	8.3
49.000	50.00	4.02	136.500	0.012	0.0	0.0	0.0	1.09	8.6	1.6
49.001	50.00	4.05	136.480	0.012	0.0	0.0	0.0	2.41	18.9	1.6
48.002	50.00	4.64	135.925	0.073	0.0	0.0	0.0	2.48	98.5	9.9
1.023	50.00	8.39	135.369	1.640	0.0	0.0	0.0	1.14	320.9	222.1
50.000	50.00	4.02	136.370	0.013	0.0	0.0	0.0	1.09	8.6	1.8
50.001	50.00	4.09	136.350	0.013	0.0	0.0	0.0	1.93	15.2	1.8
1.024	50.00	8.67	135.351	1.653	0.0	0.0	0.0	1.13	320.2	223.8
1.025	50.00	8.86	135.309	1.673	0.0	0.0	0.0	1.17	332.0	226.5
1.026	50.00	8.93	135.278	1.673	0.0	0.0	0.0	1.64	115.9<	226.5
1.027	50.00	8.97	135.200	1.673	0.0	0.0	0.0	3.59	63.4<	226.5

Jubb Consulting Engineers Limited										Page 12	
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR					VICTORIA ROAD SWD NETWORK- POND A 30 YEAR						
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File SWD NETWORK - POND A - 100 YR...					Checked by						
Innovyze					Network 2019.1						
<u>Manhole Schedules for Storm</u>											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
DIST TANK	139.155	0.730	Open Manhole	450	12.000	138.425	100				
SIC 222-1	139.180	0.785	Open Manhole	450	12.001	138.395	100	12.000	138.395	100	
SMH 18	139.240	1.350	Open Manhole	1200	12.002	137.890	150	12.001	137.940	100	
DIS TANK	139.210	0.730	Open Manhole	450	13.000	138.480	100				
SIC 220-1	139.320	0.860	Open Manhole	450	13.001	138.460	100	13.000	138.460	100	
JUNCTION	139.435	1.736	Junction		12.003	137.699	150	12.002	137.699	150	
								13.001	137.749	100	
DIST TANK	139.430	0.730	Open Manhole	450	14.000	138.700	100				
SIC 219-1	139.505	0.825	Open Manhole	450	14.001	138.680	100	14.000	138.680	100	
JUNCTION	139.635	2.127	Junction		12.004	137.508	150	12.003	137.508	150	
								14.001	137.558	100	
SMH 17	139.600	2.366	Open Manhole	1200	12.005	137.234	225	12.004	137.309	150	
DIST TANK	139.460	0.640	Open Manhole	450	15.000	138.820	100				
SIC 136-1	139.515	0.715	Open Manhole	450	15.001	138.800	100	15.000	138.800	100	
JUNCTION	139.510	2.454	Junction		12.006	137.056	225	12.005	137.056	225	
								15.001	137.181	100	
DIST TANK	139.250	0.640	Open Manhole	450	16.000	138.610	100				
SIC 138-1	139.355	0.765	Open Manhole	450	16.001	138.590	100	16.000	138.590	100	
JUNCTION	139.370	2.563	Junction		12.007	136.807	225	12.006	136.807	225	
								16.001	136.932	100	
DIST TANK	139.015	0.640	Open Manhole	450	17.000	138.375	100				
SIC 140-1	139.130	0.775	Open Manhole	450	17.001	138.355	100	17.000	138.355	100	
JUNCTION	139.085	2.564	Junction		12.008	136.521	225	12.007	136.521	225	
								17.001	136.646	100	
DIST TANK	138.900	0.640	Open Manhole	450	18.000	138.260	100				
SIC 141-1	138.900	0.660	Open Manhole	450	18.001	138.240	100	18.000	138.240	100	
SMH 10	138.885	3.108	Open Manhole	1500	1.010	135.777	600	1.009	136.002	375	
								12.008	136.152	225	
								18.001	136.277	100	
SMH 9	139.135	3.382	Open Manhole	1500	1.011	135.753	600	1.010	135.753	600	
DIST TANK	140.580	0.660	Open Manhole	450	19.000	139.920	100				
SIC 173-1	140.580	0.680	Open Manhole	450	19.001	139.900	100	19.000	139.900	100	
SMH 32	140.715	1.370	Open Manhole	1200	19.002	139.345	150	19.001	139.395	100	
DIST TANK	140.660	0.640	Open Manhole	450	20.000	140.020	100				
SIC 172-1	140.660	0.660	Open Manhole	450	20.001	140.000	100	20.000	140.000	100	
JUNCTION	140.925	1.665	Junction		19.003	139.260	150	19.002	139.260	150	
								20.001	139.310	100	
DIST TANK	140.925	0.640	Open Manhole	450	21.000	140.285	100				
SIC 171-1	140.925	0.660	Open Manhole	450	21.001	140.265	100	21.000	140.265	100	
SMH 31	141.190	2.038	Open Manhole	1200	19.004	139.152	150	19.003	139.152	150	
								21.001	139.202	100	
DIST TANK	141.275	0.640	Open Manhole	450	22.000	140.635	100				
SIC 170-1	141.275	0.660	Open Manhole	450	22.001	140.615	100	22.000	140.615	100	
JUNCTION	141.410	2.348	Junction		19.005	139.062	150	19.004	139.062	150	
								22.001	139.112	100	
DIST TANK	141.515	0.640	Open Manhole	450	23.000	140.875	100				
SIC 167-1	141.515	0.660	Open Manhole	450	23.001	140.855	100	23.000	140.855	100	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
SMH 4	138.060	2.569	Open Manhole	1500	1.018	135.491	600	1.017	135.491	600	
DIST TANK	138.030	0.640	Open Manhole	450	45.000	137.390	100				
SIC 150-1	138.030	0.660	Open Manhole	450	45.001	137.370	100	45.000	137.370	100	
JUNCTION	138.080	2.598	Junction		1.019	135.482	600	1.018	135.482	600	
								45.001	135.982	100	
SMH 3	138.010	2.554	Open Manhole	1500	1.020	135.456	600	1.019	135.456	600	
DIST TANK	137.850	0.640	Open Manhole	450	46.000	137.210	100				
SIC 111-1	137.850	0.660	Open Manhole	450	46.001	137.190	100	46.000	137.190	100	
JUNCTION	137.950	2.504	Junction		1.021	135.446	600	1.020	135.446	600	
								46.001	135.946	100	
DIST TANK	137.500	0.640	Open Manhole	450	47.000	136.860	100				
SIC 113-1	137.500	0.660	Open Manhole	450	47.001	136.840	100	47.000	136.840	100	
JUNCTION	137.700	2.291	Junction		1.022	135.409	600	1.021	135.409	600	
								47.001	135.909	100	
SWMH 114-3	138.825	1.350	Open Manhole	1200	48.000	137.475	150				
SWMH 114-2	137.865	1.425	Open Manhole	1200	48.001	136.440	225	48.000	136.515	150	
DIST TANK	137.140	0.640	Open Manhole	450	49.000	136.500	100				
SIC 115-1	137.140	0.660	Open Manhole	450	49.001	136.480	100	49.000	136.480	100	
SWMH 114-1	137.350	1.425	Open Manhole	1200	48.002	135.925	225	48.001	135.925	225	
								49.001	136.050	100	
SMH 2	137.190	1.821	Open Manhole	1500	1.023	135.369	600	1.022	135.369	600	
								48.002	135.744	225	
DIST TANK	137.010	0.640	Open Manhole	450	50.000	136.370	100				
SIC 116-1	137.010	0.660	Open Manhole	450	50.001	136.350	100	50.000	136.350	100	
JUNCTION	137.000	1.649	Junction		1.024	135.351	600	1.023	135.351	600	
								50.001	135.839	100	
SMH 1	136.780	1.471	Open Manhole	1500	1.025	135.309	600	1.024	135.309	600	
POND	136.578	1.300	Open Manhole	1500	1.026	135.278	300	1.025	135.278	600	
FC	136.350	1.150	Open Manhole	1200	1.027	135.200	150	1.026	135.200	300	
	135.770	1.651	Open Manhole	0		OUTFALL		1.027	134.119	150	

No coordinates have been specified, layout information cannot be produced.

Jubb Consulting Engineers Limited

Unit 1, Ensign House

Parkway Court, Longbridge Road

Plymouth, PL6 8LR

VICTORIA ROAD

SWD NETWORK- POND A

30 YEAR

Date 15/07/2025

File SWD NETWORK - POND A - 100 YR...

Designed by EPH

Checked by

Innovyze

Network 2019.1

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.002	o	150	SMH 22	141.650	140.300	1.200	Open Manhole	1200
7.000	o	100	DIST TANK	141.220	140.395	0.725	Open Manhole	450
7.001	o	100	SIC 187-1	141.300	140.375	0.825	Open Manhole	450
6.003	o	150	JUNCTION	141.105	139.810	1.145	Junction	
8.000	o	100	DIST TANK	140.755	139.875	0.780	Open Manhole	450
8.001	o	100	SIC 186-1	140.865	139.855	0.910	Open Manhole	450
6.004	o	150	JUNCTION	140.690	139.360	1.180	Junction	
9.000	o	100	DIST TANK	140.255	139.350	0.805	Open Manhole	450
9.001	o	100	SIC 185-1	140.300	139.330	0.870	Open Manhole	450
6.005	o	150	SMH 21	140.100	138.750	1.200	Open Manhole	1200
10.000	o	100	DIST TANK	139.825	138.890	0.835	Open Manhole	450
10.001	o	100	SIC 205-1	139.860	138.850	0.910	Open Manhole	450
6.006	o	150	SMH 20	139.650	138.300	1.200	Open Manhole	1200
11.000	o	100	DIST TANK	139.570	138.990	0.480	Open Manhole	450
11.001	o	100	SIC 204-1	139.650	138.970	0.580	Open Manhole	450
6.007	o	150	JUNCTION	139.520	138.140	1.230	Junction	
6.008	o	150	SMH 19	139.480	137.911	1.419	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.002	11.630	23.7	JUNCTION	141.105	139.810	1.145	Junction	
7.000	1.000	50.0	SIC 187-1	141.300	140.375	0.825	Open Manhole	450
7.001	5.711	11.1	JUNCTION	141.105	139.860	1.145	Junction	
6.003	10.709	23.8	JUNCTION	140.690	139.360	1.180	Junction	
8.000	1.000	50.0	SIC 186-1	140.865	139.855	0.910	Open Manhole	450
8.001	5.359	12.0	JUNCTION	140.690	139.410	1.180	Junction	
6.004	14.513	23.8	SMH 21	140.100	138.750	1.200	Open Manhole	1200
9.000	1.000	50.0	SIC 185-1	140.300	139.330	0.870	Open Manhole	450
9.001	6.287	11.9	SMH 21	140.100	138.800	1.200	Open Manhole	1200
6.005	16.038	35.6	SMH 20	139.650	138.300	1.200	Open Manhole	1200
10.000	1.775	44.4	SIC 205-1	139.860	138.850	0.910	Open Manhole	450
10.001	5.975	12.0	SMH 20	139.650	138.350	1.200	Open Manhole	1200
6.006	5.575	34.8	JUNCTION	139.520	138.140	1.230	Junction	
11.000	1.000	50.0	SIC 204-1	139.650	138.970	0.580	Open Manhole	450
11.001	9.935	12.7	JUNCTION	139.520	138.190	1.230	Junction	
6.007	7.954	34.7	SMH 19	139.480	137.911	1.419	Open Manhole	1200
6.008	9.917	6.8	SMH 11	139.230	136.462	2.618	Open Manhole	1350

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Micro Drainage

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Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.009	o	375	SMH 11	139.230	136.237	2.618	Open Manhole	1350
12.000	o	100	DIST TANK	139.155	138.425	0.630	Open Manhole	450
12.001	o	100	SIC 222-1	139.180	138.395	0.685	Open Manhole	450
12.002	o	150	SMH 18	139.240	137.890	1.200	Open Manhole	1200
13.000	o	100	DIS TANK	139.210	138.480	0.630	Open Manhole	450
13.001	o	100	SIC 220-1	139.320	138.460	0.760	Open Manhole	450
12.003	o	150	JUNCTION	139.435	137.699	1.586	Junction	
14.000	o	100	DIST TANK	139.430	138.700	0.630	Open Manhole	450
14.001	o	100	SIC 219-1	139.505	138.680	0.725	Open Manhole	450
12.004	o	150	JUNCTION	139.635	137.508	1.977	Junction	
12.005	o	225	SMH 17	139.600	137.234	2.141	Open Manhole	1200
15.000	o	100	DIST TANK	139.460	138.820	0.540	Open Manhole	450
15.001	o	100	SIC 136-1	139.515	138.800	0.615	Open Manhole	450
12.006	o	225	JUNCTION	139.510	137.056	2.229	Junction	
16.000	o	100	DIST TANK	139.250	138.610	0.540	Open Manhole	450
16.001	o	100	SIC 138-1	139.355	138.590	0.665	Open Manhole	450
12.007	o	225	JUNCTION	139.370	136.807	2.338	Junction	
17.000	o	100	DIST TANK	139.015	138.375	0.540	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.009	48.885	208.0	SMH 10	138.885	136.002	2.508	Open Manhole	1500
12.000	1.550	51.7	SIC 222-1	139.180	138.395	0.685	Open Manhole	450
12.001	4.297	9.4	SMH 18	139.240	137.940	1.200	Open Manhole	1200
12.002	15.280	80.0	JUNCTION	139.435	137.699	1.586	Junction	
13.000	1.000	50.0	SIC 220-1	139.320	138.460	0.760	Open Manhole	450
13.001	6.156	8.7	JUNCTION	139.435	137.749	1.586	Junction	
12.003	15.299	80.0	JUNCTION	139.635	137.508	1.977	Junction	
14.000	1.000	50.0	SIC 219-1	139.505	138.680	0.725	Open Manhole	450
14.001	5.138	4.6	JUNCTION	139.635	137.558	1.977	Junction	
12.004	15.953	80.0	SMH 17	139.600	137.309	2.141	Open Manhole	1200
12.005	11.218	62.9	JUNCTION	139.510	137.056	2.229	Junction	
15.000	1.000	50.0	SIC 136-1	139.515	138.800	0.615	Open Manhole	450
15.001	6.716	4.1	JUNCTION	139.510	137.181	2.229	Junction	
12.006	15.689	63.0	JUNCTION	139.370	136.807	2.338	Junction	
16.000	1.000	50.0	SIC 138-1	139.355	138.590	0.665	Open Manhole	450
16.001	5.829	3.5	JUNCTION	139.370	136.932	2.338	Junction	
12.007	17.988	62.9	JUNCTION	139.085	136.521	2.339	Junction	
17.000	1.000	50.0	SIC 140-1	139.130	138.355	0.675	Open Manhole	450

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR		VICTORIA ROAD SWD NETWORK- POND A 30 YEAR						
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...		Designed by EPH Checked by						
Innovyze		Network 2019.1						
PIPELINE SCHEDULES for Storm								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	o	100	SIC 140-1	139.130	138.355	0.675	Open Manhole	450
12.008	o	225	JUNCTION	139.085	136.521	2.414	Junction	
18.000	o	100	DIST TANK	138.900	138.260	0.540	Open Manhole	450
18.001	o	100	SIC 141-1	138.900	138.240	0.560	Open Manhole	450
1.010	o	600	SMH 10	138.885	135.777	2.508	Open Manhole	1500
1.011	o	600	SMH 9	139.135	135.753	2.782	Open Manhole	1500
19.000	o	100	DIST TANK	140.580	139.920	0.560	Open Manhole	450
19.001	o	100	SIC 173-1	140.580	139.900	0.580	Open Manhole	450
19.002	o	150	SMH 32	140.715	139.345	1.220	Open Manhole	1200
20.000	o	100	DIST TANK	140.660	140.020	0.540	Open Manhole	450
20.001	o	100	SIC 172-1	140.660	140.000	0.560	Open Manhole	450
19.003	o	150	JUNCTION	140.925	139.260	1.515	Junction	
21.000	o	100	DIST TANK	140.925	140.285	0.540	Open Manhole	450
21.001	o	100	SIC 171-1	140.925	140.265	0.560	Open Manhole	450
19.004	o	150	SMH 31	141.190	139.152	1.888	Open Manhole	1200
22.000	o	100	DIST TANK	141.275	140.635	0.540	Open Manhole	450
22.001	o	100	SIC 170-1	141.275	140.615	0.560	Open Manhole	450
19.005	o	150	JUNCTION	141.410	139.062	2.198	Junction	
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	5.516	3.2	JUNCTION	139.085	136.646	2.339	Junction	
12.008	23.129	62.7	SMH 10	138.885	136.152	2.583	Open Manhole	1500
18.000	1.000	50.0	SIC 141-1	138.900	138.240	0.560	Open Manhole	450
18.001	6.574	3.3	SMH 10	138.885	136.277	2.508	Open Manhole	1500
1.010	10.672	450.0	SMH 9	139.135	135.753	2.782	Open Manhole	1500
1.011	27.837	450.0	SMH 8	139.965	135.691	3.674	Open Manhole	1500
19.000	1.000	50.0	SIC 173-1	140.580	139.900	0.580	Open Manhole	450
19.001	5.505	10.9	SMH 32	140.715	139.395	1.220	Open Manhole	1200
19.002	8.366	98.4	JUNCTION	140.925	139.260	1.515	Junction	
20.000	1.000	50.0	SIC 172-1	140.660	140.000	0.560	Open Manhole	450
20.001	5.123	7.4	JUNCTION	140.925	139.310	1.515	Junction	
19.003	10.641	98.5	SMH 31	141.190	139.152	1.888	Open Manhole	1200
21.000	1.000	50.0	SIC 171-1	140.925	140.265	0.560	Open Manhole	450
21.001	4.539	4.3	SMH 31	141.190	139.202	1.888	Open Manhole	1200
19.004	8.742	97.1	JUNCTION	141.410	139.062	2.198	Junction	
22.000	1.000	50.0	SIC 170-1	141.275	140.615	0.560	Open Manhole	450
22.001	5.941	4.0	JUNCTION	141.410	139.112	2.198	Junction	
19.005	11.645	97.0	JUNCTION	141.830	138.942	2.738	Junction	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
23.000	o	100	DIST TANK	141.515	140.875	0.540	Open Manhole	450
23.001	o	100	SIC 167-1	141.515	140.855	0.560	Open Manhole	450
19.006	o	150	JUNCTION	141.830	138.942	2.738	Junction	
19.007	o	150	SMH 30	142.825	138.759	3.916	Open Manhole	1200
24.000	o	100	DIST TANK	142.425	141.275	1.050	Open Manhole	450
24.001	o	100	SIC 174-1	142.500	141.235	1.165	Open Manhole	450
24.002	o	150	SMH 34	142.610	141.125	1.335	Open Manhole	1200
25.000	o	100	DIST TANK	142.590	141.440	1.050	Open Manhole	450
25.001	o	100	SIC 175-1	142.630	141.400	1.130	Open Manhole	450
24.003	o	150	JUNCTION	142.710	141.045	1.515	Junction	
24.004	o	150	SMH 33	142.960	140.854	1.956	Open Manhole	1200
19.008	o	225	SMH 29	143.175	138.575	4.375	Open Manhole	1200
26.000	o	100	DIST TANK	142.730	142.090	0.540	Open Manhole	450
26.001	o	100	SIC 176-1	142.730	142.070	0.560	Open Manhole	450
19.009	o	225	JUNCTION	142.750	138.425	4.100	Junction	
27.000	o	100	DIST TANK	142.647	142.007	0.540	Open Manhole	450
27.001	o	100	SIC 169-1	142.647	141.987	0.560	Open Manhole	450
19.010	o	225	SMH 28	142.600	138.381	3.994	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
23.000	1.000	50.0	SIC 167-1	141.515	140.855	0.560	Open Manhole	450
23.001	5.573	3.0	JUNCTION	141.830	138.992	2.738	Junction	
19.006	17.809	97.3	SMH 30	142.825	138.759	3.916	Open Manhole	1200
19.007	10.569	97.1	SMH 29	143.175	138.650	4.375	Open Manhole	1200
24.000	2.000	50.0	SIC 174-1	142.500	141.235	1.165	Open Manhole	450
24.001	3.210	53.5	SMH 34	142.610	141.175	1.335	Open Manhole	1200
24.002	7.966	99.6	JUNCTION	142.710	141.045	1.515	Junction	
25.000	2.000	50.0	SIC 175-1	142.630	141.400	1.130	Open Manhole	450
25.001	3.340	11.0	JUNCTION	142.710	141.095	1.515	Junction	
24.003	19.055	99.8	SMH 33	142.960	140.854	1.956	Open Manhole	1200
24.004	21.260	38.3	SMH 29	143.175	140.299	2.726	Open Manhole	1200
19.008	14.694	98.0	JUNCTION	142.750	138.425	4.100	Junction	
26.000	1.000	50.0	SIC 176-1	142.730	142.070	0.560	Open Manhole	450
26.001	7.163	2.0	JUNCTION	142.750	138.550	4.100	Junction	
19.009	4.331	98.4	SMH 28	142.600	138.381	3.994	Open Manhole	450
27.000	1.000	50.0	SIC 169-1	142.647	141.987	0.560	Open Manhole	450
27.001	5.718	3.3	SMH 28	142.600	140.231	2.269	Open Manhole	450
19.010	7.021	100.3	JUNCTION	142.250	138.311	3.714	Junction	

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<u>PIPELINE SCHEDULES for Storm</u>									
<u>Upstream Manhole</u>									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
28.000	o	100	DIST TANK	141.925	141.285	0.540	Open Manhole		450
28.001	o	100	SIC 178-1	141.925	141.265	0.560	Open Manhole		450
19.011	o	225	JUNCTION	142.250	138.311	3.714	Junction		
29.000	o	100	DIST TANK	141.489	140.849	0.540	Open Manhole		450
29.001	o	100	SIC 166-1	141.489	140.829	0.560	Open Manhole		450
30.000	o	100	DIST TANK	142.815	141.815	0.900	Open Manhole		450
30.001	o	100	SIC 184-1	142.910	141.795	1.015	Open Manhole		450
30.002	o	150	SMH 27	142.975	141.625	1.200	Open Manhole		1200
31.000	o	100	DIST TANK	142.700	142.020	0.580	Open Manhole		450
31.001	o	100	SIC 182-1	142.850	142.000	0.750	Open Manhole		450
30.003	o	150	SMH 26	142.790	141.440	1.200	Open Manhole		1200
30.004	o	150	SMH 25	142.700	141.335	1.215	Open Manhole		1200
32.000	o	100	DIST TANK	142.635	141.655	0.880	Open Manhole		450
32.001	o	100	SIC 181-1	142.750	141.635	1.015	Open Manhole		450
30.005	o	150	JUNCTION	142.660	141.252	1.258	Junction		
33.000	o	150	HD CP1	142.160	140.810	1.200	Open Manhole		1200
30.006	o	225	SMH 24	142.350	140.635	1.490	Open Manhole		1200
<u>Downstream Manhole</u>									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
28.000	1.000	50.0	SIC 178-1	141.925	141.265	0.560	Open Manhole		450
28.001	9.295	3.3	JUNCTION	142.250	138.436	3.714	Junction		
19.011	14.785	101.3	SMH 23	141.400	138.165	3.010	Open Manhole		1200
29.000	1.000	50.0	SIC 166-1	141.489	140.829	0.560	Open Manhole		450
29.001	4.575	4.8	SMH 23	141.400	139.869	1.431	Open Manhole		1200
30.000	1.000	50.0	SIC 184-1	142.910	141.795	1.015	Open Manhole		450
30.001	5.994	50.0	SMH 27	142.975	141.675	1.200	Open Manhole		1200
30.002	14.939	80.8	SMH 26	142.790	141.440	1.200	Open Manhole		1200
31.000	1.000	50.0	SIC 182-1	142.850	142.000	0.750	Open Manhole		450
31.001	5.504	10.8	SMH 26	142.790	141.490	1.200	Open Manhole		1200
30.003	8.415	80.0	SMH 25	142.700	141.335	1.215	Open Manhole		1200
30.004	2.616	31.5	JUNCTION	142.660	141.252	1.258	Junction		
32.000	1.000	50.0	SIC 181-1	142.750	141.635	1.015	Open Manhole		450
32.001	6.676	20.0	JUNCTION	142.660	141.302	1.258	Junction		
30.005	17.093	31.5	SMH 24	142.350	140.710	1.490	Open Manhole		1200
33.000	10.000	100.0	SMH 24	142.350	140.710	1.490	Open Manhole		1200

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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.000	o	100	DIST TANK	141.725	141.085	0.540	Open Manhole	450
34.001	o	100	SIC 190-1	141.750	141.065	0.585	Open Manhole	450
30.007	o	225	JUNCTION	141.810	139.765	1.820	Junction	
35.000	o	100	DIST TANK	141.810	141.170	0.540	Open Manhole	450
35.001	o	100	SIC 180-1	141.900	141.150	0.650	Open Manhole	450
30.008	o	225	JUNCTION	141.795	139.726	1.844	Junction	
36.000	o	100	DIST TANK	141.685	141.045	0.540	Open Manhole	450
36.001	o	100	SIC 191-1	141.700	141.025	0.575	Open Manhole	450
30.009	o	225	JUNCTION	141.630	139.296	2.109	Junction	
37.000	o	100	DIST TANK	141.760	141.120	0.540	Open Manhole	450
37.001	o	100	SIC 179-1	141.785	141.100	0.585	Open Manhole	450
30.010	o	225	JUNCTION	141.600	139.202	2.173	Junction	
19.012	o	300	SMH 23	141.400	138.090	3.010	Open Manhole	1200
38.000	o	100	DIST TANK	140.480	139.840	0.540	Open Manhole	450
38.001	o	100	SIC 165-1	140.810	139.820	0.890	Open Manhole	450
19.013	o	300	JUNCTION	140.925	137.936	2.689	Junction	
1.012	o	600	SMH 8	139.965	135.691	3.674	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.000	1.000	50.0	SIC 190-1	141.750	141.065	0.585	Open Manhole	450
34.001	6.997	6.0	JUNCTION	141.810	139.890	1.820	Junction	
30.007	1.020	26.2	JUNCTION	141.795	139.726	1.844	Junction	
35.000	1.000	50.0	SIC 180-1	141.900	141.150	0.650	Open Manhole	450
35.001	5.500	4.2	JUNCTION	141.795	139.851	1.844	Junction	
30.008	11.314	26.3	JUNCTION	141.630	139.296	2.109	Junction	
36.000	1.000	50.0	SIC 191-1	141.700	141.025	0.575	Open Manhole	450
36.001	6.997	4.4	JUNCTION	141.630	139.421	2.109	Junction	
30.009	2.476	26.3	JUNCTION	141.600	139.202	2.173	Junction	
37.000	1.000	50.0	SIC 179-1	141.785	141.100	0.585	Open Manhole	450
37.001	6.100	3.4	JUNCTION	141.600	139.327	2.173	Junction	
30.010	27.427	26.4	SMH 23	141.400	138.165	3.010	Open Manhole	1200
19.012	15.382	99.9	JUNCTION	140.925	137.936	2.689	Junction	
38.000	1.000	50.0	SIC 165-1	140.810	139.820	0.890	Open Manhole	450
38.001	5.000	3.0	JUNCTION	140.925	138.136	2.689	Junction	
19.013	25.832	100.1	SMH 8	139.965	137.678	1.987	Open Manhole	1500
1.012	23.589	453.6	SMH 7	139.400	135.639	3.161	Open Manhole	1500

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PIPELINE SCHEDULES for Storm								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
44.000	o	100	DIST TANK	138.030	137.390	0.540	Open Manhole	450
44.001	o	100	SIC 148-1	138.190	137.370	0.720	Open Manhole	450
1.017	o	600	JUNCTION	138.075	135.519	1.956	Junction	
1.018	o	600	SMH 4	138.060	135.491	1.969	Open Manhole	1500
45.000	o	100	DIST TANK	138.030	137.390	0.540	Open Manhole	450
45.001	o	100	SIC 150-1	138.030	137.370	0.560	Open Manhole	450
1.019	o	600	JUNCTION	138.080	135.482	1.998	Junction	
1.020	o	600	SMH 3	138.010	135.456	1.954	Open Manhole	1500
46.000	o	100	DIST TANK	137.850	137.210	0.540	Open Manhole	450
46.001	o	100	SIC 111-1	137.850	137.190	0.560	Open Manhole	450
1.021	o	600	JUNCTION	137.950	135.446	1.904	Junction	
47.000	o	100	DIST TANK	137.500	136.860	0.540	Open Manhole	450
47.001	o	100	SIC 113-1	137.500	136.840	0.560	Open Manhole	450
1.022	o	600	JUNCTION	137.700	135.409	1.691	Junction	
48.000	o	150	SWMH 114-3	138.825	137.475	1.200	Open Manhole	1200
48.001	o	225	SWMH 114-2	137.865	136.440	1.200	Open Manhole	1200
49.000	o	100	DIST TANK	137.140	136.500	0.540	Open Manhole	450
49.001	o	100	SIC 115-1	137.140	136.480	0.560	Open Manhole	450
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
44.000	1.000	50.0	SIC 148-1	138.190	137.370	0.720	Open Manhole	450
44.001	7.685	5.7	JUNCTION	138.075	136.019	1.956	Junction	
1.017	12.689	453.2	SMH 4	138.060	135.491	1.969	Open Manhole	1500
1.018	3.967	455.0	JUNCTION	138.080	135.482	1.998	Junction	
45.000	1.000	50.0	SIC 150-1	138.030	137.370	0.560	Open Manhole	450
45.001	6.583	4.7	JUNCTION	138.080	135.982	1.998	Junction	
1.019	12.038	463.0	SMH 3	138.010	135.456	1.954	Open Manhole	1500
1.020	4.751	455.0	JUNCTION	137.950	135.446	1.904	Junction	
46.000	1.000	50.0	SIC 111-1	137.850	137.190	0.560	Open Manhole	450
46.001	6.200	5.0	JUNCTION	137.950	135.946	1.904	Junction	
1.021	16.787	453.7	JUNCTION	137.700	135.409	1.691	Junction	
47.000	1.000	50.0	SIC 113-1	137.500	136.840	0.560	Open Manhole	450
47.001	6.955	7.5	JUNCTION	137.700	135.909	1.691	Junction	
1.022	18.318	458.0	SMH 2	137.190	135.369	1.221	Open Manhole	1500
48.000	38.846	40.5	SWMH 114-2	137.865	136.515	1.200	Open Manhole	1200
48.001	22.929	44.5	SWMH 114-1	137.350	135.925	1.200	Open Manhole	1200
49.000	1.000	50.0	SIC 115-1	137.140	136.480	0.560	Open Manhole	450
49.001	4.470	10.4	SWMH 114-1	137.350	136.050	1.200	Open Manhole	1200
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Unit 1, Ensign House
Parkway Court, Longbridge Road
Plymouth, PL6 8LR

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File SWD NETWORK - POND A - 100 YR...

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VICTORIA ROAD
SWD NETWORK- POND A
30 YEAR

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Micro Drainage

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.002	o	225	SWMH 114-1	137.350	135.925	1.200	Open Manhole	1200
1.023	o	600	SMH 2	137.190	135.369	1.221	Open Manhole	1500
50.000	o	100	DIST TANK	137.010	136.370	0.540	Open Manhole	450
50.001	o	100	SIC 116-1	137.010	136.350	0.560	Open Manhole	450
1.024	o	600	JUNCTION	137.000	135.351	1.049	Junction	
1.025	o	600	SMH 1	136.780	135.309	0.871	Open Manhole	1500
1.026	o	300	POND	136.578	135.278	1.000	Open Manhole	1500
1.027	o	150	FC	136.350	135.200	1.000	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.002	5.083	28.1	SMH 2	137.190	135.744	1.221	Open Manhole	1500
1.023	8.042	455.0	JUNCTION	137.000	135.351	1.049	Junction	
50.000	1.000	50.0	SIC 116-1	137.010	136.350	0.560	Open Manhole	450
50.001	8.248	16.1	JUNCTION	137.000	135.839	1.061	Junction	
1.024	19.192	457.0	SMH 1	136.780	135.309	0.871	Open Manhole	1500
1.025	13.188	425.4	POND	136.578	135.278	0.700	Open Manhole	1500
1.026	7.176	92.0	FC	136.350	135.200	0.850	Open Manhole	1200
1.027	8.622	8.0		135.770	134.119	1.501	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.027		135.770	134.119	0.000	0	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.840	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 48 Number of Storage Structures 48 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	D2 (1km)	0.417
Return Period (years)	1	D3 (1km)	0.273
FEH Rainfall Version	1999	E (1km)	0.289
Site Location	GB 386850 145550 ST 86850 45550	F (1km)	2.484
C (1km)	-0.027	Summer Storms	No
D1 (1km)	0.363	Winter Storms	Yes

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Synthetic Rainfall Details Cv (Summer) 0.750 Storm Duration (mins) 15 Cv (Winter) 0.840		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Online Controls for Storm</u> <u>Orifice Manhole: SIC 206-1, DS/PN: 1.001, Volume (m³): 0.7</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.250 <u>Orifice Manhole: SIC 207-1, DS/PN: 2.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.240 <u>Orifice Manhole: SIC 208-1, DS/PN: 3.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.300 <u>Orifice Manhole: SIC 209-1, DS/PN: 4.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.445 <u>Orifice Manhole: SIC 210-1, DS/PN: 5.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.530 <u>Orifice Manhole: SIC 188-1, DS/PN: 6.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.140 <u>Orifice Manhole: SIC 187-1, DS/PN: 7.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.375 <u>Orifice Manhole: SIC 186-1, DS/PN: 8.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.855 <u>Orifice Manhole: SIC 185-1, DS/PN: 9.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.330 <u>Orifice Manhole: SIC 205-1, DS/PN: 10.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.850 <u>Orifice Manhole: SIC 204-1, DS/PN: 11.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.970 <u>Orifice Manhole: SIC 222-1, DS/PN: 12.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.395 <u>Orifice Manhole: SIC 220-1, DS/PN: 13.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.460 <u>Orifice Manhole: SIC 219-1, DS/PN: 14.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.680		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Orifice Manhole: SIC 136-1, DS/PN: 15.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.800 <u>Orifice Manhole: SIC 138-1, DS/PN: 16.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.590 <u>Orifice Manhole: SIC 140-1, DS/PN: 17.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.355 <u>Orifice Manhole: SIC 141-1, DS/PN: 18.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.240 <u>Orifice Manhole: SIC 173-1, DS/PN: 19.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.900 <u>Orifice Manhole: SIC 172-1, DS/PN: 20.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.000 <u>Orifice Manhole: SIC 171-1, DS/PN: 21.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.265 <u>Orifice Manhole: SIC 170-1, DS/PN: 22.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.615 <u>Orifice Manhole: SIC 167-1, DS/PN: 23.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.855 <u>Orifice Manhole: SIC 174-1, DS/PN: 24.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.235 <u>Orifice Manhole: SIC 175-1, DS/PN: 25.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.400 <u>Orifice Manhole: SIC 176-1, DS/PN: 26.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 142.070 <u>Orifice Manhole: SIC 169-1, DS/PN: 27.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.987 <u>Orifice Manhole: SIC 178-1, DS/PN: 28.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.265		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Orifice Manhole: SIC 166-1, DS/PN: 29.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.829 <u>Orifice Manhole: SIC 184-1, DS/PN: 30.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.795 <u>Orifice Manhole: SIC 182-1, DS/PN: 31.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 142.000 <u>Orifice Manhole: SIC 181-1, DS/PN: 32.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.635 <u>Orifice Manhole: SIC 190-1, DS/PN: 34.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.065 <u>Orifice Manhole: SIC 180-1, DS/PN: 35.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.150 <u>Orifice Manhole: SIC 191-1, DS/PN: 36.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.025 <u>Orifice Manhole: SIC 179-1, DS/PN: 37.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.100 <u>Orifice Manhole: SIC 165-1, DS/PN: 38.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.820 <u>Orifice Manhole: SIC 146-1, DS/PN: 39.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.690 <u>Orifice Manhole: SIC 152-1, DS/PN: 40.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.350 <u>Orifice Manhole: SIC 153-1, DS/PN: 41.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.160 <u>Orifice Manhole: SIC 154-1, DS/PN: 42.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.805 <u>Orifice Manhole: SIC 155-1, DS/PN: 43.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.315		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR																																																																																																															
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<u>Orifice Manhole: SIC 148-1, DS/PN: 44.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.370 <u>Orifice Manhole: SIC 150-1, DS/PN: 45.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.370 <u>Orifice Manhole: SIC 111-1, DS/PN: 46.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.190 <u>Orifice Manhole: SIC 113-1, DS/PN: 47.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 136.840 <u>Orifice Manhole: SIC 115-1, DS/PN: 49.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 136.480 <u>Hydro-Brake® Optimum Manhole: POND, DS/PN: 1.026, Volume (m³): 5.6</u> <table><tr><td>Unit Reference</td><td>MD-SHE-0089-3500-1000-3500</td></tr><tr><td>Design Head (m)</td><td>1.000</td></tr><tr><td>Design Flow (l/s)</td><td>3.5</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Application</td><td>Surface</td></tr><tr><td>Sump Available</td><td>Yes</td></tr><tr><td>Diameter (mm)</td><td>89</td></tr><tr><td>Invert Level (m)</td><td>135.278</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td>150</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td>1200</td></tr></table> <table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>1.000</td><td>3.5</td><td>Kick-Flo®</td><td>0.632</td><td>2.8</td></tr><tr><td>Flush-Flo™</td><td>0.300</td><td>3.5</td><td>Mean Flow over Head Range</td><td>-</td><td>3.1</td></tr></table> The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.7</td><td>0.800</td><td>3.1</td><td>2.000</td><td>4.8</td><td>4.000</td><td>6.7</td><td>7.000</td><td>8.7</td></tr><tr><td>0.200</td><td>3.4</td><td>1.000</td><td>3.5</td><td>2.200</td><td>5.0</td><td>4.500</td><td>7.0</td><td>7.500</td><td>9.0</td></tr><tr><td>0.300</td><td>3.5</td><td>1.200</td><td>3.8</td><td>2.400</td><td>5.2</td><td>5.000</td><td>7.4</td><td>8.000</td><td>9.2</td></tr><tr><td>0.400</td><td>3.4</td><td>1.400</td><td>4.1</td><td>2.600</td><td>5.4</td><td>5.500</td><td>7.7</td><td>8.500</td><td>9.5</td></tr><tr><td>0.500</td><td>3.3</td><td>1.600</td><td>4.3</td><td>3.000</td><td>5.8</td><td>6.000</td><td>8.1</td><td>9.000</td><td>9.8</td></tr><tr><td>0.600</td><td>3.0</td><td>1.800</td><td>4.6</td><td>3.500</td><td>6.2</td><td>6.500</td><td>8.4</td><td>9.500</td><td>10.0</td></tr></table>			Unit Reference	MD-SHE-0089-3500-1000-3500	Design Head (m)	1.000	Design Flow (l/s)	3.5	Flush-Flo™	Calculated	Objective	Minimise upstream storage	Application	Surface	Sump Available	Yes	Diameter (mm)	89	Invert Level (m)	135.278	Minimum Outlet Pipe Diameter (mm)	150	Suggested Manhole Diameter (mm)	1200	Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	1.000	3.5	Kick-Flo®	0.632	2.8	Flush-Flo™	0.300	3.5	Mean Flow over Head Range	-	3.1	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.7	0.800	3.1	2.000	4.8	4.000	6.7	7.000	8.7	0.200	3.4	1.000	3.5	2.200	5.0	4.500	7.0	7.500	9.0	0.300	3.5	1.200	3.8	2.400	5.2	5.000	7.4	8.000	9.2	0.400	3.4	1.400	4.1	2.600	5.4	5.500	7.7	8.500	9.5	0.500	3.3	1.600	4.3	3.000	5.8	6.000	8.1	9.000	9.8	0.600	3.0	1.800	4.6	3.500	6.2	6.500	8.4	9.500	10.0
Unit Reference	MD-SHE-0089-3500-1000-3500																																																																																																															
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<u>Storage Structures for Storm</u> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 1.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.270</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 2.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>8.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.260</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TK 1, DS/PN: 3.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.9</td></tr><tr><td>Max Percolation (l/s)</td><td>11.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.320</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 4.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.9</td></tr><tr><td>Max Percolation (l/s)</td><td>11.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.465</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 5.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.6</td></tr><tr><td>Max Percolation (l/s)</td><td>11.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.550</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 6.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.8</td></tr><tr><td>Max Percolation (l/s)</td><td>19.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>141.160</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 7.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>5.5</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>5.7</td></tr><tr><td>Max Percolation (l/s)</td><td>8.7</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>140.395</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.270	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	8.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.260	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.9	Max Percolation (l/s)	11.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.320	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.9	Max Percolation (l/s)	11.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.465	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.6	Max Percolation (l/s)	11.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.550	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.4	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	19.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	141.160	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	5.5	Membrane Percolation (mm/hr)	1000	Length (m)	5.7	Max Percolation (l/s)	8.7	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	140.395	Membrane Depth (mm)	0
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR																																																																																																																																																																									
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(mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.890	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	10.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.990	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.2	Max Percolation (l/s)	8.5	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.425	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.480	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane 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Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.700	Membrane Depth (mm)	0																																																																																																																																																																							
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR																																																																																																																																																																									
Date 15/07/2025	Designed by EPH																																																																																																																																																																									
File SWD NETWORK - POND A - 100 YR...	Checked by																																																																																																																																																																									
Innovyze	Network 2019.1																																																																																																																																																																									
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 15.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.7</td></tr><tr><td>Max Percolation (l/s)</td><td>9.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.820</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 16.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.2</td></tr><tr><td>Max Percolation (l/s)</td><td>18.7</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.610</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 17.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.0</td></tr><tr><td>Max Percolation (l/s)</td><td>18.3</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.375</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 18.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.260</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 19.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.8</td></tr><tr><td>Max Percolation (l/s)</td><td>9.9</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>139.920</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 20.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.8</td></tr><tr><td>Max Percolation (l/s)</td><td>9.9</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>140.020</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 21.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.8</td></tr><tr><td>Max Percolation (l/s)</td><td>9.9</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>140.285</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	11.7	Max Percolation (l/s)	9.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.820	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	11.2	Max Percolation (l/s)	18.7	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.610	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	11.0	Max Percolation (l/s)	18.3	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.375	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.260	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	9.9	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	139.920	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	9.9	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	140.020	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	9.9	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	140.285	Membrane Depth (mm)	0
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	11.7																																																																																																																																																																							
Max Percolation (l/s)	9.8	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.820	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	11.2																																																																																																																																																																							
Max Percolation (l/s)	18.7	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.610	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	11.0																																																																																																																																																																							
Max Percolation (l/s)	18.3	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.375	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																																																																							
Max Percolation (l/s)	16.0	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.260	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	10.8																																																																																																																																																																							
Max Percolation (l/s)	9.9	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	139.920	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	10.8																																																																																																																																																																							
Max Percolation (l/s)	9.9	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	140.020	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	10.8																																																																																																																																																																							
Max Percolation (l/s)	9.9	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	140.285	Membrane Depth (mm)	0																																																																																																																																																																							
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 22.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 9.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.635 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 23.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 16.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.875 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 24.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 6.2 Max Percolation (l/s) 9.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.275 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 25.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 6.2 Max Percolation (l/s) 9.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.440 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 26.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 11.7 Max Percolation (l/s) 10.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.090 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 27.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 13.0 Max Percolation (l/s) 11.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.007 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 28.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.3 Membrane Percolation (mm/hr) 1000 Length (m) 11.2 Max Percolation (l/s) 19.6 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.285 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 29.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.3 Max Percolation (l/s) 9.4 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.849 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 30.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 19.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.815 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 31.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 10.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.020 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 32.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 10.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.655 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 34.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 8.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.085 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 35.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 8.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.170 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 36.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.5 Max Percolation (l/s) 8.8 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.045 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 37.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.3 Max Percolation (l/s) 8.6 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.120 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 38.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 9.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.0 Max Percolation (l/s) 25.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.840 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 39.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 9.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.6 Max Percolation (l/s) 26.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 137.710 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 40.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 17.6 Max Percolation (l/s) 16.1 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.370 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 41.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.180 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 42.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.825 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 43.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.335 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR																																																																																																																																	
Date 15/07/2025	Designed by EPH																																																																																																																																	
File SWD NETWORK - POND A - 100 YR...	Checked by																																																																																																																																	
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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 44.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>16.7</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.390</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 45.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.390</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 46.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.210</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 47.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>136.860</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 49.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.7</td></tr><tr><td>Max Percolation (l/s)</td><td>9.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>136.500</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Tank or Pond Manhole: POND, DS/PN: 1.026</u> Invert Level (m) 135.278 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1637.2</td><td>1.300</td><td>2298.1</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	16.7	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.390	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.390	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.210	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.860	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.7	Max Percolation (l/s)	9.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.500	Membrane Depth (mm)	0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1637.2	1.300	2298.1
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
1.001	SIC 206-1	0.000	0.04		0.6	SURCHARGED	
1.002	SMH 14	0.000	0.28		16.5	OK*	
2.000	DIST TANK 1	0.000	0.14		0.5	SURCHARGED	
2.001	SIC 207-1	0.000	0.02		0.5	SURCHARGED	
1.003	JUNCTION	0.000	0.56		16.9	OK*	
1.004	SMH 13	0.000	0.27		16.8	OK	
3.000	DIST TK 1	0.000	0.15		0.6	SURCHARGED	
3.001	SIC 208-1	0.000	0.02		0.6	SURCHARGED	
1.005	JUNCTION	0.000	0.28		23.3	OK*	
4.000	DIST TANK 1	0.000	0.15		0.6	SURCHARGED	
4.001	SIC 209-1	0.000	0.02		0.6	SURCHARGED	
1.006	JUNCTION	0.000	0.38		30.3	OK*	
5.000	DIST TANK 1	0.000	0.11		0.4	SURCHARGED	
5.001	SIC 210-1	0.000	0.02		0.4	SURCHARGED	
1.007	JUNCTION	0.000	0.36		31.0	OK*	
1.008	SMH 12	0.000	0.46		31.1	OK	
6.000	DIST TANK	0.000	0.17		0.7	SURCHARGED	
6.001	SIC 188-1	0.000	0.04		0.6	SURCHARGED	
6.002	SMH 22	0.000	0.19		6.3	OK	
7.000	DIST TANK	0.000	0.16		0.6	SURCHARGED	
7.001	SIC 187-1	0.000	0.04		0.6	SURCHARGED	
6.003	JUNCTION	0.000	0.34		12.6	OK*	
8.000	DIST TANK	0.000	0.16		0.6	SURCHARGED	
8.001	SIC 186-1	0.000	0.04		0.6	SURCHARGED	
6.004	JUNCTION	0.000	0.36		13.0	OK*	
9.000	DIST TANK	0.000	0.16		0.6	SURCHARGED	
9.001	SIC 185-1	0.000	0.04		0.6	SURCHARGED	
6.005	SMH 21	0.000	0.48		13.4	OK	
10.000	DIST TANK	0.000	0.11		0.6	SURCHARGED	
10.001	SIC 205-1	0.000	0.04		0.6	SURCHARGED	
6.006	SMH 20	0.000	0.56		13.9	OK	

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VICTORIA ROAD
SWD NETWORK- POND A
30 YEAR

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
11.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				139.176	0.086
11.001	SIC 204-1	60 Winter	30	+0%	30/15 Summer				139.179	0.109
6.007	JUNCTION	15 Winter	30	+0%					138.213	-0.077
6.008	SMH 19	15 Winter	30	+0%					137.971	-0.090
1.009	SMH 11	15 Winter	30	+0%					136.508	-0.104
12.000	DIST TANK	15 Winter	30	+0%					138.525	0.000
12.001	SIC 222-1	15 Winter	30	+0%	30/15 Summer				138.524	0.029
12.002	SMH 18	15 Winter	30	+0%					137.937	-0.103
13.000	DIS TANK	30 Winter	30	+0%	30/15 Summer				138.613	0.033
13.001	SIC 220-1	30 Winter	30	+0%	30/15 Summer				138.619	0.059
12.003	JUNCTION	15 Winter	30	+0%					137.752	-0.097
14.000	DIST TANK	15 Winter	30	+0%	30/15 Summer				138.936	0.136
14.001	SIC 219-1	30 Summer	30	+0%	30/15 Summer				138.910	0.130
12.004	JUNCTION	15 Winter	30	+0%					137.572	-0.086
12.005	SMH 17	15 Winter	30	+0%					137.314	-0.145
15.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				138.996	0.076
15.001	SIC 136-1	30 Winter	30	+0%	30/15 Summer				139.004	0.104
12.006	JUNCTION	15 Winter	30	+0%					137.136	-0.145
16.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				138.772	0.062
16.001	SIC 138-1	180 Winter	30	+0%	30/15 Summer				138.781	0.091
12.007	JUNCTION	15 Winter	30	+0%					136.941	-0.091
17.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				138.539	0.064
17.001	SIC 140-1	120 Winter	30	+0%	30/15 Summer				138.555	0.100
12.008	JUNCTION	15 Winter	30	+0%					136.669	-0.077
18.000	DIST TANK	60 Winter	30	+0%	30/60 Winter				138.361	0.001
18.001	SIC 141-1	30 Winter	30	+0%	30/15 Winter				138.371	0.031
1.010	SMH 10	15 Winter	30	+0%	30/15 Winter				136.452	0.075
1.011	SMH 9	15 Winter	30	+0%	30/15 Winter				136.438	0.085
19.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				140.076	0.056
19.001	SIC 173-1	30 Winter	30	+0%	30/15 Summer				140.085	0.085
19.002	SMH 32	15 Winter	30	+0%					139.418	-0.077
20.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				140.158	0.038
20.001	SIC 172-1	60 Winter	30	+0%	30/15 Summer				140.162	0.062
19.003	JUNCTION	15 Winter	30	+0%					139.357	-0.053
21.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				140.491	0.106
21.001	SIC 171-1	30 Winter	30	+0%	30/15 Summer				140.495	0.130
19.004	SMH 31	15 Winter	30	+0%					139.301	-0.001
22.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				140.808	0.073
22.001	SIC 170-1	120 Winter	30	+0%	30/15 Summer				140.808	0.093
19.005	JUNCTION	15 Winter	30	+0%					139.212	0.000
23.000	DIST TANK	60 Winter	30	+0%					140.964	-0.011
23.001	SIC 167-1	60 Winter	30	+0%	30/15 Winter				140.974	0.019
19.006	JUNCTION	15 Winter	30	+0%					139.092	0.000
19.007	SMH 30	15 Winter	30	+0%	30/15 Summer				138.968	0.059
24.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				141.449	0.074
24.001	SIC 174-1	15 Winter	30	+0%	30/15 Summer				141.446	0.111
24.002	SMH 34	15 Winter	30	+0%					141.181	-0.094
25.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				141.614	0.074
25.001	SIC 175-1	15 Winter	30	+0%	30/15 Summer				141.613	0.113
24.003	JUNCTION	15 Winter	30	+0%					141.126	-0.069
24.004	SMH 33	15 Winter	30	+0%					140.917	-0.087
19.008	SMH 29	15 Winter	30	+0%	30/15 Winter				138.806	0.006
26.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				142.285	0.095
26.001	SIC 176-1	60 Winter	30	+0%	30/15 Summer				142.276	0.106
19.009	JUNCTION	15 Winter	30	+0%					138.650	0.000
27.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				142.155	0.048
27.001	SIC 169-1	30 Winter	30	+0%	30/15 Summer				142.162	0.075
19.010	SMH 28	15 Winter	30	+0%	30/15 Summer				138.639	0.033
28.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				141.483	0.098
28.001	SIC 178-1	60 Winter	30	+0%	30/15 Summer				141.492	0.127
19.011	JUNCTION	15 Winter	30	+0%					138.536	0.000
29.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				140.976	0.027
29.001	SIC 166-1	15 Winter	30	+0%	30/15 Summer				140.982	0.053
30.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				142.017	0.102

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VICTORIA ROAD
SWD NETWORK- POND A
30 YEAR

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
11.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
11.001	SIC 204-1	0.000	0.04		0.6	SURCHARGED	
6.007	JUNCTION	0.000	0.48		14.4	OK*	
6.008	SMH 19	0.000	0.33		20.0	OK	
1.009	SMH 11	0.000	0.55		70.5	OK	
12.000	DIST TANK	0.000	0.34		1.6	OK	
12.001	SIC 222-1	0.000	0.10		1.6	SURCHARGED	
12.002	SMH 18	0.000	0.21		3.9	OK	
13.000	DIS TANK	0.000	0.47		1.8	SURCHARGED	
13.001	SIC 220-1	0.000	0.10		1.8	SURCHARGED	
12.003	JUNCTION	0.000	0.27		5.3	OK*	
14.000	DIST TANK	0.000	0.61		2.4	SURCHARGED	
14.001	SIC 219-1	0.000	0.09		2.3	SURCHARGED	
12.004	JUNCTION	0.000	0.38		7.5	OK*	
12.005	SMH 17	0.000	0.26		14.7	OK	
15.000	DIST TANK	0.000	0.14		0.6	SURCHARGED	
15.001	SIC 136-1	0.000	0.02		0.5	SURCHARGED	
12.006	JUNCTION	0.000	0.26		17.4	OK*	
16.000	DIST TANK	0.000	0.14		0.5	SURCHARGED	
16.001	SIC 138-1	0.000	0.02		0.5	SURCHARGED	
12.007	JUNCTION	0.000	0.65		42.7	OK*	
17.000	DIST TANK	0.000	0.14		0.5	SURCHARGED	
17.001	SIC 140-1	0.000	0.02		0.5	SURCHARGED	
12.008	JUNCTION	0.000	0.75		49.4	OK*	
18.000	DIST TANK	0.000	0.11		0.4	SURCHARGED	
18.001	SIC 141-1	0.000	0.01		0.4	SURCHARGED	
1.010	SMH 10	0.000	0.75		126.0	SURCHARGED	
1.011	SMH 9	0.000	0.52		136.2	SURCHARGED	
19.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
19.001	SIC 173-1	0.000	0.03		0.5	SURCHARGED	
19.002	SMH 32	0.000	0.48		7.5	OK	
20.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
20.001	SIC 172-1	0.000	0.03		0.5	SURCHARGED	
19.003	JUNCTION	0.000	0.75		13.3	OK*	
21.000	DIST TANK	0.000	0.14		0.6	SURCHARGED	
21.001	SIC 171-1	0.000	0.02		0.6	SURCHARGED	
19.004	SMH 31	0.000	0.82		13.0	OK	
22.000	DIST TANK	0.000	0.14		0.6	SURCHARGED	
22.001	SIC 170-1	0.000	0.02		0.5	SURCHARGED	
19.005	JUNCTION	0.000	0.77		13.9	SURCHARGED*	
23.000	DIST TANK	0.000	0.11		0.4	OK	
23.001	SIC 167-1	0.000	0.01		0.4	SURCHARGED	
19.006	JUNCTION	0.000	1.10		19.9	SURCHARGED*	
19.007	SMH 30	0.000	1.21		19.6	SURCHARGED	
24.000	DIST TANK	0.000	0.10		0.6	SURCHARGED	
24.001	SIC 174-1	0.000	0.08		0.6	SURCHARGED	
24.002	SMH 34	0.000	0.30		4.6	OK	
25.000	DIST TANK	0.000	0.10		0.6	SURCHARGED	
25.001	SIC 175-1	0.000	0.04		0.6	SURCHARGED	
24.003	JUNCTION	0.000	0.57		10.1	OK*	
24.004	SMH 33	0.000	0.37		10.0	OK	
19.008	SMH 29	0.000	0.68		31.2	SURCHARGED	
26.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
26.001	SIC 176-1	0.000	0.02		0.6	SURCHARGED	
19.009	JUNCTION	0.000	1.06		31.7	SURCHARGED*	
27.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
27.001	SIC 169-1	0.000	0.02		0.5	SURCHARGED	
19.010	SMH 28	0.000	0.89		33.0	SURCHARGED	
28.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
28.001	SIC 178-1	0.000	0.02		0.6	SURCHARGED	
19.011	JUNCTION	0.000	0.92		47.4	SURCHARGED*	
29.000	DIST TANK	0.000	0.12		0.5	SURCHARGED	
29.001	SIC 166-1	0.000	0.02		0.5	SURCHARGED	

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
30.000	DIST TANK	0.000	0.15	0.6	SURCHARGED	

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Unit 1, Ensign House
Parkway Court, Longbridge Road
Plymouth, PL6 8LR

Date 15/07/2025
File SWD NETWORK - POND A - 100 YR...

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VICTORIA ROAD
SWD NETWORK- POND A
30 YEAR

Designed by EPH
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
30.001	SIC 184-1	60 Winter	30	+0%	30/15 Summer				142.037	0.142
30.002	SMH 27	15 Winter	30	+0%					141.659	-0.116
31.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				142.172	0.052
31.001	SIC 182-1	120 Summer	30	+0%	30/15 Summer				142.161	0.061
30.003	SMH 26	15 Winter	30	+0%					141.489	-0.101
30.004	SMH 25	15 Winter	30	+0%					141.383	-0.102
32.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				141.842	0.087
32.001	SIC 181-1	60 Winter	30	+0%	30/15 Summer				141.844	0.109
30.005	JUNCTION	15 Winter	30	+0%					141.313	-0.088
33.000	HD CP1	15 Winter	30	+0%					140.904	-0.056
30.006	SMH 24	15 Winter	30	+0%					140.722	-0.138
34.000	DIST TANK	30 Winter	30	+0%	30/15 Summer				141.231	0.046
34.001	SIC 190-1	30 Winter	30	+0%	30/15 Summer				141.234	0.069
30.007	JUNCTION	15 Winter	30	+0%					139.950	-0.040
35.000	DIST TANK	30 Winter	30	+0%	30/15 Summer				141.316	0.046
35.001	SIC 180-1	30 Winter	30	+0%	30/15 Summer				141.319	0.069
30.008	JUNCTION	15 Winter	30	+0%					139.814	-0.137
36.000	DIST TANK	30 Winter	30	+0%	30/15 Summer				141.180	0.035
36.001	SIC 191-1	30 Winter	30	+0%	30/15 Summer				141.183	0.058
30.009	JUNCTION	15 Winter	30	+0%					139.459	-0.062
37.000	DIST TANK	30 Winter	30	+0%	30/15 Summer				141.257	0.037
37.001	SIC 179-1	60 Winter	30	+0%	30/15 Summer				141.270	0.070
30.010	JUNCTION	15 Winter	30	+0%					139.311	-0.116
19.012	SMH 23	15 Winter	30	+0%	30/15 Summer				138.420	0.030
38.000	DIST TANK	120 Winter	30	+0%					139.930	-0.010
38.001	SIC 165-1	120 Winter	30	+0%	30/30 Winter				139.943	0.023
19.013	JUNCTION	15 Winter	30	+0%					138.236	0.000
1.012	SMH 8	15 Winter	30	+0%	30/15 Summer				136.408	0.117
1.013	SMH 7	15 Winter	30	+0%	30/15 Summer				136.369	0.130
1.014	SMH 6	15 Winter	30	+0%	30/15 Summer				136.320	0.150
39.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				137.895	0.085
39.001	SIC 146-1	120 Winter	30	+0%	30/15 Summer				137.906	0.116
1.015	JUNCTION	15 Winter	30	+0%					136.155	0.000
40.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				139.529	0.059
40.001	SIC 152-1	60 Winter	30	+0%	30/15 Summer				139.533	0.083
41.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				139.373	0.093
41.001	SIC 153-1	30 Winter	30	+0%	30/15 Summer				139.388	0.128
40.002	SMH 36	60 Winter	30	+0%					138.494	-0.131
42.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				139.018	0.093
42.001	SIC 154-1	30 Winter	30	+0%	30/15 Summer				139.033	0.128
40.003	JUNCTION	60 Winter	30	+0%					138.149	-0.128
43.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				138.528	0.093
43.001	SIC 155-1	30 Winter	30	+0%	30/15 Summer				138.543	0.128
40.004	JUNCTION	60 Winter	30	+0%					137.686	-0.123
40.005	SMH 35	15 Winter	30	+0%					137.484	-0.089
1.016	SMH 5	15 Winter	30	+0%	30/15 Summer				136.271	0.138
44.000	DIST TANK	120 Winter	30	+0%	30/15 Summer				137.556	0.066
44.001	SIC 148-1	120 Winter	30	+0%	30/15 Summer				137.560	0.090
1.017	JUNCTION	15 Winter	30	+0%					136.119	0.000
1.018	SMH 4	15 Winter	30	+0%	30/15 Summer				136.206	0.115
45.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				137.562	0.072
45.001	SIC 150-1	120 Winter	30	+0%	30/15 Summer				137.578	0.108
1.019	JUNCTION	15 Winter	30	+0%					136.082	0.000
1.020	SMH 3	15 Winter	30	+0%	30/15 Summer				136.144	0.088
46.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				137.382	0.072
46.001	SIC 111-1	120 Winter	30	+0%	30/15 Summer				137.398	0.108
1.021	JUNCTION	15 Winter	30	+0%					136.046	0.000
47.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				137.020	0.060
47.001	SIC 113-1	60 Winter	30	+0%	30/15 Summer				137.024	0.084
1.022	JUNCTION	15 Winter	30	+0%					136.009	0.000
48.000	SWMH 114-3	15 Winter	30	+0%					137.548	-0.077
48.001	SWMH 114-2	15 Summer	30	+0%					136.533	-0.132
49.000	DIST TANK	60 Winter	30	+0%	30/15 Summer				136.674	0.074
49.001	SIC 115-1	30 Winter	30	+0%	30/15 Summer				136.674	0.094

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 30 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
30.001	SIC 184-1	0.000	0.08		0.6	SURCHARGED	
30.002	SMH 27	0.000	0.11		2.1	OK	
31.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
31.001	SIC 182-1	0.000	0.03		0.5	SURCHARGED	
30.003	SMH 26	0.000	0.24		4.1	OK	
30.004	SMH 25	0.000	0.22		4.0	OK	
32.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
32.001	SIC 181-1	0.000	0.05		0.6	SURCHARGED	
30.005	JUNCTION	0.000	0.35		11.1	OK*	
33.000	HD CP1	0.000	0.72		11.4	OK	
30.006	SMH 24	0.000	0.32		29.6	OK	
34.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
34.001	SIC 190-1	0.000	0.02		0.5	SURCHARGED	
30.007	JUNCTION	0.000	0.99		29.7	OK*	
35.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
35.001	SIC 180-1	0.000	0.02		0.5	SURCHARGED	
30.008	JUNCTION	0.000	0.32		29.9	OK*	
36.000	DIST TANK	0.000	0.12		0.5	SURCHARGED	
36.001	SIC 191-1	0.000	0.02		0.5	SURCHARGED	
30.009	JUNCTION	0.000	0.85		36.9	OK*	
37.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
37.001	SIC 179-1	0.000	0.02		0.5	SURCHARGED	
30.010	JUNCTION	0.000	0.45		46.1	OK*	
19.012	SMH 23	0.000	1.00		93.2	SURCHARGED	
38.000	DIST TANK	0.000	0.11		0.4	OK	
38.001	SIC 165-1	0.000	0.01		0.4	SURCHARGED	
19.013	JUNCTION	0.000	1.07		118.4	SURCHARGED*	
1.012	SMH 8	0.000	0.98		245.9	SURCHARGED	
1.013	SMH 7	0.000	0.96		252.5	SURCHARGED	
1.014	SMH 6	0.000	1.29		247.7	SURCHARGED	
39.000	DIST TANK	0.000	0.14		0.6	SURCHARGED	
39.001	SIC 146-1	0.000	0.02		0.6	SURCHARGED	
1.015	JUNCTION	0.000	0.94		249.8	SURCHARGED*	
40.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
40.001	SIC 152-1	0.000	0.03		0.5	SURCHARGED	
41.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
41.001	SIC 153-1	0.000	0.03		0.6	SURCHARGED	
40.002	SMH 36	0.000	0.04		1.1	OK	
42.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
42.001	SIC 154-1	0.000	0.03		0.6	SURCHARGED	
40.003	JUNCTION	0.000	0.05		1.7	OK*	
43.000	DIST TANK	0.000	0.15		0.6	SURCHARGED	
43.001	SIC 155-1	0.000	0.03		0.6	SURCHARGED	
40.004	JUNCTION	0.000	0.07		2.3	OK*	
40.005	SMH 35	0.000	0.34		15.3	OK	
1.016	SMH 5	0.000	1.26		258.4	SURCHARGED	
44.000	DIST TANK	0.000	0.14		0.5	SURCHARGED	
44.001	SIC 148-1	0.000	0.02		0.5	SURCHARGED	
1.017	JUNCTION	0.000	1.02		265.9	SURCHARGED*	
1.018	SMH 4	0.000	1.21		268.4	SURCHARGED	
45.000	DIST TANK	0.000	0.14		0.5	SURCHARGED	
45.001	SIC 150-1	0.000	0.02		0.5	SURCHARGED	
1.019	JUNCTION	0.000	1.05		268.7	SURCHARGED*	
1.020	SMH 3	0.000	1.24		269.6	SURCHARGED	
46.000	DIST TANK	0.000	0.14		0.5	SURCHARGED	
46.001	SIC 111-1	0.000	0.02		0.5	SURCHARGED	
1.021	JUNCTION	0.000	0.97		267.5	SURCHARGED*	
47.000	DIST TANK	0.000	0.13		0.5	SURCHARGED	
47.001	SIC 113-1	0.000	0.03		0.5	SURCHARGED	
1.022	JUNCTION	0.000	0.94		270.3	SURCHARGED*	
48.000	SWMH 114-3	0.000	0.48		13.0	OK	
48.001	SWMH 114-2	0.000	0.36		25.7	OK	
49.000	DIST TANK	0.000	0.14		0.6	SURCHARGED	

