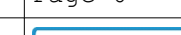


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FOUL SEWERAGE DESIGN

Pipe Sizes STANDARD Manhole Sizes STANDARD

Designed with Level Soffits

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	10.379	0.260	39.9	0.000	30	0.0	1.500	o	150	Pipe/Conduit	
1.001	30.647	0.204	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.002	20.760	0.420	49.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
2.000	17.002	0.128	133.2	0.000	30	0.0	1.500	o	150	Pipe/Conduit	
1.003	39.315	0.291	135.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.004	38.628	0.286	135.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
1.005	32.349	0.284	113.8	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.000	58.822	1.002	58.7	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
1.006	7.204	0.053	134.9	0.000	14	0.0	1.500	o	150	Pipe/Conduit	

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	99.530	0.000	0.0	30	0.0	24	0.74	1.39	24.6	1.4
1.001	99.270	0.000	0.0	30	0.0	34	0.47	0.71	12.6	1.4
1.002	99.066	0.000	0.0	30	0.0	26	0.69	1.25	22.1	1.4
2.000	98.773	0.000	0.0	30	0.0	33	0.49	0.76	13.4	1.4
1.003	98.645	0.000	0.0	60	0.0	47	0.59	0.75	13.3	2.8
1.004	98.354	0.000	0.0	63	0.0	48	0.60	0.75	13.3	2.9
1.005	98.063	0.000	0.0	64	0.0	46	0.64	0.82	14.5	3.0
3.000	98.780	0.000	0.0	8	0.0	14	0.43	1.14	20.2	0.4
1.006	97.779	0.000	0.0	86	0.0	56	0.66	0.75	13.3	4.0

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.007	24.939	0.185	135.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.008	13.162	0.098	135.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.009	35.081	0.323	108.6	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
1.010	42.959	1.260	34.1	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
1.011	54.179	0.610	88.8	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.012	26.910	0.580	46.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.013	27.638	0.210	131.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.014	59.085	0.940	62.9	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
4.000	49.843	1.140	43.7	0.000	51	0.0	1.500	o	150	Pipe/Conduit	
4.001	49.001	0.327	149.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
4.002	54.288	0.362	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
5.000	33.082	0.805	41.1	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
4.003	36.516	1.821	20.1	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
6.000	30.370	0.390	77.9	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
4.004	42.550	0.283	150.4	0.000	14	0.0	1.500	o	150	Pipe/Conduit	
7.000	32.536	1.383	23.5	0.000	14	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.007	97.725	0.000	0.0	86	0.0	56	0.66	0.75	13.3	4.0
1.008	97.540	0.000	0.0	86	0.0	56	0.66	0.75	13.3	4.0
1.009	97.443	0.000	0.0	96	0.0	56	0.73	0.84	14.8	4.4
1.010	97.120	0.000	0.0	101	0.0	43	1.13	1.50	26.6	4.7
1.011	95.860	0.000	0.0	105	0.0	56	0.81	0.93	16.4	4.9
1.012	95.250	0.000	0.0	105	0.0	47	1.02	1.29	22.8	4.9
1.013	94.670	0.000	0.0	105	0.0	62	0.70	0.76	13.5	4.9
1.014	94.460	0.000	0.0	114	0.0	53	0.94	1.11	19.5	5.3
4.000	99.050	0.000	0.0	51	0.0	32	0.84	1.33	23.5	2.4
4.001	97.910	0.000	0.0	51	0.0	44	0.54	0.71	12.6	2.4
4.002	97.583	0.000	0.0	51	0.0	44	0.55	0.71	12.6	2.4
5.000	98.026	0.000	0.0	10	0.0	15	0.52	1.37	24.2	0.5
4.003	97.221	0.000	0.0	68	0.0	31	1.21	1.96	34.7	3.1
6.000	95.790	0.000	0.0	9	0.0	16	0.40	0.99	17.6	0.4
4.004	95.400	0.000	0.0	91	0.0	60	0.64	0.71	12.6	4.2
7.000	96.500	0.000	0.0	14	0.0	15	0.70	1.81	32.0	0.6

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PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
4.005	19.963	0.133	150.1	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
8.000	46.599	0.906	51.4	0.000	27	0.0	1.500	o	150	Pipe/Conduit	
4.006	52.505	0.344	152.6	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
4.007	39.114	0.260	150.4	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
4.008	42.023	0.288	145.9	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
9.000	56.559	1.872	30.2	0.000	10	0.0	1.500	o	100	Pipe/Conduit	
9.001	37.248	0.846	44.0	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
4.009	25.169	0.168	149.8	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
10.000	48.589	0.879	55.3	0.000	27	0.0	1.500	o	150	Pipe/Conduit	
4.010	30.076	0.276	109.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
11.000	92.160	2.650	34.8	0.000	15	0.0	1.500	o	150	Pipe/Conduit	
12.000	10.278	0.076	135.1	0.000	30	0.0	1.500	o	150	Pipe/Conduit	
Network Results Table											
PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
4.005	95.117	0.000	0.0	111	0.0	67	0.68	0.71	12.6	5.1	
8.000	95.890	0.000	0.0	27	0.0	25	0.66	1.22	21.6	1.2	
4.006	94.984	0.000	0.0	142	0.0	77	0.72	0.71	12.5	6.6	
4.007	94.640	0.000	0.0	154	0.0	81	0.73	0.71	12.6	7.1	
4.008	94.380	0.000	0.0	164	0.0	83	0.75	0.72	12.8	7.6	
9.000	96.860	0.000	0.0	10	0.0	15	0.61	1.21	9.5	0.5	
9.001	94.938	0.000	0.0	21	0.0	21	0.64	1.32	23.4	1.0	
4.009	94.092	0.000	0.0	190	0.0	92	0.77	0.71	12.6	8.8	
10.000	94.803	0.000	0.0	27	0.0	25	0.64	1.18	20.8	1.2	
4.010	93.924	0.000	0.0	222	0.0	92	0.91	0.84	14.8	10.3	
11.000	101.320	0.000	0.0	15	0.0	17	0.63	1.49	26.3	0.7	
12.000	98.746	0.000	0.0	30	0.0	33	0.48	0.75	13.3	1.4	
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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
11.001	9.386	0.740	12.7	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
11.002	9.652	0.945	10.2	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
11.003	81.794	0.750	109.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
11.004	34.464	0.385	89.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
11.005	24.180	0.270	89.6	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
11.006	18.042	0.120	150.3	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
13.000	24.361	0.229	106.4	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
11.007	19.184	0.285	67.3	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
11.008	12.342	0.225	54.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
11.009	45.022	1.227	36.7	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
4.011	18.727	0.128	146.3	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
1.015	26.346	0.185	142.4	0.000	3	0.0	1.500	o	225	Pipe/Conduit	
1.016	28.697	0.160	179.4	0.000	2	0.0	1.500	o	225	Pipe/Conduit	
14.000	12.593	0.625	20.1	0.000	14	0.0	1.500	o	150	Pipe/Conduit	
1.017	48.867	0.298	164.0	0.000	15	0.0	1.500	o	225	Pipe/Conduit	
1.018	18.353	0.181	101.4	0.000	9	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
11.001	98.670	0.000	0.0	54	0.0	25	1.32	2.47	43.6	2.5
11.002	97.930	0.000	0.0	59	0.0	24	1.46	2.75	48.6	2.7
11.003	96.985	0.000	0.0	59	0.0	44	0.64	0.84	14.8	2.7
11.004	96.235	0.000	0.0	59	0.0	42	0.68	0.93	16.4	2.7
11.005	95.850	0.000	0.0	67	0.0	44	0.71	0.93	16.4	3.1
11.006	95.505	0.000	0.0	69	0.0	52	0.59	0.71	12.6	3.2
13.000	95.614	0.000	0.0	7	0.0	16	0.33	0.85	15.0	0.3
11.007	95.385	0.000	0.0	87	0.0	47	0.85	1.07	18.9	4.0
11.008	95.100	0.000	0.0	87	0.0	45	0.91	1.18	20.9	4.0
11.009	94.875	0.000	0.0	94	0.0	42	1.08	1.45	25.6	4.3
4.011	93.573	0.000	0.0	316	0.0	97	0.89	0.95	37.7	14.6
1.015	93.445	0.000	0.0	433	0.0	116	0.97	0.96	38.2	20.0
1.016	93.260	0.000	0.0	435	0.0	124	0.89	0.86	34.0	20.1
14.000	93.800	0.000	0.0	14	0.0	15	0.74	1.96	34.6	0.6
1.017	93.100	0.000	0.0	464	0.0	126	0.94	0.90	35.6	21.5
1.018	92.802	0.000	0.0	473	0.0	110	1.13	1.14	45.3	21.9

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
15.000	14.555	0.108	134.9	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
15.001	21.291	0.192	110.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
15.002	34.285	0.254	135.0	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
15.003	32.351	0.240	135.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
15.004	28.124	0.208	135.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
15.005	25.051	1.152	21.7	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
1.019	41.073	0.274	149.9	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
1.020	82.688	0.569	145.3	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
16.000	39.774	1.199	33.2	0.000	15	0.0	1.500	o	150	Pipe/Conduit	
17.000	22.172	0.164	135.0	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
16.001	13.221	0.098	135.0	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
16.002	30.853	0.229	135.0	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
16.003	55.943	0.414	135.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
16.004	12.406	0.270	45.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
18.000	49.769	0.675	73.7	0.000	26	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
15.000	94.850	0.000	0.0	12	0.0	21	0.37	0.75	13.3	0.6
15.001	94.742	0.000	0.0	12	0.0	20	0.39	0.83	14.7	0.6
15.002	94.550	0.000	0.0	23	0.0	29	0.45	0.75	13.3	1.1
15.003	94.296	0.000	0.0	29	0.0	32	0.48	0.75	13.3	1.3
15.004	94.056	0.000	0.0	33	0.0	34	0.50	0.75	13.3	1.5
15.005	93.848	0.000	0.0	39	0.0	24	0.99	1.88	33.3	1.8
1.019	92.621	0.000	0.0	512	0.0	130	0.99	0.94	37.2	23.7
1.020	92.347	0.000	0.0	512	0.0	129	1.00	0.95	37.8	23.7
16.000	96.810	0.000	0.0	15	0.0	17	0.64	1.52	26.9	0.7
17.000	95.775	0.000	0.0	8	0.0	17	0.32	0.75	13.3	0.4
16.001	95.611	0.000	0.0	31	0.0	33	0.49	0.75	13.3	1.4
16.002	95.513	0.000	0.0	39	0.0	37	0.52	0.75	13.3	1.8
16.003	95.284	0.000	0.0	45	0.0	40	0.55	0.75	13.3	2.1
16.004	94.870	0.000	0.0	45	0.0	31	0.80	1.29	22.9	2.1
18.000	95.750	0.000	0.0	26	0.0	26	0.57	1.02	18.0	1.2

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
19.000	23.036	0.171	135.0	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
19.001	21.010	0.156	135.0	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
18.001	29.065	0.215	135.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
18.002	13.504	0.260	52.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
16.005	12.767	0.095	135.0	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
16.006	51.897	0.260	199.3	0.000	4	0.0	1.500	o	225	Pipe/Conduit	
16.007	42.754	0.460	92.9	0.000	8	0.0	1.500	o	225	Pipe/Conduit	
20.000	30.095	0.324	93.0	0.000	13	0.0	1.500	o	150	Pipe/Conduit	
20.001	40.413	0.299	135.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
20.002	10.801	0.315	34.3	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
16.008	31.757	0.108	294.0	0.000	3	0.0	1.500	o	225	Pipe/Conduit	
16.009	27.797	1.824	15.2	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
1.021	20.214	0.611	33.1	0.000	3	0.0	1.500	o	225	Pipe/Conduit	
21.000	60.329	1.020	59.1	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
21.001	15.968	0.190	84.0	0.000	15	0.0	1.500	o	150	Pipe/Conduit	
21.002	47.402	1.770	26.8	0.000	7	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.000	95.401	0.000	0.0	12	0.0	21	0.37	0.75	13.3	0.6
19.001	95.231	0.000	0.0	19	0.0	26	0.42	0.75	13.3	0.9
18.001	95.075	0.000	0.0	45	0.0	40	0.55	0.75	13.3	2.1
18.002	94.860	0.000	0.0	45	0.0	32	0.76	1.22	21.5	2.1
16.005	94.600	0.000	0.0	99	0.0	61	0.68	0.75	13.3	4.6
16.006	94.430	0.000	0.0	103	0.0	58	0.58	0.81	32.3	4.8
16.007	94.170	0.000	0.0	111	0.0	50	0.78	1.19	47.3	5.1
20.000	94.723	0.000	0.0	13	0.0	20	0.43	0.91	16.1	0.6
20.001	94.399	0.000	0.0	17	0.0	25	0.41	0.75	13.3	0.8
20.002	94.100	0.000	0.0	25	0.0	22	0.74	1.50	26.5	1.2
16.008	93.710	0.000	0.0	139	0.0	76	0.55	0.67	26.5	6.4
16.009	93.602	0.000	0.0	139	0.0	36	1.57	2.95	117.2	6.4
1.021	91.778	0.000	0.0	654	0.0	96	1.86	2.00	79.5	30.2
21.000	98.110	0.000	0.0	3	0.0	9	0.31	1.14	20.2	0.1
21.001	97.090	0.000	0.0	18	0.0	23	0.49	0.96	16.9	0.8
21.002	96.900	0.000	0.0	25	0.0	20	0.80	1.70	30.0	1.2

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
21.003	18.594	0.630	29.5	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
21.004	73.884	0.790	93.5	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
21.005	24.079	0.400	60.2	0.000	16	0.0	1.500	o	150	Pipe/Conduit	
22.000	28.290	1.830	15.5	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
22.001	55.965	1.150	48.7	0.000	14	0.0	1.500	o	150	Pipe/Conduit	
21.006	47.519	0.390	121.8	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
21.007	102.671	0.930	110.4	0.000	13	0.0	1.500	o	150	Pipe/Conduit	
23.000	51.498	0.108	476.8	0.000	11	0.0	1.500	o	225	Pipe/Conduit	
24.000	18.804	0.595	31.6	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
23.001	41.416	0.140	295.8	0.000	11	0.0	1.500	o	225	Pipe/Conduit	
23.002	41.579	0.130	319.8	0.000	11	0.0	1.500	o	225	Pipe/Conduit	
23.003	19.741	0.150	131.6	0.000	11	0.0	1.500	o	225	Pipe/Conduit	
25.000	24.621	0.910	27.1	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
25.001	23.267	0.635	36.6	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
23.004	53.666	0.236	227.8	0.000	11	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
21.003	95.130	0.000	0.0	30	0.0	23	0.82	1.62	28.6	1.4
21.004	94.500	0.000	0.0	37	0.0	33	0.59	0.91	16.0	1.7
21.005	93.710	0.000	0.0	53	0.0	36	0.76	1.13	20.0	2.5
22.000	96.290	0.000	0.0	10	0.0	12	0.73	2.24	39.5	0.5
22.001	94.460	0.000	0.0	24	0.0	23	0.65	1.26	22.2	1.1
21.006	93.310	0.000	0.0	82	0.0	53	0.67	0.79	14.0	3.8
21.007	92.920	0.000	0.0	95	0.0	56	0.73	0.83	14.7	4.4
23.000	92.918	0.000	0.0	11	0.0	25	0.22	0.52	20.8	0.5
24.000	93.480	0.000	0.0	11	0.0	14	0.59	1.56	27.6	0.5
23.001	92.810	0.000	0.0	33	0.0	37	0.36	0.67	26.4	1.5
23.002	92.670	0.000	0.0	44	0.0	43	0.38	0.64	25.4	2.0
23.003	92.540	0.000	0.0	55	0.0	39	0.56	1.00	39.8	2.5
25.000	94.010	0.000	0.0	11	0.0	14	0.62	1.69	29.8	0.5
25.001	93.100	0.000	0.0	22	0.0	21	0.69	1.45	25.6	1.0
23.004	92.390	0.000	0.0	88	0.0	56	0.53	0.76	30.2	4.1

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
23.005	34.808	0.118	294.0	0.000	13	0.0	1.500	o	225	Pipe/Conduit	
26.000	30.436	0.064	473.2	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
26.001	34.907	1.027	34.0	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
23.006	19.840	0.121	164.0	0.000	11	0.0	1.500	o	225	Pipe/Conduit	
21.008	44.299	0.193	229.5	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
21.009	35.514	0.157	226.2	0.000	7	0.0	1.500	o	225	Pipe/Conduit	
21.010	27.159	0.121	224.5	0.000	4	0.0	1.500	o	225	Pipe/Conduit	
27.000	49.305	0.365	135.0	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
27.001	18.966	1.641	11.6	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
21.011	15.979	0.108	148.0	0.000	3	0.0	1.500	o	225	Pipe/Conduit	
28.000	27.571	1.462	18.9	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
21.012	20.701	0.050	417.0	0.000	12	0.0	1.500	o	300	Pipe/Conduit	
21.013	35.259	0.119	295.3	0.000	3	0.0	1.500	o	300	Pipe/Conduit	
1.022	41.368	0.124	333.6	0.000	0	0.0	1.500	o	300	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
23.005	92.154	0.000	0.0	101	0.0	64	0.50	0.67	26.5	4.7
26.000	93.202	0.000	0.0	11	0.0	27	0.23	0.40	7.1	0.5
26.001	93.138	0.000	0.0	22	0.0	20	0.71	1.51	26.6	1.0
23.006	92.036	0.000	0.0	134	0.0	64	0.67	0.90	35.6	6.2
21.008	91.915	0.000	0.0	229	0.0	92	0.69	0.76	30.1	10.6
21.009	91.722	0.000	0.0	236	0.0	93	0.70	0.76	30.3	10.9
21.010	91.565	0.000	0.0	240	0.0	94	0.70	0.76	30.4	11.1
27.000	93.525	0.000	0.0	12	0.0	21	0.37	0.75	13.3	0.6
27.001	93.160	0.000	0.0	20	0.0	15	1.00	2.59	45.7	0.9
21.011	91.444	0.000	0.0	263	0.0	88	0.84	0.94	37.5	12.2
28.000	92.873	0.000	0.0	7	0.0	10	0.60	2.02	35.8	0.3
21.012	91.261	0.000	0.0	282	0.0	107	0.58	0.68	47.8	13.0
21.013	91.211	0.000	0.0	285	0.0	98	0.66	0.80	56.9	13.2
1.022	91.092	0.000	0.0	939	0.0	205	0.84	0.76	53.5	43.4

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.023	60.927	0.179	340.4	0.000	10	0.0	1.500	o	300	Pipe/Conduit	
29.000	19.793	0.147	135.0	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
29.001	23.194	0.172	135.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
29.002	26.681	0.198	135.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
29.003	28.130	0.208	135.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
29.004	30.162	0.223	135.0	0.000	16	0.0	1.500	o	150	Pipe/Conduit	
29.005	11.551	0.086	135.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
30.000	22.011	0.989	22.3	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
29.006	20.675	0.153	135.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
29.007	15.381	0.114	135.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
29.008	37.021	0.274	135.0	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
29.009	32.200	3.151	10.2	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
31.000	34.444	0.854	40.3	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
31.001	13.466	1.347	10.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.024	27.709	0.083	333.8	0.000	4	0.0	1.500	o	300	Pipe/Conduit	
1.025	17.848	0.056	318.7	0.000	8	0.0	1.500	o	300	Pipe/Conduit	
1.026	23.840	0.075	317.9	0.000	0	0.0	1.500	o	300	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.023	90.968	0.000	0.0	949	0.0	209	0.84	0.75	53.0	43.9
29.000	95.664	0.000	0.0	9	0.0	18	0.33	0.75	13.3	0.4
29.001	95.518	0.000	0.0	15	0.0	24	0.39	0.75	13.3	0.7
29.002	95.346	0.000	0.0	19	0.0	26	0.42	0.75	13.3	0.9
29.003	95.148	0.000	0.0	21	0.0	28	0.43	0.75	13.3	1.0
29.004	94.940	0.000	0.0	37	0.0	36	0.51	0.75	13.3	1.7
29.005	94.716	0.000	0.0	43	0.0	39	0.54	0.75	13.3	2.0
30.000	95.620	0.000	0.0	4	0.0	8	0.47	1.86	32.9	0.2
29.006	94.631	0.000	0.0	47	0.0	41	0.55	0.75	13.3	2.2
29.007	94.478	0.000	0.0	49	0.0	42	0.56	0.75	13.3	2.3
29.008	94.364	0.000	0.0	59	0.0	46	0.59	0.75	13.3	2.7
29.009	94.090	0.000	0.0	70	0.0	26	1.54	2.75	48.6	3.2
31.000	93.140	0.000	0.0	9	0.0	14	0.50	1.38	24.4	0.4
31.001	92.286	0.000	0.0	13	0.0	12	0.92	2.78	49.1	0.6
1.024	90.789	0.000	0.0	1036	0.0	222	0.85	0.76	53.5	47.9
1.025	90.706	0.000	0.0	1044	0.0	219	0.87	0.77	54.8	48.3
1.026	90.650	0.000	0.0	1044	0.0	219	0.87	0.78	54.8	48.3

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Network Design Table for Foul Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.027	10.759	0.040	269.0	0.000	0	0.0	1.500	o	300	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.027	90.575	0.000	0.0	1044	0.0	205	0.94	0.84	59.6 48.3

Free Flowing Outfall Details for Foul Network 1

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.027	Pumpstation	96.481	90.535	0.000	1200	0

Simulation Criteria for Foul Network 1

Volumetric Runoff Coeff	0.000	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	0.000	MADD Factor * 10m³/ha	Storage 0.000
Hot Start (mins)	0	Inlet Coefficient	0.000
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.000	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

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