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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD WARMINSTER FWS NETWORK 1	
Date 17/02/2026	Designed by EPH	
File FWS NETWORK 1 - 130226.MDX	Checked by	
Innovyze	Network 2019.1	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	222.00	Maximum Backdrop Height (m)	1.500
Persons per House	3.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.75
Domestic Peak Flow Factor	6.00	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

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	31.454	0.395	79.6	0.000	5	0.0	1.500	o	100	Pipe/Conduit	
1.001	29.833	0.373	80.0	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
1.002	36.055	0.451	79.9	0.000	3	0.0	1.500	o	100	Pipe/Conduit	
1.003	7.487	0.050	149.7	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
2.000	37.392	1.550	24.1	0.000	4	0.0	1.500	o	100	Pipe/Conduit	
2.001	15.919	0.450	35.4	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
2.002	10.841	0.385	28.2	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
2.003	12.718	2.229	5.7	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
1.004	45.371	0.304	149.5	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
3.000	34.043	0.516	66.0	0.000	5	0.0	1.500	o	100	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	E Area (ha)	E Base Flow (l/s)	E Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	136.655	0.000	0.0	5	0.0	14	0.35	0.75	5.9	0.2
1.001	136.260	0.000	0.0	7	0.0	16	0.39	0.74	5.8	0.3
1.002	135.887	0.000	0.0	10	0.0	19	0.44	0.74	5.8	0.5
1.003	135.386	0.000	0.0	12	0.0	22	0.35	0.71	12.6	0.6
2.000	140.000	0.000	0.0	4	0.0	9	0.49	1.36	10.7	0.2
2.001	138.450	0.000	0.0	5	0.0	11	0.46	1.12	8.8	0.2
2.002	138.000	0.000	0.0	6	0.0	12	0.53	1.26	9.9	0.3
2.003	137.615	0.000	0.0	7	0.0	9	0.96	2.80	22.0	0.3
1.004	135.336	0.000	0.0	21	0.0	28	0.42	0.72	12.6	1.0
3.000	137.500	0.000	0.0	5	0.0	13	0.37	0.82	6.4	0.2

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Network Design Table for Foul - Main

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
4.000	5.936	0.376	15.8	0.000	7	0.0	1.500	o	100	Pipe/Conduit	
3.001	4.486	0.427	10.5	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
3.002	44.380	1.067	41.6	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
3.003	16.991	0.407	41.7	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
1.005	10.871	0.072	151.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.006	27.977	0.187	150.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
5.000	15.934	0.200	79.7	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
5.001	30.099	0.377	79.8	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
5.002	14.022	0.175	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
6.000	14.030	0.176	79.7	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
6.001	19.494	2.246	8.7	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
5.003	16.782	0.210	79.9	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
5.004	24.749	0.165	150.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
7.000	11.025	0.138	80.0	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
7.001	8.057	0.101	80.0	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
7.002	20.392	0.742	27.5	0.000	1	0.0	1.500	o	100	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)
4.000	137.360	0.000	0.0	7	0.0	11	0.68	1.68	0.3
3.001	136.984	0.000	0.0	12	0.0	13	0.93	2.06	0.6
3.002	136.507	0.000	0.0	18	0.0	19	0.62	1.36	0.8
3.003	135.440	0.000	0.0	26	0.0	23	0.70	1.36	1.2
1.005	135.032	0.000	0.0	47	0.0	42	0.53	0.71	2.2
1.006	134.960	0.000	0.0	52	0.0	44	0.55	0.71	2.4
5.000	139.000	0.000	0.0	2	0.0	9	0.26	0.75	0.1
5.001	138.800	0.000	0.0	4	0.0	13	0.33	0.74	0.2
5.002	138.423	0.000	0.0	4	0.0	13	0.33	0.74	0.2
6.000	140.670	0.000	0.0	2	0.0	9	0.26	0.75	0.1
6.001	140.494	0.000	0.0	2	0.0	5	0.55	2.27	0.1
5.003	138.248	0.000	0.0	8	0.0	17	0.41	0.74	0.4
5.004	137.988	0.000	0.0	12	0.0	22	0.35	0.71	0.6
7.000	141.261	0.000	0.0	2	0.0	9	0.26	0.74	0.1
7.001	141.123	0.000	0.0	3	0.0	11	0.30	0.74	0.1
7.002	141.022	0.000	0.0	4	0.0	10	0.47	1.27	0.2

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Network Design Table for Foul - Main

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
7.003	62.130	2.407	25.8	0.000	5	0.0	1.500	o	100	Pipe/Conduit	
5.005	32.546	0.383	85.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
5.006	8.528	2.666	3.2	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.007	24.175	0.162	149.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.008	18.091	0.121	149.5	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
1.009	12.971	0.087	149.1	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
1.010	14.625	0.098	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
8.000	31.123	1.030	30.2	0.000	4	0.0	1.500	o	100	Pipe/Conduit	
8.001	21.863	2.764	7.9	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
1.011	20.230	0.136	148.8	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.012	15.979	0.107	150.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.013	42.112	0.281	149.9	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
1.014	23.517	0.157	149.8	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.015	31.211	0.209	149.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
9.000	16.205	0.240	67.5	0.000	3	0.0	1.500	o	100	Pipe/Conduit	
9.001	12.345	0.709	17.4	0.000	3	0.0	1.500	o	100	Pipe/Conduit	
9.002	26.989	0.338	79.8	0.000	0	0.0	1.500	o	100	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)
7.003	140.280	0.000	0.0	9	0.0	14	0.62	1.31	10.3	0.4
5.005	137.823	0.000	0.0	25	0.0	27	0.54	0.95	16.8	1.2
5.006	137.440	0.000	0.0	29	0.0	13	1.75	4.92	87.0	1.3
1.007	134.774	0.000	0.0	81	0.0	56	0.62	0.72	12.7	3.7
1.008	134.612	0.000	0.0	84	0.0	57	0.63	0.72	12.6	3.9
1.009	134.491	0.000	0.0	92	0.0	60	0.65	0.72	12.7	4.3
1.010	134.404	0.000	0.0	92	0.0	60	0.64	0.71	12.6	4.3
8.000	138.150	0.000	0.0	4	0.0	10	0.46	1.21	9.5	0.2
8.001	137.120	0.000	0.0	5	0.0	8	0.77	2.38	18.7	0.2
1.011	134.306	0.000	0.0	99	0.0	62	0.66	0.72	12.7	4.6
1.012	134.170	0.000	0.0	101	0.0	63	0.66	0.71	12.6	4.7
1.013	134.063	0.000	0.0	107	0.0	65	0.67	0.71	12.6	4.9
1.014	133.782	0.000	0.0	109	0.0	66	0.67	0.71	12.6	5.0
1.015	133.625	0.000	0.0	109	0.0	66	0.68	0.72	12.6	5.0
9.000	136.815	0.000	0.0	3	0.0	10	0.31	0.81	6.4	0.1
9.001	136.575	0.000	0.0	6	0.0	11	0.63	1.60	12.6	0.3
9.002	135.865	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3

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Network Design Table for Foul - Main

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
9.003	15.769	0.197	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
9.004	37.401	0.250	149.6	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
9.005	13.500	0.090	150.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
9.006	30.697	0.205	150.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
9.007	33.100	0.705	47.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
9.008	10.393	0.614	16.9	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
1.016	14.081	0.094	149.8	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.017	18.006	0.632	28.5	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
10.000	10.000	1.465	6.8	0.000	0	4.1	1.500	o	150	Pipe/Conduit	
1.018	5.000	0.033	151.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.019	58.727	0.392	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.020	10.598	0.071	150.0	0.000	0	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)
9.003	135.527	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
9.004	135.280	0.000	0.0	11	0.0	21	0.34	0.72	12.6	0.5
9.005	135.030	0.000	0.0	16	0.0	25	0.38	0.71	12.6	0.7
9.006	134.940	0.000	0.0	21	0.0	28	0.42	0.71	12.6	1.0
9.007	134.735	0.000	0.0	24	0.0	23	0.65	1.28	22.6	1.1
9.008	134.030	0.000	0.0	29	0.0	20	0.99	2.14	37.8	1.3
1.016	133.416	0.000	0.0	140	0.0	76	0.72	0.71	12.6	6.5
1.017	133.322	0.000	0.0	141	0.0	48	1.32	1.65	29.1	6.5
10.000	134.155	0.000	4.1	0	0.0	27	1.91	3.37	59.5	4.1
1.018	132.690	0.000	4.1	141	0.0	106	0.80	0.71	12.6	10.6
1.019	132.657	0.000	4.1	141	0.0	105	0.80	0.71	12.6	10.6
1.020	132.190	0.000	4.1	141	0.0	82	0.81	0.94	37.2	10.6

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Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
1	138.175	1.520	Open Manhole	1200	1.000	136.655	100				
2	138.975	2.715	Open Manhole	1200	1.001	136.260	100	1.000	136.260	100	
3	138.770	2.883	Open Manhole	1200	1.002	135.887	100	1.001	135.887	100	
4	139.195	3.809	Open Manhole	1200	1.003	135.386	150	1.002	135.436	100	
5	141.650	1.650	Open Manhole	1200	2.000	140.000	100				
6	140.075	1.625	Open Manhole	1200	2.001	138.450	100	2.000	138.450	100	
7	139.660	1.660	Open Manhole	1200	2.002	138.000	100	2.001	138.000	100	
8	139.535	1.920	Open Manhole	1200	2.003	137.615	100	2.002	137.615	100	
5	139.295	3.959	Open Manhole	1200	1.004	135.336	150	1.003	135.336	150	
								2.003	135.386	100	
10	139.355	1.855	Open Manhole	1200	3.000	137.500	100				
11	139.590	2.230	Open Manhole	1200	4.000	137.360	100				
11	139.630	2.646	Open Manhole	1200	3.001	136.984	100	3.000	136.984	100	
								4.000	136.984	100	
13	139.395	2.888	Open Manhole	1200	3.002	136.507	150	3.001	136.557	100	
14	139.050	3.610	Open Manhole	1200	3.003	135.440	150	3.002	135.440	150	
15	138.857	3.825	Open Manhole	1200	1.005	135.032	150	1.004	135.032	150	
								3.003	135.033	150	
10	139.075	4.115	Open Manhole	1200	1.006	134.960	150	1.005	134.960	150	
17	140.750	1.750	Open Manhole	1200	5.000	139.000	100				
18	141.190	2.390	Open Manhole	1200	5.001	138.800	100	5.000	138.800	100	
19	142.675	4.252	Open Manhole	1200	5.002	138.423	100	5.001	138.423	100	
20	142.725	2.055	Open Manhole	1200	6.000	140.670	100				
21	142.905	2.411	Open Manhole	1200	6.001	140.494	100	6.000	140.494	100	
20	143.100	4.852	Open Manhole	1200	5.003	138.248	100	5.002	138.248	100	
								6.001	138.248	100	
21	142.625	4.637	Open Manhole	1200	5.004	137.988	150	5.003	138.038	100	
24	142.945	1.684	Open Manhole	1200	7.000	141.261	100				
25	142.815	1.692	Open Manhole	1200	7.001	141.123	100	7.000	141.123	100	
26	142.720	1.698	Open Manhole	1200	7.002	141.022	100	7.001	141.022	100	
27	142.355	2.075	Open Manhole	1200	7.003	140.280	100	7.002	140.280	100	
22	141.310	3.487	Open Manhole	1200	5.005	137.823	150	5.004	137.823	150	
								7.003	137.873	100	
23	140.200	2.760	Open Manhole	1200	5.006	137.440	150	5.005	137.440	150	
17	139.940	5.166	Open Manhole	1200	1.007	134.774	150	1.006	134.774	150	
								5.006	134.774	150	
31	139.390	4.778	Open Manhole	1200	1.008	134.612	150	1.007	134.612	150	
32	138.900	4.409	Open Manhole	1200	1.009	134.491	150	1.008	134.491	150	

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Manhole Schedules for Foul - Main

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)
33	138.600	4.196	Open Manhole	1200	1.010	134.404	150	1.009	134.404	150	
34	139.830	1.680	Open Manhole	1200	8.000	138.150	100				
35	138.800	1.680	Open Manhole	1200	8.001	137.120	100	8.000	137.120	100	
34	138.225	3.919	Open Manhole	1200	1.011	134.306	150	1.010	134.306	150	
								8.001	134.356	100	
37	138.060	3.890	Open Manhole	1200	1.012	134.170	150	1.011	134.170	150	
38	138.075	4.012	Open Manhole	1200	1.013	134.063	150	1.012	134.063	150	
39	137.200	3.418	Open Manhole	1200	1.014	133.782	150	1.013	133.782	150	
40	136.765	3.140	Open Manhole	1200	1.015	133.625	150	1.014	133.625	150	
41	138.745	1.930	Open Manhole	1200	9.000	136.815	100				
42	139.250	2.675	Open Manhole	1200	9.001	136.575	100	9.000	136.575	100	
43	139.175	3.310	Open Manhole	1200	9.002	135.865	100	9.001	135.865	100	
44	139.550	4.023	Open Manhole	1200	9.003	135.527	100	9.002	135.527	100	
45	139.330	4.050	Open Manhole	1200	9.004	135.280	150	9.003	135.330	100	
46	138.860	3.830	Open Manhole	1200	9.005	135.030	150	9.004	135.030	150	
47	138.675	3.735	Open Manhole	1200	9.006	134.940	150	9.005	134.940	150	
48	137.800	3.065	Open Manhole	1200	9.007	134.735	150	9.006	134.735	150	
49	136.735	2.705	Open Manhole	1200	9.008	134.030	150	9.007	134.030	150	
41	136.425	3.009	Open Manhole	1200	1.016	133.416	150	1.015	133.416	150	
								9.008	133.416	150	
51	136.065	2.743	Open Manhole	1200	1.017	133.322	150	1.016	133.322	150	
75	135.805	1.650	Open Manhole	1200	10.000	134.155	150				
52	136.775	4.085	Open Manhole	1200	1.018	132.690	150	1.017	132.690	150	
								10.000	132.690	150	
53	135.850	3.193	Open Manhole	1200	1.019	132.657	150	1.018	132.657	150	
54	136.050	3.860	Open Manhole	1200	1.020	132.190	225	1.019	132.265	150	
	0.000		Open Manhole	0		OUTFALL		1.020	132.120	225	

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

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PIPELINE SCHEDULES for Foul - Main

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)
1.000	o	100	1	138.175	136.655	1.420	Open Manhole	1200
1.001	o	100	2	138.975	136.260	2.615	Open Manhole	1200
1.002	o	100	3	138.770	135.887	2.783	Open Manhole	1200
1.003	o	150	4	139.195	135.386	3.659	Open Manhole	1200
2.000	o	100	5	141.650	140.000	1.550	Open Manhole	1200
2.001	o	100	6	140.075	138.450	1.525	Open Manhole	1200
2.002	o	100	7	139.660	138.000	1.560	Open Manhole	1200
2.003	o	100	8	139.535	137.615	1.820	Open Manhole	1200
1.004	o	150	5	139.295	135.336	3.809	Open Manhole	1200
3.000	o	100	10	139.355	137.500	1.755	Open Manhole	1200
4.000	o	100	11	139.590	137.360	2.130	Open Manhole	1200
3.001	o	100	11	139.630	136.984	2.546	Open Manhole	1200
3.002	o	150	13	139.395	136.507	2.738	Open Manhole	1200
3.003	o	150	14	139.050	135.440	3.460	Open Manhole	1200
1.005	o	150	15	138.857	135.032	3.675	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)
1.000	31.454	79.6	2	138.975	136.260	2.615	Open Manhole	1200
1.001	29.833	80.0	3	138.770	135.887	2.783	Open Manhole	1200
1.002	36.055	79.9	4	139.195	135.436	3.659	Open Manhole	1200
1.003	7.487	149.7	5	139.295	135.336	3.809	Open Manhole	1200
2.000	37.392	24.1	6	140.075	138.450	1.525	Open Manhole	1200
2.001	15.919	35.4	7	139.660	138.000	1.560	Open Manhole	1200
2.002	10.841	28.2	8	139.535	137.615	1.820	Open Manhole	1200
2.003	12.718	5.7	5	139.295	135.386	3.809	Open Manhole	1200
1.004	45.371	149.5	15	138.857	135.032	3.675	Open Manhole	1200
3.000	34.043	66.0	11	139.630	136.984	2.546	Open Manhole	1200
4.000	5.936	15.8	11	139.630	136.984	2.546	Open Manhole	1200
3.001	4.486	10.5	13	139.395	136.557	2.738	Open Manhole	1200
3.002	44.380	41.6	14	139.050	135.440	3.460	Open Manhole	1200
3.003	16.991	41.7	15	138.857	135.033	3.674	Open Manhole	1200
1.005	10.871	151.0	10	139.075	134.960	3.965	Open Manhole	1200

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PIPELINE SCHEDULES for Foul - Main

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)
1.006	o	150	10	139.075	134.960	3.965	Open Manhole	1200
5.000	o	100	17	140.750	139.000	1.650	Open Manhole	1200
5.001	o	100	18	141.190	138.800	2.290	Open Manhole	1200
5.002	o	100	19	142.675	138.423	4.152	Open Manhole	1200
6.000	o	100	20	142.725	140.670	1.955	Open Manhole	1200
6.001	o	100	21	142.905	140.494	2.311	Open Manhole	1200
5.003	o	100	20	143.100	138.248	4.752	Open Manhole	1200
5.004	o	150	21	142.625	137.988	4.487	Open Manhole	1200
7.000	o	100	24	142.945	141.261	1.584	Open Manhole	1200
7.001	o	100	25	142.815	141.123	1.592	Open Manhole	1200
7.002	o	100	26	142.720	141.022	1.598	Open Manhole	1200
7.003	o	100	27	142.355	140.280	1.975	Open Manhole	1200
5.005	o	150	22	141.310	137.823	3.337	Open Manhole	1200
5.006	o	150	23	140.200	137.440	2.610	Open Manhole	1200
1.007	o	150	17	139.940	134.774	5.016	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)
1.006	27.977	150.0	17	139.940	134.774	5.016	Open Manhole	1200
5.000	15.934	79.7	18	141.190	138.800	2.290	Open Manhole	1200
5.001	30.099	79.8	19	142.675	138.423	4.152	Open Manhole	1200
5.002	14.022	80.0	20	143.100	138.248	4.752	Open Manhole	1200
6.000	14.030	79.7	21	142.905	140.494	2.311	Open Manhole	1200
6.001	19.494	8.7	20	143.100	138.248	4.752	Open Manhole	1200
5.003	16.782	79.9	21	142.625	138.038	4.487	Open Manhole	1200
5.004	24.749	150.0	22	141.310	137.823	3.337	Open Manhole	1200
7.000	11.025	80.0	25	142.815	141.123	1.592	Open Manhole	1200
7.001	8.057	80.0	26	142.720	141.022	1.598	Open Manhole	1200
7.002	20.392	27.5	27	142.355	140.280	1.975	Open Manhole	1200
7.003	62.130	25.8	22	141.310	137.873	3.337	Open Manhole	1200
5.005	32.546	85.0	23	140.200	137.440	2.610	Open Manhole	1200
5.006	8.528	3.2	17	139.940	134.774	5.016	Open Manhole	1200
1.007	24.175	149.2	31	139.390	134.612	4.628	Open Manhole	1200

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PIPELINE SCHEDULES for Foul - Main

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)
1.008	o	150	31	139.390	134.612	4.628	Open Manhole	1200
1.009	o	150	32	138.900	134.491	4.259	Open Manhole	1200
1.010	o	150	33	138.600	134.404	4.046	Open Manhole	1200
8.000	o	100	34	139.830	138.150	1.580	Open Manhole	1200
8.001	o	100	35	138.800	137.120	1.580	Open Manhole	1200
1.011	o	150	34	138.225	134.306	3.769	Open Manhole	1200
1.012	o	150	37	138.060	134.170	3.740	Open Manhole	1200
1.013	o	150	38	138.075	134.063	3.862	Open Manhole	1200
1.014	o	150	39	137.200	133.782	3.268	Open Manhole	1200
1.015	o	150	40	136.765	133.625	2.990	Open Manhole	1200
9.000	o	100	41	138.745	136.815	1.830	Open Manhole	1200
9.001	o	100	42	139.250	136.575	2.575	Open Manhole	1200
9.002	o	100	43	139.175	135.865	3.210	Open Manhole	1200
9.003	o	100	44	139.550	135.527	3.923	Open Manhole	1200
9.004	o	150	45	139.330	135.280	3.900	Open Manhole	1200
9.005	o	150	46	138.860	135.030	3.680	Open Manhole	1200
9.006	o	150	47	138.675	134.940	3.585	Open Manhole	1200
9.007	o	150	48	137.800	134.735	2.915	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)
1.008	18.091	149.5	32	138.900	134.491	4.259	Open Manhole	1200
1.009	12.971	149.1	33	138.600	134.404	4.046	Open Manhole	1200
1.010	14.625	150.0	34	138.225	134.306	3.769	Open Manhole	1200
8.000	31.123	30.2	35	138.800	137.120	1.580	Open Manhole	1200
8.001	21.863	7.9	34	138.225	134.356	3.769	Open Manhole	1200
1.011	20.230	148.8	37	138.060	134.170	3.740	Open Manhole	1200
1.012	15.979	150.0	38	138.075	134.063	3.862	Open Manhole	1200
1.013	42.112	149.9	39	137.200	133.782	3.268	Open Manhole	1200
1.014	23.517	149.8	40	136.765	133.625	2.990	Open Manhole	1200
1.015	31.211	149.3	41	136.425	133.416	2.859	Open Manhole	1200
9.000	16.205	67.5	42	139.250	136.575	2.575	Open Manhole	1200
9.001	12.345	17.4	43	139.175	135.865	3.210	Open Manhole	1200
9.002	26.989	79.8	44	139.550	135.527	3.923	Open Manhole	1200
9.003	15.769	80.0	45	139.330	135.330	3.900	Open Manhole	1200
9.004	37.401	149.6	46	138.860	135.030	3.680	Open Manhole	1200
9.005	13.500	150.0	47	138.675	134.940	3.585	Open Manhole	1200
9.006	30.697	150.0	48	137.800	134.735	2.915	Open Manhole	1200
9.007	33.100	47.0	49	136.735	134.030	2.555	Open Manhole	1200

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PIPELINE SCHEDULES for Foul - Main

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)
9.008	o	150	49	136.735	134.030	2.555	Open Manhole	1200
1.016	o	150	41	136.425	133.416	2.859	Open Manhole	1200
1.017	o	150	51	136.065	133.322	2.593	Open Manhole	1200
10.000	o	150	75	135.805	134.155	1.500	Open Manhole	1200
1.018	o	150	52	136.775	132.690	3.935	Open Manhole	1200
1.019	o	150	53	135.850	132.657	3.043	Open Manhole	1200
1.020	o	225	54	136.050	132.190	3.635	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)
9.008	10.393	16.9	41	136.425	133.416	2.859	Open Manhole	1200
1.016	14.081	149.8	51	136.065	133.322	2.593	Open Manhole	1200
1.017	18.006	28.5	52	136.775	132.690	3.935	Open Manhole	1200
10.000	10.000	6.8	52	136.775	132.690	3.935	Open Manhole	1200
1.018	5.000	151.5	53	135.850	132.657	3.043	Open Manhole	1200
1.019	58.727	150.0	54	136.050	132.265	3.635	Open Manhole	1200
1.020	10.598	150.0		0.000	132.120		Open Manhole	0

Free Flowing Outfall Details for Foul - Main

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.020		0.000	132.120	0.000	0	0