

Stephen Daykin Consulting Ltd		Page 0
33 Beaumaris Drive Gedling Nottingham NG4 2RA		
Date 01/01/0001	Designed by JoWard	
File E970 - FOUL NETWORK 1 (V...	Checked by	
Innovyze	Network 2018.1.1	

FOUL SEWERAGE DESIGN

Design Criteria for NETWORK 1 FOUL.FWS

Pipe Sizes E970 - FOUL NETWORK 2 (V2) Manhole Sizes E970 - FOUL NETWORK 2 (V2)

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	10
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	225.00	Maximum Backdrop Height (m)	0.000
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 NETWORK 1 FOUL.FWS

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	57.809	0.425	136.0	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
1.001	64.396	0.467	137.9	0.000	29	0.0	1.500	o	150	Pipe/Conduit	
1.002	32.394	0.233	139.0	0.000	18	0.0	1.500	o	150	Pipe/Conduit	
2.000	13.216	0.100	132.2	0.000	13	0.0	1.500	o	150	Pipe/Conduit	
2.001	49.559	0.800	61.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.003	16.630	0.475	35.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.004	36.352	1.175	30.9	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
1.005	11.476	0.425	27.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.006	23.582	0.950	24.8	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)
1.000	122.050	0.000	0.0	12	0.1	22	0.38	0.75	13.3	0.6
1.001	121.625	0.000	0.0	41	0.2	41	0.54	0.75	13.2	2.1
1.002	121.158	0.000	0.0	59	0.3	49	0.60	0.74	13.1	3.0
2.000	121.825	0.000	0.0	13	0.1	23	0.39	0.76	13.5	0.7
2.001	121.725	0.000	0.0	13	0.1	19	0.51	1.11	19.7	0.7
1.003	120.925	0.000	0.0	74	0.3	39	1.05	1.48	26.2	3.8
1.004	120.450	0.000	0.0	86	0.4	41	1.15	1.58	27.9	4.4
1.005	119.275	0.000	0.0	88	0.4	40	1.21	1.69	29.9	4.5
1.006	118.850	0.000	0.0	95	0.4	40	1.28	1.76	31.2	4.9

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Network Design Table for NETWORK 1 FOUL.FWS

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	62.701	2.325	27.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
1.008	28.865	1.300	22.2	0.000	16	0.0	1.500	o	150	Pipe/Conduit	
1.009	26.673	1.200	22.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.000	24.404	0.650	37.5	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
3.001	7.131	0.150	47.5	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
3.002	56.197	2.248	25.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
3.003	40.527	1.152	35.2	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
3.004	16.594	0.676	24.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.005	21.940	0.152	144.3	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
3.006	34.509	0.347	99.4	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
1.010	47.818	1.930	24.8	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
4.000	51.631	2.275	22.7	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
4.001	20.198	0.900	22.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
4.002	14.955	0.156	95.9	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
4.003	23.708	0.469	50.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
4.004	30.238	0.488	62.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
4.005	16.903	0.116	145.7	0.000	0	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	117.900	0.000	0.0	101	0.5	42	1.27	1.69	29.9	5.2
1.008	115.575	0.000	0.0	117	0.5	44	1.41	1.86	33.0	6.0
1.009	114.275	0.000	0.0	117	0.5	44	1.41	1.86	32.9	6.0
3.000	118.450	0.000	0.0	6	0.0	12	0.47	1.43	25.3	0.3
3.001	117.800	0.000	0.0	10	0.0	16	0.51	1.27	22.5	0.5
3.002	117.650	0.000	0.0	16	0.1	17	0.74	1.76	31.0	0.8
3.003	115.402	0.000	0.0	28	0.1	24	0.78	1.48	26.2	1.4
3.004	114.250	0.000	0.0	28	0.1	22	0.89	1.77	31.3	1.4
3.005	113.574	0.000	0.0	36	0.2	39	0.52	0.73	12.9	1.9
3.006	113.422	0.000	0.0	39	0.2	37	0.60	0.88	15.5	2.0
1.010	113.075	0.000	0.0	167	0.8	54	1.51	1.76	31.2	8.6
4.000	115.825	0.000	0.0	5	0.0	10	0.52	1.84	32.6	0.3
4.001	113.550	0.000	0.0	5	0.0	10	0.53	1.85	32.8	0.3
4.002	112.650	0.000	0.0	12	0.1	21	0.43	0.89	15.8	0.6
4.003	112.494	0.000	0.0	12	0.1	18	0.53	1.23	21.8	0.6
4.004	112.025	0.000	0.0	12	0.1	19	0.50	1.11	19.7	0.6
4.005	111.537	0.000	0.0	12	0.1	23	0.37	0.72	12.8	0.6

