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)	0.000
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	5.167	0.065	79.5	0.000	0	1.8	1.500	o	100	Pipe/Conduit	
1.001	5.150	0.065	79.2	0.000	0	1.8	1.500	o	100	Pipe/Conduit	
1.002	5.248	0.065	80.7	0.000	0	1.8	1.500	o	100	Pipe/Conduit	
1.003	2.089	0.020	104.5	0.000	0	1.8	1.500	o	150	Pipe/Conduit	
1.004	6.305	0.065	97.0	0.000	0	3.8	1.500	o	150	Pipe/Conduit	
1.005	5.351	0.040	133.8	0.000	0	1.1	1.500	o	150	Pipe/Conduit	
1.006	5.259	0.040	131.5	0.000	0	1.1	1.500	o	150	Pipe/Conduit	
1.007	5.260	0.050	105.2	0.000	0	1.1	1.500	o	150	Pipe/Conduit	
1.008	3.956	0.045	87.9	0.000	0	1.1	1.500	o	150	Pipe/Conduit	
1.009	10.047	0.100	100.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.010	3.522	0.050	70.4	0.000	0	2.7	1.500	o	150	Pipe/Conduit	
1.011	4.597	0.065	70.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.012	17.149	0.245	70.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.013	9.711	0.140	69.4	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)
1.000	2.370	0.000	1.8	0	0.0	38	0.65	0.75	5.9	1.8
1.001	2.305	0.000	3.6	0	0.0	57	0.79	0.75	5.9	3.6
1.002	2.240	0.000	5.4	0	0.0	76	0.84	0.74	5.8	5.4
1.003	2.125	0.000	7.2	0	0.0	73	0.85	0.86	15.1	7.2
1.004	2.105	0.000	11.0	0	0.0	92	0.96	0.89	15.7	11.0
1.005	2.040	0.000	12.1	0	0.0	112	0.86	0.76	13.4	12.1
1.006	2.000	0.000	13.2	0	0.0	120	0.87	0.76	13.5	13.2
1.007	1.960	0.000	14.3	0	0.0	116	0.97	0.85	15.1	14.3
1.008	1.910	0.000	15.4	0	0.0	115	1.06	0.93	16.5	15.4
1.009	1.865	0.000	15.4	0	0.0	123	1.00	0.87	15.4	15.4
1.010	1.765	0.000	18.1	0	0.0	120	1.19	1.04	18.5	18.1
1.011	1.715	0.000	18.1	0	0.0	121	1.19	1.04	18.4	18.1
1.012	1.650	0.000	18.1	0	0.0	120	1.19	1.05	18.5	18.1
1.013	1.405	0.000	18.1	0	0.0	119	1.20	1.05	18.6	18.1

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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)
FW01	3.550	1.180	Open Manhole	1200	1.000	2.370	100				
FW02	3.550	1.245	Open Manhole	1200	1.001	2.305	100	1.000	2.305	100	
FW03	3.550	1.310	Open Manhole	1200	1.002	2.240	100	1.001	2.240	100	
FW04	3.560	1.435	Open Manhole	1200	1.003	2.125	150	1.002	2.175	100	
FW05	3.540	1.435	Open Manhole	1200	1.004	2.105	150	1.003	2.105	150	
FW06	3.540	1.500	Open Manhole	1200	1.005	2.040	150	1.004	2.040	150	
FW07	3.540	1.540	Open Manhole	1200	1.006	2.000	150	1.005	2.000	150	
FW08	3.570	1.610	Open Manhole	1200	1.007	1.960	150	1.006	1.960	150	
FW09	3.570	1.660	Open Manhole	1200	1.008	1.910	150	1.007	1.910	150	
FW10	3.500	1.635	Open Manhole	1200	1.009	1.865	150	1.008	1.865	150	
FW11	3.560	1.795	Open Manhole	1200	1.010	1.765	150	1.009	1.765	150	
FW12	3.600	1.885	Open Manhole	1200	1.011	1.715	150	1.010	1.715	150	
FW13	3.290	1.640	Open Manhole	1200	1.012	1.650	150	1.011	1.650	150	
FW14	3.460	2.055	Open Manhole	1200	1.013	1.405	150	1.012	1.405	150	
Ex df12	3.450	2.185	Open Manhole	600		OUTFALL		1.013	1.265	150	

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	FW01	3.550	2.370	1.080	Open Manhole	1200
1.001	o	100	FW02	3.550	2.305	1.145	Open Manhole	1200
1.002	o	100	FW03	3.550	2.240	1.210	Open Manhole	1200
1.003	o	150	FW04	3.560	2.125	1.285	Open Manhole	1200
1.004	o	150	FW05	3.540	2.105	1.285	Open Manhole	1200
1.005	o	150	FW06	3.540	2.040	1.350	Open Manhole	1200
1.006	o	150	FW07	3.540	2.000	1.390	Open Manhole	1200
1.007	o	150	FW08	3.570	1.960	1.460	Open Manhole	1200
1.008	o	150	FW09	3.570	1.910	1.510	Open Manhole	1200
1.009	o	150	FW10	3.500	1.865	1.485	Open Manhole	1200
1.010	o	150	FW11	3.560	1.765	1.645	Open Manhole	1200
1.011	o	150	FW12	3.600	1.715	1.735	Open Manhole	1200
1.012	o	150	FW13	3.290	1.650	1.490	Open Manhole	1200
1.013	o	150	FW14	3.460	1.405	1.905	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	5.167	79.5	FW02	3.550	2.305	1.145	Open Manhole	1200
1.001	5.150	79.2	FW03	3.550	2.240	1.210	Open Manhole	1200
1.002	5.248	80.7	FW04	3.560	2.175	1.285	Open Manhole	1200
1.003	2.089	104.5	FW05	3.540	2.105	1.285	Open Manhole	1200
1.004	6.305	97.0	FW06	3.540	2.040	1.350	Open Manhole	1200
1.005	5.351	133.8	FW07	3.540	2.000	1.390	Open Manhole	1200
1.006	5.259	131.5	FW08	3.570	1.960	1.460	Open Manhole	1200
1.007	5.260	105.2	FW09	3.570	1.910	1.510	Open Manhole	1200
1.008	3.956	87.9	FW10	3.500	1.865	1.485	Open Manhole	1200
1.009	10.047	100.5	FW11	3.560	1.765	1.645	Open Manhole	1200
1.010	3.522	70.4	FW12	3.600	1.715	1.735	Open Manhole	1200
1.011	4.597	70.7	FW13	3.290	1.650	1.490	Open Manhole	1200
1.012	17.149	70.0	FW14	3.460	1.405	1.905	Open Manhole	1200
1.013	9.711	69.4	Ex df12	3.450	1.265	2.035	Open Manhole	600

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)
1.013	Ex df12	3.450	1.265	1.262	600	0

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