

The Civil Engineering Practice		Page 1
11 Tungsten Building George Street Fishersgate BN41 1RA	Manor Nursery Angmering West Sussex	
Date 28/06/2019 File Planning Network File.MDX	Designed by S Burgess Checked by SRD	
Innovyze Network 2017.1.2		

FOUL SEWERAGE DESIGN

Design Criteria for NETWORK 1.FWS

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)	0.500
Flow Per Person (l/per/day)	222.00	Maximum Backdrop Height (m)	1.000
Persons per House	3.00	Min Design Depth for Optimisation (m)	0.900
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.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	18.326	0.138	132.8	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.001	34.375	0.259	132.8	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.002	25.687	0.171	150.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
1.003	5.416	0.036	150.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
1.004	8.599	0.057	150.9	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
1.005	38.911	0.259	150.2	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
2.000	38.821	0.259	149.9	0.000	11	0.0	1.500	o	100	Pipe/Conduit	
2.001	6.723	0.045	149.4	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.006	21.933	0.146	150.2	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
1.007	13.081	0.087	150.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.008	8.131	0.054	150.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.009	57.801	0.413	140.0	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	14.450	0.000	0.0	4	0.0	13	0.26	0.76	13.4	0.2
1.001	14.312	0.000	0.0	8	0.0	17	0.32	0.76	13.4	0.4
1.002	14.053	0.000	0.0	13	0.0	23	0.36	0.71	12.6	0.6
1.003	13.882	0.000	0.0	15	0.0	24	0.38	0.71	12.6	0.7
1.004	13.846	0.000	0.0	16	0.0	25	0.38	0.71	12.6	0.7
1.005	13.789	0.000	0.0	20	0.0	28	0.41	0.71	12.6	0.9
2.000	14.654	0.000	0.0	11	0.0	24	0.36	0.54	4.3	0.5
2.001	14.395	0.000	0.0	11	0.0	24	0.36	0.54	4.3	0.5
1.006	13.530	0.000	0.0	32	0.0	35	0.47	0.71	12.6	1.5
1.007	13.384	0.000	0.0	32	0.0	35	0.47	0.71	12.6	1.5
1.008	13.297	0.000	0.0	32	0.0	35	0.47	0.71	12.6	1.5
1.009	13.243	0.000	0.0	32	0.0	34	0.49	0.74	13.1	1.5

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The Civil Engineering Practice								Page 2																																																																																																																																																																																																																																											
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<u>PIPELINE SCHEDULES for NETWORK 1.FWS</u> <u>Upstream Manhole</u> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>1.000</td><td>o</td><td>150</td><td>101</td><td>15.487</td><td>14.450</td><td>0.887</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.001</td><td>o</td><td>150</td><td>102</td><td>15.672</td><td>14.312</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.002</td><td>o</td><td>150</td><td>103</td><td>16.024</td><td>14.053</td><td>1.821</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.003</td><td>o</td><td>150</td><td>104</td><td>16.296</td><td>13.882</td><td>2.264</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.004</td><td>o</td><td>150</td><td>105</td><td>16.381</td><td>13.846</td><td>2.385</td><td>Open 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Manhole</u> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>1.000</td><td>18.326</td><td>132.8</td><td>102</td><td>15.672</td><td>14.312</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.001</td><td>34.375</td><td>132.8</td><td>103</td><td>16.024</td><td>14.053</td><td>1.821</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.002</td><td>25.687</td><td>150.0</td><td>104</td><td>16.296</td><td>13.882</td><td>2.264</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.003</td><td>5.416</td><td>150.0</td><td>105</td><td>16.381</td><td>13.846</td><td>2.385</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.004</td><td>8.599</td><td>150.9</td><td>106</td><td>16.451</td><td>13.789</td><td>2.512</td><td>Open 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