

The Alan Johnston Partnership		Page 1
1 Dale Street Liverpool L2 2ET		
Date 16/08/2022 09:44	Designed by JosephPoole	
File 221-130 MDX NETWORK 2022.08.10.MDX	Checked by	
XP Solutions	Network 2018.1.1	

FOUL SEWERAGE DESIGN

Network Design Table for 221-130 FW NETWORK.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	35.560	1.778	20.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.001	6.386	0.172	37.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.002	23.004	1.051	21.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.003	27.264	0.351	77.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.004	24.747	0.319	77.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.005	26.474	0.825	32.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
2.000	24.369	1.125	21.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
2.001	34.371	0.725	47.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.006	21.641	0.144	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.007	13.508	0.090	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.008	26.284	0.175	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.009	38.069	0.254	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.010	45.135	0.301	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.000	12.462	0.107	116.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.001	12.924	0.220	58.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.002	30.537	0.500	61.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.003	24.340	1.296	18.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.004	64.484	2.869	22.5	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	48.821	0.000	0.0	0	0.0	0	0.00	1.96	34.7	0.0
1.001	47.043	0.000	0.0	0	0.0	0	0.00	1.44	25.5	0.0
1.002	46.871	0.000	0.0	0	0.0	0	0.00	1.88	33.2	0.0
1.003	45.820	0.000	0.0	0	0.0	0	0.00	0.99	17.6	0.0
1.004	45.469	0.000	0.0	0	0.0	0	0.00	1.00	17.6	0.0
1.005	45.150	0.000	0.0	0	0.0	0	0.00	1.55	27.4	0.0
2.000	47.675	0.000	0.0	0	0.0	0	0.00	1.89	33.4	0.0
2.001	46.550	0.000	0.0	0	0.0	0	0.00	1.27	22.5	0.0
1.006	44.325	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
1.007	44.181	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
1.008	44.091	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
1.009	43.916	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
1.010	43.662	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
3.000	50.400	0.000	0.0	0	0.0	0	0.00	0.81	14.3	0.0
3.001	50.293	0.000	0.0	0	0.0	0	0.00	1.15	20.2	0.0
3.002	50.073	0.000	0.0	0	0.0	0	0.00	1.12	19.8	0.0
3.003	49.573	0.000	0.0	0	0.0	0	0.00	2.03	35.8	0.0
3.004	48.277	0.000	0.0	0	0.0	0	0.00	1.85	32.8	0.0

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FOUL SEWERAGE DESIGN

Network Design Table for 221-130 FW NETWORK.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
3.005	12.236	0.158	77.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.006	22.551	0.900	25.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.011	32.628	0.218	150.0	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 (l/s)	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
3.005	45.408	0.000	0.0	0	0.0	0	0.00	1.00	17.6	0.0
3.006	45.250	0.000	0.0	0	0.0	0	0.00	1.75	31.0	0.0
1.011	43.361	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0

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Manhole Schedules for 221-130 FW NETWORK.FWS

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	50.171	1.350	Open Manhole	1200	1.000	48.821	150				
2	48.393	1.350	Open Manhole	1200	1.001	47.043	150	1.000	47.043	150	
3	48.221	1.350	Open Manhole	1200	1.002	46.871	150	1.001	46.871	150	
4	47.350	1.530	Open Manhole	1200	1.003	45.820	150	1.002	45.820	150	
5	47.350	1.881	Open Manhole	1200	1.004	45.469	150	1.003	45.469	150	
6	47.000	1.850	Open Manhole	1200	1.005	45.150	150	1.004	45.150	150	
7	49.400	1.725	Open Manhole	1200	2.000	47.675	150				
7a	47.900	1.350	Open Manhole	1200	2.001	46.550	150	2.000	46.550	150	
8	46.888	2.563	Open Manhole	1350	1.006	44.325	150	1.005	44.325	150	
								2.001	45.825	150	1500
9	46.524	2.343	Open Manhole	1200	1.007	44.181	150	1.006	44.181	150	
10	46.359	2.268	Open Manhole	1200	1.008	44.091	150	1.007	44.091	150	
11	46.146	2.230	Open Manhole	1200	1.009	43.916	150	1.008	43.916	150	
12	46.118	2.456	Open Manhole	1200	1.010	43.662	150	1.009	43.662	150	
13	51.750	1.350	Open Manhole	1200	3.000	50.400	150				
14	52.079	1.786	Open Manhole	1200	3.001	50.293	150	3.000	50.293	150	
15	52.409	2.336	Open Manhole	1200	3.002	50.073	150	3.001	50.073	150	
16	51.013	1.440	Open Manhole	1200	3.003	49.573	150	3.002	49.573	150	
17	49.733	1.456	Open Manhole	1200	3.004	48.277	150	3.003	48.277	150	
18	46.864	1.456	Open Manhole	1200	3.005	45.408	150	3.004	45.408	150	
19	46.625	1.375	Open Manhole	1200	3.006	45.250	150	3.005	45.250	150	
20	46.244	2.883	Open Manhole	1350	1.011	43.361	150	1.010	43.361	150	
								3.006	44.350	150	989
21	46.465	3.321	Open Manhole	0		OUTFALL		1.011	43.144	150	