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175-177 Borough High Street London SE1 1HR		
Date 23/01/2020 17:10 File 5789-001-FOUL WATER NET...	Designed by YarePerezVera Checked by	
XP Solutions	Network 2016.1	

FOUL SEWERAGE DESIGN

Design Criteria for Storm

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)	600.00	Maximum Backdrop Height (m)	1.500
Persons per House	7.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	1.00	Min Vel for Auto Design only (m/s)	1.00
Domestic Peak Flow Factor	1.00	Min Slope for Optimisation (1:X)	100

Designed with Level Soffits

Network Design Table for Storm

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
3.000	15.910	0.545	29.2	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.001	11.038	0.545	20.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.002	58.878	4.770	12.3	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
4.000	21.230	2.950	7.2	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
4.001	26.084	0.652	40.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
4.002	6.823	0.171	40.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.003	6.665	0.167	40.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
5.000	27.594	0.626	44.1	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
5.001	10.566	0.240	44.1	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
6.000	12.813	1.096	11.7	0.000	1	0.0	1.500	o	150	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)
3.000	106.890	0.000	0.0	1	0.0	5	0.28	1.63	28.7	0.0
3.001	106.345	0.000	0.0	1	0.0	5	0.31	1.95	34.5	0.0
3.002	105.800	0.000	0.0	2	0.0	5	0.46	2.50	44.2	0.1
4.000	105.750	0.000	0.0	1	0.0	4	0.43	3.28	58.0	0.0
4.001	102.800	0.000	0.0	2	0.0	7	0.31	1.39	24.5	0.1
4.002	101.600	0.000	0.0	3	0.0	9	0.36	1.39	24.5	0.1
3.003	101.030	0.000	0.0	5	0.0	11	0.42	1.39	24.5	0.2
5.000	101.570	0.000	0.0	1	0.0	5	0.24	1.32	23.4	0.0
5.001	100.944	0.000	0.0	2	0.0	7	0.30	1.32	23.4	0.1
6.000	101.800	0.000	0.0	1	0.0	4	0.37	2.57	45.4	0.0

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5.002	22.950	0.287	80.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
5.003	9.510	0.476	20.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
3.004	6.753	0.349	19.3	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.005	22.764	1.758	12.9	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
7.000	26.044	1.000	26.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
7.001	13.016	2.000	6.5	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
7.002	10.828	1.000	10.8	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
7.003	19.342	0.484	40.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
7.004	9.388	0.469	20.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
7.005	36.133	0.903	40.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
7.006	12.891	0.300	43.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
7.007	13.084	0.327	40.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.006	30.876	1.438	21.5	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
8.000	24.418	0.295	82.8	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
8.001	16.592	1.375	12.1	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
3.007	26.318	0.749	35.2	0.000	1	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)
5.002	100.704	0.000	0.0	4	0.0	12	0.31	0.98	17.3	0.2
5.003	100.417	0.000	0.0	6	0.0	10	0.57	1.96	34.7	0.3
3.004	99.942	0.000	0.0	12	0.0	14	0.72	2.00	35.3	0.6
3.005	99.593	0.000	0.0	13	0.0	13	0.85	2.44	43.2	0.6
7.000	105.700	0.000	0.0	1	0.0	5	0.28	1.72	30.4	0.0
7.001	104.700	0.000	0.0	3	0.0	6	0.66	3.45	60.9	0.1
7.002	102.700	0.000	0.0	6	0.0	9	0.70	2.67	47.2	0.3
7.003	101.700	0.000	0.0	9	0.0	14	0.51	1.39	24.5	0.4
7.004	100.800	0.000	0.0	12	0.0	14	0.72	1.96	34.7	0.6
7.005	99.700	0.000	0.0	13	0.0	17	0.58	1.39	24.5	0.6
7.006	98.797	0.000	0.0	14	0.0	18	0.58	1.34	23.7	0.7
7.007	98.497	0.000	0.0	15	0.0	18	0.61	1.39	24.5	0.7
3.006	97.835	0.000	0.0	29	0.0	21	0.92	1.90	33.5	1.4
8.000	98.067	0.000	0.0	1	0.0	6	0.19	0.96	17.0	0.0
8.001	97.772	0.000	0.0	2	0.0	5	0.47	2.53	44.7	0.1
3.007	96.397	0.000	0.0	32	0.0	25	0.80	1.48	26.2	1.6

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3.008	36.664	4.351	8.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
3.009	160.632	3.687	43.6	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)
3.008	95.648	0.000	0.0	32	0.0	18	1.32	3.03	53.5	1.6
3.009	91.297	0.000	0.0	32	0.0	26	0.74	1.33	23.5	1.6