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Cavendish House 10-11 Birmingham Street Halesowen W.Midlands B63 3HN		
Date 01/01/0001	Designed by tombyrne	
File Foul Network 1 20.05.13...	Checked by	
XP Solutions		Network 2018.1.1

FOUL SEWERAGE DESIGN

Design Criteria for FOUL NETWORK 1 20.05.13.FWS

Pipe Sizes FOUL NETWORK 1 19.08.20 Manhole Sizes FOUL NETWORK 1 19.08.20

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0
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 FOUL NETWORK 1 20.05.13.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
F1.000	33.441	0.339	98.6	0.000	9	0.0	1.500	o	100	Pipe/Conduit	
F1.001	23.535	0.157	149.9	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F1.002	25.271	0.168	150.4	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.003	28.120	0.187	150.4	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F1.004	8.686	0.060	144.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.005	12.916	0.460	28.1	0.000	5	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)
F1.000	5.561	0.000	0.0	9	0.0	19	0.39	0.67	5.3	0.4
F1.001	5.172	0.000	0.0	13	0.0	23	0.36	0.71	12.6	0.6
F1.002	5.015	0.000	0.0	15	0.0	24	0.38	0.71	12.6	0.7
F1.003	4.847	0.000	0.0	20	0.0	28	0.41	0.71	12.6	0.9
F1.004	4.660	0.000	0.0	20	0.0	28	0.42	0.73	12.8	0.9
F1.005	4.600	0.000	0.0	25	0.0	21	0.80	1.66	29.3	1.2

Free Flowing Outfall Details for FOUL NETWORK 1 20.05.13.FWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F1.005	FFWA2_01	6.800	4.140	0.000	1200	0

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Simulation Criteria for FOUL NETWORK 1 20.05.13.FWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	0	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	0.000	Storm Duration (mins)	30
Ratio R	0.000		

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