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Date 21-Dec-17 1:31 PM	Designed by Sean	
File 2171219_CES482_Wellington_Way_Waterloovil...	Checked by	
Micro Drainage	Network 2017.1	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	1.500
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	222.00	Add Flow / Climate Change (%)	0	Min Vel for Auto Design only (m/s)	0.75
Persons per House	2.00	Minimum Backdrop Height (m)	0.200	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
F1.000	46.115	0.340	135.6	0.000	56	0.0	1.500	o	150	Pipe/Conduit	
F1.001	5.382	0.317	17.0	0.000	96	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)
F1.000	49.453	0.000	0.0	56	0.0	37	0.52	0.75	13.3	1.7
F1.001	49.113	0.000	0.0	152	0.0	36	1.45	2.13	37.7	4.7

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PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
F1.000	o	150	F1	50.953	49.453	1.350	Open Manhole	1200
F1.001	o	150	F2	49.885	49.113	0.622	Open Manhole	1200
F1.002	o	150	F3	49.703	48.796	0.757	Open Manhole	1200

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
F1.000	46.115	135.6	F2	49.885	49.113	0.622	Open Manhole	1200
F1.001	5.382	17.0	F3	49.703	48.796	0.757	Open Manhole	1200
F1.002	2.326	19.4	F	49.890	48.676	1.064	Open Manhole	450

