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Catherine House Old Harborough Road Brixworth NN6 9BX	FW Network Harlands Road Haywards Heath	
Date 06/06/2025	Designed by AZ	
File 82960 - HARLANDS - FW NE...	Checked by	
Micro Drainage	Network 2020.1.3	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Unit

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)	0.200
Calculation Method BS 8301		Maximum Backdrop Height (m)	1.500
Frequency Factor	0.00	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 - Unit

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	14.518	0.425	34.2	0.000	16.0	0.0	1.500	o	150	Pipe/Conduit	
1.001	18.680	0.263	71.0	0.000	16.0	0.0	1.500	o	150	Pipe/Conduit	
1.002	13.703	0.193	71.0	0.000	16.0	0.0	1.500	o	150	Pipe/Conduit	
1.003	4.606	0.069	66.8	0.000	16.0	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	47.525	0.000	0.0	16.0	0.0	32	0.95	1.50	26.5	2.6
1.001	47.100	0.000	0.0	32.0	0.0	42	0.77	1.04	18.4	3.1
1.002	46.837	0.000	0.0	48.0	0.0	44	0.79	1.04	18.4	3.3
1.003	46.644	0.000	0.0	64.0	0.0	44	0.82	1.07	19.0	3.6

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Manhole Schedules for Foul - Unit

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Invert Level (m)	Diameter (mm)	Pipes In PN	Invert Level (m)	Diameter (mm)	Backdrop (mm)
1	48.525	1.000	Open Manhole	1200	1.000	47.525	150				
2	48.055	0.955	Open Manhole	1200	1.001	47.100	150	1.000	47.100	150	
3	48.055	1.218	Open Manhole	1200	1.002	46.837	150	1.001	46.837	150	
4	48.045	1.401	Open Manhole	1200	1.003	46.644	150	1.002	46.644	150	
	0.000		Open Manhole	0		OUTFALL		1.003	46.575	150	

No coordinates have been specified, layout information cannot be produced.

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PIPELINE SCHEDULES for Foul - Unit

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	150	1	48.525	47.525	0.850	Open Manhole	1200
1.001	o	150	2	48.055	47.100	0.805	Open Manhole	1200
1.002	o	150	3	48.055	46.837	1.068	Open Manhole	1200
1.003	o	150	4	48.045	46.644	1.251	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	14.518	34.2	2	48.055	47.100	0.805	Open Manhole	1200
1.001	18.680	71.0	3	48.055	46.837	1.068	Open Manhole	1200
1.002	13.703	71.0	4	48.045	46.644	1.251	Open Manhole	1200
1.003	4.606	66.8		0.000	46.575		Open Manhole	0

Free Flowing Outfall Details for Foul - Unit

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.003		0.000	46.575	0.000	0	0