

Foul wastewater discharge

Average flow = 450 l/day per dwelling = 0.005 l/s

Average flow (DWF) for 28 dwellings : $28 \times 0.005 = 0.140$ l/s

Peak flow: $6 \times \text{DWF} = 6 \times 0.140 = 0.840$ l/s

Job Title:
Calculation by:
Checked by:

Craddockstown
 LR
 LM

Job Number: 24D024
Date: 13.03.25

Proposed Foul Drainage Design

Manhole Ref Number	Sewer Ref Number	Cover Level (m)	Invert Level (m)	Depth To Manhole (m)	Length (m)	Gradient (1 in)	Pipe Diameter (mm)	Velocity flowing full (m/s)	Pipe Capacity (l/s)
F01		118.022	116.186	1.350					
F02	F01-F02	118.093	115.985	2.108	12.067	60	150	1.13	20.00
F03	F02-F03	118.183	115.771	2.412	12.825	60	150	1.13	20.00
F04	F03-F04	117.879	115.197	2.682	34.419	60	150	1.13	20.00
F09	F04-F09	117.380	115.108	2.272	17.956	200	225	0.81	32.18
F10	F09-F10	116.430	115.010	1.420	19.482	200	225	0.81	32.18
EX.FMH1	F10-EX.FMH1	116.420	114.940	1.480	14.040	200	225	0.81	32.18
F08		118.535	115.582	1.350					
F06	F08-F06	118.659	115.473	3.062	6.521	60	150	1.13	20.00
F07		118.545	115.640	2.905					
F06	F07-F06	118.659	115.473	3.072	10.037	60	150	1.13	20.00
F05	F06-F05	117.799	115.258	3.401	43.069	200	225	0.81	32.18
F04	F05-F04	117.879	115.197	2.602	12.035	200	225	0.81	32.18
F08A		118.573	116.200	1.350					
F08B	F08A-F08B	118.735	115.688	2.885	30.725	60	150	1.13	20.00
F08	F08B-F08	118.535	115.582	3.153	6.377	60	150	1.13	20.00
F03A		118.512	116.262	1.350					
F03B	F03A-F03B	118.270	115.909	2.603	21.164	60	150	1.13	20.00
F03	F03B-F03	118.183	115.771	2.499	8.305	60	150	1.13	20.00
				43.956	249.022				
				2.31					

Appendix D – Foul Water Calculations

