

Ardent Consulting Engineers		Page 1
Suite 9, 10 Churchill Square Busines...	Woodcroft Lane, Lovedean	
Kings Hill	Foul Water	
West Malling, ME19 4YU		
Date 13/08/2020 12:04	Designed by JH	
File 192931 LOVEDEAN.MDX	Checked by DP	
XP Solutions	Network 2020.1	

FOUL SEWERAGE DESIGN

Network Design Table for FW Network 1

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
F1-1.000	14.496	0.330	43.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.001	12.247	0.250	49.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.002	12.606	0.380	33.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-2.000	19.574	0.245	79.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-2.001	10.781	0.075	143.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.003	8.360	0.055	152.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.004	12.789	0.085	150.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-3.000	15.659	0.200	78.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-4.000	11.164	0.145	77.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-3.001	7.853	0.055	142.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-3.002	9.311	0.065	143.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-3.003	11.247	0.075	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-3.004	11.721	0.080	146.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.005	9.836	0.065	151.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.006	15.882	0.105	151.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.007	28.860	0.195	148.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-5.000	21.343	0.145	147.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-5.001	27.652	0.185	149.5	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 Flow (l/s)	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1-1.000	58.010	0.000	0.0	0	0.0	0	0.00	1.32	23.4	0.0
F1-1.001	57.680	0.000	0.0	0	0.0	0	0.00	1.25	22.2	0.0
F1-1.002	57.430	0.000	0.0	0	0.0	0	0.00	1.52	26.9	0.0
F1-2.000	57.370	0.000	0.0	0	0.0	0	0.00	0.98	17.3	0.0
F1-2.001	57.125	0.000	0.0	0	0.0	0	0.00	0.73	12.9	0.0
F1-1.003	57.050	0.000	0.0	0	0.0	0	0.00	0.71	12.5	0.0
F1-1.004	56.995	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
F1-3.000	57.385	0.000	0.0	0	0.0	0	0.00	0.99	17.5	0.0
F1-4.000	57.330	0.000	0.0	0	0.0	0	0.00	1.00	17.7	0.0
F1-3.001	57.185	0.000	0.0	0	0.0	0	0.00	0.73	12.9	0.0
F1-3.002	57.130	0.000	0.0	0	0.0	0	0.00	0.73	12.9	0.0
F1-3.003	57.065	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
F1-3.004	56.990	0.000	0.0	0	0.0	0	0.00	0.72	12.8	0.0
F1-1.005	56.910	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
F1-1.006	56.845	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
F1-1.007	56.740	0.000	0.0	0	0.0	0	0.00	0.72	12.7	0.0
F1-5.000	56.875	0.000	0.0	0	0.0	0	0.00	0.72	12.7	0.0
F1-5.001	56.730	0.000	0.0	0	0.0	0	0.00	0.72	12.6	0.0

Ardent Consulting Engineers		Page 2
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FOUL SEWERAGE DESIGN

Network Design Table for FW Network 1

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
F1-1.008	26.905	0.180	149.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.009	16.688	0.115	145.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.000	22.262	0.280	79.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.001	22.529	0.165	136.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-7.000	12.532	0.175	71.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.002	18.337	0.125	146.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.003	19.246	0.130	148.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-8.000	14.868	0.595	25.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-8.001	18.201	0.755	24.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.004	19.992	0.660	30.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.005	25.119	0.835	30.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-6.006	43.233	1.435	30.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.010	13.513	0.090	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.011	12.433	0.085	146.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1-1.012	12.516	0.075	166.9	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	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1-1.008	56.545	0.000	0.0	0	0.0	0	0.00	0.72	12.6	0.0
F1-1.009	56.365	0.000	0.0	0	0.0	0	0.00	0.73	12.8	0.0
F1-6.000	59.880	0.000	0.0	0	0.0	0	0.00	0.98	17.4	0.0
F1-6.001	59.600	0.000	0.0	0	0.0	0	0.00	0.75	13.2	0.0
F1-7.000	59.610	0.000	0.0	0	0.0	0	0.00	1.04	18.3	0.0
F1-6.002	59.435	0.000	0.0	0	0.0	0	0.00	0.72	12.8	0.0
F1-6.003	59.310	0.000	0.0	0	0.0	0	0.00	0.72	12.7	0.0
F1-8.000	60.530	0.000	0.0	0	0.0	0	0.00	1.76	31.1	0.0
F1-8.001	59.935	0.000	0.0	0	0.0	0	0.00	1.79	31.6	0.0
F1-6.004	59.180	0.000	0.0	0	0.0	0	0.00	1.60	28.2	0.0
F1-6.005	58.520	0.000	0.0	0	0.0	0	0.00	1.60	28.3	0.0
F1-6.006	57.685	0.000	0.0	0	0.0	0	0.00	1.60	28.3	0.0
F1-1.010	56.250	0.000	0.0	0	0.0	0	0.00	0.71	12.6	0.0
F1-1.011	56.160	0.000	0.0	0	0.0	0	0.00	0.72	12.8	0.0
F1-1.012	56.075	0.000	0.0	0	0.0	0	0.00	0.68	12.0	0.0



Manhole Schedules for FW Network 1

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
F1-1	60.790	2.780	Open Manhole	1200	F1-1.000	58.010	150				
F1-2	60.480	2.800	Open Manhole	1200	F1-1.001	57.680	150	F1-1.000	57.680	150	
F1-3	60.180	2.750	Open Manhole	1200	F1-1.002	57.430	150	F1-1.001	57.430	150	
F1-4	59.440	2.070	Open Manhole	1200	F1-2.000	57.370	150				
F1-5	59.650	2.525	Open Manhole	1200	F1-2.001	57.125	150	F1-2.000	57.125	150	
F1-6	59.810	2.760	Open Manhole	1200	F1-1.003	57.050	150	F1-1.002	57.050	150	
								F1-2.001	57.050	150	
F1-7	59.620	2.625	Open Manhole	1200	F1-1.004	56.995	150	F1-1.003	56.995	150	
F1-8	60.240	2.855	Open Manhole	1200	F1-3.000	57.385	150				
F1-9	60.090	2.760	Open Manhole	1200	F1-4.000	57.330	150				
F1-10	59.990	2.805	Open Manhole	1200	F1-3.001	57.185	150	F1-3.000	57.185	150	
								F1-4.000	57.185	150	
F1-11	59.840	2.710	Open Manhole	1200	F1-3.002	57.130	150	F1-3.001	57.130	150	
F1-12	59.680	2.615	Open Manhole	1200	F1-3.003	57.065	150	F1-3.002	57.065	150	
F1-13	59.530	2.540	Open Manhole	1200	F1-3.004	56.990	150	F1-3.003	56.990	150	
F1-14	59.510	2.600	Open Manhole	1200	F1-1.005	56.910	150	F1-1.004	56.910	150	
								F1-3.004	56.910	150	
F1-15	59.340	2.495	Open Manhole	1200	F1-1.006	56.845	150	F1-1.005	56.845	150	
F1-16	59.060	2.320	Open Manhole	1200	F1-1.007	56.740	150	F1-1.006	56.740	150	
F1-17	58.100	1.225	Open Manhole	1200	F1-5.000	56.875	150				
F1-18	58.320	1.590	Open Manhole	1200	F1-5.001	56.730	150	F1-5.000	56.730	150	
F1-19	58.600	2.055	Open Manhole	1200	F1-1.008	56.545	150	F1-1.007	56.545	150	
								F1-5.001	56.545	150	
F1-20	58.880	2.515	Open Manhole	1200	F1-1.009	56.365	150	F1-1.008	56.365	150	
F1-21	61.780	1.900	Open Manhole	1200	F1-6.000	59.880	150				
F1-22	61.520	1.920	Open Manhole	1200	F1-6.001	59.600	150	F1-6.000	59.600	150	
F1-23	61.900	2.290	Open Manhole	1200	F1-7.000	59.610	150				
F1-24	61.780	2.345	Open Manhole	1200	F1-6.002	59.435	150	F1-6.001	59.435	150	
								F1-7.000	59.435	150	
F1-25	62.200	2.890	Open Manhole	1200	F1-6.003	59.310	150	F1-6.002	59.310	150	
F1-26	63.950	3.420	Open Manhole	1200	F1-8.000	60.530	150				
F1-27	63.370	3.435	Open Manhole	1200	F1-8.001	59.935	150	F1-8.000	59.935	150	
F1-28	62.740	3.560	Open Manhole	1200	F1-6.004	59.180	150	F1-6.003	59.180	150	
								F1-8.001	59.180	150	
F1-29	61.890	3.370	Open Manhole	1200	F1-6.005	58.520	150	F1-6.004	58.520	150	
F1-30	60.920	3.235	Open Manhole	1200	F1-6.006	57.685	150	F1-6.005	57.685	150	
F1-31	59.140	2.890	Open Manhole	1200	F1-1.010	56.250	150	F1-1.009	56.250	150	
								F1-6.006	56.250	150	
F1-32	59.510	3.350	Open Manhole	1200	F1-1.011	56.160	150	F1-1.010	56.160	150	
F1-33	59.500	3.425	Open Manhole	1200	F1-1.012	56.075	150	F1-1.011	56.075	150	
F1-Outfall 1	58.531	2.531	Open Manhole	1200		OUTFALL		F1-1.012	56.000	150	

Manhole Schedules for FW Network 1

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F1-1	468062.029	112144.795	468062.029	112144.795	Required	
F1-2	468066.562	112131.026	468066.562	112131.026	Required	
F1-3	468065.770	112118.805	468065.770	112118.805	Required	
F1-4	468038.365	112101.553	468038.365	112101.553	Required	
F1-5	468057.936	112101.866	468057.936	112101.866	Required	
F1-6	468067.739	112106.354	468067.739	112106.354	Required	
F1-7	468072.766	112099.674	468072.766	112099.674	Required	
F1-8	468116.862	112112.977	468116.862	112112.977	Required	
F1-9	468128.761	112097.294	468128.761	112097.294	Required	
F1-10	468117.597	112097.336	468117.597	112097.336	Required	
F1-11	468113.433	112090.678	468113.433	112090.678	Required	
F1-12	468104.689	112087.479	468104.689	112087.479	Required	
F1-13	468093.443	112087.548	468093.443	112087.548	Required	
F1-14	468082.283	112091.130	468082.283	112091.130	Required	
F1-15	468077.780	112082.385	468077.780	112082.385	Required	
F1-16	468077.357	112066.509	468077.357	112066.509	Required	
F1-17	468027.925	112038.495	468027.925	112038.495	Required	
F1-18	468049.265	112038.128	468049.265	112038.128	Required	
F1-19	468076.913	112037.652	468076.913	112037.652	Required	

Manhole Schedules for FW Network 1

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F1-20	468103.799	112036.637	468103.799	112036.637	Required	
F1-21	468186.076	112142.386	468186.076	112142.386	Required	
F1-22	468184.627	112120.172	468184.627	112120.172	Required	
F1-23	468201.032	112100.676	468201.032	112100.676	Required	
F1-24	468188.783	112098.029	468188.783	112098.029	Required	
F1-25	468192.097	112079.994	468192.097	112079.994	Required	
F1-26	468233.516	112066.054	468233.516	112066.054	Required	
F1-27	468218.857	112068.539	468218.857	112068.539	Required	
F1-28	468201.462	112063.180	468201.462	112063.180	Required	
F1-29	468184.540	112052.535	468184.540	112052.535	Required	
F1-30	468162.469	112040.544	468162.469	112040.544	Required	
F1-31	468119.980	112032.557	468119.980	112032.557	Required	
F1-32	468121.580	112019.139	468121.580	112019.139	Required	
F1-33	468124.901	112007.158	468124.901	112007.158	Required	
F1-Outfall 1	468131.809	111996.721			No Entry	

Ardent Consulting Engineers		Page 6
Suite 9, 10 Churchill Square Busines... Kings Hill West Malling, ME19 4YU	Woodcroft Lane, Lovedean Foul Water	
Date 13/08/2020 12:04 File 192931 LOVEDEAN.MDX	Designed by JH Checked by DP	
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PIPELINE SCHEDULES for FW Network 1

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)
F1-1.000	o	150	F1-1	60.790	58.010	2.630	Open Manhole	1200
F1-1.001	o	150	F1-2	60.480	57.680	2.650	Open Manhole	1200
F1-1.002	o	150	F1-3	60.180	57.430	2.600	Open Manhole	1200
F1-2.000	o	150	F1-4	59.440	57.370	1.920	Open Manhole	1200
F1-2.001	o	150	F1-5	59.650	57.125	2.375	Open Manhole	1200
F1-1.003	o	150	F1-6	59.810	57.050	2.610	Open Manhole	1200
F1-1.004	o	150	F1-7	59.620	56.995	2.475	Open Manhole	1200
F1-3.000	o	150	F1-8	60.240	57.385	2.705	Open Manhole	1200
F1-4.000	o	150	F1-9	60.090	57.330	2.610	Open Manhole	1200
F1-3.001	o	150	F1-10	59.990	57.185	2.655	Open Manhole	1200
F1-3.002	o	150	F1-11	59.840	57.130	2.560	Open Manhole	1200
F1-3.003	o	150	F1-12	59.680	57.065	2.465	Open Manhole	1200
F1-3.004	o	150	F1-13	59.530	56.990	2.390	Open Manhole	1200
F1-1.005	o	150	F1-14	59.510	56.910	2.450	Open Manhole	1200
F1-1.006	o	150	F1-15	59.340	56.845	2.345	Open Manhole	1200
F1-1.007	o	150	F1-16	59.060	56.740	2.170	Open Manhole	1200
F1-5.000	o	150	F1-17	58.100	56.875	1.075	Open Manhole	1200
F1-5.001	o	150	F1-18	58.320	56.730	1.440	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)
F1-1.000	14.496	43.9	F1-2	60.480	57.680	2.650	Open Manhole	1200
F1-1.001	12.247	49.0	F1-3	60.180	57.430	2.600	Open Manhole	1200
F1-1.002	12.606	33.2	F1-6	59.810	57.050	2.610	Open Manhole	1200
F1-2.000	19.574	79.9	F1-5	59.650	57.125	2.375	Open Manhole	1200
F1-2.001	10.781	143.7	F1-6	59.810	57.050	2.610	Open Manhole	1200
F1-1.003	8.360	152.0	F1-7	59.620	56.995	2.475	Open Manhole	1200
F1-1.004	12.789	150.5	F1-14	59.510	56.910	2.450	Open Manhole	1200
F1-3.000	15.659	78.3	F1-10	59.990	57.185	2.655	Open Manhole	1200
F1-4.000	11.164	77.0	F1-10	59.990	57.185	2.655	Open Manhole	1200
F1-3.001	7.853	142.8	F1-11	59.840	57.130	2.560	Open Manhole	1200
F1-3.002	9.311	143.2	F1-12	59.680	57.065	2.465	Open Manhole	1200
F1-3.003	11.247	150.0	F1-13	59.530	56.990	2.390	Open Manhole	1200
F1-3.004	11.721	146.5	F1-14	59.510	56.910	2.450	Open Manhole	1200
F1-1.005	9.836	151.3	F1-15	59.340	56.845	2.345	Open Manhole	1200
F1-1.006	15.882	151.3	F1-16	59.060	56.740	2.170	Open Manhole	1200
F1-1.007	28.860	148.0	F1-19	58.600	56.545	1.905	Open Manhole	1200
F1-5.000	21.343	147.2	F1-18	58.320	56.730	1.440	Open Manhole	1200
F1-5.001	27.652	149.5	F1-19	58.600	56.545	1.905	Open Manhole	1200

Ardent Consulting Engineers		Page 7
Suite 9, 10 Churchill Square Busines... Kings Hill West Malling, ME19 4YU	Woodcroft Lane, Lovedean Foul Water	
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PIPELINE SCHEDULES for FW Network 1

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)
F1-1.008	o	150	F1-19	58.600	56.545	1.905	Open Manhole	1200
F1-1.009	o	150	F1-20	58.880	56.365	2.365	Open Manhole	1200
F1-6.000	o	150	F1-21	61.780	59.880	1.750	Open Manhole	1200
F1-6.001	o	150	F1-22	61.520	59.600	1.770	Open Manhole	1200
F1-7.000	o	150	F1-23	61.900	59.610	2.140	Open Manhole	1200
F1-6.002	o	150	F1-24	61.780	59.435	2.195	Open Manhole	1200
F1-6.003	o	150	F1-25	62.200	59.310	2.740	Open Manhole	1200
F1-8.000	o	150	F1-26	63.950	60.530	3.270	Open Manhole	1200
F1-8.001	o	150	F1-27	63.370	59.935	3.285	Open Manhole	1200
F1-6.004	o	150	F1-28	62.740	59.180	3.410	Open Manhole	1200
F1-6.005	o	150	F1-29	61.890	58.520	3.220	Open Manhole	1200
F1-6.006	o	150	F1-30	60.920	57.685	3.085	Open Manhole	1200
F1-1.010	o	150	F1-31	59.140	56.250	2.740	Open Manhole	1200
F1-1.011	o	150	F1-32	59.510	56.160	3.200	Open Manhole	1200
F1-1.012	o	150	F1-33	59.500	56.075	3.275	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)
F1-1.008	26.905	149.5	F1-20	58.880	56.365	2.365	Open Manhole	1200
F1-1.009	16.688	145.1	F1-31	59.140	56.250	2.740	Open Manhole	1200
F1-6.000	22.262	79.5	F1-22	61.520	59.600	1.770	Open Manhole	1200
F1-6.001	22.529	136.5	F1-24	61.780	59.435	2.195	Open Manhole	1200
F1-7.000	12.532	71.6	F1-24	61.780	59.435	2.195	Open Manhole	1200
F1-6.002	18.337	146.7	F1-25	62.200	59.310	2.740	Open Manhole	1200
F1-6.003	19.246	148.0	F1-28	62.740	59.180	3.410	Open Manhole	1200
F1-8.000	14.868	25.0	F1-27	63.370	59.935	3.285	Open Manhole	1200
F1-8.001	18.201	24.1	F1-28	62.740	59.180	3.410	Open Manhole	1200
F1-6.004	19.992	30.3	F1-29	61.890	58.520	3.220	Open Manhole	1200
F1-6.005	25.119	30.1	F1-30	60.920	57.685	3.085	Open Manhole	1200
F1-6.006	43.233	30.1	F1-31	59.140	56.250	2.740	Open Manhole	1200
F1-1.010	13.513	150.0	F1-32	59.510	56.160	3.200	Open Manhole	1200
F1-1.011	12.433	146.3	F1-33	59.500	56.075	3.275	Open Manhole	1200
F1-1.012	12.516	166.9	F1-Outfall 1	58.531	56.000	2.381	Open Manhole	1200

Ardent Consulting Engineers		Page 8
Suite 9, 10 Churchill Square Busines...	Woodcroft Lane, Lovedean	
Kings Hill	Foul Water	
West Malling, ME19 4YU		
Date 13/08/2020 12:04	Designed by JH	
File 192931 LOVEDEAN.MDX	Checked by DP	
XP Solutions	Network 2020.1	

Area Summary for FW Network 1

Pipe Number	Gross Area (ha)	Pipe Total (ha)
1.000	0.000	0.000
1.001	0.000	0.000
1.002	0.000	0.000
2.000	0.000	0.000
2.001	0.000	0.000
1.003	0.000	0.000
1.004	0.000	0.000
3.000	0.000	0.000
4.000	0.000	0.000
3.001	0.000	0.000
3.002	0.000	0.000
3.003	0.000	0.000
3.004	0.000	0.000
1.005	0.000	0.000
1.006	0.000	0.000
1.007	0.000	0.000
5.000	0.000	0.000
5.001	0.000	0.000
1.008	0.000	0.000
1.009	0.000	0.000
6.000	0.000	0.000
6.001	0.000	0.000
7.000	0.000	0.000
6.002	0.000	0.000
6.003	0.000	0.000
8.000	0.000	0.000
8.001	0.000	0.000
6.004	0.000	0.000
6.005	0.000	0.000
6.006	0.000	0.000
1.010	0.000	0.000
1.011	0.000	0.000
1.012	0.000	0.000
	Total	Total
	0.000	0.000

Ardent Consulting Engineers		Page 9
Suite 9, 10 Churchill Square Busines... Kings Hill West Malling, ME19 4YU	Woodcroft Lane, Lovedean Foul Water	
Date 13/08/2020 12:04 File 192931 LOVEDEAN.MDX	Designed by JH Checked by DP	
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Network Classifications for FW Network 1

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
F1-1.000	F1-1	150	2.252	2.650	Unclassified	1200	0	2.630	Unclassified
F1-1.001	F1-2	150	1.809	2.650	Unclassified	1200	0	2.650	Unclassified
F1-1.002	F1-3	150	1.697	2.610	Unclassified	1200	0	2.600	Unclassified
F1-2.000	F1-4	150	1.721	2.375	Unclassified	1200	0	1.920	Unclassified
F1-2.001	F1-5	150	1.751	2.610	Unclassified	1200	0	2.375	Unclassified
F1-1.003	F1-6	150	1.816	2.610	Unclassified	1200	0	2.610	Unclassified
F1-1.004	F1-7	150	1.932	2.475	Unclassified	1200	0	2.475	Unclassified
F1-3.000	F1-8	150	2.654	2.705	Unclassified	1200	0	2.705	Unclassified
F1-4.000	F1-9	150	2.388	2.655	Unclassified	1200	0	2.610	Unclassified
F1-3.001	F1-10	150	2.549	2.655	Unclassified	1200	0	2.655	Unclassified
F1-3.002	F1-11	150	2.447	2.560	Unclassified	1200	0	2.560	Unclassified
F1-3.003	F1-12	150	2.322	2.465	Unclassified	1200	0	2.465	Unclassified
F1-3.004	F1-13	150	2.199	2.450	Unclassified	1200	0	2.390	Unclassified
F1-1.005	F1-14	150	2.149	2.450	Unclassified	1200	0	2.450	Unclassified
F1-1.006	F1-15	150	2.170	2.514	Unclassified	1200	0	2.345	Unclassified
F1-1.007	F1-16	150	1.905	2.562	Unclassified	1200	0	2.170	Unclassified
F1-5.000	F1-17	150	1.075	1.957	Unclassified	1200	0	1.075	Unclassified
F1-5.001	F1-18	150	1.440	2.478	Unclassified	1200	0	1.440	Unclassified
F1-1.008	F1-19	150	1.905	2.460	Unclassified	1200	0	1.905	Unclassified
F1-1.009	F1-20	150	2.365	2.740	Unclassified	1200	0	2.365	Unclassified
F1-6.000	F1-21	150	1.750	1.854	Unclassified	1200	0	1.750	Unclassified
F1-6.001	F1-22	150	1.746	2.195	Unclassified	1200	0	1.770	Unclassified
F1-7.000	F1-23	150	2.079	2.202	Unclassified	1200	0	2.140	Unclassified
F1-6.002	F1-24	150	2.195	2.740	Unclassified	1200	0	2.195	Unclassified
F1-6.003	F1-25	150	2.740	3.410	Unclassified	1200	0	2.740	Unclassified
F1-8.000	F1-26	150	3.270	3.710	Unclassified	1200	0	3.270	Unclassified
F1-8.001	F1-27	150	3.285	3.716	Unclassified	1200	0	3.285	Unclassified
F1-6.004	F1-28	150	3.220	3.548	Unclassified	1200	0	3.410	Unclassified
F1-6.005	F1-29	150	3.016	3.220	Unclassified	1200	0	3.220	Unclassified
F1-6.006	F1-30	150	2.527	3.085	Unclassified	1200	0	3.085	Unclassified
F1-1.010	F1-31	150	2.665	3.200	Unclassified	1200	0	2.740	Unclassified
F1-1.011	F1-32	150	2.706	3.275	Unclassified	1200	0	3.200	Unclassified
F1-1.012	F1-33	150	1.995	3.275	Unclassified	1200	0	3.275	Unclassified

Free Flowing Outfall Details for FW Network 1

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F1-1.012	F1-Outfall 1	58.531	56.000	56.990	1200	0

Simulation Criteria for FW Network 1

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/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 Offline Controls	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
		Number of Storage Structures	0
		Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	19.300
Return Period (years)	5	Ratio R	0.350
Region England and Wales	Profile Type	Summer	

Ardent Consulting Engineers		Page 10
Suite 9, 10 Churchill Square Busines... Kings Hill West Malling, ME19 4YU	Woodcroft Lane, Lovedean Foul Water	
Date 13/08/2020 12:04	Designed by JH	
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Synthetic Rainfall Details

Cv (Summer) 0.750 Storm Duration (mins) 30
Cv (Winter) 0.840