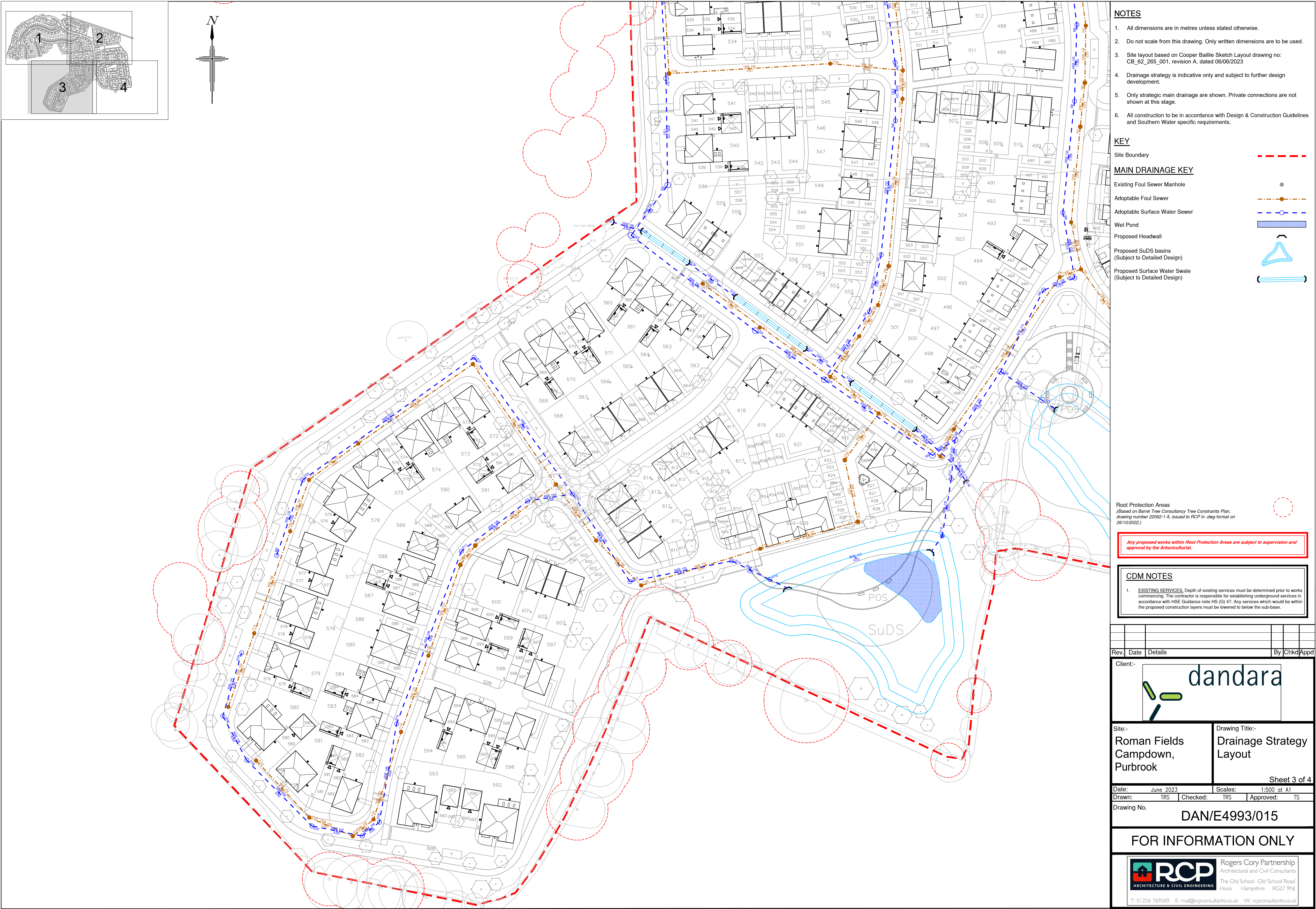
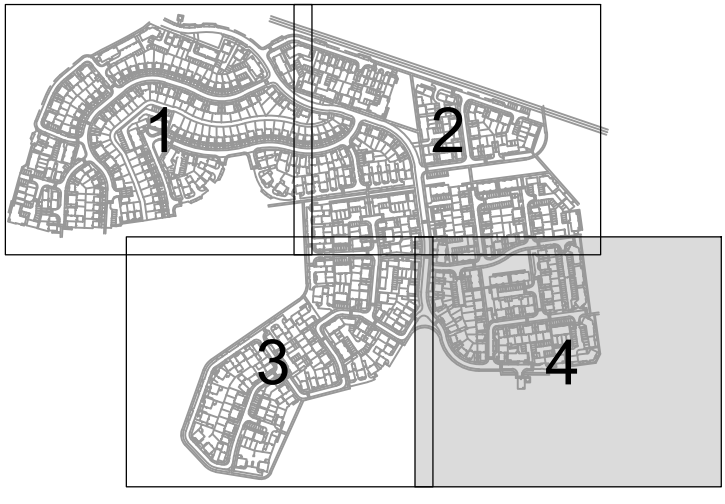
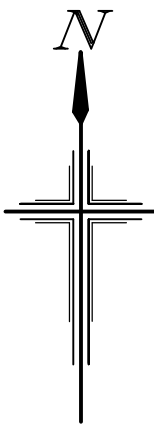
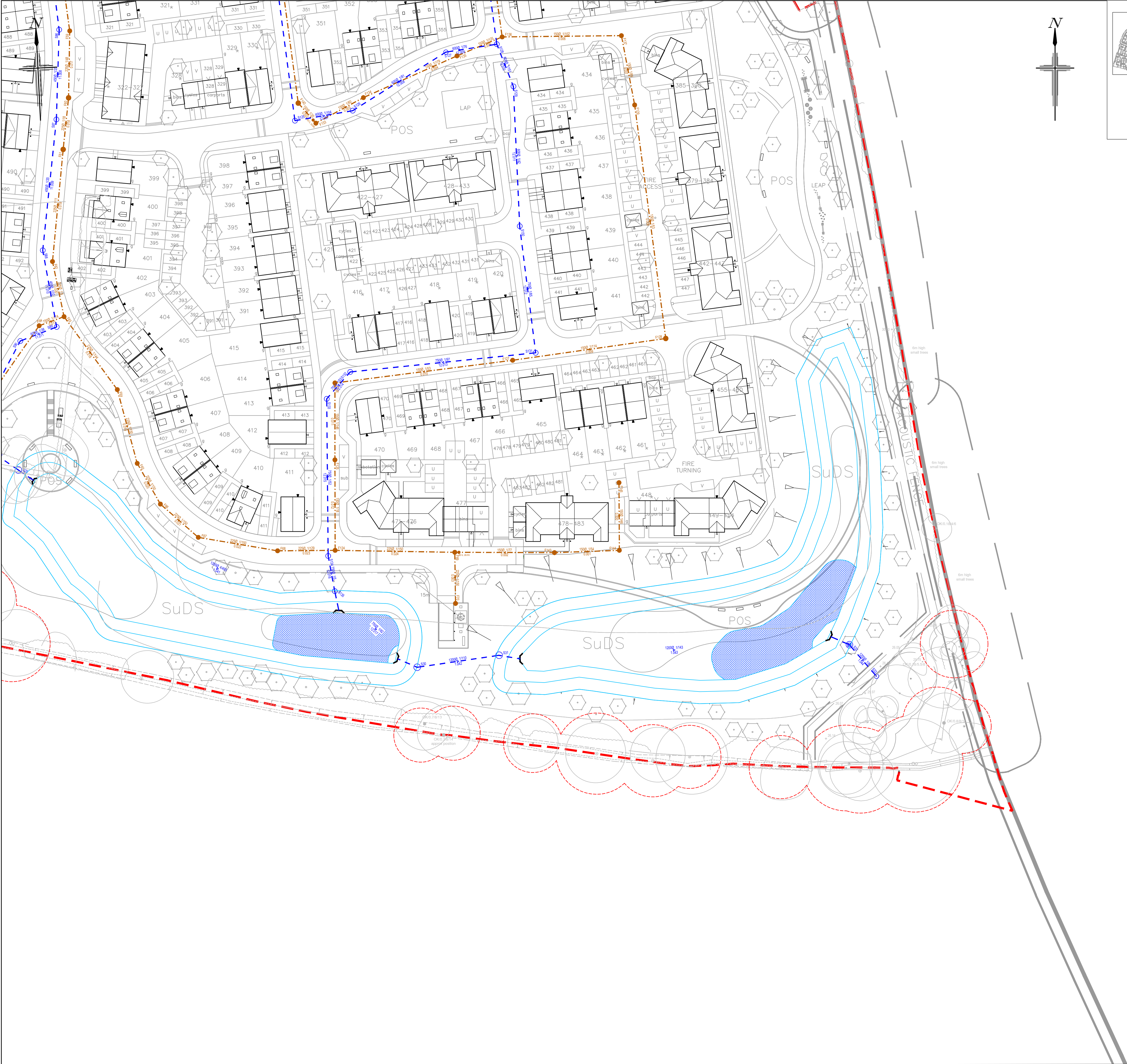






NOTES

1. All dimensions are in metres unless stated otherwise.
2. Do not scale from this drawing. Only written dimensions are to be used.
3. Site layout based on Cooper Baillie Sketch Layout drawing no: CB_62_265_001, revision A, dated 06/06/2023
4. Drainage strategy is indicative only and subject to further design development.
5. Only strategic main drainage are shown. Private connections are not shown at this stage.
6. All construction to be in accordance with Design & Construction Guidelines and Southern Water specific requirements.

KEY

Site Boundary



MAIN DRAINAGE KEY

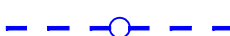
Existing Foul Sewer Manhole



Adoptable Foul Sewer



Adoptable Surface Water Sewer



Wet Pond



Proposed Headwall



Proposed SuDS basins
(Subject to Detailed Design)



Proposed Surface Water Swale
(Subject to Detailed Design)



Root Protection Areas
(Based on Barrel Tree Consultancy Tree Constraints Plan,
drawing number 22062-1 A, issued to RCP in .dwg format on
26/10/2022.)



Any proposed works within Root Protection Areas are subject to supervision and approval by the Arboriculturalist.

CDM NOTES

1. **EXISTING SERVICES.** Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

Rev.	Date	Details	By	Chkd	Appd

Client:-



Site:- Roman Fields
Campdown,
Purbrook

Drawing Title:-
Drainage Strategy
Layout

Sheet 1 of 4

Date:	June 2023	Scales:	1:500 at A1
Drawn:	TRS	Checked:	TRS
Approved:	TS		

Drawing No. DAN/E4993/016

FOR INFORMATION ONLY



Rogers Cory Partnership
Architectural and Civil Consultants
The Old School Old School Road
Hook Hampshire RG27 9NJ
T: 01256 769269 E: mail@rcpconsultants.co.uk W: rcpconsultants.co.uk

Appendix (F)

Microdrainge Calculations

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 1

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	19.400	Add Flow / Climate Change (%)	0
Ratio R	0.350	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Network 1

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	23.890	0.286	83.6	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	9.301	0.265	35.1	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	28.384	0.742	38.3	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	20.760	0.434	47.8	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	22.446	0.768	29.2	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.005	23.581	0.759	31.1	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.006	20.002	0.553	36.2	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.007	23.099	0.115	200.9	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.008	28.053	0.140	200.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.009	30.769	0.154	199.8	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.010	24.279	0.121	200.7	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.23	50.109	0.179	0.0	0.0	0.0	1.72	121.6	24.2
1.001	50.00	5.29	49.824	0.358	0.0	0.0	0.0	2.66	188.2	48.5
1.002	50.00	5.48	49.559	0.537	0.0	0.0	0.0	2.55	180.3	72.7
1.003	50.00	5.59	48.817	0.716	0.0	0.0	0.0	2.95	468.4	97.0
1.004	50.00	5.69	48.383	0.895	0.0	0.0	0.0	3.77	599.9	121.2
1.005	50.00	5.80	47.614	1.074	0.0	0.0	0.0	3.66	581.8	145.4
1.006	50.00	5.90	46.856	1.253	0.0	0.0	0.0	3.39	539.0	169.7
1.007	50.00	6.07	46.302	1.432	0.0	0.0	0.0	2.21	1404.2	193.9
1.008	50.00	6.28	46.187	1.611	0.0	0.0	0.0	2.21	1405.9	218.1
1.009	50.00	6.52	45.896	1.790	0.0	0.0	0.0	2.21	1407.9	242.4
1.010	50.00	6.70	45.743	1.969	0.0	0.0	0.0	2.21	1404.9	266.6

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Network Design Table for Surface Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.011	17.034	0.085	200.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.012	18.147	0.091	199.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.013	21.643	0.108	200.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.014	14.820	0.074	200.3	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
2.000	25.374	0.266	95.4	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
2.001	27.101	0.281	96.4	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.002	25.539	0.251	101.7	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
2.003	28.546	1.024	27.9	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
2.004	45.505	1.250	36.4	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
2.005	21.557	0.990	21.8	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
2.006	16.529	1.490	11.1	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
2.007	20.616	2.817	7.3	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.015	33.912	0.170	199.5	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.016	18.535	0.093	199.3	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.017	27.145	0.136	199.6	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.018	16.877	0.914	18.5	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.019	11.696	0.678	17.3	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.020	14.024	0.671	20.9	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.021	35.226	0.843	41.8	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.022	22.310	0.535	41.7	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.011	50.00	6.83	45.621	2.148	0.0	0.0	0.0	2.21	1405.8	290.9
1.012	50.00	6.96	45.536	2.327	0.0	0.0	0.0	2.22	1409.3	315.1
1.013	50.00	7.13	45.445	2.506	0.0	0.0	0.0	2.21	1405.8	339.3
1.014	50.00	7.24	45.337	2.685	0.0	0.0	0.0	2.21	1406.3	363.6
2.000	50.00	5.26	53.782	0.179	0.0	0.0	0.0	1.61	113.8	24.2
2.001	50.00	5.54	53.516	0.358	0.0	0.0	0.0	1.60	113.2	48.5
2.002	50.00	5.76	53.235	0.537	0.0	0.0	0.0	2.02	320.5	72.7
2.003	50.00	5.88	52.984	0.716	0.0	0.0	0.0	3.86	614.3	97.0
2.004	50.00	6.10	51.960	0.895	0.0	0.0	0.0	3.38	537.3	121.2
2.005	50.00	6.19	50.710	1.074	0.0	0.0	0.0	4.37	695.3	145.4
2.006	50.00	6.23	49.720	1.253	0.0	0.0	0.0	6.13	975.0	169.7
2.007	50.00	6.28	48.230	1.432	0.0	0.0	0.0	7.55	1200.9	193.9
1.015	50.00	7.49	45.263	4.296	0.0	0.0	0.0	2.21	1409.1	581.7
1.016	50.00	7.63	45.093	4.475	0.0	0.0	0.0	2.22	1409.7	606.0
1.017	50.00	7.84	45.001	4.654	0.0	0.0	0.0	2.21	1408.7	630.2
1.018	50.00	7.88	44.733	4.833	0.0	0.0	0.0	7.31	4650.3	654.4
1.019	50.00	7.90	43.820	5.012	0.0	0.0	0.0	7.56	4811.4	678.7
1.020	50.00	7.94	43.142	5.191	0.0	0.0	0.0	6.87	4370.5	702.9
1.021	50.00	8.06	42.471	5.370	0.0	0.0	0.0	4.85	3088.4	727.2
1.022	50.00	8.13	41.477	5.549	0.0	0.0	0.0	4.86	3091.6	751.4

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Network Design Table for Surface Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.023	28.812	0.714	40.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.024	29.528	0.308	95.9	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.025	19.208	0.720	26.7	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
3.000	28.804	0.941	30.6	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
3.001	25.297	0.970	26.1	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.002	17.015	0.620	27.4	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.003	11.446	0.640	17.9	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.026	14.545	1.500	9.7	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
1.027	41.156	0.500	82.3	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit	
4.000	48.462	2.302	21.1	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
4.001	20.173	0.528	38.2	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.002	28.714	1.100	26.1	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.003	23.828	0.260	91.6	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
4.004	41.675	0.675	61.7	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
5.000	25.857	1.323	19.5	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
5.001	38.059	2.480	15.3	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.005	28.053	0.490	57.3	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.023	50.00	8.23	40.942	5.728	0.0	0.0	0.0	4.94	3143.0	775.6
1.024	50.00	8.38	40.228	5.907	0.0	0.0	0.0	3.20	2036.2	799.9
1.025	50.00	8.44	39.920	6.086	0.0	0.0	0.0	6.08	3867.4	824.1
3.000	50.00	5.17	42.671	0.179	0.0	0.0	0.0	2.85	201.6	24.2
3.001	50.00	5.30	41.730	0.358	0.0	0.0	0.0	3.09	218.5	48.5
3.002	50.00	5.40	40.760	0.537	0.0	0.0	0.0	3.01	213.0	72.7
3.003	50.00	5.45	40.140	0.716	0.0	0.0	0.0	3.74	264.0	97.0
1.026	50.00	8.46	39.200	6.981	0.0	0.0	0.0	10.09	6420.4	945.3
1.027	49.67	8.66	37.700	7.160	0.0	0.0	0.0	3.46	2198.1	963.1
4.000	50.00	5.23	52.710	0.179	0.0	0.0	0.0	3.44	243.3	24.2
4.001	50.00	5.37	50.408	0.358	0.0	0.0	0.0	2.55	180.4	48.5
4.002	50.00	5.52	49.880	0.537	0.0	0.0	0.0	3.09	218.4	72.7
4.003	50.00	5.71	48.780	0.716	0.0	0.0	0.0	2.12	337.9	97.0
4.004	50.00	5.98	48.520	0.895	0.0	0.0	0.0	2.59	412.1	121.2
5.000	50.00	5.12	51.648	0.179	0.0	0.0	0.0	3.57	252.5	24.2
5.001	50.00	5.28	50.325	0.358	0.0	0.0	0.0	4.03	285.1	48.5
4.005	50.00	6.12	47.620	1.432	0.0	0.0	0.0	3.22	911.2	193.9

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Network Design Table for Surface Network 1												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design	
4.006	46.819	4.446	10.5	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit		
4.007	10.451	1.838	5.7	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.008	9.231	0.472	19.6	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.009	13.168	0.234	56.3	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
6.000	54.275	1.874	29.0	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit		
6.001	20.754	0.950	21.8	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit		
4.010	27.551	0.470	58.6	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.011	16.044	0.890	18.0	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.012	14.659	0.320	45.8	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.013	10.046	0.150	67.0	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
4.014	39.746	0.960	41.4	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
1.028	13.874	0.231	60.1	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
1.029	25.421	0.424	60.0	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
1.030	19.566	0.326	60.0	0.179	0.00	0.0	0.600	o	900	Pipe/Conduit		
7.000	13.448	0.409	32.9	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit		
7.001	33.047	0.877	37.7	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit		
7.002	56.770	4.462	12.7	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
4.006	50.00	6.23	47.130	1.611	0.0	0.0	0.0	7.53	2129.6	218.1		
4.007	50.00	6.24	42.684	1.790	0.0	0.0	0.0	13.18	8386.8	242.4		
4.008	50.00	6.26	40.846	1.969	0.0	0.0	0.0	7.10	4518.3	266.6		
4.009	50.00	6.31	40.374	2.148	0.0	0.0	0.0	4.18	2660.2	290.9		
6.000	50.00	5.31	43.114	0.179	0.0	0.0	0.0	2.93	207.3	24.2		
6.001	50.00	5.41	41.240	0.358	0.0	0.0	0.0	3.38	238.8	48.5		
4.010	50.00	6.42	39.990	2.685	0.0	0.0	0.0	4.10	2606.3	363.6		
4.011	50.00	6.46	39.520	2.864	0.0	0.0	0.0	7.40	4706.5	387.8		
4.012	50.00	6.51	38.630	3.043	0.0	0.0	0.0	4.64	2949.3	412.1		
4.013	50.00	6.56	38.310	3.222	0.0	0.0	0.0	3.83	2437.8	436.3		
4.014	50.00	6.69	38.160	3.401	0.0	0.0	0.0	4.88	3102.8	460.5		
1.028	49.51	8.72	37.200	10.740	0.0	0.0	0.0	4.05	2574.7	1440.0		
1.029	49.21	8.82	36.969	10.919	0.0	0.0	0.0	4.05	2577.0	1455.3		
1.030	48.99	8.90	36.545	11.098	0.0	0.0	0.0	4.05	2575.6	1472.5		
7.000	50.00	5.08	42.266	0.179	0.0	0.0	0.0	2.75	194.4	24.2		
7.001	50.00	5.30	41.858	0.358	0.0	0.0	0.0	2.57	181.6	48.5		
7.002	50.00	5.51	40.981	0.537	0.0	0.0	0.0	4.43	313.2	72.7		
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Network Design Table for Surface Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
11.005	37.239	1.812	20.5	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.006	23.975	1.169	20.5	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.007	76.098	3.713	20.5	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.008	23.854	1.167	20.4	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.009	34.978	1.710	20.5	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.010	20.682	0.959	21.6	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
11.011	10.377	0.271	38.3	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
11.012	28.719	2.007	14.3	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.040	15.730	1.640	9.6	0.179	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.041	118.233	0.240	492.6	0.179	0.00	0.0	0.600	o	1200	Pipe/Conduit	
12.000	42.366	1.312	32.3	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
12.001	14.649	0.424	34.6	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.002	25.659	1.181	21.7	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.003	43.994	2.125	20.7	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.004	4.046	0.360	11.2	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.005	30.968	2.850	10.9	0.179	0.00	0.0	0.600	o	300	Pipe/Conduit	
12.006	77.452	1.940	39.9	0.179	0.00	0.0	0.600	o	450	Pipe/Conduit	
12.007	15.571	0.150	103.8	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
12.008	29.250	0.360	81.3	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
12.009	13.705	0.180	76.1	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
11.005	50.00	5.83	42.358	1.074	0.0	0.0	0.0	4.50	715.8	145.4
11.006	50.00	5.92	40.545	1.253	0.0	0.0	0.0	4.50	716.4	169.7
11.007	50.00	6.21	39.377	1.432	0.0	0.0	0.0	4.51	716.7	193.9
11.008	50.00	6.29	35.664	1.611	0.0	0.0	0.0	4.51	717.8	218.1
11.009	50.00	6.42	34.497	1.790	0.0	0.0	0.0	4.51	717.4	242.4
11.010	50.00	6.50	32.787	1.969	0.0	0.0	0.0	4.39	698.7	266.6
11.011	50.00	6.54	31.828	2.148	0.0	0.0	0.0	3.94	1115.0	290.9
11.012	50.00	6.62	31.557	2.327	0.0	0.0	0.0	6.46	1826.4	315.1
1.040	46.40	9.91	29.100	19.869	0.0	0.0	0.0	11.16	9661.5	2496.6
1.041	43.77	11.08	27.000	20.048	0.0	0.0	0.0	1.68	1898.6«	2496.6
12.000	50.00	5.25	43.812	0.179	0.0	0.0	0.0	2.78	196.2	24.2
12.001	50.00	5.35	42.500	0.358	0.0	0.0	0.0	2.68	189.7	48.5
12.002	50.00	5.47	42.076	0.537	0.0	0.0	0.0	3.39	239.5	72.7
12.003	50.00	5.68	40.895	0.716	0.0	0.0	0.0	3.47	245.4	97.0
12.004	50.00	5.70	38.770	0.895	0.0	0.0	0.0	4.72	333.3	121.2
12.005	50.00	5.80	38.410	1.074	0.0	0.0	0.0	4.80	339.0	145.4
12.006	50.00	6.20	35.560	1.253	0.0	0.0	0.0	3.23	513.0	169.7
12.007	50.00	6.31	33.620	1.432	0.0	0.0	0.0	2.39	675.8	193.9
12.008	50.00	6.49	33.470	1.611	0.0	0.0	0.0	2.70	764.3	218.1
12.009	50.00	6.58	33.110	1.790	0.0	0.0	0.0	2.79	789.7	242.4

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Network Design Table for Surface Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
13.000	60.698	1.357	44.7	0.179	5.00	0.0	0.600	o	300	Pipe/Conduit	
12.010	12.074	0.080	150.9	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
12.011	37.179	0.880	42.2	0.179	0.00	0.0	0.600	o	600	Pipe/Conduit	
12.012	33.916	0.397	85.4	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
12.013	49.557	0.512	96.8	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
12.014	9.475	0.180	52.6	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
12.015	41.777	0.810	51.6	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
12.016	9.504	1.920	5.0	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
12.017	29.822	0.480	62.1	0.179	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.042	22.007	0.200	110.0	0.000	0.00	0.0	0.600	o	1200	Pipe/Conduit	
1.043	93.131	0.650	143.3	0.000	0.00	0.0	0.600	o	1200	Pipe/Conduit	
1.044	11.050	1.471	7.5	0.000	0.00	0.0	0.600	o	1200	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
13.000	50.00	5.43	34.287	0.179	0.0	0.0	0.0	2.36	166.6	24.2
12.010	50.00	6.68	32.930	2.148	0.0	0.0	0.0	1.98	559.8	290.9
12.011	50.00	6.84	32.850	2.327	0.0	0.0	0.0	3.75	1061.4	315.1
12.012	50.00	7.03	31.970	2.506	0.0	0.0	0.0	3.03	1338.2	339.3
12.013	50.00	7.32	31.572	2.685	0.0	0.0	0.0	2.84	1256.9	363.6
12.014	50.00	7.36	31.060	2.864	0.0	0.0	0.0	3.86	1706.4	387.8
12.015	50.00	7.54	30.880	3.043	0.0	0.0	0.0	3.90	1723.9	412.1
12.016	50.00	7.55	30.070	3.222	0.0	0.0	0.0	12.63	5577.6	436.3
12.017	50.00	7.69	28.150	3.401	0.0	0.0	0.0	3.55	1570.2	460.5
1.042	43.56	11.18	26.760	23.449	0.0	0.0	0.0	3.57	4033.4	2766.4
1.043	42.58	11.68	26.560	23.449	0.0	0.0	0.0	3.12	3532.9	2766.4
1.044	42.55	11.69	25.910	23.449	0.0	0.0	0.0	13.69	15479.2	2766.4

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<u>Simulation Criteria for Surface Network 1</u> 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) 1920 Foul Sewage per hectare (l/s) 0.000 Output Interval (mins) 16 Number of Input Hydrographs 0 Number of Storage Structures 4 Number of Online Controls 3 Number of Time/Area Diagrams 0 Number of Offline Controls 3 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FSR Profile Type Summer Return Period (years) 100 Cv (Summer) 0.750 Region England and Wales Cv (Winter) 0.840 M5-60 (mm) 19.400 Storm Duration (mins) 960 Ratio R 0.350		
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Online Controls for Surface Network 1

Hydro-Brake® Optimum Manhole: S16, DS/PN: 1.028, Volume (m³): 53.6

Unit Reference	MD-CCU-0477-3000-1500-3000
Design Head (m)	1.500
Design Flow (l/s)	300.0
Flush-Flo™	Calculated
Objective	Linear discharge profile
Application	Surface
Sump Available	Yes
Diameter (mm)	477
Invert Level (m)	37.200
Minimum Outlet Pipe Diameter (mm)	500
Suggested Manhole Diameter (mm)	Site Specific Design (Contact Hydro International)

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.500	300.0	Kick-Flo®	0.756	217.0
Flush-Flo™	0.686	223.3	Mean Flow over Head Range	-	189.9

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	12.5	1.200	268.8	3.000	421.8	7.000	640.1
0.200	45.6	1.400	290.0	3.500	455.1	7.500	662.2
0.300	91.7	1.600	309.7	4.000	486.0	8.000	683.6
0.400	140.2	1.800	328.1	4.500	515.0	8.500	704.3
0.500	178.4	2.000	345.6	5.000	542.4	9.000	724.4
0.600	209.7	2.200	362.2	5.500	568.4	9.500	743.9
0.800	220.6	2.400	378.0	6.000	593.3		
1.000	245.8	2.600	393.2	6.500	617.1		

Orifice Manhole: S116, DS/PN: 9.013, Volume (m³): 17.9

Diameter (m) 0.044 Discharge Coefficient 0.600 Invert Level (m) 31.200

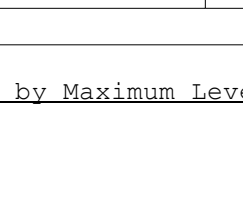
Hydro-Brake® Optimum Manhole: S32, DS/PN: 1.044, Volume (m³): 112.4

Unit Reference	MD-SHE-0392-1204-3500-1204
Design Head (m)	3.500
Design Flow (l/s)	120.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	392
Invert Level (m)	25.910

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<u>Offline Controls for Surface Network 1</u> <u>Weir Manhole: S63, DS/PN: 1.027, Loop to PN: 1.029</u> Discharge Coef 0.544 Width (m) 1.000 Invert Level (m) 39.000 <u>Weir Manhole: S15, DS/PN: 4.014, Loop to PN: 1.029</u> Discharge Coef 0.544 Width (m) 1.000 Invert Level (m) 39.000 <u>Weir Manhole: S16, DS/PN: 1.028, Loop to PN: 1.029</u> Discharge Coef 0.544 Width (m) 3.000 Invert Level (m) 39.000		
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<u>Storage Structures for Surface Network 1</u> <u>Tank or Pond Manhole: S16, DS/PN: 1.028</u> Invert Level (m) 37.200 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>954.0</td><td>0.800</td><td>1419.0</td><td>1.800</td><td>2023.0</td></tr></table> <u>Tank or Pond Manhole: S116, DS/PN: 9.013</u> Invert Level (m) 31.200 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1189.0</td><td>0.800</td><td>1709.0</td><td>1.800</td><td>2288.0</td></tr></table> <u>Tank or Pond Manhole: S29, DS/PN: 1.041</u> Invert Level (m) 27.000 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1331.0</td><td>0.800</td><td>2087.0</td><td>1.800</td><td>2902.0</td></tr></table> <u>Tank or Pond Manhole: S32, DS/PN: 1.044</u> Invert Level (m) 27.000 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1927.0</td><td>0.800</td><td>2879.0</td><td>1.800</td><td>3958.0</td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	954.0	0.800	1419.0	1.800	2023.0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1189.0	0.800	1709.0	1.800	2288.0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1331.0	0.800	2087.0	1.800	2902.0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1927.0	0.800	2879.0	1.800	3958.0
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)																																													
0.000	954.0	0.800	1419.0	1.800	2023.0																																													
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)																																													
0.000	1189.0	0.800	1709.0	1.800	2288.0																																													
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)																																													
0.000	1331.0	0.800	2087.0	1.800	2902.0																																													
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)																																													
0.000	1927.0	0.800	2879.0	1.800	3958.0																																													
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	4
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	3	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.350
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	45

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	S36	60 Summer	100	+45%	100/60 Summer				50.573
1.001	S37	60 Summer	100	+45%	100/60 Summer				50.464
1.002	S38	60 Summer	100	+45%	100/60 Summer				50.188
1.003	S39	60 Summer	100	+45%					49.102
1.004	S40	60 Summer	100	+45%					48.809
1.005	S41	60 Summer	100	+45%	100/60 Summer				48.513
1.006	S42	60 Summer	100	+45%	100/60 Summer				48.097
1.007	S43	60 Summer	100	+45%	100/60 Summer				47.551
1.008	S44	60 Summer	100	+45%	100/60 Summer				47.514
1.009	S45	60 Summer	100	+45%	100/60 Summer				47.470
1.010	S46	60 Summer	100	+45%	100/60 Summer				47.420
1.011	S47	60 Summer	100	+45%	100/60 Summer				47.367
1.012	S48	60 Summer	100	+45%	100/60 Summer				47.314
1.013	S49	60 Summer	100	+45%	100/60 Summer				47.249
1.014	S50	60 Summer	100	+45%	100/60 Summer				47.169
2.000	S70	60 Summer	100	+45%	100/60 Summer				54.174
2.001	S71	60 Summer	100	+45%	100/60 Summer				54.057
2.002	S72	60 Summer	100	+45%					53.537
2.003	S73	60 Summer	100	+45%					53.220

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S36	0.163	0.000	0.61	66.0	SURCHARGED		
1.001	S37	0.340	0.000	1.01	130.6	SURCHARGED		
1.002	S38	0.329	0.000	1.20	195.8	SURCHARGED		
1.003	S39	-0.165	0.000	0.71	262.0	OK		
1.004	S40	-0.024	0.000	0.66	325.9	OK		
1.005	S41	0.449	0.000	0.78	375.0	SURCHARGED		
1.006	S42	0.791	0.000	1.01	424.8	FLOOD RISK		
1.007	S43	0.349	0.000	0.50	481.5	FLOOD RISK		
1.008	S44	0.427	0.000	0.56	537.9	SURCHARGED		
1.009	S45	0.674	0.000	0.62	597.3	SURCHARGED		
1.010	S46	0.777	0.000	0.68	647.6	SURCHARGED		
1.011	S47	0.846	0.000	0.79	704.2	FLOOD RISK		
1.012	S48	0.878	0.000	0.83	760.1	SURCHARGED		
1.013	S49	0.904	0.000	0.85	815.1	SURCHARGED		
1.014	S50	0.932	0.000	1.02	869.7	SURCHARGED		
2.000	S70	0.092	0.000	0.67	68.6	SURCHARGED		
2.001	S71	0.241	0.000	1.34	136.0	SURCHARGED		
2.002	S72	-0.148	0.000	0.75	203.3	OK		
2.003	S73	-0.214	0.000	0.52	271.2	OK		

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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>										
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	
2.004	S74	60 Summer	100	+45%					52.249	
2.005	S75	60 Summer	100	+45%					51.007	
2.006	S76	60 Summer	100	+45%					50.007	
2.007	S77	60 Summer	100	+45%					48.484	
1.015	S51	60 Summer	100	+45%	100/60 Summer				47.090	
1.016	S52	60 Summer	100	+45%	100/60 Summer				46.667	
1.017	S53	60 Summer	100	+45%	100/60 Summer				46.212	
1.018	S54	60 Summer	100	+45%					45.321	
1.019	S55	60 Summer	100	+45%					44.489	
1.020	S56	60 Summer	100	+45%					43.891	
1.021	S57	60 Summer	100	+45%					43.360	
1.022	S58	60 Summer	100	+45%	100/60 Summer				42.792	
1.023	S59	60 Summer	100	+45%	100/60 Summer				42.197	
1.024	S60	60 Summer	100	+45%	100/60 Summer				41.572	
1.025	S61	60 Summer	100	+45%	100/60 Summer				40.919	
3.000	S66	60 Summer	100	+45%					42.801	
3.001	S67	60 Summer	100	+45%	100/60 Summer				42.176	
3.002	S68	60 Summer	100	+45%	100/60 Summer				41.761	
3.003	S69	60 Summer	100	+45%	100/60 Summer				41.091	
1.026	S62	60 Summer	100	+45%	100/60 Summer				40.245	
1.027	S63	60 Winter	100	+45%	100/60 Summer		100/60 Summer	16	39.471	
4.000	S1	60 Summer	100	+45%					52.824	
4.001	S2	60 Summer	100	+45%	100/60 Summer				50.756	
4.002	S3	60 Summer	100	+45%	100/60 Summer				50.343	
4.003	S4	60 Summer	100	+45%					49.139	
4.004	S5	60 Summer	100	+45%					48.870	
5.000	S34	60 Summer	100	+45%					51.763	
5.001	S35	60 Summer	100	+45%					50.485	
4.005	S6	60 Summer	100	+45%					48.034	
4.006	S7	60 Summer	100	+45%					47.374	
4.007	S8	60 Summer	100	+45%					42.978	
4.008	S9	60 Summer	100	+45%					41.302	
4.009	S10	60 Summer	100	+45%					40.983	
6.000	S64	60 Summer	100	+45%					43.238	
6.001	S65	60 Summer	100	+45%					41.425	
4.010	S11	60 Summer	100	+45%					40.547	
4.011	S12	60 Summer	100	+45%					39.991	
4.012	S13	60 Summer	100	+45%	100/60 Summer				39.615	
4.013	S14	60 Summer	100	+45%	100/60 Summer				39.330	
4.014	S15	120 Winter	100	+45%	100/60 Summer		100/60 Summer	16	39.265	
1.028	S16	120 Winter	100	+45%	100/60 Summer		100/60 Summer	16	39.248	
1.029	S17	60 Winter	100	+45%	100/60 Winter				38.139	
1.030	S18	60 Winter	100	+45%	100/60 Winter				37.711	
7.000	S91	60 Summer	100	+45%					42.406	
7.001	S92	60 Summer	100	+45%					42.076	
7.002	S93	60 Summer	100	+45%					41.175	
1.031	S19	120 Winter	100	+45%	100/60 Winter				37.274	
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Micro
Drainage

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PN	US/MH Name	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)			Flow (l/s)		
1.031	S19	0.155	0.000	1.31		1575.6	SURCHARGED	

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Innovyze				Network 2017.1.2				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.032	S20	120 Winter	100	+45%				
1.033	S21	120 Winter	100	+45%				
1.034	S22	120 Winter	100	+45%				
1.035	S23	120 Winter	100	+45%				
1.036	S24	120 Winter	100	+45%	100/60 Winter			
8.000	S94	60 Summer	100	+45%				
8.001	S95	60 Summer	100	+45%				
8.002	S96	60 Summer	100	+45%	100/60 Summer			
8.003	S97	60 Summer	100	+45%	100/60 Summer			
8.004	S98	60 Summer	100	+45%				
1.037	S25	120 Winter	100	+45%				
1.038	S26	120 Winter	100	+45%	100/60 Summer			
9.000	S104	60 Summer	100	+45%	100/60 Summer			
9.001	S105	60 Summer	100	+45%	100/60 Summer			
9.002	S106	60 Summer	100	+45%	100/60 Summer	100/60 Summer		
9.003	S107	60 Summer	100	+45%	100/60 Summer	100/60 Summer		
9.004	S108	60 Summer	100	+45%	100/60 Summer			
9.005	S109	60 Summer	100	+45%	100/60 Summer			
9.006	S110	60 Summer	100	+45%	100/60 Summer			
9.007	S111	60 Summer	100	+45%	100/60 Summer			
9.008	S112	60 Summer	100	+45%	100/60 Summer			
10.000	S99	60 Summer	100	+45%				
10.001	S100	60 Summer	100	+45%				
10.002	S101	60 Summer	100	+45%				
9.009	S102	60 Summer	100	+45%	100/60 Summer			
9.010	S113	60 Summer	100	+45%	100/60 Summer			
9.011	S114	60 Summer	100	+45%	100/60 Summer			
9.012	S115	60 Summer	100	+45%	100/60 Summer			
9.013	S116	1440 Winter	100	+45%	100/60 Summer			
9.014	S117	60 Summer	100	+45%				
1.039	S27	120 Winter	100	+45%				
11.000	S78	60 Summer	100	+45%				
11.001	S79	60 Summer	100	+45%				
11.002	S80	60 Summer	100	+45%	100/60 Summer			
11.003	S81	60 Summer	100	+45%	100/60 Summer			
11.004	S82	60 Summer	100	+45%				
11.005	S83	60 Summer	100	+45%				
11.006	S84	60 Summer	100	+45%				
11.007	S85	60 Summer	100	+45%				
11.008	S86	60 Summer	100	+45%	100/60 Summer			
11.009	S87	60 Summer	100	+45%	100/60 Summer			
11.010	S88	60 Summer	100	+45%	100/60 Summer			
11.011	S89	60 Summer	100	+45%	100/60 Summer			
11.012	S90	60 Summer	100	+45%				
1.040	S28	60 Summer	100	+45%				
1.041	S29	960 Winter	100	+45%	100/60 Summer			
12.000	S118	60 Summer	100	+45%				
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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									

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PN	US/MH Name	Water	Surcharged	Flooded			Pipe	Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)		
12.000	S118	43.941	-0.171	0.000	0.38		69.9	OK	

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Network 2017.1.2

PN	US/MH Name	Water	Surcharged	Flooded			Pipe	Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)		
1.044	S32	29.468	2.358	0.000	0.02		120.7	FLOOD RISK	