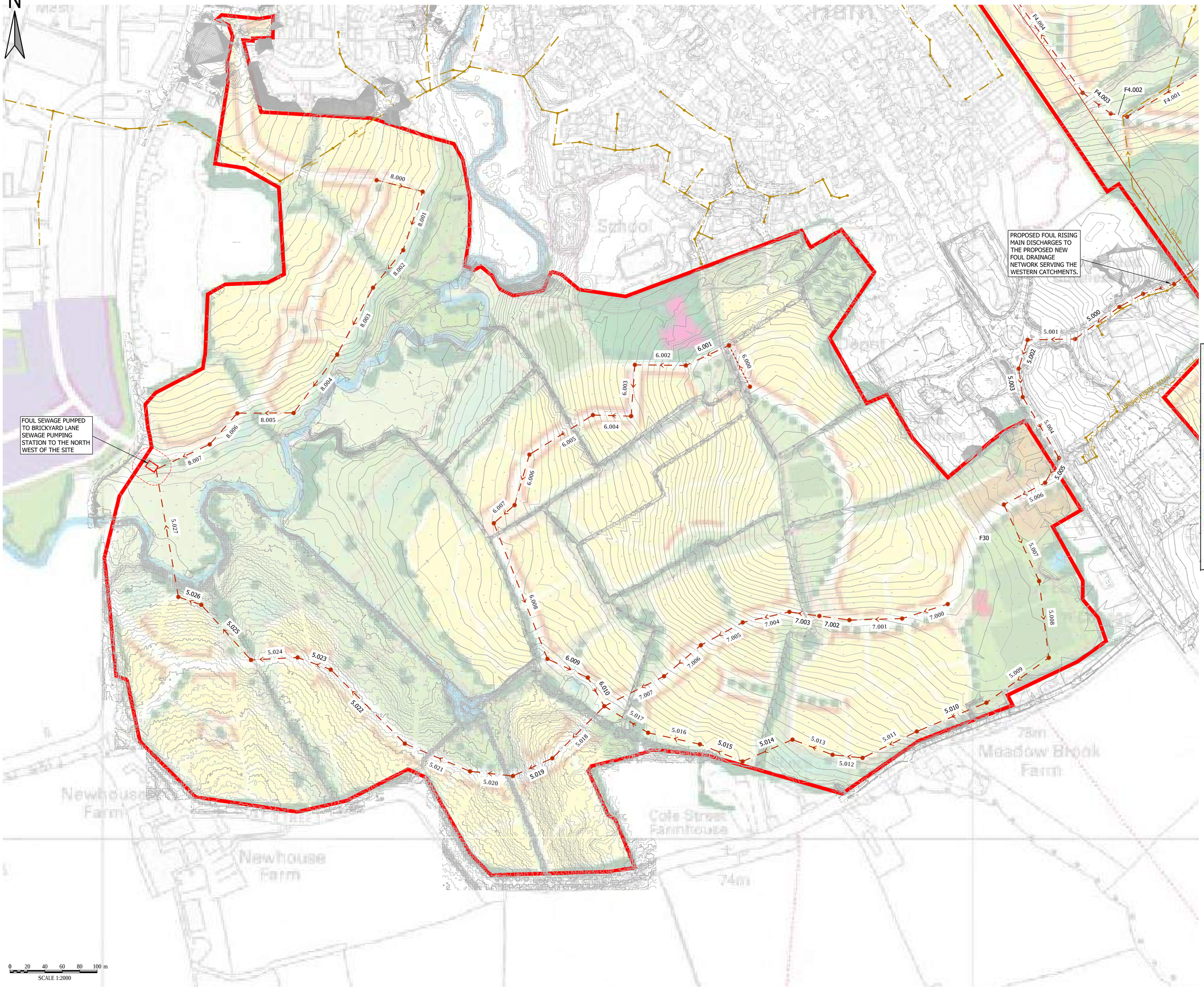
DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS



GENERAL NOTES

1. DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS
3. THE CONTRACTOR SHOULD SITE CHECK ALL EXISTING DIMENSIONS SHOWN. ANY DISCREPANCIES ON THIS DRAWING IDENTIFIED BY THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION ON SITE
4. THE CONTRACTOR SHALL CONFORM TO ALL STATUTORY AUTHORITY REQUIREMENTS, CHECKING WITH THE EMPLOYER/CLIENT TO IDENTIFY BOTH BELOW GROUND AND OVERHEAD SERVICES. CONTRACTOR TO FULLY COMPLY WITH ALL CDM, H&S AND PARTY WALL ACTS THAT ARE CURRENT. ALL BS REFERENCES ARE TO CURRENT EDITIONS.
5. ALL TEMPORARY WORKS FOR FORMWORK, EXCAVATIONS ETC., TO BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR.
6. ALL LEVELS ARE IN METRES (A.O.D.)

KEY

- PROPOSED FOUL SEWER
- PROPOSED FOUL MANHOLE
- PROPOSED FOUL RISING MAIN
- PROPOSED FOUL PUMPING STATION
- EXISTING FOUL SEWER

- Residential
- School site and indicative location of school building
- Community building
- Local centre option locations
- Employment
- Sports provision
- Informal open space
- Attenuation basins
- Allotments
- Children's play
- Pedestrian links

INDICATIVE

REV	DESCRIPTION	BY	CHK	APP	DATE

CG FRY
TAYLOR WIMPEY
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Project:
GILLINGHAM SOUTHERN EXTENSION

Drawing Title:
INIDICATIVE FOUL DRAINAGE STRATEGY
WESTERN CATCHMENT

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
1:1000	TS	15.11.16	CD	15.11.16	CD	15.11.16

Project No.	Office	Type	Drawing No.	Revision
A055606	21	C	002	-

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Appendix D

MicroDrainage Network Details

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PN	USIL (m)	DSIL (m)	USCL (m)	Length (m)	Slope (1:X)	Dia (mm)	k (mm)	Houses	Base Flow (l/s)
F1.000	78.407	76.815	79.757	65.825	41.4	150	1.500	40	0.0
F1.001	76.815	76.286	78.165	79.439	150.0	150	1.500	52	0.0
F1.002	76.286	75.937	77.895	52.328	150.0	150	1.500	0	7.9
F2.000	75.709	75.234	77.059	71.167	150.0	150	1.500	35	0.0
F2.001	75.234	74.633	77.832	90.174	150.0	150	1.500	35	0.0
F1.003	74.558	73.305	78.063	127.273	101.6	225	1.500	0	0.0
F1.004	73.305	72.877	77.096	46.856	109.4	225	1.500	30	0.0
F1.005	72.877	72.488	77.808	44.372	113.9	225	1.500	20	0.0
F1.006	72.488	71.765	77.231	85.777	118.6	225	1.500	18	0.0
F1.007	71.765	71.227	77.472	63.735	118.6	225	1.500	0	0.0
F1.008	71.227	70.632	76.632	75.000	126.0	225	1.500	30	0.0
F1.009	70.632	70.004	76.034	84.150	133.9	225	1.500	30	0.0
F1.010	70.004	69.748	75.803	35.645	139.4	225	1.500	30	0.0
F3.000	73.356	73.097	74.706	38.786	150.0	150	1.500	13	0.0
F3.001	73.097	72.626	74.923	70.649	150.0	150	1.500	10	0.0
F3.002	72.626	72.221	75.051	60.730	150.0	150	1.500	10	0.0
F3.003	72.221	71.877	75.523	51.584	150.0	150	1.500	20	0.0
F3.004	71.877	71.765	75.330	16.913	150.0	150	1.500	10	0.0
F3.005	71.765	71.702	74.906	9.375	150.0	150	1.500	10	0.0
F3.006	71.702	71.230	74.713	70.791	150.0	150	1.500	11	0.0
F1.011	69.748	69.450	74.970	47.833	160.6	225	1.500	10	0.0
F1.012	69.450	68.844	74.294	97.375	160.6	225	1.500	0	0.0
F1.013	68.844	68.073	74.399	134.154	174.1	225	1.500	60	0.0
F1.014	68.073	67.652	74.000	78.025	185.0	225	1.500	60	0.0
F4.000	76.444	76.054	77.794	58.503	150.0	150	1.500	30	0.0
F4.001	76.054	75.339	77.963	107.202	150.0	150	1.500	25	0.0
F4.002	75.339	75.211	78.513	19.192	150.0	150	1.500	12	0.0
F4.003	75.211	74.944	78.283	40.086	150.0	150	1.500	0	0.0
F4.004	74.944	73.851	77.500	163.909	150.0	150	1.500	0	0.0
F4.005	73.851	72.919	75.917	139.847	150.0	150	1.500	15	0.0
F4.006	72.919	72.686	75.311	34.970	150.0	150	1.500	10	0.0

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PN	Σ Houses	Σ Base Flow (l/s)	US C.Depth (m)	Pro Vel (m/s)	Pro Depth (mm)	Pro Vel @1/3 Flow (m/s)	Full Bore Vel (m/s)	Cap (l/s)	Flow (l/s)
F1.000	40	0.0	1.200	0.80	28	0.57	1.36	24.1	1.9
F1.001	92	0.0	1.200	0.64	60	0.47	0.71	12.6	4.3
F1.002	92	7.9	1.460	0.81	118	0.64	0.71	12.6	12.2
F2.000	35	0.0	1.200	0.49	36	0.35	0.71	12.6	1.6
F2.001	70	0.0	2.448	0.60	52	0.43	0.71	12.6	3.2
F1.003	162	7.9	3.280	1.03	90	0.75	1.14	45.3	15.4
F1.004	192	7.9	3.566	1.03	97	0.75	1.10	43.6	16.8
F1.005	212	7.9	4.706	1.02	101	0.75	1.08	42.7	17.7
F1.006	230	7.9	4.518	1.02	105	0.75	1.05	41.9	18.5
F1.007	230	7.9	5.482	1.02	105	0.75	1.05	41.9	18.5
F1.008	260	7.9	5.180	1.02	111	0.75	1.02	40.6	19.9
F1.009	290	7.9	5.176	1.01	118	0.75	0.99	39.4	21.3
F1.010	320	7.9	5.575	1.01	124	0.75	0.97	38.6	22.7
F3.000	13	0.0	1.200	0.36	23	0.25	0.71	12.6	0.6
F3.001	23	0.0	1.675	0.43	30	0.31	0.71	12.6	1.1
F3.002	33	0.0	2.274	0.48	35	0.34	0.71	12.6	1.5
F3.003	53	0.0	3.152	0.55	45	0.40	0.71	12.6	2.5
F3.004	63	0.0	3.303	0.58	49	0.42	0.71	12.6	2.9
F3.005	73	0.0	2.991	0.60	53	0.44	0.71	12.6	3.4
F3.006	84	0.0	2.861	0.63	57	0.46	0.71	12.6	3.9
F1.011	414	7.9	4.997	0.99	146	0.75	0.90	36.0	27.0
F1.012	414	7.9	4.619	0.99	146	0.75	0.90	36.0	27.0
F1.013	474	7.9	5.330	0.98	161	0.75	0.87	34.5	29.8
F1.014	534	7.9	5.701	0.96	180	0.75	0.84	33.5	32.6
F4.000	30	0.0	1.200	0.47	34	0.33	0.71	12.6	1.4
F4.001	55	0.0	1.759	0.56	46	0.40	0.71	12.6	2.5
F4.002	67	0.0	3.024	0.59	51	0.43	0.71	12.6	3.1
F4.003	67	0.0	2.921	0.59	51	0.43	0.71	12.6	3.1
F4.004	67	0.0	2.406	0.59	51	0.43	0.71	12.6	3.1
F4.005	82	0.0	1.916	0.62	56	0.45	0.71	12.6	3.8
F4.006	92	0.0	2.242	0.64	60	0.47	0.71	12.6	4.3

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PN	USIL (m)	DSIL (m)	USCL (m)	Length (m)	Slope (1:X)	Dia (mm)	k (mm)	Houses	Base Flow (l/s)
5.000	80.825	78.378	82.250	62.872	25.7	225	1.500	626	7.9
5.001	78.378	77.164	79.803	54.399	44.8	225	1.500	0	0.0
5.002	77.164	76.575	78.589	34.537	58.6	225	1.500	0	0.0
5.003	76.575	76.324	78.000	33.009	131.4	225	1.500	0	0.0
5.004	76.324	75.705	77.750	81.361	131.4	225	1.500	0	0.0
5.005	75.705	75.456	77.733	32.657	131.4	225	1.500	0	0.0
5.006	75.456	75.048	77.624	53.555	131.4	225	1.500	0	2.9
5.007	75.048	74.184	77.932	96.668	111.8	225	1.500	70	0.0
5.008	74.184	73.389	78.394	88.780	111.8	225	1.500	0	0.0
5.009	73.389	72.600	78.500	88.200	111.8	225	1.500	0	0.0
5.010	72.600	71.795	78.270	86.463	107.4	225	1.500	20	0.0
5.011	71.720	71.355	76.548	69.234	189.8	300	1.500	20	0.0
5.012	71.355	71.173	74.681	34.682	189.8	300	1.500	20	0.0
5.013	71.173	70.914	74.405	49.134	189.8	300	1.500	20	0.0
5.014	70.914	70.584	74.286	62.542	189.8	300	1.500	0	0.0
5.015	70.584	70.306	72.502	52.815	189.8	300	1.500	20	0.0
5.016	70.306	69.985	72.124	60.875	189.8	300	1.500	20	0.0
5.017	69.985	67.700	71.721	58.787	25.7	300	1.500	19	0.0
6.000	79.630	78.421	80.930	53.276	44.1	150	1.500	30	0.0
6.001	78.421	77.568	79.796	54.524	63.9	150	1.500	65	0.0
6.002	77.568	75.642	78.918	58.530	30.4	150	1.500	0	7.9
6.003	75.642	74.866	76.992	59.097	76.2	150	1.500	18	0.0
6.004	74.866	73.886	76.670	43.864	44.8	150	1.500	36	0.0
6.005	73.886	71.046	75.236	85.849	30.2	150	1.500	30	0.0
6.006	71.046	70.251	72.396	60.404	76.0	150	1.500	30	0.0
6.007	70.251	69.836	72.228	31.595	76.0	150	1.500	0	0.0
6.008	69.761	68.464	71.819	167.448	129.1	225	1.500	160	0.0
6.009	68.464	68.068	71.109	51.106	129.1	225	1.500	66	0.0

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PN	USIL (m)	DSIL (m)	USCL (m)	Length (m)	Slope (1:X)	Dia (mm)	k (mm)	Houses	Base Flow (l/s)
6.010	68.068	67.775	71.624	37.879	129.1	225	1.500	18	0.0
7.000	78.449	77.203	79.749	54.925	44.1	150	1.500	28	0.0
7.001	77.203	76.401	79.203	60.527	75.5	150	1.500	28	0.0
7.002	76.401	75.941	79.030	34.759	75.5	150	1.500	0	0.0
7.003	75.941	75.480	79.278	34.759	75.5	150	1.500	0	0.0
7.004	75.480	74.754	79.248	54.826	75.5	150	1.500	15	0.0
7.005	74.754	74.029	77.927	54.710	75.5	150	1.500	15	0.0
7.006	74.029	72.386	75.609	55.367	33.7	150	1.500	15	0.0
7.007	72.386	67.850	73.736	76.649	16.9	150	1.500	0	0.0
5.018	67.625	67.290	71.349	84.433	251.9	375	1.500	7	0.0
5.019	67.290	67.093	72.219	49.613	251.9	375	1.500	48	0.0
5.020	67.093	66.896	70.253	49.513	251.9	375	1.500	12	0.0
5.021	66.896	66.573	70.700	81.281	251.9	375	1.500	15	0.0
5.022	66.573	66.096	70.865	120.199	251.9	375	1.500	18	0.0
5.023	66.096	65.936	70.778	40.452	251.9	375	1.500	18	0.0
5.024	65.936	65.723	71.255	53.591	251.9	375	1.500	0	0.0
5.025	65.723	65.384	71.215	85.237	251.9	375	1.500	62	0.0
5.026	65.384	65.274	70.350	27.793	251.9	375	1.500	11	0.0
5.027	65.274	64.684	70.379	148.680	251.9	375	1.500	11	0.0
8.000	70.816	68.816	72.166	54.405	27.2	150	1.500	30	0.0
8.001	68.816	68.344	70.834	70.771	150.0	150	1.500	30	0.0
8.002	68.344	67.976	70.750	55.270	150.0	150	1.500	30	0.0
8.003	67.976	67.396	71.000	87.057	150.0	150	1.500	0	0.0
8.004	67.396	66.838	70.616	83.633	150.0	150	1.500	47	0.0
8.005	66.838	66.165	69.500	64.624	96.0	150	1.500	46	0.0
8.006	66.165	65.545	70.542	47.624	76.8	150	1.500	0	0.0
8.007	65.545	64.660	69.698	67.978	76.8	150	1.500	23	0.0

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PN	Σ Houses	Σ Base Flow (l/s)	US C.Depth (m)	Pro Vel (m/s)	Pro Depth (mm)	Pro Vel @1/3 Flow (m/s)	Full Bore Vel (m/s)	Cap (l/s)	Flow (l/s)
5.000	626	7.9	1.200	2.16	100	1.59	2.27	90.2	36.9
5.001	626	7.9	1.200	1.75	118	1.30	1.72	68.3	36.9
5.002	626	7.9	1.200	1.58	128	1.18	1.50	59.7	36.9
5.003	626	7.9	1.200	1.13	171	0.88	1.00	39.8	36.9
5.004	626	7.9	1.201	1.13	171	0.88	1.00	39.8	36.9
5.005	626	7.9	1.804	1.13	171	0.88	1.00	39.8	36.9
5.006	626	10.8	1.943	1.14	185	0.90	1.00	39.8	39.8
5.007	696	10.8	2.658	1.24	184	0.98	1.09	43.2	43.0
5.008	696	10.8	3.985	1.24	184	0.98	1.09	43.2	43.0
5.009	696	10.8	4.886	1.24	184	0.98	1.09	43.2	43.0
5.010	716	10.8	5.444	1.26	184	1.00	1.11	44.0	43.9
5.011	736	10.8	4.528	1.06	173	0.80	1.01	71.1	44.8
5.012	756	10.8	3.026	1.07	175	0.80	1.01	71.1	45.8
5.013	776	10.8	2.932	1.07	177	0.81	1.01	71.1	46.7
5.014	776	10.8	3.072	1.07	177	0.81	1.01	71.1	46.7
5.015	796	10.8	1.617	1.08	180	0.81	1.01	71.1	47.6
5.016	816	10.8	1.518	1.08	182	0.82	1.01	71.1	48.5
5.017	835	10.8	1.435	2.30	103	1.68	2.74	193.7	49.4
6.000	30	0.0	1.150	0.72	25	0.51	1.32	23.4	1.4
6.001	95	0.0	1.225	0.89	49	0.64	1.10	19.4	4.4
6.002	95	7.9	1.200	1.54	69	1.13	1.59	28.2	12.3
6.003	113	7.9	1.200	1.10	96	0.83	1.00	17.8	13.1
6.004	149	7.9	1.654	1.39	87	1.04	1.31	23.2	14.8
6.005	179	7.9	1.200	1.65	81	1.23	1.60	28.2	16.2
6.006	209	7.9	1.200	1.15	121	0.90	1.01	17.8	17.6
6.007	209	7.9	1.827	1.15	121	0.90	1.01	17.8	17.6
6.008	369	7.9	1.833	1.06	129	0.80	1.01	40.1	25.0
6.009	435	7.9	2.420	1.09	138	0.82	1.01	40.1	28.0

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PN	Σ Houses	Σ Base Flow (l/s)	US C.Depth (m)	Pro Vel (m/s)	Pro Depth (mm)	Pro Vel @1/3 Flow (m/s)	Full Bore Vel (m/s)	Cap (l/s)	Flow (l/s)
6.010	453	7.9	3.330	1.10	141	0.83	1.01	40.1	28.9
7.000	28	0.0	1.150	0.70	24	0.50	1.32	23.4	1.3
7.001	56	0.0	1.850	0.71	39	0.51	1.01	17.8	2.6
7.002	56	0.0	2.479	0.71	39	0.51	1.01	17.8	2.6
7.003	56	0.0	3.187	0.71	39	0.51	1.01	17.8	2.6
7.004	71	0.0	3.618	0.77	44	0.55	1.01	17.8	3.3
7.005	86	0.0	3.024	0.81	48	0.58	1.01	17.8	4.0
7.006	101	0.0	1.430	1.13	42	0.81	1.51	26.7	4.7
7.007	101	0.0	1.200	1.45	36	1.03	2.14	37.8	4.7
5.018	1396	18.7	3.349	1.10	242	0.84	1.01	111.4	83.3
5.019	1444	18.7	4.554	1.11	247	0.85	1.01	111.4	85.5
5.020	1456	18.7	2.785	1.11	248	0.85	1.01	111.4	86.0
5.021	1471	18.7	3.429	1.11	249	0.85	1.01	111.4	86.7
5.022	1489	18.7	3.916	1.11	251	0.85	1.01	111.4	87.6
5.023	1507	18.7	4.307	1.12	253	0.85	1.01	111.4	88.4
5.024	1507	18.7	4.944	1.12	253	0.85	1.01	111.4	88.4
5.025	1569	18.7	5.117	1.12	259	0.86	1.01	111.4	91.3
5.026	1580	18.7	4.590	1.12	260	0.86	1.01	111.4	91.8
5.027	1591	18.7	4.730	1.12	261	0.86	1.01	111.4	92.3
8.000	30	0.0	1.200	0.85	22	0.60	1.68	29.8	1.4
8.001	60	0.0	1.868	0.57	48	0.41	0.71	12.6	2.8
8.002	90	0.0	2.256	0.64	59	0.47	0.71	12.6	4.2
8.003	90	0.0	2.874	0.64	59	0.47	0.71	12.6	4.2
8.004	137	0.0	3.070	0.72	75	0.53	0.71	12.6	6.3
8.005	183	0.0	2.512	0.91	78	0.67	0.89	15.8	8.5
8.006	183	0.0	4.227	0.99	73	0.73	1.00	17.7	8.5
8.007	206	0.0	4.003	1.02	78	0.76	1.00	17.7	9.5

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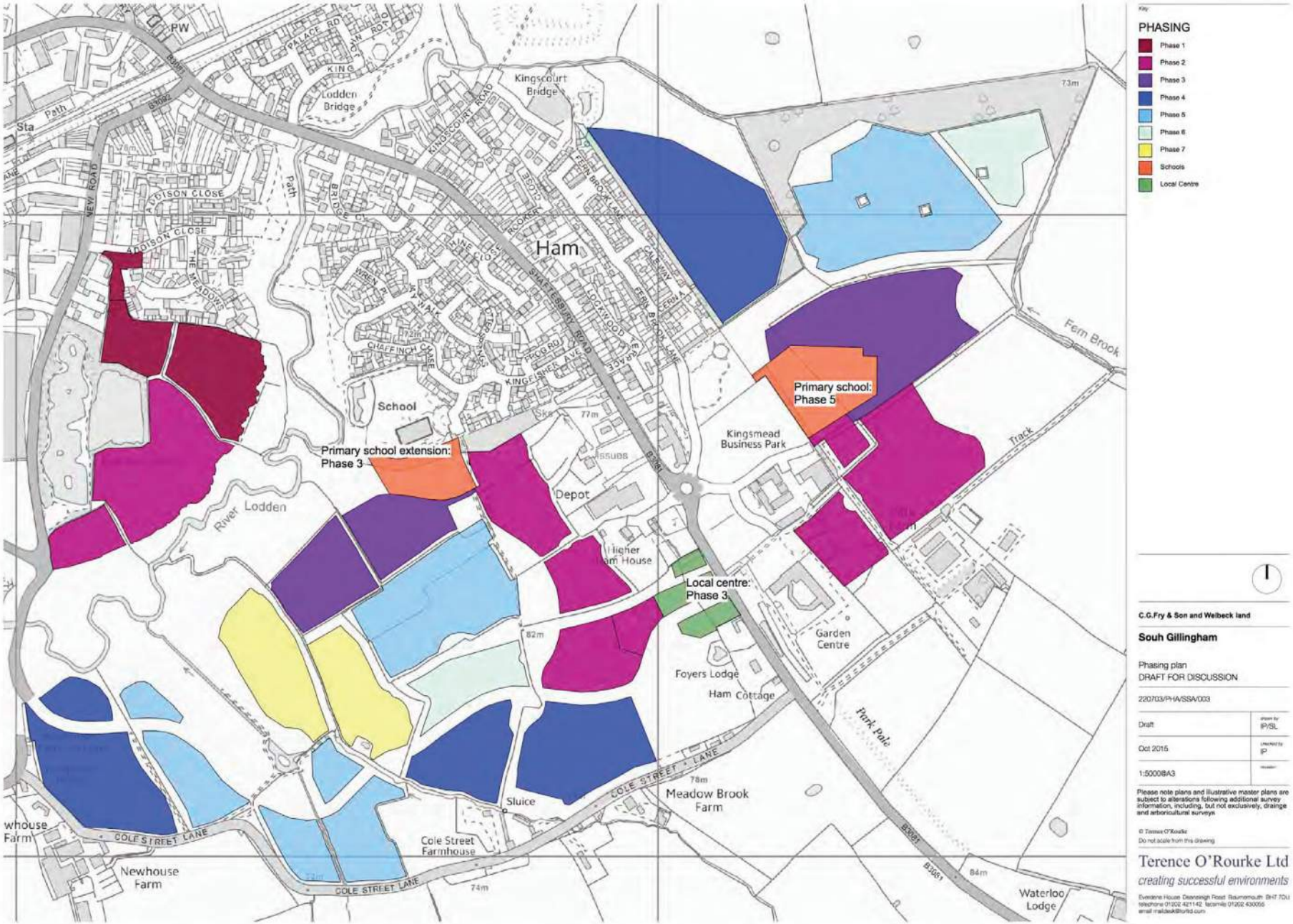
Appendix E

Terence O' Rourke Density Plan and Phasing Plan

Consortium density plan



Phasing plan